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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

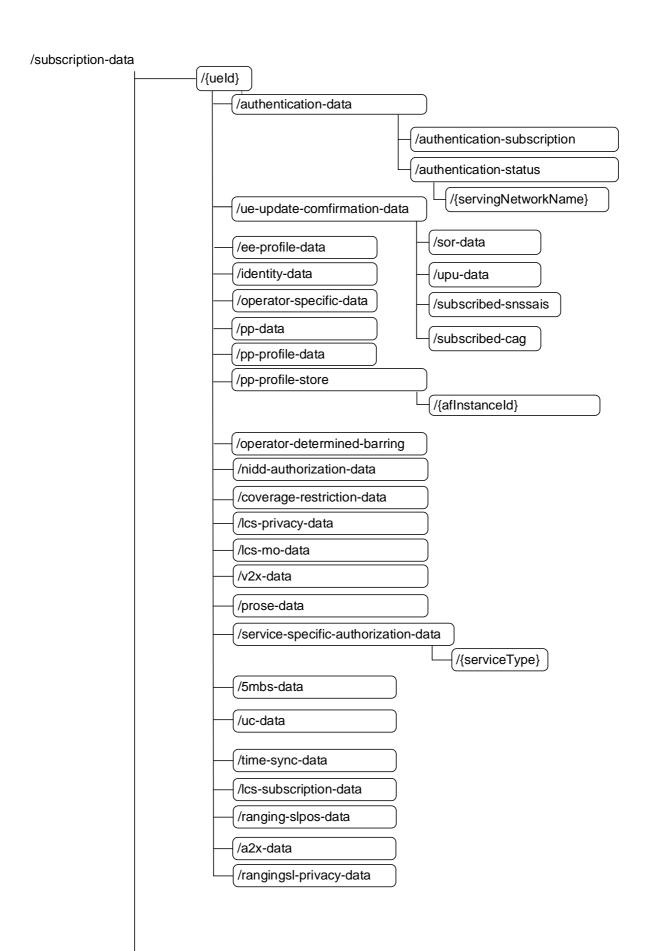


Figure 5.2.1-1: Resource URI sub-level structure for subscription data

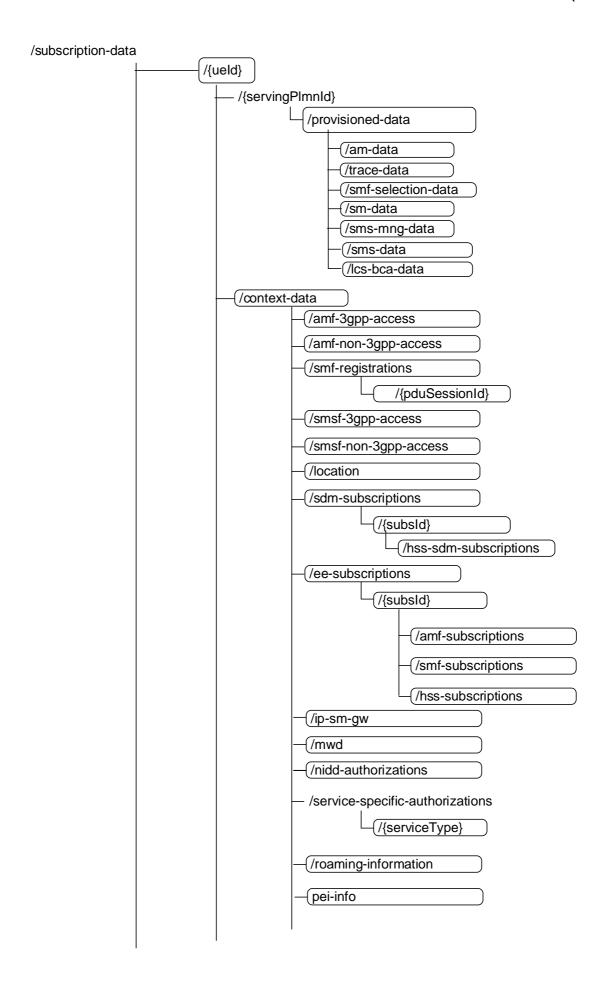


Figure 5.2.1-2: Resource URI sub-level structure for subscription data (cont.)

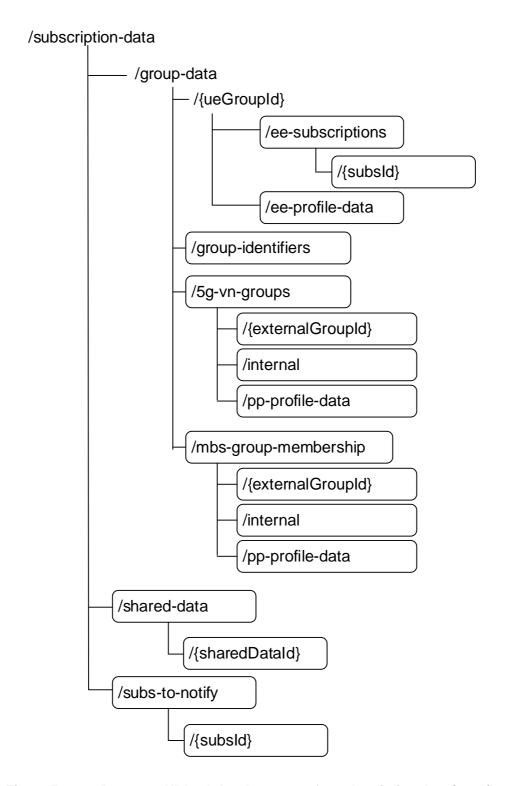


Figure 5.2.1-3: Resource URI sub-level structure for subscription data (cont.)

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 PATCH	Retrieve a UE's authentication subscription data Update a UE's authentication subscription data Updates shall be limited to the sequenceNumber attribute. Attempts to patch any other attribute shall be rejected by the UDR.		
UeUpdateConfirmation	/subscription-data/{ueld}/ue-update- confirmation-data	Y	GET	Retrieve the complete UE-acknowledgement info		
AuthenticationSoR (Document)	/subscription-data/{ueld}/ue-update- confirmation-data/sor-data	Y	PUT	Store UE's SOR acknowledgement information (SoR-XMAC- IUE), "ME support of SOR-CMCI" "ME support of SOR-SNPN-SI" and, "ME support of SOR- SNPN-SI-LS". Retrieve UE's SOR acknowledgement information, "ME support of SOR-CMCI", "ME support of SOR-SNPN- SI" and, "ME support of SOR-SNPN-SI-LS".		
			PATCH	Update "ME support of SOR-CMCI" and "ME support of SOR-SNPN- SI"and, "ME support of SOR-SNPN-SI-LS".		
AuthenticationUPU (Document)	/subscription-data/{ueld}/ue-update- confirmation-data/upu-data	Y	PUT	Store UE Parameter Update acknowledgement information (UPU- XMAC-IUE)		
			GET	Retrieve UE Parameter Update acknowledgement information		
SubscribedSNSSAIs (Document)	/subscription-data/{ueld}/ue-update- confirmation-data/subscribed-snssais	Y	PUT	Store UE- acknowledgement info for change of subscribed S-NSSAIs Retrieve UE-		
				acknowledgement info for change of subscribed S-NSSAIs		

SubscribedCAC	/outpoorintion data/(upld)/	Īv.	PUT	Store UE-
SubscribedCAG (Document)	/subscription-data/{ueld}/ue-update- confirmation-data/subscribed-cag	Υ	PUI	acknowledgement info
(Document)	commitmentori-data/subscribed-cag			for change of subscribed
				CAG
			GET	Retrieve UE-
			02.	acknowledgement info
				for change of subscribed
				CAG
AuthenticationStatus	/subscription-data/{ueld}/authentication-	N	PUT	Store a UE's
(Document)	data/authentication-status			authentication status
			GET	Retrieve a UE's
				authentication status
			DELETE	Delete a UE's
				authentication status
		Υ	PUT	When the feature
				"PerUePerSnAuthStatus"
				is supported, store a
				UE's Individual
			GET	authentication status When the feature
	/subscription-data/{ueld}/authentication-		GEI	"PerUePerSnAuthStatus"
IndividualAuthenticationStatus	data/authentication-			is supported, retrieve a
(Document)	status/{servingNetworkName}			UE's Individual
	Status/(Serving Network Name)			authentication status
			DELETE	When the feature
				"PerUePerSnAuthStatus"
				is supported, delete a
				UE's Individual
				authentication status
ProvisionedData	/subscription-	N	GET	Retrieve the UE's
(Document)	data/{ueld}/{servingPlmnId}/provisioned-			subscribed Provisioned
	data			Data
AccessAndMobilitySubscriptionData	/subscription-	Υ	GET	Retrieve the UE's
(Document)	data/{ueld}/{servingPlmnld}/provisioned-			subscribed Access and
0 (0 )	data/am-data		057	Mobility Data
SmfSelectionSubscriptionData	/subscription-	Υ	GET	Retrieve the UE's
(Document)	data/{ueld}/{servingPlmnId}/provisioned-			subscribed SMF
Cassian Managament Cubacristian Data	data/smf-selection-subscription-data /subscription-	Υ	GET	Selection Data Retrieve the UE's
SessionManagementSubscriptionData (Document)	data/{ueld}/{servingPlmnld}/provisioned-	ĭ	GET	subscribed SM
(Document)	data/sm-data			Subscription Data
ContextData	/subscription-data/{ueld}/context-data	N	GET	Retrieve the UE's
(Document)	/oubscription data/(dolaj/context data	. `	02.	context Data
(======================================		Υ	PUT	Create and Update the
				AMF registration for
				3GPP access
Amf3GppAccessRegistration	/outporintion_data/(upld)/apptort		PATCH	Modify the AMF
(Document)	/subscription-data/{ueld}/context-data/amf-3gpp-access			registration for 3GPP
(Document)	Judia/aiiii-ogpp-access			access
			GET	Retrieve the AMF
				registration information
				for 3GPP access
		Υ	PUT	Update the AMF
				registration for non
			DATOLL	3GPP access
AmfNon3GppAccessRegistration	/subscription-data/{ueld}/context-		PATCH	Modify the AMF
(Document)	data/amf-non-3gpp-access			registration for non 3GPP access
			GET	Retrieve the AMF
			GEI	registration information
				for non 3GPP access
				IOI HOII SOFF ACCESS

SmfRegistrations	/subscription-data/{ueld}/context-	Υ	GET	Retrieve the list of the
(Store)	data/smf-registrations		DUT	SMF registrations
		Υ	PUT	Store an individual SMF registration identified by PDU Session Id
IndividualSmfRegistration	/subscription-data/{ueld}/context-data		DELETE	Delete an individual SMF registration
(Document)	/smf-registrations/{pduSessionId}		GET	Retrieve individual SMF registration
			PATCH	Modify the individual SMF registration
		Υ	GET	retrieve the operator
				specific subscription data of a UE
O			PATCH	modify the operator specific subscription data
OperatorSpecificData (Document)	/subscription-data/{ueld}/operator- specific-data		PUT	of a UE create/update the
(Document)	Specific-data		POT	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	Y	GET	Retrieve the UE's Operator Determined Barring
SMSManagementSubscriptionData	/subscription-	Υ	GET	Retrieve the UE's
(Document)	data/{ueld}/{servingPlmnId}/provisioned-			subscribed SMS
	data/sms-mng-data			management
		Υ	PUT	subscription data. Create or Update the
		'	01	SMSF registration
Smsf3GppAccessRegistration	/subscription-data/{ueld}/context-data		DELETE	Delete the SMSF
(Document)	/smsf-3gpp-access			registration for 3GPP access
			GET	Retrieve the SMSF
				registration information
		Υ	PUT	Create or Update the
				SMSF registration for non 3GPP access
SmsfNon3GppAccessRegistration	/outparinting data/(uald)/contact data		DELETE	Delete the SMSF
(Document)	/subscription-data/{ueld}/context-data /smsf-non-3gpp-access			registration for non
,	511		GET	3GPP access Retrieve the SMSF
			021	registration information
				for non 3GPP access
		Υ	PUT	Create or Update the IP- SM-GW registration
			DELETE	Delete the IP-SM-GW
IpSmGwRegistration	/subscription-data/{ueld}/context-			registration
(Document)	data/ip-sm-gw		PATCH	Modify the IP-SM-GW registration
			GET	Retrieve the IP-SM-GW
			51.17	registration information
		Y	PUT	Create or Update the SMS Message Waiting
				Data
   MessageWaitingData	/subscription-data/{ueld}/context-		DELETE	Delete the SMS
(Document)	data/mwd		PATCH	Message Waiting Data Modify the SMS
			PATCH	Message Waiting Data
			GET	Retrieve the SMS
Color Culto a mineti		N.	OFT	Message Waiting Data
SdmSubscriptions (Collection)	/subscription-data/{ueld}/context-data/sdm-subscriptions	N	GET	Retrieve SDM subscriptions
(25555)	asia/daiii dabdaiipiidiid		POST	Create an individual
				SDM subscription

	<del>_</del>			
IndividualSdmSubscription (Document)	/subscription-data/{ueld}/context- data/sdm-subscriptions/{subsId}	N	PUT	Update an individual SDM subscription
	, ,		DELETE	Delete an individual SDM subscription
			PATCH	Update an individual SDM Subscription
			GET	Retrieve an individual SDM subscription
HssSdmSubscriptionInfo (Document)	/subscription-data/{ueld}/context-data/sdm-subscriptions/{subsld}/hss-	N	PUT	Store information related to the Hss-SDM-
	sdm-subscriptions		DELETE	Subscriptions Delete the Hss-SDM-
			GET	subscriptions Retrieve Hss-SDM-
			PATCH	subscriptions Update Hss-SDM-
EeSubscriptions	/subscription-data/{ueld}/context-	N	GET	subscriptions Retrieve EE
(Collection)	data/ee-subscriptions		POST	subscriptions Create an EE
		<u> </u>		subscription
IndividualEeSubscription (Document)	/subscription-data/{ueld}/context-data/ee-subscriptions/{subsld}	N	PUT	Update an individual EE subscription
			DELETE	Delete an individual EE subscription
			PATCH	Update an individual EE subscription
			GET	Retrieve an individual EE subscription
AmfSubscriptionInfo (Document)	/subscription-data/{ueld}/context-data/ee-subscriptions/{subsld}/amf-	N	PUT	Store information related to the Amf-EE-
(Document)	subscriptions		DELETE	Subscription response
				Delete the Amf-EE- subscriptions
			GET	Retrieve AMF- subscriptions
			PATCH	Update AMF- subscriptions
SmfSubscriptionInfo (Document)	/subscription-data/{ueld}/context- data/ee-subscriptions/{subsld}/smf-	N	PUT	Store information related to the received Smf-EE-
	subscriptions		DELETE	Subscription response Delete the Smf-EE-
			GET	subscriptions Retrieve SMF-
				subscriptions
			PATCH	Update SMF- subscriptions
HssSubscriptionInfo (Document)	/subscription-data/{ueld}/context-data/ee-subscriptions/{subsId}/hss-	N	PUT	Store information related to the Hss-EE-
	subscriptions		DELETE	Subscriptions Delete the Hss-EE-
				subscriptions
			GET	Retrieve Hss-EE- subscriptions
			PATCH	Update Hss-EE- subscriptions
EeProfileData (Document)	/subscription-data/{ueld}/ee-profile-data	Y	GET	Retrieve the UE's subscribed EE profile
ProvisionedParamenterData (Document)	/subscription-data/{ueld}/pp-data	У	PATCH	data. Update of provisioned parameters.
(Doodingin)			GET	Retrieves the UE's provisioned parameters.
				provisioneu parameters.

PpProfileData	/subscription-data/{ueld}/pp-profile-data	Υ	GET	Retrieve the UE's
(Document)	/subscription-data/(deld//pp-profile-data	1'	GLI	subscribed PP profile
(Boodinent)				data.
ProvisionedParameterDataEntries	/subscription-data/{ueld}/pp-data-store	Υ	GET	Retrieve a Provisioned
(Store)	/outdoinpilon data/(doid)/pp data otoro	1'	021	Parameter Data of
(Store)				multiple Entries
ProvisionedParameterDataEntry	/subscription-data/{ueld}/pp-data-	Υ	PUT	Create a Provisioned
(Document)	store/{afInstanceId}			Parameter Data Entry
	,		DELETE	Delete a Provisioned
				Parameter Data Entry
			GET	Retrieve a Provisioned
				Parameter Data Entry
SMSSubscriptionData	/subscription-	Υ	GET	Retrieve the UE's
(Document)	data/{ueld}/{servingPlmnld}/provisioned-			subscribed SMS
	data/sms-data			subscription data.
SubscriptionDataSubscriptions	/subscription-data/subs-to-notify	N	GET	Retrieve existing
(Collection)				subscriptions
			POST	Create a subscription,
				i.e. subscribe a node to
				receive notification for
			DEL ETE	change of data
			DELETE	Deletes multiple
				subscriptions for a given
In dividual Cub assistian Data Cub assistian	/ab.a.mintia.m. data/ab.a.ta	N.	DELETE	UE.
IndividualSubscriptionDataSubscription (Document)	/subscription-data/subs-to-	N	DELETE	Delete the subscription identified by {subsld}, i.e.
	notify/{subsId}			unsubscribe a node to
				receive notification for
				change of data
			PATCH	Update an individual
			1 711 011	Subscription to
				notification
			GET	Retrieve an individual
				Subscription to
				notification
EeGroupSubscriptions	/subscription-data/group-	N	GET	Retrieve EE
(Collection)	data/{ueGroupId}/ee-subscriptions			subscriptions for groups
				of UEs
			POST	Create an EE
				subscription for groups
1 11 15 0 0 1 1 1		ļ	D. IT	of UEs
IndividualEeGroupSubscription	/subscription-data/group-	N	PUT	Update an individual EE
(Document)	data/{ueGroupId}/ee-			subscription for a group
	subscriptions/{subsId}		DELETE	of UEs
			DELETE	Delete an individual EE subscription for a group
				of UEs
			PATCH	Update an individual EE
			1 7 0 1	subscription for a group
				of UEs
			GET	Retrieve an individual EE
			1	subscription for a group
				of UEs
	<u> </u>	1	_1	<del>- = -</del>

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

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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
LcsPrivacySubscriptionData	/subscription-data/{ueld}/lcs-privacy-	Υ	GET	operations. Retrieve the UE's
(Document)	data	T	GET	subscribed LCS privacy
	uata			Subscription Data
LcsMobileOriginatedSubscriptionData	/subscription-data/{ueld}/lcs-mo-data	Υ	GET	Retrieve the UE's
(Document)	/subscription data/(delaj/les mo data	'	02.	subscribed LCS Mobile
(Decament)				Originated Subscription
				Data
LcsSubscriptionData	/subscription-data/{ueld}/lcs-	Υ	GET	Retrieve the UE's LCS
(Document)	subscription-data			Subscription Data
NiddAuthorizationData	/subscription-data/{ueld}/nidd-	Υ	GET	Retrieve the UE's NIDD
(Document)	authorization-data			Authorization Data
ServiceSpecificAuthorizationData	/subscription-data/{ueld}/service-	Υ	GET	Retrieve the UE's
(Document)	specific-authorization-			Authorization Data for a
	data/{serviceType}			specific service
CoverageRestrictionData	/subscription-data/{ueld}/coverage-	Υ	GET	Retrieve the UE's
(Document)	restriction-data			subscribed enhanced
				Coverage Restriction Data
Location	/subscription-data/{ueld}/context-	Υ	GET	Retrieve the UE's
(Document)	data/location	'	GET	Location Information
V2xSubscriptionData	/subscription-data/{ueld}/v2x-data	Υ	GET	Retrieve the UE's
(Document)	/odboomphori data/(dola)/ VZX data	'	02.	subscribed V2X Data
ProseSubscriptionData	/subscription-data/{ueld}/prose-data	Υ	GET	Retrieve the UE's
(Document)				subscribed ProSe
,				Service Data
5MBSSubscriptionData	/subscription-data/{ueld}/5mbs-data	Υ	GET	Retrieve the UE's 5MBS
(Document)				Subscription Data
UcSubscriptionData	/subscription-data/{ueld}/uc-data	Υ	GET	Retrieve the UE's User
(Document)				Consent Data
LcsBroadcastAssistanceSubscriptionData		Υ	GET	Retrieve the UE's
(Document)	data/{ueld}/{servingPlmnId}/provisioned-			subscribed LCS
	data/lcs-bca-data			Broadcast Assistance
NiddAuthorizations	/subscription-data/{ueld}/context-	Υ	PUT	subscription data Store information related
(Document)	data/nidd-authorizations	'	FUI	to the NIDD
(Document)	data/filidd-adti lofi2atiof13			Authorization
			DELETE	Delete the NIDD
				Authorizations
			GET	Retrieve NIDD
				Authorizations
			PATCH	Update a specific NIDD
				Authorization
UeSubscriptionData	/subscription-data/{ueld}	N	GET	Retrieve data set(s) from
(Document)				the UE's subscription
				data
SpecificServiceAuthorizations	/subscription-data/{ueld}/context-	Υ	PUT	Store information related
(Document)	data/service-specific-			to the service specific
	authorizations/{serviceType}		DELETE	Authorization  Delete the service
			DELETE	
		1	1	specific Authorization
			GET	Ratriava carvica chacific
			GET	Retrieve service specific
				Authorizations
			GET PATCH	Authorizations Update a service specific
RoamingInfo	/subscription-data/{ueld}/context-	Y	PATCH	Authorizations
RoamingInfo (Document)	/subscription-data/{ueld}/context-data/roaming-information	Y		Authorizations Update a service specific Authorization Retrieve the last
RoamingInfo (Document)	/subscription-data/{ueld}/context-data/roaming-information	Υ	PATCH	Authorizations Update a service specific Authorization
		Υ	PATCH	Authorizations Update a service specific Authorization Retrieve the last 5GC/EPC common Roaming Information in the 3GPP access
		Υ	PATCH	Authorizations Update a service specific Authorization Retrieve the last 5GC/EPC common Roaming Information in the 3GPP access Update or create the last
		Y	PATCH	Authorizations Update a service specific Authorization Retrieve the last 5GC/EPC common Roaming Information in the 3GPP access Update or create the last 5GC/EPC common
		Y	PATCH	Authorizations Update a service specific Authorization Retrieve the last 5GC/EPC common Roaming Information in the 3GPP access Update or create the last

PeiInfo (Document)	/subscription-data/{ueld}/context-data/ pei-info	Y	GET	Retrieve the PEI of the 5GC/EPC domains
			PUT	Update or create the PEI of the 5GC/EPC domains
TimeSyncSubscriptionData (Document)	/subscription-data/{ueld}/time-sync-data	N	GET	Retrieve the UE's Time Synchronization Subscription Data
5GMbsGroup (Store)	/subscription-data/group-data/mbs- group-membership	Y	GET	Retrieve 5G MBS Group
Individual5GmbsGroup (Document)	/subscription-data/group-data/mbs- group-membership/{externalGroupId}	Υ	PUT PATCH DELETE GET	Create a 5G MBS Group Update a 5G MBS Group Delete a 5G MBS Group Retrieve a 5G MBS Group
5GMbsGroupsInternal (Document)	/subscription-data/group-data/mbs- group-membership/internal	Y	GET	Retrieve 5G MBS Group Data based on Internal Group Identifier(s)
Pp5gMbsGroupProfileData (Document)	/subscription-data/group-data/mbs- group-membership/pp-profile-data	Y	GET	Retrieve the UE's subscribed PP profile data for accessing 5G MBS Group service operations.
RangingSIPosSubscriptionData (Document)	/subscription-data/{ueld}/ranging-slpos- data	Y	GET	Retrieve the UE's subscribed Ranging and Sidelink Positioning Data
A2xSubscriptionData (Document)	/subscription-data/{ueld}/a2x-data	Y	GET	Retrieve the UE's subscribed A2X Data
RangingSIPrivacySubscriptionData (Document)	/subscription-data/{ueld}/rangingsl- privacy-data	Y	GET	Retrieve the UE's subscribed Ranging and Sidelink Positioning privacy Subscription Data

### 5.2.2 Resource: AuthenticationSubscription

#### 5.2.2.1 Description

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

- NOTE 1: This resource contains security-sensitive attributes, such as the long-term key of the UE (see "encPermanentKey" attribute of the AuthenticationSubscription data type in clause 5.4.2.2). Read/write access can be authorized by means of OAuth2.
- NOTE 2: Although these security-sensitive attributes are stored in an encrypted form in the UDR, operators can consider its storage separately from other types of subscription data. How to achieve this in a secure way is implementation-specific; a description of a typical mechanism can be found in the informative Annex X in 3GPP TS 29.500 [8].

#### 5.2.2.2 Resource Definition

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

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

Table 5.2.2.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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	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 5.2.2.3.1-2 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 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

NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.

NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult.

## 5.2.3 Resource: AccessAndMobilitySubscriptionData

#### 5.2.3.1 Description

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

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

#### 5.2.3.2 Resource Definition

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

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

Table 5.2.3.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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

#### 5.2.3.3.1 GET

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

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

Name	Data type	Р	Cardinality	Description
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.
adjacent-plmns	array(PlmnId)	0	1N	PLMN identities of PLMNs adjacent to the PLMN serving the UE. If present the GET response may contain adjacentPlmnRestrictions for the indicated PLMNs.
supported- features	SupportedFeatures	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	Description				
			codes					
AccessAndMobilitySubscriptionData	М	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 (consisting of MCC, MNC) or SNPN (consisting of MCC,							
	MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].							
	pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?\$"							

#### 5.2.4.3 Resource Standard Methods

#### 5.2.4.3.1 GET

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

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

Name	Data type	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	NOTE: In addition common data structures as listed in table 5.5-1 are supported.								

#### 5.2.5 Resource: SessionManagementSubscriptionData

#### 5.2.5.1 Description

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

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

#### 5.2.5.2 Resource Definition

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

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

Table 5.2.5.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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}))?\$"

#### 5.2.5.3 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	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	
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 common data structures as listed in table 5.5-1 are supported.						

## 5.2.6 Resource: Amf3GppAccessRegistration

#### 5.2.6.1 Description

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

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

#### 5.2.6.2 Resource Definition

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

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

Table 5.2.6.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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	Р	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	Р	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

	codes	Description				
	204 No	Upon success, an empty response body shall be returned				
Amf3GppAccessRegistration M 1 201 Upon success, a response body containing a representation of the created Individual Amf3GppAccessRegistration resource shall be returned.						
	1	204 No Content 1 201 Created				

#### 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 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 and the cause attribute shall be set to "MODIFICATION_NOT_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1.

NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.

NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult.

### 5.2.6.3.3 GET

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

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

Name	Data type	P	Cardinality	Description
fields	array(string)	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	М	1		Upon success, a response body containing the Amf3GppAccessRegistration shall be returned.			
NOTE: In addition common da	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	Response codes	Description
n/a			204 No Content	Upon success, an empty response body shall be returned
AmfNon3GppAccessRegistration	M	1	201 Created	Upon success, a response body containing a representation of the created Individual AmfNon3GppAccessRegistration resource shall be returned.
NOTE: In addition common data st	ruc	tures as listed	l 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	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, 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	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 5.2.7.3.3-2 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	Description
			codes	
AmfNon3GppAccessRegistration	M	1		Upon success, a response body containing the Amf3GppAccessRegistration shall be returned.
NOTE: In addition common data st	ruc	tures as listed	l 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	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 5.2.8.3.1-2 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 codes	Description				
SmfRegList	M	1	200 OK	Upon success, a response body containing the (possibly empty) list of SMF registrations of the relevant UE shall be returned.				
NOTE: In addition c	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	M	1	The registration that is to be created

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

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

#### 5.2.9.3.2 DELETE

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

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

	Name	Data type	Р	Cardinality	Description
- I	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	P	Cardinality	Response codes	Description				
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.							

#### 5.2.9.3.3 GET

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

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

Name	Data type	P	Cardinality	Description
fields	array(string)	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 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; 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

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

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	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	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 5.2.10.3.1-2 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								

#### 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
array(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
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, 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)	0	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, of							

#### 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	type	P	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	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 3GPP access resource shall be returned.
SmsfRegistration	M	1	200 OK	Upon success, a response body containing a representation of the updated Individual SmsfRegistration for 3GPP access resource shall be returned.
NOTE: In addition of	comm	on data structui	res 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	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.						

## 5.2.11.3.4 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	Description		
			codes			
SmsfRegistration	М	1		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	М	1	The SMSF registration for non 3GPP access is created or updated with the
			received information.

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

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

### 5.2.12.3.2 DELETE

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

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

Name	Data type	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	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.						

## 5.2.12.3.4 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	Р	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
<b>IpSmGwRegistrati</b>	М	1	The IP-SM-GW registration is created or updated with the received
on			linformation.

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

Da	ata 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.						

## 5.2.12A.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, 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-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				See 3GFF 13 29.500 [6] 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 Content	Upon successful modification there is no body in the response message. (NOTE 2)
B B				3 \ /
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	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 5.2.12B.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,	comi					

# 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 (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5]. pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?\$"

### 5.2.13.3 Resource Standard Methods

#### 5.2.13.3.1 GET

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

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

Name	Data type	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 5.2.13.3.1-2 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	M	1		Upon success, a response body containing the SMS Management Subscription Data shall be returned.
NOTE: In addition common data stru	ıctu	res as listed ir	n 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

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

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
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 5.2.14.3.1-2 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	P	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
arrav(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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	M	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	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	M	1	200 OK	Upon success, a response body containing the Parameter Provision Profile that corresponds to the provided ueld			
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.							

# 5.2.14B Resource: ProvisionedParameterDataEntry

## 5.2.14B.1 Description

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

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

## 5.2.14B.2 Resource Definition

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

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-[^@]+@[^@]+\$"
	<ul> <li>If representing any UE, this parameter shall contain "anyUE".</li> <li>pattern: "^anyUE\$"</li> </ul>
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	М	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						

#### 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 codes	Description
PpDataEntry	М	1	200 OK	Upon success, a response body is returned containing the provisioned data entry of the UE.

## 5.2.14C Resource: ProvisionedParameterDataEntries

## 5.2.14C.1 Description

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

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

#### 5.2.14C.2 Resource Definition

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/< apiVersion>/subscription-data/\{ueId\}/pp-data-storely for the properties of the pro$ 

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 VarUeld 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

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						
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})?\$"						

## 5.2.15.3 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	Description		
			codes			
SmsSubscriptionData	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.						

# 5.2.16 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	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 5.2.16.3.1-2 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	Description			
			codes				
array(SdmSubscription)	М	1N		Upon success, a response body containing the individual SDM subscriptions shall be returned.			
NOTE: In addition commo	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	М	1	Identifies the subscriber data subscription to be stored in the UDR.

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

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

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

Data type	P	Cardinality	Response codes	Description		
SdmSubscription	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 of	NOTE: In addition common data structures as listed in table 5.5-1 are supported.					

# 5.2.17 Resource: IndividualSdmSubscription

## 5.2.17.1 Description

This resource represents an individual SDM Subscription for a UE.

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

### 5.2.17.2 Resource Definition

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

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

Table 5.2.17.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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	M	1	The individual SDM subscription that is to be stored

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

Data type	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 of	omm	on data structur	es 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	Р	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
r	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	comm	on data structu	res 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)	М	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	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.

## 5.2.17.3.4 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	Description		
			codes			
SdmSubscription	М	1		Upon success, a response body containing the individual SDM subscriptions shall be returned.		
NOTE: In addition	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	a 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.					

#### 5.2.17A.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	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.3.3 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

Data 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	Description		
			codes			
HssSubscriptionInfo	M	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)	М	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	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 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	1N	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	1N	Indicates to return relevant EE subscription data along with associated Subscription resources created and stored while initiating subscriptions to NFs identified by NfType and NfInstanceId

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

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

Data type	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 codes	Description
array(EeSubscriptionExt)	М	1N		Upon success, a response body containing the individual EE subscriptions shall be returned.
NOTE: In addition commor	n da	ta structures	as listed in ta	ble 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 type	Р	Cardinality	Description
EeSubscription	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	Р	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 of	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	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.				

#### 5.2.19.3.3 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

Р	Cardinality	Response	Description
		codes	
		204 No	Upon successful modification, there is no body in the response
		Content	message. (NOTE 2)
М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
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.
		M 1	Codes   204 No   Content   M   1   200 OK   O   01   403

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	Description	
			codes		
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/{subsId}

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

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

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
•	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.
			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,	comm	on data structu	res as listed ir	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	Р	Cardinality	Response codes	Description
n/a			204 No	Upon success, an empty response body shall be returned.
			Content	
NOTE: In addition,	comm	on data structu	res as listed ir	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	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.

#### 5.2.19A.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	М	1		Upon success, a response body containing the individual EE		
				subscriptions for the groups of UEs shall be returned		
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.						

# 5.2.19B Resource: EeGroupProfileData

# 5.2.19B.1 Description

This resource represents the subscribed Event Exposure Profile Data for a group of UEs or any UE (i.e. all UEs). It is queried by the UDM by either external group identifier or 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
ueGroupId	Represents the identifier of the Group of UEs. For this resource, either External Group
	Identifier or any UE shall be present.
	pattern: See pattern of type VarUeGroupId

# 5.2.19B.3 Resource Standard Methods

#### 5.2.19B.3.1 GET

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

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

Name	Data type	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	P	Cardinality	Response codes	Description	
EeGroupProfileData	M	1		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	P	Cardinality	Description
n/a				

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

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

Data type	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

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)	М	1N	201	Upon successful update of this resource, a representation	
			Created	of the created resource containing an array of the	
				AmfSubscriptionInfo as allocated by the UDR shall be	
				returned.	
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.					

# 5.2.19C.3.2 DELETE

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

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

Name	Data type	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	l			204 No	Upon success, an empty response body shall be returned.		
				Content			
NC	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		Upon success, a response body containing AMF Subscription Infos shall be returned.	
NOTE: In addition common data structures as listed in table 5.5-1 are supported.					

#### 5.2.31.3.4 PATCH

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

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

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

Name	Data type	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				See 3GFF 13 29.300 [0] clause 0.0

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)	М	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

Р	Cardinality	Response	Description
		codes	
		204 No	Upon successful modification there is no body in the response
		Content	message. (NOTE 2)
М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
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.
	M	M 1	Codes   204 No   Content   M   1   200 OK   O   01   403

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	Description	
			codes		
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.					

# 5.2.19D.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

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

# 5.2.19E 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

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.						

#### 5.2.19E.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, common data structures as listed in table 5.5-1 are supported.				

#### 5.2.19E.3.4 PATCH

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

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

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

Name	Data type	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)	M	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	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.

# 5.2.20 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	М		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
n/a			

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

Data type	Р	Cardinality	Response	Description			
			codes				
array(SubscriptionDataSubscriptions)	М	0N	200 OK	Upon success, a response body containing the			
				individual subscriptions shall be returned.			
NOTE: In addition common data str	In addition common data structures as listed in table 5.5-1 are supported.						

# 5.2.20.3.3 DELETE

This method shall support the URI query parameters specified in table 5.2.20.3.3-1.

Table 5.2.20.3.3-1: URI query parameters supported by the DELETE method on this resource

Name	Data type	P	Cardinality	Description
ue-id	VarUeld	M	1	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) of the UE associated to this subscription.
nf-instance-id	NfInstanceId	С	01	Pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]  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	of-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	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.							

# 5.2.21 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	P	Cardinality	Description
n/a				

This method shall support the request data structures specified in table 5.2.21.3.1-2 and the response data structures and response codes specified in table 5.2.21.3.1-3.

Table 5.2.21.3.1-2: Data structures supported by the DELETE Request Body on this resource

Data type	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					
n/a			204 No	Upon success, an empty response body shall be returned.					
			Content						
NOTE: In addition of	omm	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

Р	Cardinality	Response codes	Description
		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.
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)
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)
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.
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.
	С	C 01  C 01	Codes           204 No           Content           C 01           200 OK             C 01           200 OK             O 01         403           Forbidden             O 01         404 Not

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
Ī	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 a SubscriptionDataSubscriptions object shall be returned.					
NOTE: In addition common data	str	NOTE: In addition common data structures as listed in table 5.5-1 are supported.							

# 5.2.22 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 (consisting of MCC, MNC) or SNPN (consisting of MCC,
	MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].
	pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11}))?\$"

# 5.2.22.3 Resource Standard Methods

# 5.2.22.3.1 GET

This method shall support the URI query parameters specified in table 5.2.22.3.1-1.

Table 5.2.22.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	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
TraceDataOrSharedTraceDataId	M	1		Upon success, a response body containing the Trace Configuration Data or a shared trace data ID shall be returned.
NOTE: In addition common data st	truc	tures as listed	d 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	01	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	P	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 of	ommo	on data structur	es 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)	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 5.2.24.3.2-2 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		Upon success, a response body containing the AuthEvent shall be returned.		
NOTE: In addition						

# 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 codes	Description
n/a			204 No	Upon success, an empty response body shall be returned.
			Content	
NOTE: In addition of	ommo	on data structur	es 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 of	ommo	on data structur	es 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	Р	Cardinality	Response codes	Description		
AuthEvent	М	1	200 OK	Upon success, a response body containing the AuthEvent shall be returned.		
NOTE: In addition						

### 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	NOTE: In addition common data structures as listed in table 5.5-1 are supported.						

# 5.2.25 Resource: AuthenticationSoR

# 5.2.25.1 Description

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

#### 5.2.25.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/ue-update-confirmation-data/sor-data

This resource shall support the resource URI variables defined in table 5.2.25.2-1.

Table 5.2.25.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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	NOTE: In addition common data structures as listed in table 5.5-1 are supported.								

#### 5.2.25.3.2 GET

This method shall support the URI query parameters specified in table 5.2.25.3.2-1.

Table 5.2.25.3.2-1: URI query parameters supported by the GET method on this resource

Name	Data type	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	M	1	200 OK	Upon success, a response body containing the SorData shall be returned.				
NOTE: In addition c	NOTE: In addition common data structures as listed in table 5.5-1 are supported.							

#### 5.2.25.3.3 PATCH

This method is used to modify the "ME support of SOR-CMCI", "ME support of SOR-SNPN-SI" and "ME support of SOR-SNPN-SI-LS" stored in the UDR.

This method shall support the URI query parameters specified in table 5.2.25.3.3-1.

Table 5.2.25.3.3-1.: URI query parameters supported by the PATCH method on this resource

Name	Data type	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
			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 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	P	Cardinality	Response codes	Description				
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.							

#### 5.2.25A.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	NOTE: In addition common data structures as listed in table 5.5-1 are supported.						

#### 5.2.25B.3.2 GET

This method shall support the URI query parameters specified in table 5.2.25B.3.2-1.

Table 5.2.25B.3.2-1: URI query parameters supported by the GET method on this resource

Name	Data type	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 c	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
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]

#### 5.2.25C.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	NOTE: In addition common data structures as listed in table 5.5-1 are supported.							

#### 5.2.25C.3.2 GET

This method shall support the URI query parameters specified in table 5.2.25C.3.2-1.

Table 5.2.25C.3.2-1: URI query parameters supported by the GET method on this resource

Name	Data type	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

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

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 (consisting of MCC, MNC) or SNPN (consisting of MCC,
	MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].
	pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11}))?\$"

# 5.2.26.3 Resource Standard Methods

#### 5.2.26.3.1 GET

This method shall support the URI query parameters specified in table 5.2.26.3.1-1.

Table 5.2.26.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	Р	Cardinality	Description
dataset- names	array(ProvisionedDataSetName)	0	1N	If included, this IE shall contain the names of data sets to the retrieved. If not included, all provisioned data sets shall be returned.
adjacent- plmns	array(Plmnld)	0	1N	PLMN identities of PLMNs adjacent to the PLMN serving the UE. If present the GET response may contain adjacentPlmnRestrictions for the indicated PLMNs.  May be present if dataset-names contains Access And Mobility Subscription Data
single-nssai	Snssai	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.  May be present if dataset-names contains Session Management Subscription Data
dnn	Dnn	0	01	May be present if dataset-names contains Session Management Subscription Data
ext-group- ids	array(ExtGroupId)	0	1N	If included, this IE Contain a list of external VN group identifiers for which the profiles are retrieved. May be present if dataset-names contains Parameter Provisioning Profile Data
uc-purpose	UcPurpose	Ο	01	Represents the user consent purpose. pattern: See pattern of type UcPurpose in 3GPP TS 29.503 [6] May be present if dataset-names contains User Consent Data

NOTE: To retrieve data sets that are not specific to serving PLMNs (e.g., LCS\_PRIVACY, LCS\_MO, V2X, A2X, PROSE, ODB, EE\_PROF, PP\_PROF and NIDD\_AUTH), an NF service consumer should use UE Subscription Data Retrieve operation (see clause 5.2.47).

This method shall support the request data structures specified in table 5.2.26.3.1-2 and the response data structures and response codes specified in table 5.2.26.3.1-3.

Table 5.2.26.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	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 com	NOTE: In addition common data structures as listed in table 5.5-1 are supported.					

Table 5.2.26.3.1-4: Headers supported by the 200 response code on this resource

Name	Data type	Р	Cardinality	Description
3gpp-Sbi-Etags	string	0	01	See 3GPP TS 29.504 [2]

# 5.2.27 Resource: OperatorDeterminedBarringData

# 5.2.27.1 Description

This resource represents the subscribed OperatorDeterminedBarringData for a SUPI. It is queried by the UDM during registration.

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

# 5.2.27.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.27.2-1.

Table 5.2.27.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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	P	Cardinality	Description
n/a				

This method shall support the request data structures specified in table 5.2.27.3.1-2 and the response data structures and response codes specified in table 5.2.27.3.1-3.

Table 5.2.27.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	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		
OdbData	M	1	200 OK	Upon success, a response body containing the Operator		
				Determined Barring Data shall be returned.		
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.						

# 5.2.28 Resource: EeProfileData

# 5.2.28.1 Description

This resource represents a list of the Event Exposure Profile Data. It is queried by the UDM by either GPSI or SUPI.

# 5.2.28.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.28.2-1.

Table 5.2.28.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See clause 6.1.1
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	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 5.2.28.3.1-2 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 codes	Description		
EeProfileData	М	1		Upon success, a response body containing the Event Exposure Profile that corresponds to the provided ueld		
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.						

# 5.2.29 Resource: EeGroupSubscriptions

# 5.2.29.1 Description

This resource represents the collection of EE Subscriptions for a group of UEs or any UE (i.e. all UEs).

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

#### 5.2.29.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.29.2-1.

Table 5.2.29.2-1: Resource URI variables for this resource

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

#### 5.2.29.3 Resource Standard Methods

### 5.2.29.3.1 GET

This method shall support the URI query parameters specified in table 5.2.29.3.1-1.

Table 5.2.29.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	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 5.2.29.3.1-2 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	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, 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)	М	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	Description	
			codes		
array(SharedData)	М	0N	200 OK	Upon success, a response body containing a list of	
				SharedData shall be returned.	
NOTE: In addition common data structures as listed in table 5.5-1 are supported.					

# 5.2.30A Resource: IndividualSharedData

### 5.2.30A.1 Description

This resource represents the individual shared data.

# 5.2.30A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/shared-data/{sharedDataId}

This resource shall support the resource URI variables defined in table 5.2.30A.2-1.

Table 5.2.30A.2-1: Resource URI variables for this resource

Name	Definition					
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1					
sharedDataId	Contains the individual Shared Data Identifier.					

#### 5.2.30A.3 Resource Standard Methods

#### 5.2.30A.3.1 GET

This method shall support the URI query parameters specified in table 5.2.30A.3.1-1.

Table 5.2.30A.3.1-1: URI query parameters supported by the GET method on this resource

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

### 5.2.31.3.3 GET

This method shall support the URI query parameters specified in table 5.2.31.3.3-1.

Table 5.2.31.3.3-1: URI query parameters supported by the GET method on this resource

Name	Data type	Р	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)	M	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	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	  see 3GPP TS 29.500 [8] clause 6.6
features				See 3GFF 13 29.300 [0] Clause 0.0

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)	М	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 5.2.31 A.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.						

#### 5.2.31A.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.31A.3.2-1.

### Table 5.2.31 A.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:	NOTE: In addition, common data structures as listed in table 5.5-1 are supported.						

#### 5.2.31A.3.3 GET

This method shall support the URI query parameters specified in table 5.2.31A.3.3-1.

# Table 5.2.31A.3.3-1: URI query parameters supported by the GET method on this resource

Name	Data type	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 5.2.31 A.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,	com	nmon data struc	ctures as liste	d in table 5.5-1 are supported.

#### 5.2.31A.3.4 PATCH

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

This method shall support the URI query parameters specified in table 5.2.31A.3.4-1.

Table 5.2.31A.3.4-1: URI query parameters supported by the PATCH method on this resource

Name	Data type	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)	М	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	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.

# 5.2.31B 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	Upon success, an empty response body shall be returned.	
			Content		
HssSubscriptionInfo	M	1	201	Upon successful creation of this resource, a representation of	
			Created	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

D	ata 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.					

### 5.2.31B.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)	M	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 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.

### 5.2.32 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-	array(ContextDataSetName)	M		If included, this IE shall contain the names of context data sets to be retrieved.
names				uata 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 codes	Description		
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.						

Table 5.2.32.3.1-4: Headers supported by the 200 response code on this resource

Name	Data type	Ρ	Cardinality	Description
3gpp-Sbi-Etags	string	0	01	See 3GPP TS 29.504 [2]

# 5.2.33 Resource: GroupIdentifiers

## 5.2.33.1 Description

This resource represents the collection of data that can be shared by multiple UEs.

### 5.2.33.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.33.2-1.

Table 5.2.33.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1

### 5.2.33.3 Resource Standard Methods

### 5.2.33.3.1 GET

This method shall support the URI query parameters specified in table 5.2.33.3.1-1.

Table 5.2.33.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	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		01	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	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 5.2.34.3.1-2 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 codes	Description						
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	data									

# 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	201	Upon success, a representation of the created resource shall
			Created	be returned.
ProblemDetails	0	01	403	If the resource already exists, a response code of 403
			Forbidden	Forbidden shall be returned.
ProblemDetails	0	01		If the internal group identifier allocated by the UDM is not
				unique (i.e. already exists in a 5GVnGroup identified by a
				different external group ID) a response code of
				403 Forbidden shall be returned with application error
				INTERNAL_GROUP_ID_NOT_UNIQUE.
NOTE: In addition common	da	ta structures a	as listed in ta	ble 5.5-1 are supported.

NOTE: Creation of an Individual5GVnGroup has impacts to the UDR, to ensure consistency with other resources. These consistencies can be ensured by UDR-internal solutions.

After successful creation of an Individual5GVnGroup, representations of the resources

AccessAndMobilitySubscriptionData and SessionManagementSubscriptionData associated to group member UEs may be retrieved by UDR-consumers (see clause 5.2.3.3.1 and 5.2.5.3.1). It is expected that the retrieved AccessAndMobilitySubscriptionData and the retrieved

SessionManagementSubscriptionData contain group relevant information (e.g. the internal group id) of the Individual5GVnGroup the UE belongs to.

Similarly, the representation of the resource GroupIdentifiers may be retrieved by UDR consumers (see clause 5.2.33.3.1). It is expected that the retrieved GroupIdentifiers contain 5GVnGroup related information (e.g. external group Id, Internal Group Id, group member UEs) as part of the created 5GVnGroupConfiguration.

#### 5.2.35.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.35.3.2-1.

Table 5.2.35.3.2-1: URI query parameters supported by the DELETE method on this resource

Name	Data type	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 codes	Description
n/a			204 No	Upon success, an empty response body shall be returned.
			Content	
NOTE: In addition of	ommo	on data structur	es 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	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	404 Not	If the resource corresponding to the ExternalGroupId can't be
			Found	found, the "cause" attribute shall be set to:
				- GROUP_IDENTIFIER_NOT_FOUND
	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.

### 5.2.35.3.4 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	М	1		Upon success, a response body containing the group configuration of the individual 5G VN Group shall be returned.			
NOTE: In addition, com	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	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 5.2.36.3.1-2 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

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

# 5.2.37 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 codes	Description				
LcsMoData	M	1	200 OK	Upon success, a response body containing the LCS Mobile				
				Originated Subscription Data shall be returned.				
NOTE: In addition of	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

Data type	Р	Cardinality	Description
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	М	1	
MtcProviderInformation	М	1	
string	0	01	When present, indicates the string identifying the originating AF.
	Dnn MtcProviderInformation string	Snssai M  Dnn M  MtcProviderInformation M  string O	Snssai M 1  Dnn M 1  MtcProviderInformation M 1

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 codes	Description
AuthorizationData	М	1	200 OK	Upon success, a response body containing the NIDD 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
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 - SNNSAI_NOT_ALLOWED
NOTE: In addition,	comm	non data structu	res as listed i	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
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 5.2.39.3.1-2 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 codes	Description					
EnhancedCoverageRestrictionData	М	1		Upon success, a response body containing UE's subscribed enhanced Coverage Restriction Data.					
NOTE: In addition, common data	stru	ictures as liste	ed in table 5.						

# 5.2.40 Resource: Location

## 5.2.40.1 Description

This resource represents the UE's Location Information for UE's identity (e.g. SUPI or GPSI).

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

### 5.2.40.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.40.2-1.

Table 5.2.40.2-1: Resource URI variables for this resource

Name	Definition					
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1					
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	ı/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	М	1	200 OK	Upon success, a response body containing the LocationInfo		
				shall be returned.		
NOTE: In addition c	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 5.2.41 A.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 5.2.41A.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	Р	Cardinality	Response	Description
			codes	
ProseSubscriptionData	М	1		Upon success, a response body containing UE's subscribed ProSe Service Data.
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.				

# 5.2.42 Resource: LcsBroadcastAssistanceSubscriptionData

## 5.2.42.1 Description

This resource represents the subscribed LcsBroadcast Assistance Subscription Data for an UE for use in a serving PLMN. It is queried by the LMF via the UDM.

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

### 5.2.42.2 Resource Definition

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

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]
	Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?\$"

### 5.2.42.3 Resource Standard Methods

#### 5.2.42.3.1 GET

This method shall support the URI query parameters specified in table 5.2.42.3.1-1.

Table 5.2.42.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	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	Response codes	Description	
LcsBroadcastAssistanceT ypesData	М	1		Upon success, a response body containing the LCS Broadcast Assistance Data Subscription Data shall be returned.	
NOTE: In addition common data structures as listed in table 5.5-1 are supported.					

# 5.2.43 Resource: 5GVnGroupsInternal

# 5.2.43.1 Description

This resource represents a read-only view of the collection resource of 5G VN Group data, so it can be queried based on the Internal Group Id from NF Service Consumers having such Id as the only way to identify a group (e.g. PCF).

### 5.2.43.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/5g-vn-groups/internal

This resource shall support the resource URI variables defined in table 5.2.43.2-1.

Table 5.2.43.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1

### 5.2.43.3 Resource Standard Methods

### 5.2.43.3.1 GET

This method shall support the URI query parameters specified in table 5.2.43.3.1-1.

Table 5.2.43.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	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	Response codes	Description
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		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	Upon successful update of this resource, an empty response	
			Content	body shall be returned.	
NiddAuthorizationInfo	M	T = 1		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

- 1	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.							

### 5.2.45.3.3 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	М	1		Upon success, a response body containing NIDD	
				Authorization Info shall be returned.	
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.					

### 5.2.45.3.4 PATCH

This method is used to modify the NIDD active authorizations in the UDR.

This method shall support the URI query parameters specified in table 5.2.45.3.4-1.

Table 5.2.45.3.4-1: URI query parameters supported by the PATCH method on this resource

Name	Data type	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
			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.

# 5.2.46 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

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/\!< apiVersion > / subscription-data/\{ueld\}/5mbs-data/(ueld)/5mbs-data/(u$ 

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		Cardinality	Response	Description		
			codes			
MbsSubscriptionData	М	1	200 OK	Upon success, a response body containing the 5MBS		
				Subscription Data shall be returned.		
NOTE: In addition common data structures as listed in table 5.5-1 are supported.						

# 5.2.47 Resource: UeSubscriptionData

### 5.2.47.1 Description

This resource represents the subscription data for a UE ID.

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

### 5.2.47.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.47.2-1.

Table 5.2.47.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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 provisioned data sets of the UE subscription data sets.

When the NF service consumer (e.g. UDM) and the UDR both also support the UESubDataSetRetrieveExt feature (see clause 6.1.8 of 3GPP TS 29.504 [2]) in addition to the UESubDataSetRetrieve feature, then NF service consumer may send a GET method towards the UE subscription data resource URI (.../subscription-data/{ueId}) to retrieve the provisioned data sets and/or context data sets of the UE subscription data sets.

This method shall support the URI query parameters specified in table 5.2.47.3.1-1.

Table 5.2.47.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	Р	Cardinality	Description
dataset-	array(UeSubscribedDataSetName)	М	1N	This IE shall contain the names of data sets to
names				the retrieved.
serving-plmn	Plmnld	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
adjacent- plmns	array(PlmnId)	0	1N	PLMN identities of PLMNs adjacent to the PLMN serving the UE. If present the GET response may contain adjacentPlmnRestrictions for the indicated PLMNs.  May be present if dataset-names contains Access And Mobility Subscription Data
single-nssai	Snssai	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. May be present if dataset-names contains Session Management Subscription Data
dnn	Dnn	0	01	May be present if dataset-names contains Session Management Subscription Data
ext-group-ids	array(ExtGroupId)	0	1N	If included, this IE Contain a list of external VN group identifiers for which the profiles are retrieved.  May be present if dataset-names contains Parameter Provisioning Profile Data
uc-purpose	UcPurpose	Ο	01	Represents the user consent purpose. pattern: See pattern of type UcPurpose in 3GPP TS 29.503 [6] May be present if dataset-names contains User Consent Data

This method shall support the request data structures specified in table 5.2.47.3.1-2 and the response data structures and response codes specified in table 5.2.47.3.1-3.

Table 5.2.47.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	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	200 OK	Upon success, a response body containing the requested		
				data sets shall be returned.		
NOTE: In addition common data structures as listed in table 5.5-1 are supported.						

Table 5.2.47.3.1-4: Headers supported by the 200 response code on this resource

Name	Data type	Р	Cardinality	Description
3gpp-Sbi-Etags	string	0	01	See 3GPP TS 29.504 [2]

# 5.2.48 Resource: ServiceSpecificAuthorizationData

## 5.2.48.1 Description

This resource represents a GPSI's subscribed AuthorizationData for a specific service. It is queried by the UDM during Authorization Data Retrieval for a specific service and Service Specific Authorization Data Update Notification.

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

### 5.2.48.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.48.2-1.

Table 5.2.48.2-1: Resource URI variables for this resource

Name	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	Response	Description			
			codes				
n/a			204 No	Upon successful update of this resource, an empty			
			Content	response body shall be returned.			
ServiceSpecificAuthorizationInfo	М	1	201	Upon successful creation of this resource, a			
			Created	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 da	ata :	structures as	listed in table	e 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	М	1		Upon success, a response body containing the authorization info for the specific service shall be returned.					
NOTE: In addition, common da	ata s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							

#### 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	M	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	М	1		Upon success, a response body containing UE's subscribed User Consent Data.	
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.					

# 5.2.52 Resource: PeiInfo

### 5.2.52.1 Description

This resource is used to represent the PEI Update Information of the 5GC/EPC domains to be stored in the UDR by the UDM.

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

#### 5.2.52.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.52.2-1.

Table 5.2.52.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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	P	Cardinality	Description
n/a				

This method shall support the request data structures specified in table 5.2.52.3.1-2 and the response data structures and response codes specified in table 5.2.52.3.1-3.

Table 5.2.52.3.1-2: Data structures supported by the PUT Request Body on this resource

Data type	Р	Cardinality	Description
PeiUpdateInfo	M	1	The PEI Update Information.

The UDM shall create or update this resource when the PEI is received from the AMF (3gpp access or non-3gpp access) or from the HSS.

Table 5.2.52.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon success, an empty response body shall be returned
Dail Indatalata	N 4	4		Unan average a manager backy containing a manager station of
PeiUpdateInfo	M	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, 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	Description
			codes	
PeiUpdateInfo	М	1	200 OK	Upon success, a response body containing the PEI Update
				Information shall be returned.
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.				

# 5.2.53 Resource: TimeSyncSubscriptionData

### 5.2.53.1 Description

This resource represents the subscribed Time Synchronization Subscription Data for a UE. This data is queried from UDM.

### 5.2.53.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.53.2-1.

Table 5.2.53.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
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]

#### 5.2.53.3 Resource Standard Methods

#### 5.2.53.3.1 GET

This method shall support the URI query parameters specified in table 5.2.53.3.1-1.

Table 5.2.53.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	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 5.2.53.3.1-2 and the response data structures and response codes specified in table 5.2.53.3.1-3.

Table 5.2.53.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	Р	Cardinality	Description
n/a			

Table 5.2.53.3.1-3: Data structures supported by the POST Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
TimeSyncSubscriptionData	M	1		Upon success, a response body containing the Time Synchronization Subscription Data shall be returned.		
NOTE: In addition common data structures as listed in table 5.5-1 are supported.						

# 5.2.54 Resource: 5GMbsGroup

## 5.2.54.1 Description

This resource represents the store of 5G MBS Group data.

### 5.2.54.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/mbs-group-membership

This resource shall support the resource URI variables defined in table 5.2.54.2-1.

Table 5.2.54.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1

#### 5.2.54.3 Resource Standard Methods

## 5.2.54.3.1 GET

This method shall support the URI query parameters specified in table 5.2.54.3.1-1.

Table 5.2.54.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	Р	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 5.2.54.3.1-2 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 typ	e	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).			
OTE: In addition, common data structures as listed in table 5.5-1 are supported.							

# 5.2.55 Resource: Individual5GmbsGroup

## 5.2.55.1 Description

This resource represents an individual 5G MBS Group.

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

## 5.2.55.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.55.2-1.

Table 5.2.55.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
externalGroupId	Represents the External Identifier of the group

#### 5.2.55.3 Resource Standard Methods

#### 5.2.55.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.55.3.1-1.

Table 5.2.55.3.1-1: URI query parameters supported by the PUT method on this resource

Name	Data type	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	M	1		Upon success, a representation of the created resource shall be returned.	
ProblemDetails	0	01		If the resource already exists, a response code of 403 Forbidden shall be returned.	
NOTE: In addition common data structures as listed in table 5.5-1 are supported.					

#### 5.2.55.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.55.3.2-1.

Table 5.2.55.3.2-1: URI query parameters supported by the DELETE method on this resource

Name	Data type	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 5.2.55.3.2-3.

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	Р	Cardinality	Response codes	Description				
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.							

#### 5.2.55.3.3 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	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	404 Not	If the resource corresponding to the ExternalGroupId can't be
			Found	found, the "cause" attribute shall be set to:
				- GROUP_IDENTIFIER_NOT_FOUND
	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.

#### 5.2.55.3.4 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	М	1		Upon success, a response body containing the group configuration of the individual 5G MBS Group shall be returned.		
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.						

## 5.2.56 Resource: 5GMbsGroupsInternal

#### 5.2.56.1 Description

This resource represents a read-only view of the collection resource of 5G MBS Group data, so it can be queried based on the Internal Group Id from NF Service Consumers having such Id as the only way to identify a group (e.g. PCF).

#### 5.2.56.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/mbs-group-membership/internal

This resource shall support the resource URI variables defined in table 5.2.56.2-1.

Table 5.2.56.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1

#### 5.2.56.3 Resource Standard Methods

#### 5.2.56.3.1 GET

This method shall support the URI query parameters specified in table 5.2.56.3.1-1.

Table 5.2.56.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	Р	Cardinality	Description
internal-group-	array(GroupId)	M	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	Description
			codes	
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 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	Ք	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	M	1		Upon success, a response body containing the Parameter Provision Profile for 5G MBS Groups.	
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.					

## 5.2.58 Resource: UeUpdateConfirmation

### 5.2.58.1 Description

This resource represents the complete UE Update Confirmation Information.

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

## 5.2.58.2 Resource Definition

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/\!< apiVersion > / subscription-data/\{ueId\}/ue-update-confirmation-data/ue-update-confirmation-data/ue-update-conf$ 

This resource shall support the resource URI variables defined in table 5.2.58.2-1.

Table 5.2.58.2-1: Resource URI variables for this resource

Name	Definition						
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1						
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]						

#### 5.2.58.3 Resource Standard Methods

#### 5.2.58.3.1 GET

This method shall support the URI query parameters specified in table 5.2.58.3.1-1.

Table 5.2.58.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	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 5.2.58.3.1-2 and the response data structures and response codes specified in table 5.2.58.3.1-3.

Table 5.2.58.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	Р	Cardinality	Description
n/a			

Table 5.2.58.3.1-3: Data structures supported by the GET Response Body on this resource

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

## 5.2.59 Resource: LcsSubscriptionData

### 5.2.59.1 Description

This resource represents the subscribed LcsSubscriptionData for a SUPI. It is queried by the AMF or H-GMLC via the UDM after registering.

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

#### 5.2.59.2 Resource Definition

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/< apiVersion>/subscription-data/\{ueId\}/lcs-susbscription-data/(ueId)/lcs-susbscription-dat$ 

This resource shall support the resource URI variables defined in table 5.2.59.2-1.

Table 5.2.59.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)

#### 5.2.59.3 Resource Standard Methods

#### 5.2.59.3.1 GET

This method shall support the URI query parameters specified in table 5.2.59.3.1-1.

Table 5.2.59.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type	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 5.2.59.3.1-2 and the response data structures and response codes specified in table 5.2.59.3.1-3.

Table 5.2.59.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	Р	Cardinality	Description
n/a			

Table 5.2.59.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
LcsSubscriptionData	М	1		Upon success, a response body containing the LCS Mobile Originated Subscription Data shall be returned.		
NOTE: In addition com	NOTE: In addition common data structures as listed in table 5.5-1 are supported.					

# 5.2.60 Resource: RangingSIPosSubscriptionData

## 5.2.60.1 Description

This resource represents UE's subscribed Ranging and Sidelink Positioning Service Data for a UE identifier. It is queried by the UDM during Ranging and Sidelink Positioning Subscription Data Data Retrieval.

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

#### 5.2.60.2 Resource Definition

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/< apiVersion>/subscription-data/\{ueId\}/ranging-slpos-data/(ueId)/ranging-slpos-data/(u$ 

This resource shall support the resource URI variables defined in table 5.2.60.2-1.

Table 5.2.60.2-1: Resource URI variables for this resource

Name	Definition
apiRoot	See 3GPP TS 29.504 [2] clause 6.1.1
ueld	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]

#### 5.2.60.3 Resource Standard Methods

## 5.2.60.3.1 GET

This method shall support the URI query parameters specified in table 5.2.60.3.1-1.

Table 5.2.60.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type		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 5.2.60.3.1-2 and the response data structures and response codes specified in table 5.2.60.3.1-3.

Table 5.2.60.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	Р	Cardinality	Description
n/a			

Table 5.2.60.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description			
RangingSIPosSubscriptionData	М	1		Upon success, a response body containing UE's subscribed Ranging and Sidelink Positioning Service Data.			
NOTE: In addition, common data structures as listed in table 5.5-1 are supported.							

## 5.2.61 Resource: A2xSubscriptionData

## 5.2.61.1 Description

This resource represents UE's subscribed A2X Data for a UE identifier. It is queried by the UDM during A2X Subscription Data Retrieval.

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

#### 5.2.61.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/a2x-data

This resource shall support the resource URI variables defined in table 5.2.61.2-1.

Table 5.2.61.2-1: Resource URI variables for this resource

Definition
ee 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]
3

## 5.2.61.3 Resource Standard Methods

#### 5.2.61.3.1 GET

This method shall support the URI query parameters specified in table 5.2.61.3.1-1.

Table 5.2.61.3.1-1: URI query parameters supported by the GET method on this resource

Name	Data type		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 5.2.61.3.1-2 and the response data structures and response codes specified in table 5.2.61.3.1-3.

Table 5.2.61.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	Р	Cardinality	Description
n/a			

Table 5.2.61.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description			
A2xSubscriptionData	М	1		Upon success, a response body containing UE's subscribed A2X Data.			
NOTE: In addition,	1 1 1 1 2 1 1 2 1 1 2 1						

## 5.2.62 Resource: RangingSIPrivacySubscriptionData

#### 5.2.62.1 Description

This resource represents the subscribed RangingSlPrivacySubscriptionData 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]).

#### 5.2.62.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.62.2-1.

Table 5.2.62.2-1: 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].

### 5.2.62.3 Resource Standard Methods

#### 5.2.62.3.1 GET

This method shall support the URI query parameters specified in table 5.2.62.3.1-1.

Table 5.2.62.3.1-1: 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 5.2.62.3.1-2 and the response data structures and response codes specified in table 5.2.62.3.1-3.

Table 5.2.62.3.1-2: Data structures supported by the GET Request Body on this resource

Data type	Р	Cardinality	Description
n/a			

Table 5.2.62.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
RangingSIPrivacyData	М	1		Upon success, a response body containing the Rangingsl Privacy Subscription Data shall be returned.
NOTE: In addition, comr	non	data structure:	s as listed in	table 5.5-1 are supported.

## 5.3 Notifications

### 5.3.1 General

This clause describes the resources to provide Notification to NF service consumers which have explicitly or implicitly subscribed to UDR to be notified when data is changed or removed, or when a stale check shall be triggered.

# 5.3.2 Data Change Notification

The POST method shall be used for Data Change Notifications.

- For explicit subscriptions (i.e., subscriptions created under the "subs-to-notif" collection resource, the URI shall be as provided during the subscription procedure;
- For implicit subscriptions, the UDR shall use either a locally configured callback URI of the UDM, or the UDR may retrieve from NRF a default notification URI stored by UDM in NRF during the NF registration procedure.
- If the UDM uses implicit subscriptions to receive notifications from UDR, the UDM shall register in NRF a default notification URI globally at NF Profile level (see 3GPP TS 29.510 [19], clause 6.1.6.2.2), rather than registering individual default notification URIs per NF Service.

The "callback" clause of the OpenAPI specification found in Annex A.2 associated to the POST method of the "subs-to-notif" resource shall be used as the notification request for both explicit and implicit subscriptions.

NOTE: For explicit subscriptions, a stateless UDM/NF provides a URI which identifies a set of UDMs/NFs; a stateful UDM/NF provides a specific URI identifying a node.

Resource URI: {callbackReference}

Support of URI query parameters is specified in table 5.3.2-1.

Table 5.3.2-1: URI query parameters supported by the POST method

Name	Data type	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			204 No	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 (Store)	SmfRegList	The complete replacement array representation of the SmfRegList shall be included in the DataChangeNotify.
ProvisionedParameterDataEntries (Store)	PpDataEntryList	The complete replacement array representation of the PpDataEntryList shall be included in the DataChangeNotify.
SubscriptionDataSubscriptions (Collection)	array(SubscriptionDataSubscriptions)	The complete replacement array representation of the SubscriptionDataSubscriptions shall be included in the DataChangeNotify.
5GVnGroups (Store)	map(5GVnGroupConfiguration)	The complete map respresenation shall be included in the DataChangeNotify.

#### 5.3.3 Data Removal Notification

The POST method shall be used for Data Removal Notifications.

Data Removal Notifications are used for subscription withdraw cases implicitly subscribed by the UDM.

- The UDR shall use either a locally configured callback URI of the UDM, or the UDR may retrieve from NRF a default notification URI stored by UDM in NRF during the NF registration procedure.
- The UDM should register in NRF a default notification URI globally at NF Profile level, rather than registering individual default notification URIs per NF Service.

The "callback" clause of the OpenAPI specification found in Annex A.2 associated to the POST method of the "subs-to-notif" resource shall be used as the notification request.

Resource URI: {callbackReference}

Support of URI query parameters is specified in table 5.3.3-1.

Table 5.3.3-1: URI query parameters supported by the POST method

Name	Data type	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	М	1	notifyItems within the DataChangeNotify type shall indicate deletion of
			the resources Amf3GppAccessRegistration and/or
			AmfNon3GppAccessRegistration

Table 5.3.3-3: Data structures supported by the POST Response Body

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

#### 5.3.4 Stale Check Notification

The POST method shall be used for Stale Check Notifications.

Stale Check Notifications are used if one or several IndividualSmfRegistration resources for a given UeId are assumed/suspected to be stale e.g. due to a lost deregistration and are implicitly subscribed by the UDM.

The UDR may use an internal, e.g. time based mechanism to determine when and whether a given IndividualSmfRegistration is assumed/suspected to be stale.

Resource URI: {udmStaleCheckCallbackUri}

Support of URI query parameters is specified in table 5.3.4-1.

Table 5.3.4-1: URI query parameters supported by the POST method

Name	Data type	Р	Cardinality	Description
n/a				

Support of request data structures is specified in table 5.3.4-2 and of response data structures and response codes is specified in table 5.3.4-3.

Table 5.3.4-2: Data structures supported by the POST Request Body

Data type	Р	Cardinality	Description
SmfRegistrationInfo	М	1	Contains a list of SMF registrations that are assumed to be stale

Table5.3.4-3: Data structures supported by the POST Response Body

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

# 5.4 Data Model

# 5.4.1 General

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

Table 5.4.1-1 specifies the data types defined for the Nudr service based interface protocol.

Table 5.4.1-1: Nudr Subscriber Data specific Data Types

Data type	Clause defined	Description
AuthenticationSubscription	5.4.2.2	A UE's authentication data
OperatorSpecificDataContainer	5.4.2.3	Container for operator specific data
SmfRegList	5.4.2.4	The list of all the SMF registrations of a UE
SubscriptionDataSubscriptions	5.4.2.5	A subscription to notifications.
DataChangeNotify	5.4.2.6	Container for data which have changed and notification
		was requested when changed.
IdentityData	5.4.2.7	Identity data corresponds to the provided 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 active subscriptions at the AMF(s)
EeProfileData	5.4.2.20	Event Exposure Profile Data
ContextDataSets	5.4.2.22	Contains the context data sets
SequenceNumber	5.4.2.23	Contains the SQN
MessageWaitingData	5.4.2.24	Message Waiting Data list
SmscData	5.4.2.25	Addresses of SM-Service Center entities with SMS
		waiting to be delivered to the UE
SmfSubscriptionInfo	5.4.2.26	Information the UDR stores and retrieves related to
2 (2 )	E 4 0 0 =	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
Service openies terricinate in the	0.1.2.10	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
ImmediateReport	5.4.2.44	Immediate Report
Pp5gMbsGroupProfileData	5.4.2.45	The Parameter Provision Profile Data for 5G MBS groups
AllowedMbsInfo	5.4.2.46	Allowed AFs Information to provision parameters for UE.
UeUpdConfData	5.4.2.47	UE Update Confirmation Data
AdditionalDataRef	5.4.2.48	Additional Data Reference
VarPlmnId	5.4.3.2	String identifying a PLMN ID or an SNPN ID.
AuthMethod	5.4.3.3	Contains the Authentication Method
ProvisionedDataSetName	5.4.3.4	The name of data set
ContextDataSetName	5.4.3.6	The name of context data set
SqnScheme	5.4.3.7	Scheme for generation of Sequence Numbers
Sign	5.4.3.8	Sign of the DIF value
UeUpdateStatus	5.4.3.9	Status of the procedure
PpDataType	5.4.3.10	The data type of the Provisioned Parameters
UeSubscribedDataSetName	5.4.3.11	The name of subscribed data set

Table 5.4.1-2 specifies data types re-used by the Nudr service based interface protocol from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Nudr service based interface.

Table 5.4.1-2: Nudr re-used Data Types

Data type	Reference	Comments
AccessAndMobilitySubscriptionData	3GPP TS 29.503 [6]	Access and Mobility Subscription
		Data
SmfSelectionSubscriptionData	3GPP TS 29.503 [6]	SMF Selection Subscription Data
SmSubsData	3GPP TS 29.503 [6]	Session Management Subscription
		Data
Amf3GppAccessRegistration	3GPP TS 29.503 [6]	The complete set of information
, man of the second sec	[0]	relevant to the AMF where the UE
		has registered via 3GPP access.
AmfNon3GppAccessRegistration	3GPP TS 29.503 [6]	The complete set of information
		relevant to the AMF where the UE
		has registered via non 3GPP
		access.
SmfRegistration	3GPP TS 29.503 [6]	The complete set of information
		relevant to an SMF serving the UE
SmsfRegistration	3GPP TS 29.503 [6]	The complete set of information
_		relevant to the SMSF serving the
		UE.
SmsManagementSubscriptionData	3GPP TS 29.503 [6]	SMS Management Subscription
		Data
SupportedFeatures	3GPP TS 29.571 [3]	Used to negotiate the applicability of
		the optional features
ProblemDetails	3GPP TS 29.571 [3]	Detailed information about the status
		code.
PpData	3GPP TS 29.503 [6]	Parameter Provision Data
PpDataEntry	3GPP TS 29.503 [6]	Provisioned Parameter Data Entry
SmsSubscriptionData	3GPP TS 29.503 [6]	SMS Subscription Data
PatchItem	3GPP TS 29.571 [3]	Data structure used for JSON patch.
SdmSubscription	3GPP TS 29.503 [6]	A subscription to notifications
EeSubscription	3GPP TS 29.503 [6]	A subscription to Notifications of
	[0]	event exposure
Uri	3GPP TS 29.571 [3]	URI
TraceData	3GPP TS 29.571 [3]	Trace Data
Dnn	3GPP TS 29.571 [3]	Data Network Name
Snssai	3GPP TS 29.571 [3]	Single NSSAI
VarUeld	3GPP TS 29.571 [3]	String represents the SUPI or GPSI.
		Jaming represente une een van en en
NfInstanceId	3GPP TS 29.571 [3]	NF Instance Identifier
NotifyItem	3GPP TS 29.571 [3]	Common data type used for data
,	[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
	0011 10 20:011 [0]	PDU session
DateTime	3GPP TS 29.571 [3]	Date Time
UpuMac	3GPP TS 29.509 [15]	MAC value for protecting UPU
Opamao	0011 10 20:000 [10]	procedure (UPU-MAC-I <sub>AUSF</sub> and
		UPU-MAC-I <sub>UE</sub> )
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
200054.44	[0]	Data
MtcProviderInformation	3GPP TS 29.571 [3]	An ID uniquely identifying MTC
The Toridonnionnation	33.1 10 20.07 1 [0]	provider information
EnhancedCoverageRestrictionData	3GPP TS 29.503 [6]	Enhanced Coverage Restriction
anodovoragortostriotionData	20.000 [0]	Data
LocationInfo	3GPP TS 29.503 [6]	Location Information
V2xSubscriptionData	3GPP TS 29.503 [6]	V2X Subscription Data
E164Number	3GPP TS 29.503 [6]	E164Number
NetworkNodeDiameterAddress	3GPP TS 29.503 [6]	Diameter Address of an Network
IncrwolkinodeDigitietelAddle52	JUSTE 10 28.003 [0]	Node
		INOUG

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
SharedData	3GPP TS 29.503 [6]	Shared Data
TimeSyncSubscriptionData	3GPP TS 29.503 [6]	Contains Time Synchronization Subscription Data
LcsSubscriptionData	3GPP TS 29.503 [6]	UE's other LCS Subscription Data
RangingSIPosSubscriptionData	3GPP TS 29.503 [6]	Ranging and Sidelink Positioning Service Subscription Data
SmfRegistrationInfo	3GPP TS 29.503 [6]	SMF Registration Information
A2xSubscriptionData	3GPP TS 29.503 [6]	A2X Subscription Data
RangingSIPrivacyData	3GPP TS 29.503 [6]	Ranging and Sidelink Positioning Privacy Subscription Data

# 5.4.2 Structured data types

## 5.4.2.1 Introduction

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

5.4.2.2 Type: AuthenticationSubscription

Table 5.4.2.2-1: Definition of type AuthenticationSubscription

Attribute name	Data type	Р	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.
				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
				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
				generation is to be done in the HSS.
sequenceNumber	SequenceNumbe	С	01	String containing the SQN as defined in
	r			3GPP TS 33.102 [10]. It shall be present if the authentication method is
				"5G_AKA" or "EAP_AKA_PRIME" unless vector
				generation is to be done in the HSS.
authenticationManagem	string	С	01	Hexstring containing the Authentication management
entField				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.
algorithmld	string	С	01	Pattern: '^[A-Fa-f0-9]{4}\$' Identifies a parameter set securely stored in the
algontillina	Stillig	~	01	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
On - 1/	a Anti-a au		0.4	generation is to be done in the HSS.
encOpcKey	string	0	01	Hexstring of the encrypted OPC Key. Presence indicates that the provided value
				(decrypted) shall be used instead of the value
				derived from OP and K.
encTopcKey	string	0	01	Hexstring of the encrypted TOPC Key. Presence indicates that the provided value
				(decrypted) shall be used instead of the value
				derived from TOP and K.
hssGroupId	NfGroupId	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
Vocioi Generationini 133	Doologii		01	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
nogodeviceAuthivieti100	Additiviedio		01	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
, g, tatriornioationina			J 1	network is not required if authentication has been
				completed by the W-5GAN. See 3GPP TS 33.501 [9]
				clause 7b.
	1	1	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).
nswoAllowed	boolean	O 01	This IE indicates whether or not the subscriber is allowed to use the NSWO service (see 3GPP TS 33.501 [9] clause S.3.2): - true: subscriber is allowed to use NSWO absent or false: subscriber is not allowed to use NSWO.
5gKeyHierarSupp	boolean	O 01	This IE indicates whether the user device (e.g AUN3 devices) supports 5G key hierarchy: - true or absent: the user device supports 5G key hierarchy - false: the user device does not support 5G key hierarchy
	e n5gcDeviceAuth 3.501 [9] and is no		for EAP-TLS, which is described in the informative annex O of 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	
dataTypeDefinition	string	0	01	If present, this attribute is applicable when
l				"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	С	01	Indicates the list of negotiated supported features.
	es			This parameter shall be supplied by the UDR in the
				response to the GET request when the GET request
				includes the "supported-features" query parameter
				and the UDR supports feature negotiation for the
				OperatorSpecificData resource defined in this
				specification and in 3GPP TS 29.519 [17].
resetIds	array(string)	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:

```
"dataType": "object",
"value": {
   "operatorData1": "foo",
   "operatorData2": 123,
   "operatorData3": false
},
```

```
"dataTypeDefinition": "https://operator.com/definitions.json#/OpSpecificDataType"
 And where the file "/definitions.json" contains a fragment as follows:
"OpSpecificDataType": {
  "type": "object",
"properties": {
    "operatorDatal": {
      "type": "string"
    "operatorData2": {
      "type": "integer"
     "operatorData3": {
      "type": "boolean"
}
 EXAMPLE 2: A JSON object of type "OperatorSpecificDataContainer" can be as follows:
"dataType": "array",
"value": [ "foo", "bar" ],
"dataTypeDefinition": "https://operator.com/definitions.json#/OpSpecificDataType2"
 And where the file "/definitions.json" contains a fragment as follows:
"OpSpecificDataType2": {
  "type": "array",
  "items": {
  "type": "string",
    "minLength": 3
  "minItems": 1
}
```

## 5.4.2.4 Type: SmfRegList

Table 5.4.2.4-1: Definition of type SmfRegList

Attribute name	Data type	Р	Cardinality	Description
N/A	array(SmfRegistr	М	0N	Each member of the array (if any) is an individual
	ation)			SMF registration of the UE.
				An empty array indicates absence of any
				SmfRegistration.

5.4.2.5 Type: SubscriptionDataSubscriptions

Table 5.4.2.5-1: Definition of type SubscriptionDataSubscriptions

Attribute name	Data type	Р	Cardinality	Description	Applicability
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)	M	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]. The URI shall not contain query parameters. 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	
immediateReport	boolean	0	01	This IE indicates whether immediate report is requested or not.  When present, this IE shall be set as following:	ImmediateReport
				- true: immediate report is required - false (default) immediate report is not required	
report	ImmediateReport	С	01	This IE shall be present in Subscribe response, if the immediateReport attribute is set to "true" in Subscribe request.	ImmediateReport
				When present, this IE shall contain the representation of subscription data sets that need to be monitored, i.e. listed in monitoredResourceUris attribute.	
additionalDataRefs	array(AdditionalD ataRef)	0	1N	A list of URIs (associated to monitoredResourceURIs) identifying resources in the UDR. The representations of these resources may be included in the notification request as additionalData, when the notification for the associated monitoredResourceURI is sent.	
NOTE 1: The UDR sho	ould handle only the re	elativ	e-path part (ar	oiSpecificResourceUriPart, see 3GPP TS 2	9.501 [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.

NOTE: Consumers can choose not to request an Immediate Report when subscribing to large collection resources to avoid potential too long response messages.

# 5.4.2.6 Type: DataChangeNotify

Table 5.4.2.6-1: Definition of type DataChangeNotify

Attribute name	Data type	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	С	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)	С	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.
additionalData	map(Any Type)	0	1N	A map of additional data (list of key-value pairs where the data's resource URI serves as key).

## 5.4.2.7 Type: IdentityData

Table 5.4.2.7-1: Definition of type IdentityData

Attribute name	Data type	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. (NOTE 1, NOTE 2)
				To construct the key of the map, the AppPortId data
				structure shall be formatted as a string following the
				rules described in 3GPP TS 29.503 [6],
	(0 ")			clause 6.1.6.2.41.
afIdGpsis	map(Gpsi)	0	1N	A map (list of key-value pairs where AF ID serves as
				key) of GPSIs. (NOTE 2)
				Con "of id" in 2CDD TC 20 E02 [6]
				See "af-id" in 3GPP TS 29.503 [6], Table 6.1.3.12.3.1-1.
mtoDrovidorCnoio	man(Cnai)	0	1N	
mtcProviderGpsis	map(Gpsi)		11N	A map (list of key-value pairs where MTC Provider
				Information serves as key) of GPSIs. (NOTE 2)
				See "mtc-provider-info" in 3GPP TS 29.503 [6],
				Table 6.1.3.12.3.1-1)
	I	1	1	Table 0.1.3.12.3.1-1)

NOTE 1: When the UDR receives app-port-id (as query parameter), the applicationPortIds attribute shall convey the GPSI matching the received app-port-id, if available. The rest of attributes within the IdentityData (e.g. gpsiList, afIdGpsis or mtcPrividerGpsis) shall also be included, if available.

NOTE 2: The GPSI associated to each AppPortId, AF ID or MTC Provider Information within the map of Gpsis of applicationPortIds, afIdGpsis or mtcProviderGpsis attributes may take the form of a MSISDN or an external identifier; for those attributes, the association by the operator of a GPSI in MSISDN form shall be in accordance to operator policy, local regulation and user consent.

# 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
IcsSubscriptionData	LcsSubscriptionData	0	01	Other LCS 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
ucData	UcSubscriptionData	0	01	User Consent Data
mbsSubscriptionData	MbsSubscriptionData	0	01	5MBS Subscription Data
ppData	PpData	0	01	Parameter Provisioning Data
a2xData	A2xSubscriptionData	0	01	A2X Subscription Data
rangingSIPrivacyData	RangingSIPrivacyData	0	01	Ranging and Sidelink Positioning Privacy
				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
meSupportOfSorSnpnSi	boolean	С	01	When present, it indicates "ME support of SOR-SNPN-SI" as defined in Clause C.5 of 3GPP TS 23.122 [14].  - true: ME supports SOR-SNPN-SI.  - false or absent: ME does not support SOR-SNPN-SI.
meSupportOfSorSnpnSi Ls	boolean	С	01	When present, it indicates "ME support of SOR-SNPN-SI-LS" as defined in Clause C.5 of 3GPP TS 23.122 [14].  - true: ME supports SOR-SNPN-SI-LS.  - false or absent: ME does not support SOR-SNPN-SI-LS.

5.4.2.9A Type: UpuData

Table 5.4.2.9A-1: Definition of type UpuData

Attribute name	Data type	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	M	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	M	1	InstanceId of the AMF to which the subscription was
				sent
subscriptionId	Uri	M	1	The Subscription Id allocated by the AMF as
				received by the UDM in the HTTP "Location" header
				of the Namf_EventExposure_Subscribe response
subsChangeNotifyCorre	string	0	1	The Correlation Id allocated by the UDM and sent to
lationId				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	<b>IpSmGwRegistration</b>	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	Р	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	С	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)	C	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" (Authentication Server Function) - "vlr" (Visitor Location Register) - "sgsn" (Serving GPRS Support Node) - "s-cscf" (Serving Call Server Control Function) - "bsf" (GBA Bootstrapping Server Function) - "gan-aaa-server" (Generic Access Network AAA Server) - "wlan-aaa-server" (Wireless Local Area Network AAA Server) - "mme" (Mobility Management Entity)  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	1N	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.		
smscDiameterAddress	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	M	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(Userldentifi	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 nInfo)	М	1N	List of NiddAuthorizationInfo items

## 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 as a list of "to be combined data types"

Data type	Cardinality	Description	Applicability
ProvisionedDataSets	01	See clause 5.4.2.8	
ContextDataSets	01	See clause 5.4.2.22	UESubDataSetExt
UeUpdConfData	01	See clause 5.4.2.47	

#### 5.4.2.40 Type: ServiceSpecificAuthorizationInfo

Table 5.4.2.40-1: Definition of type ServiceSpecificAuthorizationInfo

Attribute name	Data type	Р	Cardinality	Description
serviceSpecificAuthoriz	map(Authorizatio	М	1N	A map (list of key-value pairs where authId (see
ationList	nInfo)			3GPP TS 29.503 [6]) serves as key) of
				AuthorizationInfo items

#### 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	-	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 Type: ImmediateReport

Table 5.4.2.44-1: Definition of type ImmediateReport as a list of alternatives

Data type	Cardinality	Description	Applicability
ProvisionedDataSets	1	UE based provisioned data sets.	
array(SharedData)	1N	Shared subscription data sets that need to be monitored in	
		SubscriptionDataSubscription.	

## 5.4.2.47 Type: UeUpdConfData

Table 5.4.2.47-1: Definition of type UeUpdConfData

Attribute name	Data type	Р	Cardinality	Description	Applicability
sorData	SorData	0	01	UE Update Confirmation Data for SOR	
upuData	UpuData	0	01	UE Update Confirmation Data for UPU	
nssaiAckData	NssaiAckData	0	01	UE Update Confirmation Data for NSSAI	
cagAckData	CagAckData	0	01	UE Update Confirmation Data for CAG	

## 5.4.2.48 Type: AdditionalDataRef

Table 5.4.2.48-1: Definition of type AdditionalDataRef

Attribute name	Data type	Р	Cardinality	Description	Applicability
monitoredResourceUris	array(Uri)	Μ	1N	List of monitored resource URIs	
additionalDataUris	array(Uri)	M		List of URIs identifying resources, representations of which are requested to be included in notification messages sent when one of the	
				monitoredResource's representation is modified.	

## 5.4.3 Simple data types and enumerations

#### 5.4.3.1 Introduction

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

#### 5.4.3.2 Simple data types

The simple data types defined in table 5.4.3.2-1 shall be supported.

Table 5.4.3.2-1: Simple data types

Type Name	Type Definition	Description
VarUeGroupId	string	String identifying an external Group of UEs or any UE.
		Pattern: '^(extgroupid-[^@]+@[^@]+ anyUE)\$'
VarPlmnId	string	String identifying a PLMN ID or an SNPN ID.
		Pattern: '^[0-9]{5,6}(-[A-Fa-f0-9]{11})?\$'

#### 5.4.3.3 Enumeration: AuthMethod

Table 5.4.3.3-1: Enumeration AuthMethod

Enumeration value	Description
"5G_AKA"	5G AKA
"EAP_AKA_PRIME"	EAP AKA'
"EAP-TLS"	EAP TLS
"EAP_TTLS"	EAP TTLS
"NONE"	No specific EAP method type is signalled.

#### 5.4.3.4 Enumeration: ProvisionedDataSetName

Table 5.4.3.4-1: Enumeration ProvisionedDataSetName

Enumeration value	Description
"AM"	Access and Mobility Subscription Data
"SMF_SEL"	SMF Selection Subscription Data
"SMS_SUB"	SMS Subscription Data
"SM"	Session Management Subscription Data
"TRACE"	Trace Data
"SMS_MNG"	SMS Management Subscription Data
"LCS_PRIVACY"	LCS Privacy Subscription Data
"LCS_MO"	LCS Mobile Originated Subscription Data
"LCS_BCA"	LCS Broadcast Assistance Subscription Data
"LCS_SUB"	LCS Subscription Data
"V2X"	V2X Subscription Data
"PROSE"	ProSe service Subscription Data
"ODB"	Operator Determined Barring Subscription Data
"EE_PROF"	Event Exposure Profile Data
"PP_PROF"	Parameter Provisioning Profile Data
"NIDD_AUTH"	NIDD Authorization Data
"USER_CONSENT"	User Consent Data
"MBS"	5MBS Subscription Data
"PP_DATA"	Parameter Provisioning Data
"A2X"	A2X Subscription Data
"RANGINGSL_PRIVACY"	Ranging and Sidelink Positioning Privacy Subscription Data

#### 5.4.3.5 Void

#### 5.4.3.6 Enumeration: ContextDataSetName

Table 5.4.3.6-1: Enumeration ContextDataSetName

Enumeration value	Description
"AMF_3GPP"	AMF 3GPP Access Registration
"AMF_NON_3GPP"	SMF Non 3GPP Access Registration
"SDM SUBSCRIPTIONS"	SDM Subscriptions
"EE_SUBSCRIPTIONS"	EE Subscriptions
"SMSF_3GPP"	SMSF 3GPP Access Registration
"SMSF_NON_3GPP"	SMSF Non 3GPP Access Registration
"SUBS_TO_NOTIFY"	UDR Subscriptions
"SMF_REG"	SMF Registrations
"IP_SM_GW"	IP-SM-GW Registration
"ROAMING_INFO"	Roaming Information
"PEI_INFO"	PEI information

## 5.4.3.7 Enumeration: SqnScheme

Table 5.4.3.7-1: Enumeration SqnScheme

Enumeration value	Description	
"GENERAL"	Scheme for generation of Sequence Numbers (partially time-based), as described in 3GPP TS 33.102 [10], clause C.1.1.1	
"NON_TIME_BASED"	Scheme for generation of Sequence Numbers (non-time-based), as described in 3GPP TS 33.102 [10], clause C.1.1.2	
"TIME_BASED"	Scheme for generation of Sequence Numbers (entirely time-based), as described in 3GPP TS 33.102 [10], clause C.1.1.3	
NOTE: These schemes for Sequence Number generation are documented in an informative Annex in 3GPP TS 33.102 [10]; having these different schemes listed in this Enumeration type does not imply that UDM implementations are required to support all of them; the Sequence Number generation schemes that need to be supported by UDM is deployment-specific.		

## 5.4.3.8 Enumeration: Sign

Table 5.4.3.8-1: Enumeration Sign

Enumeration value	Description
"POSITIVE"	
"NEGATIVE"	

## 5.4.3.9 Enumeration: UeUpdateStatus

Table 5.4.3.9-1: Enumeration UeUpdateStatus

Enumeration value	Description
"NOT_SENT"	SOR data update / UPU data update / NSSAI update / CAG
	update has not been sent to the AMF e.g. because no AMF was
	registered at provisioning time
"SENT_NO_ACK_REQUIRED"	SOR data update / UPU data update has been sent to the AMF;
	Acknowledgement was not requested
	This state is not applicable for NSSAI update / CAG update
"WAITING_FOR_ACK"	SOR data update has been sent to the AMF; Acknowledgement
	has been requested. In this state 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 AND AND
	NSSAI has been sent to the AMF
	Or
"A OK DEOEN/ED"	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
"RANGINGSL_PRIVACY"	Ranging and Sidelink Positioning Privacy Parameters

#### 5.4.3.11 Enumeration: UeSubscribedDataSetName

Applicable values are those defined as ProvisionedDataSetName or ContextDataSetName, see clauses 5.4.3.4 and 5.4.3.6, and values defined in table 5.4.3.11-1.

Table 5.4.3.11-1: Enumeration UeSubscribedDataSetName

Enumeration value	Description
"UE_UPD_CONF"	UE Update Confirmation Data

#### 5.4.4 Binary data

N/A

## 5.5 Error handling

Table 5.5-1 lists common response body data structures used within the nudr-dr (Nudr\_DataRepository) API

Table 5.5-1: Common Response Body Data Structures

Data type	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.
    © 2024, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).
    All rights reserved.
external Docs:
  description: 3GPP TS 29.505 V18.7.0; 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'
    '400':
      $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.vaml#/components/responses/404'
    '406':
     $ref: 'TS29571_CommonData.yaml#/components/responses/406'
    '429':
     $ref: 'TS29571 CommonData.yaml#/components/responses/429'
    '500':
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
      $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    '503':
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
  summary: modify the authentication subscription data of a UE
  operationId: ModifyAuthenticationSubscription
   - Authentication Subscription (Document)
  security:
    - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
      - nudr-dr:subscription-data:authentication-subscription:modify
 parameters:
    name: ueId
      in: path
     description: UE id
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
    - name: supported-features
     in: query
     description: Features required to be supported by the target NF
     schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  requestBody:
   content:
     application/json-patch+json:
        schema:
          type: array
          items:
            $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchItem'
   required: true
  responses:
    '204':
     description: Expected response to a valid request
    '403':
     description: modification is rejected
      content:
       application/problem+json:
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    12001:
     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'
      '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.vaml#/components/responses/502'
      503:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/authentication-data/authentication-status:
   summary: To store the Authentication Status data of a UE
   operationId: CreateAuthenticationStatus
   tags:
     - Authentication Status (Document)
   security:
     - {}
     - oAuth2ClientCredentials:
        - nudr-dr
     - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
       name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
   requestBody:
     content:
       application/json:
           $ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/AuthEvent'
     required: true
   responses:
      '204':
       description: Upon success, an empty response body shall be returned
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $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'
       $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: 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: querv
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  responses:
    '200':
     description: Expected response to a valid request
      content:
       application/json:
          schema:
            $ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/AuthEvent'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
     $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'
    5001:
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    503:
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
delete:
  summary: To remove the Authentication Status of a UE
  operationId: DeleteAuthenticationStatus
  tags:
    - AuthEvent (Document)
  security:
    - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
      - nudr-dr
     - nudr-dr:subscription-data
 parameters:
    - name: ueId
     in: path
     description: UE id
     required: true
     schema:
```

```
$ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
   responses:
      '204':
       description: Upon success, an empty response body shall be returned.
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
       $ref: 'TS29571 CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571 CommonData.vaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      15031:
       $ref: 'TS29571 CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/authentication-data/authentication-status/{servingNetworkName}:
 put:
   summary: To store the individual Authentication Status data of a UE
   operationId: CreateIndividualAuthenticationStatus
   tags:
     - Individual Authentication Status (Document)
   security:
      - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      - name: servingNetworkName
       in: path
       description: Serving Network Name
       required: true
       schema:
          $ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/ServingNetworkName'
   requestBody:
      content:
       application/json:
          schema:
            $ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/AuthEvent'
     required: true
   responses:
      '204':
       description: Upon success, an empty response body shall be returned
       $ref: 'TS29571 CommonData.vaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571 CommonData.vaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '411':
       $ref: 'TS29571_CommonData.yaml#/components/responses/411'
      '413':
       $ref: 'TS29571_CommonData.yaml#/components/responses/413'
      '415':
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      15021:
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
```

```
503:
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  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
       $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:
    12001:
     description: Expected response to a valid request
     content:
       application/json:
         schema:
            $ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/AuthEvent'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '406':
     $ref: 'TS29571_CommonData.yaml#/components/responses/406'
    '429':
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    '500':
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    '503':
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
delete:
  summary: To remove the Individual Authentication Status of a UE
  operationId: DeleteIndividualAuthenticationStatus
  tags:
```

```
- Individual AuthEvent (Document)
   security:
     - {}
     - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
       name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      - name: servingNetworkName
       in: path
       description: Serving Network Name
       required: true
       schema:
         $ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/ServingNetworkName'
    responses:
      '204':
       description: Upon success, an empty response body shall be returned.
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      503:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ue-update-confirmation-data:
   summary: Retrieves the complete UE Update Confirmation data
   operationId: QueryUeUpdConf
      - UE Update Confirmation (Document)
   security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
       name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      - name: supported-features
       in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
              $ref: '#/components/schemas/UeUpdConfData'
      14001:
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ue-update-confirmation-data/sor-data:
 put:
   summary: >
     To store the SoR acknowledgement information of a UE, ME support of SOR CMCI,
      and ME support of SOR-SNPN-SI and ME support of SOR-SNPN-SI-LS.
    operationId: CreateAuthenticationSoR
   tags:
     - Authentication SoR (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
        - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      - name: supported-features
       in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
   requestBody:
     content:
       application/json:
          schema:
           $ref: '#/components/schemas/SorData'
     required: true
   responses:
      '204':
       description: Expected response to a valid request
       $ref: 'TS29571 CommonData.yaml#/components/responses/400'
      '401':
        $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $ref: 'TS29571 CommonData.yaml#/components/responses/411'
      '413':
       $ref: 'TS29571_CommonData.yaml#/components/responses/413'
      '415':
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
```

```
get:
 summary: >
   Retrieves the SoR acknowledgement information of a UE, ME support of SOR CMCI
   ME support of SOR-SNPN-SI and ME support of SOR-SNPN-SI-LS
  operationId: QueryAuthSoR
  tags:
   - Authentication SoR (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
     - nudr-dr:subscription-data
 parameters:
    - name: ueId
     in: path
     description: UE id
     required: true
     schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
    - name: supported-features
     in: query
     description: Supported Features
     schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  responses:
    '200':
     description: Expected response to a valid request
      content:
       application/json:
         schema:
            $ref: '#/components/schemas/SorData'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
     $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'
     $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    '503':
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
   Updates the ME support of SOR CMCI ME support of SOR-SNPN-SI
   and ME support of SOR-SNPN-SI-LS information of a UE
  operationId: UpdateAuthenticationSoR
  tags:
    - Authentication SoR (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
     - nudr-dr
    - oAuth2ClientCredentials:
      - nudr-dr
      - nudr-dr:subscription-data
  parameters:
    - name: ueId
     in: path
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: supported-features
     in: query
     description: Features required to be supported by the target NF
```

```
$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:
      2041:
       description: Expected response to a valid request
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
      '400':
       $ref: 'TS29571 CommonData.yaml#/components/responses/400'
      '401':
        $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       description: modification is rejected
       content:
         application/problem+json:
           schema:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ue-update-confirmation-data/upu-data:
   summary: To store the UPU acknowledgement information of a UE
   operationId: CreateAuthenticationUPU
   tags:
      - Authentication UPU (Document)
   security:
     - {}
     - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      - name: supported-features
       in: query
       description: Supported Features
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
   requestBody:
     content:
       application/json:
         schema:
            $ref: '#/components/schemas/UpuData'
```

```
required: true
 responses:
    204':
     description: Expected response to a valid request
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
     $ref: 'TS29571 CommonData.yaml#/components/responses/401'
    '403':
      $ref: 'TS29571_CommonData.yaml#/components/responses/403'
     $ref: 'TS29571 CommonData.yaml#/components/responses/404'
    '411':
      $ref: 'TS29571_CommonData.yaml#/components/responses/411'
     $ref: 'TS29571 CommonData.vaml#/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'
aet:
  summary: Retrieves the UPU acknowledgement information of a UE
  operationId: QueryAuthUPU
  tags:
   - Authentication UPU (Document)
  security:
    - {}
    - oAuth2ClientCredentials:
     - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
      - nudr-dr:subscription-data
 parameters:
    - name: ueId
      in: path
     description: UE id
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
    - name: supported-features
     in: query
     description: Supported Features
     schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  responses:
    '200':
     description: Expected response to a valid request
      content:
       application/json:
          schema:
            $ref: '#/components/schemas/UpuData'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      $ref: 'TS29571 CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '406':
     $ref: 'TS29571_CommonData.yaml#/components/responses/406'
    '429':
      $ref: 'TS29571_CommonData.yaml#/components/responses/429'
     $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
      $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
```

```
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: querv
       description: Supported Features
           $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
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $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'
      14291:
       $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: Retrieves the UPU acknowledgement information of a UE
    operationId: QueryNssaiAck
   tags:
      - NSSAI ACK (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
        - nudr-dr
        - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE id
```

```
required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      - name: supported-features
       in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/NssaiAckData'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
        $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $ref: 'TS29571 CommonData.vaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      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
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      - name: supported-features
       in: query
       description: Supported Features
       schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
   requestBody:
     content:
       application/json:
          schema:
           $ref: '#/components/schemas/CagAckData'
     required: true
   responses:
      '204':
       description: Expected response to a valid request
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      15031:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    summary: Retrieves the CAG acknowledgement information of a UE
   operationId: QueryCagAck
    tags:
      - CAG ACK (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
       name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      - name: supported-features
       in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
   responses:
      '200':
       description: Expected response to a valid request
         application/json:
           schema:
              $ref: '#/components/schemas/CagAckData'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
        $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      15031:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/{servingPlmnId}/provisioned-data:
   summary: Retrieve multiple provisioned data sets of a UE
   operationId: QueryProvisionedData
   tags:
      - Provisioned Data (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
```

```
- nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
  - name: ueId
   in: path
   description: UE id
   required: true
     $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - name: servingPlmnId
   in: path
   description: PLMN ID
   required: true
   schema:
      $ref: '#/components/schemas/VarPlmnId'
  - name: dataset-names
   in: query
   description: List of dataset names
   style: form
   explode: false
   schema:
     $ref: '#/components/schemas/ProvisionedDatasetNames'
  - name: adjacent-plmns
   in: query
   description: List of PLMNs adjacent to the UE's serving PLMN
     type: array
     items:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
     minItems: 1
   style: form
   explode: false
  - name: single-nssai
    in: query
   content:
     application/json:
       schema:
          $ref: '#/components/schemas/VarSnssai'
   description: single NSSAI
   required: false
  - name: dnn
    in: query
   description: DNN
   required: false
   schema:
     $ref: '#/components/schemas/Dnn'
  - name: ext-group-ids
   description: List of external VN group identifiers
   schema:
      type: array
      items:
       $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
     minItems: 1
   style: form
   explode: false
  - name: uc-purpose
   in: querv
   description: User consent purpose
   schema:
      $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/UcPurpose'
responses:
  '200':
   description: Expected response to a valid request
   content:
     application/json:
        schema:
          $ref: '#/components/schemas/ProvisionedDataSets'
      3gpp-Sbi-Etags:
       description: A comma-separated list of ProvisionedDatasetName = Etag pairs
       schema:
         type: string
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/am-data:
    get:
      summary: Retrieves the access and mobility subscription data of a UE
      operationId: QueryAmData
        - 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: adjacent-plmns
          in: query
          description: List of PLMNs adjacent to the UE's serving PLMN
          schema:
            type: array
           items:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
           minItems: 1
          style: form
          explode: false
        - name: If-None-Match
         description: Validator for conditional requests, as described in RFC 9110, 13.1.29110,
13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
```

```
description: Validator for conditional requests, as described in RFC 9110, 13.1.39110,
13.1.3
          schema:
            type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/AccessAndMobilitySubscriptionData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 91119111, 5.2
              schema:
               type: string
            ETaq:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.39110, 8.8.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.29110, 8.8.2
              schema:
                type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $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.vaml#/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'
          $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
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
         description: Validator for conditional requests, as described in RFC 9110, 13.1.29110,
13.1.2
         schema:
           type: string
        - name: If-Modified-Since
         in: header
         description: Validator for conditional requests, as described in RFC 9110, 13.1.39110,
13.1.3
          schema:
           type: string
      responses:
         200':
          description: Expected response to a valid request
          content:
           application/json:
             schema:
                $ref: '#/components/schemas/SmfSelectionSubscriptionData'
          headers:
           Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 91119111, 5.2
              schema:
                type: string
            ETag:
             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.39110, 8.8.3
              schema:
               type: string
            Last-Modified:
             description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.29110, 8.8.2
              schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        404:
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
          $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
         - Session Management Subscription Data
      security:
        - {}
        - oAuth2ClientCredentials:
         - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
```

```
- nudr-dr:subscription-data
      parameters:
        - name: ueId
         in: path
          description: UE id
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: servingPlmnId
          in: path
          description: PLMN ID
          required: true
          schema:
            $ref: '#/components/schemas/VarPlmnId'
        - name: single-nssai
          in: query
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/VarSnssai'
          description: single NSSAI
          required: false
        - name: dnn
          in: query
          description: DNN
          required: false
          schema:
            $ref: '#/components/schemas/Dnn'
        - name: fields
          in: query
          description: attributes to be retrieved
          required: false
          schema:
            type: array
            items:
              type: string
           minItems: 1
          style: form
          explode: false
        - name: supported-features
          in: query
          description: Supported Features
          schema:
             \verb| $ref: 'TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| \\
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.29110,
13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.39110,
13.1.3
          schema:
           type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/SmSubsData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 91119111, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.39110, 8.8.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.29110, 8.8.2
              schema:
                type: string
```

```
'400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/amf-3gpp-access:
   summary: Retrieves the AMF context data of a UE using 3gpp access
   operationId: QueryAmfContext3gpp
   tags:
      - AMF 3GPP Access Registration (Document)
   security:
     - {}
     - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
       name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: fields
       in: query
       description: attributes to be retrieved
       required: false
       schema:
         type: array
         items:
            type: string
         minItems: 1
       style: form
       explode: false
      - name: supported-features
        in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
       description: Expected response to a valid request
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/Amf3GppAccessRegistration'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
```

'502':

```
$ref: 'TS29571_CommonData.yaml#/components/responses/502'
        503:
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
      summary: To store the AMF context data of a UE using 3gpp access in the UDR
      operationId: CreateAmfContext3gpp
      taqs:
        - 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'
      requestBody:
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Amf3GppAccessRegistration'
       required: true
      responses:
        '204':
          description: Upon success, an empty response body shall be returned
        '201':
          description: Created
          content:
           application/json:
              schema:
                $ref: '#/components/schemas/Amf3GppAccessRegistration'
          headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/amf-3gpp-access'
              required: true
              schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '411':
          $ref: 'TS29571_CommonData.yaml#/components/responses/411'
        '413':
          $ref: 'TS29571_CommonData.yaml#/components/responses/413'
        '415':
          $ref: 'TS29571_CommonData.yaml#/components/responses/415'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
          $ref: 'TS29571 CommonData.yaml#/components/responses/500'
        15021:
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
   patch:
      summary: To modify the AMF context data of a UE using 3qpp access in the UDR
```

```
operationId: AmfContext3gpp
    tags:
     - AMF 3GPP Access Registration (Document)
    security:
      - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
        - nudr-dr
        - nudr-dr:subscription-data
      - oAuth2ClientCredentials:

    nudr-dr

        - nudr-dr:subscription-data:registrations:write
    parameters:
      - name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: supported-features
       in: query
        description: Features required to be supported by the target NF
       schema:
         $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
    requestBody:
      content:
       application/json-patch+json:
         schema:
            type: array
            items:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
     required: true
    responses:
      '204':
       description: Expected response to a valid request
       description: Expected response to a valid request
       content:
         application/json:
            schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
      '400':
        $ref: 'TS29571_CommonData.yaml#/components/responses/400'
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       description: modification is rejected
        content:
         application/problem+json:
           schema:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      14041:
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $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'
        $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
        $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/amf-non-3gpp-access:
    summary: Retrieves the AMF context data of a UE using non-3gpp access
    operationId: QueryAmfContextNon3gpp
      - 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
      $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
responses:
  '200':
   description: Expected response to a valid request
   content:
      application/json:
        schema:
          $ref: '#/components/schemas/AmfNon3GppAccessRegistration'
  '400':
    $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
   $ref: 'TS29571_CommonData.yaml#/components/responses/404'
   $ref: 'TS29571_CommonData.yaml#/components/responses/406'
  '429':
    $ref: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
   $ref: 'TS29571_CommonData.yaml#/components/responses/500'
  '502':
   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  '503':
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
   $ref: 'TS29571_CommonData.yaml#/components/responses/default'
summary: To store the AMF context data of a UE using non-3gpp access in the UDR
operationId: CreateAmfContextNon3gpp
tags:
  - AMF Non-3GPP Access Registration (Document)
security:
  - {}
  - oAuth2ClientCredentials:
   - nudr-dr
  - oAuth2ClientCredentials:
    - nudr-dr
    - nudr-dr:subscription-data
  - oAuth2ClientCredentials:
    - nudr-dr
    - nudr-dr:subscription-data:registrations:write
parameters:
  - name: ueId
   in: path
   description: UE id
   required: true
   schema:
```

```
$ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      requestBody:
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/AmfNon3GppAccessRegistration'
        required: true
      responses:
        '204':
          description: Upon success, an empty response body shall be returned
          description: Created
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/Amf3GppAccessRegistration'
          headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/amf-non-3gpp-access'
              required: true
              schema:
                type: string
        '400':
          $ref: 'TS29571 CommonData.yaml#/components/responses/400'
        401:
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $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'
          $ref: 'TS29571 CommonData.yaml#/components/responses/502'
        503:
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        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
      tags:
        - AMF Non-3GPP Access Registration (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data:registrations:write
      parameters:
        - name: neTd
          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'
        content:
          application/json-patch+json:
```

```
schema:
           type: array
           items:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
     required: true
   responses:
      2041:
       description: Expected response to a valid request
      '200':
       description: Expected response to a valid request
       content:
         application/ison:
           schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       description: modification is rejected
       content:
         application/problem+json:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '411':
       $ref: 'TS29571_CommonData.yaml#/components/responses/411'
       $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'
       $ref: 'TS29571 CommonData.vaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/smf-registrations:
   summary: Retrieves the SMF registration list of a UE
   operationId: QuerySmfRegList
   taqs:
     - 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: querv
       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'
      14001:
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/smf-registrations/{pduSessionId}:
 get:
   summary: Retrieves the individual SMF registration of a UE
   operationId: QuerySmfRegistration
     - 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
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
   responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
              $ref: '#/components/schemas/SmfRegistration'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/429'
                   $ref: 'TS29571_CommonData.yaml#/components/responses/500'
                '502':
                   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
                   $ref: 'TS29571_CommonData.yaml#/components/responses/503'
                default:
                    $ref: 'TS29571_CommonData.yaml#/components/responses/default'
       put:
            summary: To create an individual SMF context data of a UE in the UDR
            operationId: CreateOrUpdateSmfRegistration
                - SMF Registration (Document)
            security:
               - {}
                - oAuth2ClientCredentials:
                  - nudr-dr
                - oAuth2ClientCredentials:
                    - nudr-dr
                   - nudr-dr:subscription-data
                oAuth2ClientCredentials:
                   - nudr-dr
                   - nudr-dr:subscription-data:registrations:write
            parameters:
                 - name: ueId
                   in: path
                  description: UE id
                   required: true
                   schema:
                      $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
                - name: pduSessionId
                   in: path
                   description: PDU session id
                   required: true
                   schema:
                       $ref: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
            requestBody:
               content:
                   application/json:
                       schema:
                           $ref: '#/components/schemas/SmfRegistration'
               required: true
            responses:
                '201':
                   description: Upon success, a response body containing a representation of the created
Individual SmfRegistration resource shall be returned
                   content:
                       application/json:
                           schema:
                              $ref: '#/components/schemas/SmfRegistration'
                   headers:
                       Location:
                          description: 'Contains the URI of the newly created resource, according to the
structure: \\ \{apiRoot\}/nudr-dr/<apiVersion>/subscription-data/\\ \{ueId\}/context-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-data/smf-dat
registrations/{pduSessionId}'
                          required: true
                          schema:
                               type: string
                '204':
                   description: No content
                   $ref: 'TS29571 CommonData.vaml#/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'
                14291:
                   $ref: 'TS29571_CommonData.yaml#/components/responses/429'
```

500:

```
$ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    15031:
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
   default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  callbacks:
    staleCheckNotification:
      '{$request.body#/udmStaleCheckCallbackUri}':
       post:
          requestBody:
            required: true
            content:
             application/json:
                schema:
                  $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/SmfRegistrationInfo'
            '204':
              description: Successful Notification response
            '307':
              $ref: 'TS29571_CommonData.yaml#/components/responses/307'
              $ref: 'TS29571 CommonData.vaml#/components/responses/308'
            '400':
              $ref: 'TS29571_CommonData.yaml#/components/responses/400'
              $ref: 'TS29571_CommonData.yaml#/components/responses/401'
            '403':
              $ref: 'TS29571_CommonData.yaml#/components/responses/403'
            '404':
              $ref: 'TS29571_CommonData.yaml#/components/responses/404'
            '411':
              $ref: 'TS29571_CommonData.yaml#/components/responses/411'
            '413':
              $ref: 'TS29571_CommonData.yaml#/components/responses/413'
            '415':
              $ref: 'TS29571_CommonData.yaml#/components/responses/415'
            '429':
              $ref: 'TS29571_CommonData.yaml#/components/responses/429'
              $ref: 'TS29571_CommonData.yaml#/components/responses/500'
            '502':
              $ref: 'TS29571_CommonData.yaml#/components/responses/502'
            '503':
              $ref: 'TS29571_CommonData.yaml#/components/responses/503'
            default:
              description: Unexpected error
delete:
  summary: To remove an individual SMF context data of a UE the UDR
  operationId: DeleteSmfRegistration
   - SMF Registration (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
      - nudr-dr:subscription-data
    oAuth2ClientCredentials:
      - nudr-dr
      - nudr-dr:subscription-data:registrations:write
  parameters:
     name: ueId
     in: path
     description: UE id
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: pduSessionId
     in: path
     description: PDU session id
     required: true
     schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
```

```
responses:
  '204':
   description: Upon success, an empty response body shall be returned.
  '400':
   $ref:
          'TS29571_CommonData.yaml#/components/responses/400'
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
   $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  '429':
   $ref: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
   $ref: 'TS29571_CommonData.yaml#/components/responses/500'
   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  '503':
   $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
   $ref: 'TS29571_CommonData.yaml#/components/responses/default'
summary: To modify the SMF context data of a UE in the UDR
operationId: UpdateSmfContext
tags:
  - SMF Registration (Document)
security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
    - nudr-dr
    - nudr-dr:subscription-data
  - oAuth2ClientCredentials:
     - nudr-dr
    - nudr-dr:subscription-data:registrations:write
parameters:
  - name: ueId
   in: path
   description: UE id
   required: true
   schema:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - name: pduSessionId
   in: path
   description: PDU session id
   required: true
    schema:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
  - name: supported-features
   in: 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:
  2041:
   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'
   $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'
        14041:
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '411':
          $ref: 'TS29571_CommonData.yaml#/components/responses/411'
        '413':
          $ref: 'TS29571_CommonData.yaml#/components/responses/413'
          $ref: 'TS29571_CommonData.yaml#/components/responses/415'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        15021:
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        15031:
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/operator-specific-data:
    aet:
      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: 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 9110, 13.1.2
          schema:
            type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
            type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
                type: object
                description: A map(list of key-value pairs) where operator specific data element
name serves as kev
```

```
additionalProperties:
                  $ref: '#/components/schemas/OperatorSpecificDataContainer'
         headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
                type: string
           ETaq:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
             schema:
                type: string
           Last-Modified:
             description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
               type: string
        14001:
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
         $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'
        500:
         $ref: 'TS29571_CommonData.yaml#/components/responses/500'
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
         $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
         $ref: 'TS29571_CommonData.yaml#/components/responses/default'
   patch:
      summary: To modify operator specific data of a UE
      operationId: ModifyOperSpecData
      tags:
        - Operator-Specific Data Container (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
         - nudr-dr:subscription-data
     parameters:
        - name: ueId
         in: path
         description: UE id
         required: true
         schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
          in: query
         description: Features required to be supported by the target NF
         schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      requestBody:
        content:
         application/json-patch+json:
            schema:
              type: array
              items:
                $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
       required: true
      responses:
        '204':
         description: Expected response to a valid request
        '200':
         description: Expected response to a valid request
           application/json:
              schema:
```

```
$ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          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'
          $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'
          $ref: 'TS29571 CommonData.vaml#/components/responses/502'
        15031:
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    put:
      summary: To create an operator-specific data resource of a UE
      operationId: CreateOperSpecData
      tags:
        - Operator-Specific Data Container (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
         - name: ueId
          in: path
          description: UE id
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
          in: query
          description: Supported Features
          schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      requestBody:
        content:
          application/json:
           schema:
              type: object
              description: A map (list of key-value pairs) where operator specific data element name
serves as key
              additionalProperties:
               $ref: '#/components/schemas/OperatorSpecificDataContainer'
       required: true
      responses:
        '201':
          description: Upon success, a response body containing a representation of the created
Operator Specific Data resource shall be returned
          content:
            application/json:
              schema:
                type: object
                description: A map (list of key-value pairs) where operator specific data element
name serves as key
                additionalProperties:
                 $ref: '#/components/schemas/OperatorSpecificDataContainer'
          headers:
            Location:
```

```
description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/operator-specific-data
              required: true
              schema:
                type: string
        '204':
          description: No content
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '411':
          $ref: 'TS29571_CommonData.yaml#/components/responses/411'
        '413':
          $ref: 'TS29571_CommonData.yaml#/components/responses/413'
        '415':
          $ref: 'TS29571_CommonData.yaml#/components/responses/415'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
          $ref: 'TS29571 CommonData.vaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    delete:
      summary: To remove an operator-specific data resource of a UE
      operationId: DeleteOperSpecData
       - 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
           $ref: 'TS29571 CommonData.vaml#/components/schemas/VarUeId'
      responses:
        '204':
          description: Upon success, an empty response body shall be returned.
         $ref: 'TS29571 CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571 CommonData.yaml#/components/responses/429'
        500:
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/smsf-3gpp-access:
      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
          description: Created
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/SmsfRegistration'
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/smsf-3qpp-access'
              required: true
              schema:
                type: string
        '200':
         description: Updated
          content:
            application/json:
                $ref: '#/components/schemas/SmsfRegistration'
        '400':
          $ref: 'TS29571 CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
         $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'
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          \verb| $ref: 'TS29571_CommonData.yaml\#/components/responses/default'| \\
      summary: To remove the SMSF context data of a UE via 3GPP access
      operationId: DeleteSmsfContext3gpp
        - 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:
    12041:
     description: Upon success, an empty response body shall be returned
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '429':
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
     $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'
aet:
  summary: Retrieves the SMSF context data of a UE using 3gpp access
  operationId: QuerySmsfContext3gpp
  tags:
   - SMSF 3GPP Registration (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
      - nudr-dr
     - nudr-dr:subscription-data
  parameters:
    - name: ueId
     in: path
     description: UE id
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: fields
     in: query
     description: attributes to be retrieved
     required: false
     schema:
       type: array
       items:
          type: string
       minItems: 1
     style: form
      explode: false
    - name: supported-features
      in: query
      description: Supported Features
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  responses:
    '200':
     description: Expected response to a valid request
       application/json:
          schema:
```

```
$ref: '#/components/schemas/SmsfRegistration'
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref:
                'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/smsf-non-3gpp-access:
      summary: Create the SMSF context data of a UE via non-3GPP access
      operationId: CreateSmsfContextNon3gpp
        - 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'
        '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.vaml#/components/responses/502'
    503:
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
delete:
  summary: To remove the SMSF context data of a UE via non-3GPP access
  operationId: DeleteSmsfContextNon3gpp
  tags:
   - SMSF Non-3GPP Registration (Document)
  security:
   - {}
   - oAuth2ClientCredentials:
     - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
      - nudr-dr:subscription-data
    - oAuth2ClientCredentials:
     - nudr-dr
     - nudr-dr:subscription-data:registrations:write
 parameters:
    - name: ueId
     in: path
     description: UE id
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  responses:
    '204':
     description: Upon success, an empty response body shall be returned
     $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'
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    '500':
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
     $ref: 'TS29571 CommonData.vaml#/components/responses/502'
    '503':
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
get:
  summary: Retrieves the SMSF context data of a UE using non-3gpp access
  operationId: QuerySmsfContextNon3gpp
  tags:
   - SMSF Non-3GPP Registration (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
      - nudr-dr:subscription-data
 parameters:
```

```
- name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: fields
       in: query
       description: attributes to be retrieved
       required: false
       schema:
         type: array
         items:
           type: string
         minItems: 1
       style: form
       explode: false
      - name: supported-features
       in: query
       description: Supported Features
       schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/SmsfRegistration'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
        $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/ip-sm-gw:
 put:
   summary: Create the IP-SM-GW context data of a UE
   operationId: CreateIpSmGwContext
   tags:
     - IP-SM-GW Registration (Document)
    security:
     - {}
     - oAuth2ClientCredentials:
       - nudr-dr
     - oAuth2ClientCredentials:
       - nudr-dr
        - nudr-dr:subscription-data
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data:registrations:write
   parameters:
      - name: ueId
       in: path
       description: UE id
       required: true
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
   requestBody:
     content:
       application/json:
         schema:
            $ref: '#/components/schemas/IpSmGwRegistration'
```

```
required: true
 responses:
    '204':
     description: Upon success, an empty response body shall be returned
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
      $ref: 'TS29571_CommonData.yaml#/components/responses/403'
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '411':
      $ref: 'TS29571_CommonData.yaml#/components/responses/411'
    '413':
     $ref: 'TS29571 CommonData.vaml#/components/responses/413'
    '415':
     $ref: 'TS29571_CommonData.yaml#/components/responses/415'
    '429':
     $ref: 'TS29571 CommonData.yaml#/components/responses/429'
    '500':
     $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    '503':
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
   default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
delete:
  summary: To remove the IP-SM-GW context data of a UE
  operationId: DeleteIpSmGwContext
  taqs:
   - 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.vaml#/components/schemas/VarUeId'
  responses:
    '204':
     description: Upon success, an empty response body shall be returned
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
     $ref: 'TS29571 CommonData.yaml#/components/responses/429'
    '500':
     $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    '503':
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
   default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
  summary: Modify the IP-SM-GW context data of a UE
  operationId: ModifyIpSmGwContext
  tags:
    - IP-SM-GW Registration (Document)
```

```
security:
  - {}
  - oAuth2ClientCredentials:
   - nudr-dr
  - oAuth2ClientCredentials:
    - nudr-dr
    - nudr-dr:subscription-data
  - oAuth2ClientCredentials:
    - nudr-dr
   - nudr-dr:subscription-data:registrations:write
parameters:
  - name: ueId
   in: path
   description: UE id
   required: true
   schema:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
requestBody:
  content:
   application/json-patch+json:
      schema:
        type: array
          $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
       minItems: 1
 required: true
responses:
  '204':
   description: Successful response
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
   $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'
   $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'
   $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  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
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      responses:
        12001:
         description: Expected response to a valid request
         content:
           application/json:
              schema:
                $ref: '#/components/schemas/IpSmGwRegistration'
        '400':
         $ref: 'TS29571_CommonData.yaml#/components/responses/400'
         401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
         $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
         $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
         $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
         $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/mwd:
     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
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
     request.Body:
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/MessageWaitingData'
       required: true
      responses:
        '201':
         description: Created
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/MessageWaitingData'
         headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/mwd'
              required: true
              schema:
```

```
type: string
    '204':
     description: Upon success, an empty response body shall be returned
    '400':
     $ref:
           'TS29571_CommonData.yaml#/components/responses/400'
     $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'
     $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'
     $ref: 'TS29571 CommonData.yaml#/components/responses/503'
   default:
     description: Unexpected error
delete:
  summary: To remove the Message Waiting Data of the UE
  operationId: DeleteMessageWaitingData
  tags:
    - Message Waiting Data (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
     - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
     - nudr-dr:subscription-data
  parameters:
    - name: ueId
     in: path
     description: UE id
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  responses:
    '204':
     description: Upon success, an empty response body shall be returned
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
      $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '429':
     $ref: 'TS29571 CommonData.vaml#/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'
  summary: Modify the Message Waiting Data of the UE
  operationId: ModifyMessageWaitingData
  tags:
   - Message Waiting Data (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
```

```
- oAuth2ClientCredentials:
      - nudr-dr
      - nudr-dr:subscription-data
  parameters:
     name: ueId
     in: path
     description: UE id
     required: true
      schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
 requestBody:
    content:
     application/json-patch+json:
        schema:
          type: array
          items:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
          minItems: 1
   required: true
 responses:
    '204':
     description: Successful response
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
     $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'
    '502':
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    503:
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
get:
  summary: Retrieves the Message Waiting Data of the UE
  operationId: QueryMessageWaitingData
  tags:
   - Message Waiting Data (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
     - nudr-dr
    - oAuth2ClientCredentials:
      - nudr-dr
      - nudr-dr:subscription-data
 parameters:
    - name: ueId
     in: path
     description: UE id
     required: true
     schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: fields
     in: query
     description: attributes to be retrieved
     required: false
      schema:
       type: array
       items:
          type: string
       minItems: 1
      style: form
     explode: false
    - name: supported-features
```

```
in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/MessageWaitingData'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
        $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571 CommonData.vaml#/components/responses/500'
      15021:
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      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: querv
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      - name: If-None-Match
       in: header
       description: Validator for conditional requests, as described in RFC 9110, 13.1.2
       schema:
         type: string
      - name: If-Modified-Since
        in: header
       description: Validator for conditional requests, as described in RFC 9110, 13.1.3
       schema:
         type: string
    responses:
      '200':
       description: Expected response to a valid request
       content:
          application/json:
```

```
$ref: '#/components/schemas/SmsManagementSubscriptionData'
         headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
                type: string
            ETaq:
             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
             schema:
                type: string
            Last-Modified:
             description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
               type: string
        14001:
         $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
         $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
         $ref: 'TS29571 CommonData.vaml#/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'
         $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
         $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
         $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/\{ueId\}/\{servingPlmnId\}/provisioned-data/sms-data:\\
      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:
             \verb| $ref: 'TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| \\
        - name: If-None-Match
         in: header
         description: Validator for conditional requests, as described in RFC 9110, 13.1.2
         schema:
            type: string
        - name: If-Modified-Since
         description: Validator for conditional requests, as described in RFC 9110, 13.1.3
         schema:
```

```
type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
           application/json:
              schema:
                $ref: '#/components/schemas/SmsSubscriptionData'
          headers:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
                type: string
            ETag:
             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
               type: string
        '400':
          $ref: 'TS29571 CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/pp-data:
      summary: Read the profile of a given UE
      operationId: GetppData
      tags:
      - Parameter Provision (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
         - nudr-dr:subscription-data
      parameters:
         name: ueId
          in: path
          description: pp data for a UE
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
          in: query
          description: Supported Features
          schema:
             \verb| $ref: 'TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| \\
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
            type: string
        - name: If-Modified-Since
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
```

```
type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/PpData'
          headers:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
                type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
               type: string
        '400':
          $ref: 'TS29571 CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
         description: Forbidden
          content:
           application/problem+json:
             schema:
                $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
          $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 provisioned parameter data
      operationId: ModifyPpData
      tags:
        - ProvisionedParameterData (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
         name: ueId
         in: path
          description: pp data for a UE
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
          in: query
          description: Features required to be supported by the target NF
          schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      requestBody:
        content:
          application/json-patch+json:
            schema:
              type: array
              items:
```

```
$ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
     required: true
   responses:
      '204':
       description: Expected response to a valid request
       description: Expected response to a valid request
       content:
         application/json:
           schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       description: modification is rejected
       content:
         application/problem+json:
           schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '411':
       $ref: 'TS29571 CommonData.vaml#/components/responses/411'
      '413':
       $ref: 'TS29571_CommonData.yaml#/components/responses/413'
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/pp-profile-data:
 aet:
   summary: Retrieves the parameter provision profile data of a UE
   operationId: QueryPPData
     - 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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
```

```
'404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
        $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/pp-data-store/{afInstanceId}:
 put:
   summary: create a Provisioning Parameter Data Entry
   operationId: Create PP Data Entry
   tags:
     - ProvisionedParameterDataEntry (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
        - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: Identifier of the UE
       required: true
       schema:
         anyOf:
            - $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
            - $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
            - type: string
             pattern: '^anyUE$'
      - name: afInstanceId
        in: path
       description: Application Function Instance Identifier
       required: true
       schema:
         type: string
   requestBody:
     content:
       application/json:
          schema:
           $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/PpDataEntry'
     required: true
   responses:
      '201':
       description: Indicating a successful creation of the resource.
       content:
         application/json:
           schema:
              $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/PpDataEntry'
      '204':
       description: Indicating a successful creation of the resource.
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
       $ref: 'TS29571 CommonData.vaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '411':
       $ref: 'TS29571_CommonData.yaml#/components/responses/411'
      '413':
       $ref: 'TS29571_CommonData.yaml#/components/responses/413'
      '415':
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
```

```
'502':
    $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  503:
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
    description: Unexpected error
summary: Delete a Provisioning Parameter Data Entry
operationId: Delete PP Data Entry
taqs:

    ProvisionedParameterDataEntry (Document)

security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
    - nudr-dr
    - nudr-dr:subscription-data
parameters:
  - name: ueId
    in: path
    description: Identifier of the UE
    required: true
    schema:
      anyOf:
        - $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
        - type: string
         pattern: '^anyUE$'
  - name: afInstanceId
    in: path
    description: Application Function Instance Identifier
    required: true
    schema:
     type: string
responses:
  '204':
    description: Expected response to a valid request
  '400':
    $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
    $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  '429':
    $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    $ref: 'TS29571 CommonData.vaml#/components/responses/500'
  5021:
    $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  15031:
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
    description: Unexpected error
summary: get a Parameter Provisioning Data Entry
operationId: Get PP Data Entry
tags:
 - ProvisionedParameterDataEntry (Document)
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: afInstanceId
    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
       content:
         application/ison:
           schema:
             $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/PpDataEntry'
      '400':
       $ref: 'TS29571 CommonData.vaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571 CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
       $ref: 'TS29571 CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       description: Unexpected error
/subscription-data/{ueId}/pp-data-store:
 get:
   summary: get a list of Parameter Provisioning Data Entries
   operationId: Get Multiple PP Data Entries

    ProvisionedParameterDataEntries (Collection)

   parameters:
      - name: ueId
       in: path
       description: Identifier of the UE
       required: true
       schema:
         anyOf:
            - $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
            - - $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
            - type: string
             pattern: '^anyUE$'
      - name: supported-features
       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'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
```

```
'502':
        $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       description: Unexpected error
/subscription-data/{ueId}/context-data/ee-subscriptions:
   summary: Retrieves the ee subscriptions of a UE
    operationId: Queryeesubscriptions
    taqs:
      - Event Exposure Subscriptions (Collection)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
    parameters:
      - name: ueId
        in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: supported-features
       in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      - name: event-types
       in: query
       required: false
        description: Event Types
       schema:
          type: array
         items:
            $ref: 'TS29503_Nudm_EE.yaml#/components/schemas/EventType'
          minItems: 1
       style: form
       explode: false
      - name: nf-identifiers
       in: query
       description: NF Identifiers
       schema:
          type: array
          items:
            $ref: '#/components/schemas/NfIdentifier'
         minItems: 1
        style: form
        explode: false
    responses:
      '200':
       description: Expected response to a valid request
        content:
          application/json:
            schema:
             type: array
             items:
              $ref: '#/components/schemas/EeSubscriptionExt'
      '400':
        $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
       $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'
      summary: Create individual EE subscription
      operationId: CreateEeSubscriptions
        - 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
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      requestBody:
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/EeSubscription'
       required: true
      responses:
          description: Expected response to a valid request
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/EeSubscription'
          headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/ee-
subscriptions/{subsId}'
              required: true
              schema:
                type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        404:
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '411':
          $ref: 'TS29571_CommonData.yaml#/components/responses/411'
        '413':
          $ref: 'TS29571_CommonData.yaml#/components/responses/413'
        '415':
          $ref: 'TS29571_CommonData.yaml#/components/responses/415'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        503:
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  / \verb|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:
      schema:
       $ref: '#/components/schemas/EeSubscription'
  required: true
responses:
  '204':
   description: Upon success, an empty response body shall be returned
    $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
   description: update of non-existing resource is rejected
   content:
      application/problem+json:
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  '411':
   $ref: 'TS29571_CommonData.yaml#/components/responses/411'
  '413':
    $ref: 'TS29571_CommonData.yaml#/components/responses/413'
   $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'
   $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
   $ref: 'TS29571_CommonData.yaml#/components/responses/default'
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:
  '204':
   description: Expected response to a successful subscription removal
  '400':
   $ref:
         'TS29571_CommonData.yaml#/components/responses/400'
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
   $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  '429':
   $ref: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
   $ref: 'TS29571_CommonData.yaml#/components/responses/500'
   $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 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
      $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
requestBody:
  content:
   application/json-patch+json:
      schema:
        type: array
        items:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
        minItems: 1
 required: true
responses:
  '204':
   description: Successful response
  '200':
   description: Expected response to a valid request
    content:
      application/json:
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
  '400':
    $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
   $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  '411':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/411'
      '413':
       $ref: 'TS29571 CommonData.vaml#/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'
 aet:
   summary: Retrieve a eeSubscription
   operationId: QueryeeSubscription
   tags:
     - Event Exposure Subscription (Document)
    security:
     - {}
     - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
        - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: subsId
        in: path
       required: true
       description: Unique ID of the subscription to remove
       schema:
         type: string
    responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
            items:
              $ref: '#/components/schemas/EeSubscription'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
        $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571 CommonData.vaml#/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'
/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
   tags:
      - AMF Subscription Info (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
```

```
- nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
   - name: ueId
   in: path
   required: true
   schema:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - name: subsId
   in: path
   required: true
   schema:
     type: string
requestBody:
  content:
   application/json:
      schema:
        type: array
        items:
          $ref: '#/components/schemas/AmfSubscriptionInfo'
        minItems: 1
 required: true
responses:
  '204':
   description: Upon success, an empty response body shall be returned
   description: Upon successful creation, the created resource shall be returned
   content:
      application/json:
        schema:
          type: array
          items:
            $ref: '#/components/schemas/AmfSubscriptionInfo'
          minItems: 1
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
   $ref: 'TS29571_CommonData.yaml#/components/responses/404'
   $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'
   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  503:
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    $ref: 'TS29571_CommonData.yaml#/components/responses/default'
summary: Deletes AMF Subscription Info for an eeSubscription
operationId: RemoveAmfSubscriptionsInfo
tags:
  - Event AMF Subscription Info (Document)
security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
    - nudr-dr
    - nudr-dr:subscription-data
parameters:
   name: ueId
   in: path
   required: true
    schema:
```

```
$ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: subsId
      in: path
      required: true
      schema:
       type: string
  responses:
    '204':
      description: Expected response to a successful subscription removal
      $ref:
            'TS29571_CommonData.yaml#/components/responses/400'
    '401':
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
      $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      $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'
      $ref: 'TS29571 CommonData.vaml#/components/responses/503'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
  summary: modify the AMF Subscription Info
  operationId: ModifyAmfSubscriptionInfo
  tags:
    - AmfSubscriptionInfo (Document)
  security:
    - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
      - nudr-dr
      - nudr-dr:subscription-data
  parameters:
    - name: ueId
     in: path
      required: true
       $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:
      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'
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
```

```
description: modification is rejected
      content:
       application/problem+json:
         schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '411':
     $ref: 'TS29571_CommonData.yaml#/components/responses/411'
    '413':
     $ref: 'TS29571_CommonData.yaml#/components/responses/413'
    '415':
     $ref: 'TS29571_CommonData.yaml#/components/responses/415'
    '429':
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
     $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'
aet:
  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
    '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'
    '500':
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    15031:
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
```

```
/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/smf-subscriptions:
   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:
            $ref: '#/components/schemas/SmfSubscriptionInfo'
     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/SmfSubscriptionInfo'
      '400':
       $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'
      '411':
       $ref: 'TS29571_CommonData.yaml#/components/responses/411'
       $ref: 'TS29571 CommonData.yaml#/components/responses/413'
      415:
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
        $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      503:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  delete:
    summary: Delete SMF Subscription Info
    operationId: RemoveSmfSubscriptionsInfo
    tags:
      - SMF Event Subscription Info (Document)
    security:
      - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
        - nudr-dr
        - nudr-dr:subscription-data
   parameters:
      - name: ueId
```

```
in: path
   required: true
   schema:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - name: subsId
   in: path
   required: true
   schema:
     type: string
responses:
  '204':
   description: Expected response to a successful subscription removal
    $ref: 'TS29571_CommonData.yaml#/components/responses/400'
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
   $ref: 'TS29571 CommonData.yaml#/components/responses/404'
  '429':
   $ref: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
   $ref: 'TS29571_CommonData.yaml#/components/responses/500'
  '502':
   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  '503':
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
   $ref: 'TS29571_CommonData.yaml#/components/responses/default'
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: query
    description: Features required to be supported by the target NF
      $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
request.Body:
  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'
    $ref: 'TS29571_CommonData.yaml#/components/responses/400'
```

```
'401':
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     description: modification is rejected
     content:
       application/problem+json:
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '411':
     $ref: 'TS29571_CommonData.yaml#/components/responses/411'
    '413':
     $ref: 'TS29571_CommonData.yaml#/components/responses/413'
    '415':
     $ref: 'TS29571 CommonData.vaml#/components/responses/415'
    '429':
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    500:
     $ref: 'TS29571 CommonData.yaml#/components/responses/500'
    '502':
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    503:
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
   default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
get:
  summary: Retrieve SMF Subscription Info
  operationId: GetSmfSubscriptionInfo
  tags:
   - SMF Event Subscription Info (Document)
  security:
   - {}
   - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
     - nudr-dr:subscription-data
  parameters:
    - name: ueId
     in: path
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: subsId
     in: path
     required: true
     schema:
       type: string
  responses:
    '200':
     description: OK
      content:
       application/json:
         schema:
            $ref: '#/components/schemas/SmfSubscriptionInfo'
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '406':
     $ref: 'TS29571_CommonData.yaml#/components/responses/406'
    '429':
     $ref: 'TS29571 CommonData.yaml#/components/responses/429'
    '500':
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    15031:
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
```

```
/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/hss-subscriptions:
 put:
   summary: Create HSS Subscription Info
   operationId: Create HSS Subscriptions
    tags:
      - HSS Event Subscription Info (Document)
   parameters:
      - name: ueId
       in: path
       required: true
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: subsId
       in: path
       required: true
       schema:
          type: string
    requestBody:
      content:
       application/json:
          schema:
            $ref: '#/components/schemas/HssSubscriptionInfo'
      required: true
   responses:
      '204':
       description: Upon success, an empty response body shall be returned
      '201':
       description: Upon successful creation, the created resource shall be returned
       content:
          application/json:
            schema:
              $ref: '#/components/schemas/HssSubscriptionInfo'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
        $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
        $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  delete:
    summary: Delete HSS Subscription Info
    operationId: RemoveHssSubscriptionsInfo
    tags:
      - HSS Event Subscription Info (Document)
   parameters:
      - name: ueId
       in: path
       required: true
        schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: subsId
        in: path
       required: true
       schema:
         type: string
    responses:
      '204':
       description: Expected response to a successful subscription removal
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
```

```
'401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
   $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  '429':
   $ref: 'TS29571 CommonData.yaml#/components/responses/429'
  '500':
   $ref: 'TS29571_CommonData.yaml#/components/responses/500'
   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  15031:
   $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
   $ref: 'TS29571_CommonData.yaml#/components/responses/default'
summary: Modify HSS Subscription Info
operationId: ModifyHssSubscriptionInfo
tags:
  - HSS Event Subscription Info (Document)
parameters:
 - name: ueId
   in: path
   required: true
   schema:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - name: subsId
   in: path
   required: true
   schema:
     type: string
  - name: supported-features
   in: query
   description: Features required to be supported by the target NF
   schema:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
requestBody:
 content:
   application/json-patch+json:
     schema:
       type: array
       items:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
 required: true
responses:
  '204':
   description: Expected response to a valid request
   description: Expected response to a valid request
   content:
     application/json:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   description: modification is rejected
   content:
     application/problem+json:
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  '404':
   $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  '411':
   $ref: 'TS29571 CommonData.yaml#/components/responses/411'
  '413':
    $ref: 'TS29571_CommonData.yaml#/components/responses/413'
  '415':
   $ref: 'TS29571_CommonData.yaml#/components/responses/415'
  '429':
   $ref: 'TS29571_CommonData.yaml#/components/responses/429'
   $ref: 'TS29571_CommonData.yaml#/components/responses/500'
  '502':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
 get:
   summary: Retrieve HSS Subscription Info
    operationId: GetHssSubscriptionInfo
   tags:
     - HSS Event Subscription Info (Document)
   parameters:
      - name: ueId
       in: path
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: subsId
       in: path
       required: true
       schema:
         type: string
    responses:
      '200':
       description: OK
       content:
         application/json:
           schema:
              $ref: '#/components/schemas/SmfSubscriptionInfo'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
        $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/{ueGroupId}/ee-subscriptions:
 aet:
   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'
      '200':
       description: Expected response to a valid request
```

```
content:
           application/json:
              schema:
               type: array
               items:
               $ref: '#/components/schemas/EeSubscription'
        '400':
         $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
         $ref: 'TS29571 CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
         $ref: 'TS29571 CommonData.vaml#/components/responses/406'
        '429':
         $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        500:
         $ref: 'TS29571 CommonData.yaml#/components/responses/500'
        '502':
         $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
         $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
         $ref: 'TS29571_CommonData.yaml#/components/responses/default'
   post:
      summary: Create individual EE subscription for a group of UEs or any UE
      operationId: CreateEeGroupSubscriptions
       - 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
              $ref: '#/components/schemas/VarUeGroupId'
      requestBody:
        content:
          application/json:
             $ref: '#/components/schemas/EeSubscription'
       required: true
      responses:
        '201':
         description: Expected response to a valid request
         content:
            application/json:
              schema:
                $ref: '#/components/schemas/EeSubscription'
         headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/{ueGroupId}/ee-subscriptions'
              required: true
              schema:
                type: string
        '400':
         $ref: 'TS29571 CommonData.yaml#/components/responses/400'
        '401':
         $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
         $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '411':
         $ref: 'TS29571_CommonData.yaml#/components/responses/411'
        '413':
         $ref: 'TS29571_CommonData.yaml#/components/responses/413'
```

```
'415':
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571 CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}:
 put:
   summary: Update an individual ee subscription of a group of UEs or any UE
   operationId: UpdateEeGroupSubscriptions
   tags:
     - Event Exposure Group Subscription (Document)
   security:
     - {}
     - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueGroupId
       in: path
       required: true
       schema:
          $ref: '#/components/schemas/VarUeGroupId'
      - name: subsId
       in: path
       required: true
       schema:
         type: string
   requestBody:
      content:
       application/json:
         schema:
           $ref: '#/components/schemas/EeSubscription'
     required: true
   responses:
      '204':
       description: Upon success, an empty response body shall be returned
       $ref: 'TS29571 CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       description: update of non-existing resource is rejected
       content:
         application/problem+json:
           schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      '411':
       $ref: 'TS29571 CommonData.vaml#/components/responses/411'
      '413':
       $ref: 'TS29571_CommonData.yaml#/components/responses/413'
       $ref: 'TS29571 CommonData.vaml#/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: Deletes a eeSubscription for a group of UEs or any UE
   operationId: RemoveEeGroupSubscriptions
```

```
tags:
  - Event Exposure Group Subscription (Document)
security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
  - name: ueGroupId
   in: path
   required: true
   schema:
       $ref: '#/components/schemas/VarUeGroupId'
  - name: subsId
   in: path
    required: true
   description: Unique ID of the subscription to remove
   schema:
     type: string
responses:
  '204':
   description: Expected response to a successful subscription removal
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
   $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'
   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  '503':
   $ref: 'TS29571_CommonData.yaml#/components/responses/503'
   $ref: 'TS29571_CommonData.yaml#/components/responses/default'
summary: Modify an individual ee subscription for a group of a UEs
operationId: ModifyEeGroupSubscription
taqs:
  - Event Exposure Group Subscription (Document)
security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
   name: ueGroupId
   in: path
   required: true
   schema:
        $ref: '#/components/schemas/VarUeGroupId'
  - name: subsId
   in: path
   required: true
   schema:
     type: string
  - name: supported-features
   in: query
   description: Features required to be supported by the target NF
    schema:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
requestBody:
  content:
    application/json-patch+json:
      schema:
        type: array
        items:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
```

```
minItems: 1
  required: true
responses:
  '204':
   description: Successful response
   description: Expected response to a valid request
   content:
     application/json:
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
   $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'
   $ref: 'TS29571 CommonData.vaml#/components/responses/415'
  14291:
    $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 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
   schema:
        $ref: '#/components/schemas/VarUeGroupId'
  - name: subsId
   in: path
    required: true
   description: Unique ID of the subscription to remove
   schema:
     type: string
responses:
  '200':
   description: Expected response to a valid request
   content:
      application/json:
       schema:
        items:
          $ref: '#/components/schemas/EeSubscription'
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
    $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
    $ref: 'TS29571_CommonData.yaml#/components/responses/404'
   $ref: 'TS29571_CommonData.yaml#/components/responses/406'
```

```
14291:
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      15001:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/{ueGroupId}/ee-profile-data:
 get:
   summary: Retrieves the ee profile data profile data of a group or anyUE
   operationId: QueryGroupEEData
   tags:
      - Event Exposure Data for a group (Document)
   security:
     - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueGroupId
       in: path
       description: Group of UEs or any UE
       required: true
       schema:
         $ref: '#/components/schemas/VarUeGroupId'
      - name: supported-features
       in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
   responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
              $ref: '#/components/schemas/EeGroupProfileData'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      4061:
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      14291:
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      503:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ee-profile-data:
 get:
   summary: Retrieves the ee profile data of a UE
   operationId: QueryEEData
   tags:
      - Event Exposure Data (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
        - nudr-dr:subscription-data
   parameters:
```

```
- name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: fields
       in: query
       description: attributes to be retrieved
       required: false
       schema:
          type: array
         items:
           type: string
       style: form
       explode: false
      - name: supported-features
       in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/EeProfileData'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      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: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
   responses:
       description: Expected response to a valid request
       content:
```

```
application/json:
              schema:
               type: array
               items:
                $ref: '#/components/schemas/SdmSubscription'
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
          $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: Create individual sdm subscription
      operationId: CreateSdmSubscriptions
      tags:
        - SDM Subscriptions (Collection)
      security:
        - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: ueId
          in: path
          description: UE ID
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      requestBody:
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/SdmSubscription'
        required: true
      responses:
        '201':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/SdmSubscription'
          headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/sdm-
subscriptions/{subsId}'
              required: true
              schema:
                type: string
        '400':
          $ref: 'TS29571 CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '411':
          $ref: 'TS29571_CommonData.yaml#/components/responses/411'
        '413':
          $ref: 'TS29571_CommonData.yaml#/components/responses/413'
```

```
'415':
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}:
 put:
   summary: Update an individual sdm subscriptions of a UE
   operationId: Updatesdmsubscriptions
   tags:
     - SDM Subscription (Document)
   security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: subsId
       in: path
       required: true
       schema:
         type: string
   requestBody:
      content:
       application/json:
         schema:
           $ref: '#/components/schemas/SdmSubscription'
     required: true
   responses:
      '204':
       description: Upon success, an empty response body shall be returned
      '400':
       $ref: 'TS29571 CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       description: update of non-existing resource is rejected
       content:
         application/problem+json:
           schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      '411':
       $ref: 'TS29571 CommonData.vaml#/components/responses/411'
      '413':
       $ref: 'TS29571_CommonData.yaml#/components/responses/413'
       $ref: 'TS29571 CommonData.vaml#/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: Deletes a sdmsubscriptions
   operationId: RemovesdmSubscriptions
```

```
tags:
  - SDM Subscription (Document)
security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
  - name: ueId
   in: path
   required: true
   schema:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - name: subsId
   in: path
   required: true
   description: Unique ID of the subscription to remove
   schema:
     type: string
responses:
  '204':
   description: Expected response to a successful subscription removal
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
   $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'
   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  '503':
   $ref: 'TS29571_CommonData.yaml#/components/responses/503'
   $ref: 'TS29571_CommonData.yaml#/components/responses/default'
summary: Modify an individual sdm subscription
operationId: ModifysdmSubscription
tags:
  - SDM Subscription (Document)
security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
   name: ueId
   in: path
   description: UE id
   required: true
   schema:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - name: subsId
   in: path
   required: true
   schema:
     type: string
  - name: supported-features
   in: query
   description: Features required to be supported by the target NF
     $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
requestBody:
  content:
   application/json-patch+json:
     schema:
       type: array
        items:
```

```
$ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
          minItems: 1
   required: true
  responses:
    '204':
     description: Successful response
    '200':
     description: Expected response to a valid request
      content:
       application/json:
         schema:
            $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '411':
     $ref: 'TS29571_CommonData.yaml#/components/responses/411'
    '413':
     $ref: 'TS29571_CommonData.yaml#/components/responses/413'
    '415':
     $ref: 'TS29571_CommonData.yaml#/components/responses/415'
    '429':
      $ref: 'TS29571_CommonData.yaml#/components/responses/429'
     $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'
aet:
  summary: Retrieves a individual sdmSubscription identified by subsId
  operationId: QuerysdmSubscription
  tags:
   - SDM Subscription (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
      - nudr-dr
     - nudr-dr:subscription-data
 parameters:
    - name: ueId
     in: path
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: subsId
      in: path
     required: true
     description: Unique ID of the subscription to retrieve
     schema:
       type: string
  responses:
    '200':
     description: Expected response to a valid request
     content:
       application/json:
          schema:
           items:
              $ref: '#/components/schemas/SdmSubscription'
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '406':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/406'
       $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/{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
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: subsId
       in: path
       required: true
       schema:
         type: string
   requestBody:
      content:
       application/json:
         schema:
           $ref: '#/components/schemas/HssSubscriptionInfo'
     required: true
   responses:
      '204':
       description: Upon success, an empty response body shall be returned
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
        $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571 CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    summary: Delete HSS SDM Subscription Info
   operationId: RemoveHssSDMSubscriptionsInfo
     - HSS SDM Subscription Info (Document)
   parameters:
      - name: ueId
       in: path
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: subsId
       in: path
       required: true
       schema:
```

```
type: string
   responses:
        '204':
           description: Expected response to a successful subscription removal
        '400':
            $ref: 'TS29571_CommonData.yaml#/components/responses/400'
           $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
            $ref: 'TS29571_CommonData.yaml#/components/responses/403'
           $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '429':
            $ref: 'TS29571_CommonData.yaml#/components/responses/429'
           $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        15021:
           $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        15031:
           $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
           $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
    summary: Modify HSS SDM Subscription Info
    operationId: ModifyHssSDMSubscriptionInfo
        - HSS SDM Subscription Info (Document)
   parameters:
        - name: ueId
           in: path
           required: true
           schema:
               $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: subsId
            in: path
           required: true
           schema:
               type: string
        - name: supported-features
            in: query
           description: Features required to be supported by the target NF
                \verb| $ref: 'TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | 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
               application/json:
                  schema:
                        $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
        '400':
            $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
           $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
           description: modification is rejected
           content:
               application/problem+json:
                    schema:
                        $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
        '404':
           $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '411':
           $ref: 'TS29571_CommonData.yaml#/components/responses/411'
        '413':
           $ref: 'TS29571_CommonData.yaml#/components/responses/413'
        '415':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/415'
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      503:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
 get:
   summary: Retrieve HSS SDM Subscription Info
   operationId: GetHssSDMSubscriptionInfo
   tags:
     - HSS SDM Subscription Info (Document)
   parameters:
     - name: ueId
       in: path
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: subsId
       in: path
       required: true
       schema:
         type: string
   responses:
      '200':
       description: OK
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/SmfSubscriptionInfo'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
       $ref: 'TS29571 CommonData.yaml#/components/responses/502'
      503:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/shared-data:
   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:
         description: Expected response to a valid request
          content:
           application/json:
             schema:
                type: array
                items:
                  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SharedData'
        '400':
         $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
         $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
         $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
         $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
         $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
         $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
         $ref: 'TS29571 CommonData.yaml#/components/responses/502'
        '503':
         $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
         $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/shared-data/{sharedDataId}:
     summary: retrieve individual shared data
      operationId: GetIndividualSharedData
     tags:
         - Retrieval of individual shared data
     parameters:
        - name: If-None-Match
         in: header
         description: Validator for conditional requests, as described in RFC 9110, 13.1.2
         schema:
           type: string
        - name: If-Modified-Since
          in: header
         description: Validator for conditional requests, as described in RFC 9110, 13.1.3
         schema:
           type: string
        - name: sharedDataId
          in: path
         description: Id of the Shared Data
         required: true
         schema:
           $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SharedDataId'
      responses:
        '200':
         description: Expected response to a valid request
          content:
           application/json:
              schema:
                $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SharedData'
         headers:
            Cache-Control:
             description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
                type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
```

```
schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        401:
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571 CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571 CommonData.vaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        5031:
          $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
       - Subs To Notify (Collection)
      security:
        - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      requestBody:
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/SubscriptionDataSubscriptions'
       required: true
      responses:
        '201':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/SubscriptionDataSubscriptions'
          headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/subs-to-notify/{subsId}'
              required: true
              schema:
                type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $ref: 'TS29571 CommonData.vaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
          $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'
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
```

```
default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  callbacks:
    onDataChange:
      '{$request.body#/callbackReference}':
       post:
          requestBody:
           required: true
            content:
              application/json:
               schema:
                  $ref: '#/components/schemas/DataChangeNotify'
          responses:
            '204':
              description: Expected response to a valid request
              $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'
              $ref: 'TS29571_CommonData.yaml#/components/responses/415'
            '429':
              $ref: 'TS29571_CommonData.yaml#/components/responses/429'
              $ref: 'TS29571_CommonData.yaml#/components/responses/500'
            '502':
              $ref: 'TS29571_CommonData.yaml#/components/responses/502'
            '503':
              $ref: 'TS29571_CommonData.yaml#/components/responses/503'
            default:
              $ref: 'TS29571_CommonData.yaml#/components/responses/default'
get:
 summary: Retrieves the list of subscriptions
  operationId: QuerySubsToNotify
  tags:
   - Subs To Notify (Collection)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
     - nudr-dr:subscription-data
  parameters:
     name: ue-id
     in: query
     description: UE id
      required: true
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: supported-features
     in: query
      description: Supported Features
     schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  responses:
    '200':
     description: Expected response to a valid request
     content:
       application/json:
          schema:
            type: array
              $ref: '#/components/schemas/SubscriptionDataSubscriptions'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
 delete:
    summary: Deletes subscriptions identified by a given ue-id parameter
   operationId: RemoveMultipleSubscriptionDataSubscriptions
   tags:
     - Subs To Notify (Collection)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
        - nudr-dr:subscription-data
   parameters:
      - name: ue-id
       in: query
       required: true
       description: UE ID
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: nf-instance-id
       in: query
       required: false
       description: NF Instance ID
         $ref: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
      - name: delete-all-nfs
       in: query
       required: false
       description: Flag to delete subscriptions from all NFs
       schema:
         type: boolean
      - name: implicit-unsubscribe-indication
        in: query
       required: false
       description: Implicit Unsubscribe Indication
       schema:
         type: boolean
    responses:
      '204':
       description: Expected response to a successful subscription removal
      '400':
        $ref: 'TS29571_CommonData.yaml#/components/responses/400'
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      14291:
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/subs-to-notify/{subsId}:
 delete:
   summary: Deletes a subscriptionDataSubscriptions
```

```
operationId: RemovesubscriptionDataSubscriptions
tags:
 - Subs To Notify (Document)
security:
  - {}
  - oAuth2ClientCredentials:
   - nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
  - name: subsId
   in: path
   required: true
   description: Unique ID of the subscription to remove
   schema:
      type: string
responses:
  '204':
   description: Expected response to a successful subscription removal
    $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'
   $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 an individual subscriptionDataSubscription
operationId: ModifysubscriptionDataSubscription
  - Subs To Notify (Document)
security:
 - {}
  - oAuth2ClientCredentials:
   - nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
  - name: subsId
   in: path
   required: true
   schema:
     type: string
  - name: supported-features
    in: query
   description: Features required to be supported by the target NF
   schema:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
requestBody:
  content:
   application/json-patch+json:
      schema:
        type: array
        items:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
        minItems: 1
  required: true
responses:
  '204':
   description: Successful response
  '200':
   description: Expected response to a valid request
   content:
      application/json:
```

```
schema:
             oneOf:
               - - $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
               - - $ref: '#/components/schemas/SubscriptionDataSubscriptions'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571 CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      '411':
       $ref: 'TS29571_CommonData.yaml#/components/responses/411'
      '413':
       $ref: 'TS29571 CommonData.vaml#/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'
 aet:
   summary: Retrieves a individual subscriptionDataSubscription identified by subsId
   operationId: QuerySubscriptionDataSubscriptions
   taqs:
     - 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:
             $ref: '#/components/schemas/SubscriptionDataSubscriptions'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571 CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/trace-data:
 aet:
```

```
summary: Retrieves the trace configuration data of a UE
      operationId: QueryTraceData
      tags:
       - Trace Data (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        name: ueId
         in: path
          description: UE id
          required: true
          schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: servingPlmnId
          in: path
          description: PLMN ID
          required: true
          schema:
           $ref: '#/components/schemas/VarPlmnId'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/TraceDataOrSharedTraceDataId'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
               type: string
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
             schema:
               type: string
           Last-Modified:
             description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
             schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $ref: 'TS29571 CommonData.vaml#/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'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/identity-data:
```

aet:

```
summary: Retrieve identity data by SUPI or GPSI
      operationId: GetIdentityData
      tags:
        - Query Identity Data by SUPI or GPSI (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: ueId
          in: path
         description: UE ID
         required: true
          schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: app-port-id
          in: query
          description: Application port identifier
           application/json:
              schema:
               $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/AppPortId'
        - name: If-None-Match
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
         schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: OK
          content:
           application/json:
             schema:
                $ref: '#/components/schemas/IdentityData'
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
                type: string
            ETag:
             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
               type: string
            Last-Modified:
             description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
             schema:
               type: string
        '400':
          $ref: 'TS29571 CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571 CommonData.vaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
```

```
/subscription-data/{ueId}/operator-determined-barring-data:
 get:
   summary: Retrieve ODB Data data by SUPI or GPSI
   operationId: GetOdbData
   tags:
      - Query ODB Data by SUPI or GPSI (Document)
   security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE ID
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    responses:
      '200':
       description: OK
       content:
         application/json:
           schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/OdbData'
       $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      503:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data:
 get:
   summary: Retrieve multiple context data sets of a UE
   operationId: QueryContextData
     - Context Data (Document)
   security:
     - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: context-dataset-names
       in: query
       description: List of context dataset names
       style: form
       explode: false
       required: true
        schema:
         $ref: '#/components/schemas/ContextDatasetNames'
   responses:
```

```
'200':
               description: Expected response to a valid request
               content:
                    application/json:
                        schema:
                           $ref: '#/components/schemas/ContextDataSets'
               headers:
                    3gpp-Sbi-Etags:
                        description: A comma-separated list of ProvisionedDatasetName = Etag pairs
                        schema:
                           type: string
            '400':
               $ref: 'TS29571_CommonData.yaml#/components/responses/400'
            '401':
               $ref: 'TS29571_CommonData.yaml#/components/responses/401'
               $ref: 'TS29571_CommonData.yaml#/components/responses/403'
            '404':
                $ref: 'TS29571_CommonData.yaml#/components/responses/404'
            '406':
               $ref: 'TS29571_CommonData.yaml#/components/responses/406'
            '429':
                $ref: 'TS29571_CommonData.yaml#/components/responses/429'
               $ref: 'TS29571 CommonData.yaml#/components/responses/500'
            15021:
                $ref: 'TS29571_CommonData.yaml#/components/responses/502'
               $ref: 'TS29571_CommonData.yaml#/components/responses/503'
            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: querv
               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:
                    \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/sc
        responses:
               description: Expected response to a valid request
                content:
                    application/json:
                            $ref: '#/components/schemas/GroupIdentifiers'
            '400':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571 CommonData.vaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/5g-vn-groups:
   summary: Retrieves the data of a 5G VN Group
   operationId: Query5GVnGroup
   tags:
     - 5G-VN-Groups (Store)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
        - nudr-dr:subscription-data
   parameters:
      - name: gpsis
       in: query
       description: List of GPSIs
       schema:
         type: array
         items:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
       style: form
       explode: false
    responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
            schema:
            type: object
            description: A map(list of key-value pairs) where ExtGroupId serves as key
            additional Properties:
               $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/5GVnGroupConfiguration'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
        $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/5g-vn-groups/{externalGroupId}:
   summary: Create an individual 5G VN Groupp
   operationId: Create5GVnGroup
```

```
- 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.vaml#/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'
   $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'
    $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: Deletes the 5GVnGroup
operationId: Delete5GVnGroup
tags:
  - Delete 5GVnGroup
security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
   - nudr-dr
   - nudr-dr:subscription-data
parameters:
   name: externalGroupId
   in: path
   required: true
   schema:
      $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
responses:
  '204':
   description: Expected response to a successful group removal
  '400':
   $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
```

```
'403':
      $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
      $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '429':
      $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    500:
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
      $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
  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
      schema:
       $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
    - name: supported-features
      in: query
      description: Features required to be supported by the target NF
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  requestBody:
    content:
      application/json-patch+json:
        schema:
          type: array
          items:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
   required: true
  responses:
    '204':
      description: Expected response to a valid request
      description: Expected response to a valid request
      content:
       application/json:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
      description: modification is rejected
      content:
       application/problem+json:
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    '404':
      $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '411':
      $ref: 'TS29571 CommonData.yaml#/components/responses/411'
    '413':
      $ref: 'TS29571_CommonData.yaml#/components/responses/413'
    '415':
      $ref: 'TS29571_CommonData.yaml#/components/responses/415'
    '429':
      $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
 get:
   summary: Retrieve a 5GVnGroup configuration
    operationId: Get5GVnGroupConfiguration
     - Query 5GVnGroupConfiguration (Document)
    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'
   responses:
      '200':
       description: OK
       content:
         application/json:
           schema:
             $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/5GVnGroupConfiguration'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
       $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'
       $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
    tags:
      - LCS Privacy Subscription Data
   security:
     - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
       name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: fields
       in: query
       description: attributes to be retrieved
       required: false
       schema:
         type: array
```

```
items:
              type: string
           minItems: 1
          style: form
          explode: false
        - name: supported-features
          in: query
          description: Supported Features
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: Expected response to a valid request
           application/ison:
              schema:
                $ref: '#/components/schemas/LcsPrivacyData'
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/lcs-subscription-data:
    aet:
      summary: Retrieves the LCS subscription data of a UE
      operationId: QueryLcsSubscriptionData
      tags:
        - LCS Subscription Data
      security:
        - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: ueId
```

```
in: path
          description: UE id
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: fields
          in: query
          description: attributes to be retrieved
          required: false
          schema:
            type: array
            items:
              type: string
            minItems: 1
          style: form
          explode: false
        - name: supported-features
          in: query
          description: Supported Features
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
         200:
          description: Expected response to a valid request
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/LcsSubscriptionData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
               type: string
            ETaq:
             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
               type: string
            Last-Modified:
             description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
             schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
          $ref: 'TS29571 CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
          $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
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
           type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
           application/json:
              schema:
                $ref: '#/components/schemas/LcsMoData'
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
                type: string
           Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
```

```
'502':
                     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
                 503:
                    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
                 default:
                     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    /subscription-data/{ueId}/nidd-authorization-data:
            summary: Retrieve NIDD Authorization Data GPSI or External Group identifier
            operationId: GetNiddAuData
            taqs:
                - Query NIDD Authorization Data GPSI or External Group identifier (Document)
             security:
                - {}
                 - oAuth2ClientCredentials:
                    - nudr-dr
                 - oAuth2ClientCredentials:
                    - nudr-dr
                    - nudr-dr:subscription-data
            parameters:
                  - name: ueId
                     in: path
                    description: UE ID
                    required: true
                    schema:
                        type: string
                        pattern: '^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+)$'
                 - name: single-nssai
                    in: query
                    content:
                        application/json:
                             schema:
                                 $ref: '#/components/schemas/VarSnssai'
                    description: single NSSAI
                    required: true
                 - name: dnn
                    in: query
                    description: DNN
                    required: true
                    schema:
                        $ref: '#/components/schemas/Dnn'
                 - name: mtc-provider-information
                     in: query
                    description: MTC Provider Information
                    required: true
                    schema:
                         \verb| $ref: 'TS29571\_CommonData.yaml\#/components/schemas/MtcProviderInformation'| | TS29571\_CommonData.yaml\#/components/schemas/MtcProviderInformation'| | TS29571\_CommonData.yaml\#/components/schemas/MtcProviderInformation'| | TS29571\_CommonData.yaml\#/components/schemas/MtcProviderInformation'| | TS29571\_CommonData.yaml\#/components/schemas/MtcProviderInformation'| | TS29571\_CommonData.yaml\#/components/schemas/MtcProviderInformation'| | TS29571\_CommonData.yaml\#/components/schemas/MtcProviderInformation'| | TS29571\_CommonData.yaml#/components/schemas/MtcProviderInformation'| | TS29571\_CommonData.yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/yaml#/components/schemas/
                 - name: af-id
                    in: query
                    description: Application Function Identifier
                    schema:
                         type: string
                 - name: If-None-Match
                    in: header
                    description: Validator for conditional requests, as described in RFC 9110, 13.1.2
                    schema:
                        type: string
                 - name: If-Modified-Since
                    in: header
                    description: Validator for conditional requests, as described in RFC 9110, 13.1.3
                     schema:
                       type: string
            responses:
                 '200':
                    description: OK
                     content:
                        application/json:
                             schema:
                                 $ref: '#/components/schemas/AuthorizationData'
                         Cache-Control:
                            description: Cache-Control containing max-age, as described in RFC 9111, 5.2
                             schema:
                                 type: string
                         ETag:
                             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
```

```
schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571 CommonData.vaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/coverage-restriction-data:
    aet:
      summary: Retrieves the subscribed enhanced Coverage Restriction Data of a UE
      operationId: QueryCoverageRestrictionData
      tags:
       - Enhanced Coverage Restriction Data
      security:
        - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: ueId
          in: path
          description: UE id
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
         in: query
          description: Supported Features
          schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
         in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: OK
          content:
           application/json:
              schema:
                $ref: '#/components/schemas/EnhancedCoverageRestrictionData'
            Cache-Control:
             description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
                type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
```

```
schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571 CommonData.vaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/location:
    aet:
      summary: Retrieves the UE's Location Information
      operationId: QueryUeLocation
      taqs:
       - UE's Location Information (Document)
      security:
        - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: ueId
          in: path
         description: UE id
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
          in: query
          description: Supported Features
          schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      responses:
        '200':
          description: Expected response to a valid request
          content:
           application/json:
              schema:
                $ref: '#/components/schemas/LocationInfo'
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $ref: 'TS29571 CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
```

default:

```
$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: 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 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: OK
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/V2xSubscriptionData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
             schema:
                type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $ref: 'TS29571 CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
```

default:

```
$ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/prose-data:
      summary: Retrieves the subscribed ProSe service Data of a UE
      operationId: QueryPorseData
      tags:
        - ProSe Service Subscription Data
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
         - name: ueId
         in: path
          description: UE id
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
          in: 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 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: OK
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/ProseSubscriptionData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
             schema:
                type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $ref: 'TS29571 CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
```

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 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: Expected response to a valid request
           application/json:
              schema:
                $ref: '#/components/schemas/LcsBroadcastAssistanceTypesData'
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
                type: string
             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
               type: string
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571 CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        15021:
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
```

```
description: Unexpected error
        content:
          application/problem+json:
            schema:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
/subscription-data/group-data/5g-vn-groups/internal:
    summary: Retrieves the data of 5G VN Group
    operationId: Query5GVnGroupInternal
    tags:
      - 5G-VN-Groups-Internal (Document)
   parameters:
      - name: internal-group-ids
       in: query
       description: List of Internal Group IDs
       required: true
       schema:
          type: array
         items:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/GroupId'
        style: form
        explode: false
    responses:
      200':
       description: Expected response to a valid request
        content:
          application/json:
           schema:
             type: object
             description: A map (list of key-value pairs) where ExtGroupId serves as key
             additionalProperties:
               $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/5GVnGroupConfiguration'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      401:
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
        $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
        $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/5g-vn-groups/pp-profile-data:
    summary: Retrieves the parameter provision profile data for 5G VN Group
    operationId: Query5GVNGroupPPData
    tags:
      - Parameter Provision profile Data for 5G VN Group(Document)
    security:
      - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
       - name: ext-group-ids
       in: query
        description: List of external VN group identifiers
        schema:
          type: array
          items:
            $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
          minItems: 1
        style: form
        explode: false
```

```
- name: supported-features
        in: query
       description: Supported Features
        schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      2001:
       description: Expected response to a valid request
        content:
         application/json:
           schema:
              $ref: '#/components/schemas/Pp5gVnGroupProfileData'
      '400':
        $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
        $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
        $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
        $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/ \verb|subscription-data/{ueId}|/context-data/nidd-authorizations|;
 put:
   summary: Create NIDD Authorization Info
   operationId: CreateNIDDAuthorizationInfo
   tags:
     - NIDD Authorization Info (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    requestBody:
      content:
       application/json:
         schema:
            $ref: '#/components/schemas/NiddAuthorizationInfo'
     required: true
    responses:
      204':
       description: Upon success, an empty response body shall be returned
      '201':
       description: Upon successful creation, the created resource shall be returned
       content:
         application/json:
            schema:
              $ref: '#/components/schemas/NiddAuthorizationInfo'
        $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'
   $ref: 'TS29571_CommonData.yaml#/components/responses/415'
  '429':
    $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    $ref: 'TS29571_CommonData.yaml#/components/responses/500'
  '502':
    $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
    \verb| $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
  '400':
    $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
    $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    $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'
    $ref: 'TS29571 CommonData.yaml#/components/responses/503'
  default:
    $ref: 'TS29571_CommonData.yaml#/components/responses/default'
summary: Modify NIDD Authorization Info
operationId: ModifyNiddAuthorizationInfo
  - NIDD Authorization Info (Document)
security:
 - {}
  - oAuth2ClientCredentials:
    - nudr-dr
  - oAuth2ClientCredentials:
    - nudr-dr
    - nudr-dr:subscription-data
parameters:
  - name: ueId
   in: path
    required: true
    schema:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - name: supported-features
    in: query
    description: Features required to be supported by the target NF
      $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'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     description: modification is rejected
       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'
     $ref: 'TS29571 CommonData.vaml#/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'
get:
  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
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  responses:
    '200':
     description: OK
      content:
       application/json:
          schema:
            $ref: '#/components/schemas/NiddAuthorizationInfo'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
      $ref: 'TS29571_CommonData.yaml#/components/responses/403'
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
```

```
'406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        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/{ueId}/5mbs-data:
    get:
      summary: Retrieves the 5mbs subscription data of a UE
      operationId: Query5mbsData
      tags:
       - 5MBSSubscriptionData (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: ueId
          in: path
          description: UE id
          required: true
         schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
          in: query
          description: Supported Features
         schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
         in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
         schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
               $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/MbsSubscriptionData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
                type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $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'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}:
 get:
   summary: Retrieve multiple subscribed data sets of a UE
   operationId: QueryUeSubscribedData
     - UE Subscribed Data (Document)
   security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE Id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: dataset-names
       in: query
       description: List of dataset names
       style: form
       explode: false
       schema:
         $ref: '#/components/schemas/UeSubscribedDatasetNames'
      - name: serving-plmn
       in: querv
       description: Serving PLMN Id
       schema:
         $ref: '#/components/schemas/VarPlmnId'
      - name: adjacent-plmns
       in: query
       description: List of PLMNs adjacent to the UE's serving PLMN
       schema:
         type: array
         items:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
         minItems: 1
       style: form
       explode: false
      - name: single-nssai
       in: query
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/VarSnssai'
       description: single NSSAI
       required: false
      - name: dnn
       in: query
       description: DNN
       required: false
       schema:
         $ref: '#/components/schemas/Dnn'
      - name: ext-group-ids
       description: List of external VN group identifiers
       schema:
          type: array
          items:
           $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
          minItems: 1
```

```
style: form
       explode: false
      - name: uc-purpose
       in: query
       description: User consent purpose
          $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/UcPurpose'
   responses:
      '200':
       description: Expected response to a valid request
       content:
         application/ison:
           schema:
             $ref: '#/components/schemas/UeSubscribedDataSets'
       headers:
         3gpp-Sbi-Etags:
           description: A comma-separated list of ProvisionedDatasetName = Etag pairs
           schema:
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571 CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/service-specific-authorization-data/{serviceType}:
   summary: Retrieve ServiceSpecific Authorization Data
   operationId: GetSSAuData
     - Query Service Specific Authorization Data (Document)
   security:
     - {}
     - oAuth2ClientCredentials:
       - nudr-dr
     - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE ID
       required: true
       schema:
         type: string
         pattern: '^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+)$'
      - name: serviceType
       in: path
       description: Service Type
       required: true
       schema:
         $ref: 'TS29503_Nudm_SSAU.yaml#/components/schemas/ServiceType'
      - name: single-nssai
       in: query
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/VarSnssai'
       description: single NSSAI
       required: true
      - name: dnn
       in: query
       description: DNN
```

```
required: true
          schema:
           $ref: '#/components/schemas/Dnn'
        - name: mtc-provider-information
          in: query
          description: MTC Provider Information
          schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/MtcProviderInformation'
        - name: af-id
          in: query
         description: Application Function Identifier
          schema:
           type: string
        - name: If-None-Match
          in: header
         description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
          description: OK
          content:
           application/json:
             schema:
                $ref: '#/components/schemas/AuthorizationData'
          headers:
           Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
                type: string
            ETag:
             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
               type: string
            Last-Modified:
             description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
              schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        404:
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/service-specific-authorizations/{serviceType}:
      summary: Create Service Specific Authorization Info
      operationId: CreateServiceSpecificAuthorizationInfo
         - Service Specific 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'
  - name: serviceType
    in: path
    description: Service Type
    required: true
    schema:
      $ref: 'TS29503_Nudm_SSAU.yaml#/components/schemas/ServiceType'
requestBody:
  content:
   application/json:
      schema:
        \verb| $ref: '\#/components/schemas/ServiceSpecificAuthorizationInfo'| \\
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/ServiceSpecificAuthorizationInfo'
    $ref: 'TS29571 CommonData.vaml#/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'
    $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'
    $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  503:
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
    $ref: 'TS29571_CommonData.yaml#/components/responses/default'
summary: Delete Service Specific Authorization Info
{\tt operationId: RemoveServiceSpecificAuthorizationInfo}
  - 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
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
      $ref: 'TS29571_CommonData.yaml#/components/responses/404'
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    500:
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    503:
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
  summary: Modify Service Specific Authorization Info
  operationId: ModifyServiceSpecificAuthorizationInfo
  tags:
   - Service Specific Authorization Info (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
     - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
      - nudr-dr:subscription-data
  parameters:
    name: ueId
     in: path
     required: true
     schema:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    - name: serviceType
      in: path
     description: Service Type
     required: true
     schema:
       $ref: 'TS29503_Nudm_SSAU.yaml#/components/schemas/ServiceType'
    - name: supported-features
     in: querv
     description: Features required to be supported by the target {\tt 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'
      $ref: 'TS29571 CommonData.yaml#/components/responses/400'
    '401':
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     description: modification is rejected
      content:
        application/problem+json:
           $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'
       $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 Service Specific Authorization Info
   operation {\tt Id} : {\tt GetServiceSpecificAuthorizationInfo}
      - Service Specific Authorization Info (Document)
   security:
     - {}
     - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: serviceType
       in: path
       description: Service Type
       required: true
       schema:
         $ref: 'TS29503_Nudm_SSAU.yaml#/components/schemas/ServiceType'
    responses:
      '200':
       description: OK
       content:
         application/json:
           schema:
              $ref: '#/components/schemas/ServiceSpecificAuthorizationInfo'
      '400':
       $ref: 'TS29571 CommonData.vaml#/components/responses/400'
      401:
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/roaming-information:
   summary: Update the Roaming Information of the EPC domain
   {\tt operationId: UpdateRoamingInformation}
     - Update the Roaming Information of the EPC domain (Document)
   security:
     - {}
```

```
- oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: ueId
          in: path
          description: UE id
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      requestBody:
        content:
          application/json:
            schema:
              $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/RoamingInfoUpdate'
       required: true
      responses:
        '201':
          description: Created
          content:
            application/json:
              schema:
                $ref: 'TS29503 Nudm UECM.yaml#/components/schemas/RoamingInfoUpdate'
          headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/roaming-information'
              required: true
              schema:
                type: string
        '204':
          description: Upon success, an empty response body shall be returned
        '400':
                'TS29571_CommonData.yaml#/components/responses/400'
          $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'
          $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'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          description: Unexpected error
    aet:
      summary: Retrieves the Roaming Information of the EPC domain
      operationId: QueryRoamingInformation
      tags:
        - Retrieve the Roaming Information of the EPC domain (Document)
      security:
        - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
         name: ueId
          in: path
          description: UE id
          required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
```

```
responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
             schema:
                $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/RoamingInfoUpdate'
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
        '502':
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571 CommonData.vaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/pei-info:
   put:
      summary: Update the PEI Information of the 5GC/EPC domains
      operationId: CreateOrUpdatePeiInformation
       - 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
            application/json:
              schema:
                $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/PeiUpdateInfo'
          headers:
            Location:
              description: 'Contains the URI of the newly created resource, according to the
structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/pei-info'
              required: true
              schema:
                type: string
        '204':
          description: Upon success, an empty response body shall be returned
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
          $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      15031:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       description: Unexpected error
 get:
   summary: Retrieves the PEI Information of the 5GC/EPC domains
   operationId: QueryPeiInformation
    tags:
      - Retrieve the Roaming Information of the 5GC/EPC domains (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
       name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
   responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
              $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/PeiUpdateInfo'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      4061:
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      14291:
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      503:
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/qroup-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
  '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'
   $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'
   $ref: 'TS29571_CommonData.yaml#/components/responses/502'
   503:
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  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
    '400':
      $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'
    '429':
      $ref: 'TS29571_CommonData.yaml#/components/responses/429'
     $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    15021:
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    15031:
     $ref: 'TS29571 CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
  summary: modify the AMF Subscription Info
  operationId: ModifyAmfGroupSubscriptions
    - 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
       $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'
    '400':
     $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      15021:
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
 get:
   summary: Retrieve AMF subscription Info for a group of UEs or any UE
   operationId: GetAmfGroupSubscriptions
     - 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
               $ref: '#/components/schemas/AmfSubscriptionInfo'
              minItems: 1
      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'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/\{ueGroupId\}/ee-subscriptions/\{subsId\}/smf-subscriptions:\\
    summary: Create SMF Subscription Info for a group of UEs or any YE
   operationId: CreateSmfGroupSubscriptions
   tags:
```

```
- SMF Event Group Subscription Info (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
      - nudr-dr
     - nudr-dr:subscription-data
  parameters:
     name: ueGroupId
     in: path
     required: true
     schema:
          $ref: '#/components/schemas/VarUeGroupId'
    - name: subsId
     in: path
     required: true
     schema:
       type: string
 requestBody:
    content:
      application/json:
          $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'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
     $ref: 'TS29571 CommonData.vaml#/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'
     $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'
     $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
delete:
  summary: Delete SMF Subscription Info for a group of UEs or any UE
  operationId: RemoveSmfGroupSubscriptions
  tags:
    - SMF Event Subscription Info (Document)
  security:
   - {}
    - oAuth2ClientCredentials:
      - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
     - nudr-dr:subscription-data
  parameters:
    - name: ueGroupId
     in: path
     required: true
     schema:
         $ref: '#/components/schemas/VarUeGroupId'
    - name: subsId
```

```
in: path
     required: true
     schema:
       type: string
  responses:
    '204':
     description: Expected response to a successful subscription removal
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    '500':
     $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
     $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    '503':
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
     $ref: 'TS29571 CommonData.yaml#/components/responses/default'
patch:
  summary: Modify SMF Subscription Info for a group of UEs or any UE
  operationId: ModifySmfGroupSubscriptions
  tags:
   - SMF Event Subscription Info (Document)
  security:
   - {}
   - oAuth2ClientCredentials:
     - nudr-dr
    - oAuth2ClientCredentials:
     - nudr-dr
      - nudr-dr:subscription-data
  parameters:
    - name: ueGroupId
     in: path
     required: true
     schema:
          $ref: '#/components/schemas/VarUeGroupId'
    - name: subsId
     in: path
     required: true
     schema:
       type: string
    - name: supported-features
     in: query
     description: Features required to be supported by the target NF
        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
 requestBody:
    content:
     application/json-patch+json:
       schema:
          type: array
          items:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchItem'
   required: true
  responses:
    204:
     description: Expected response to a valid request
    '200':
     description: Expected response to a valid request
     content:
       application/json:
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
     description: modification is rejected
     content:
```

```
application/problem+json:
            schema:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
       $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'
       $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 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'
      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'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/\{ueGroupId\}/ee-subscriptions/\{subsId\}/hss-subscriptions:\\
    summary: Create HSS Subscription Info for a group of UEs
   operationId: CreateHssGroupSubscriptions
   tags:
```

```
- HSS Event Group Subscription Info (Document)
parameters:
  - name: ueGroupId
   in: path
   description: Group of UEs or any UE
   required: true
   schema:
     $ref: '#/components/schemas/VarUeGroupId'
  - name: subsId
    in: path
   required: true
   schema:
     type: string
requestBody:
  content:
   application/json:
      schema:
        $ref: '#/components/schemas/HssSubscriptionInfo'
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'
   $ref: 'TS29571 CommonData.vaml#/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'
   $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'
   $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: 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/400'
  '401':
   $ref: 'TS29571_CommonData.yaml#/components/responses/401'
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
```

```
'404':
      $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '429':
      $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    '500':
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
      $ref: 'TS29571_CommonData.yaml#/components/responses/502'
    '503':
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
  summary: Modify HSS Subscription Info
  operationId: ModifyHssGroupSubscriptions
  tags:
    - HSS Event Subscription Info (Document)
  parameters:
    - name: externalGroupId
     in: path
     required: true
       $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
        $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'
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
      description: modification is rejected
       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'
    15021:
      $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      $ref: 'TS29571_CommonData.yaml#/components/responses/503'
    default:
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/default'
 get:
   summary: Retrieve HSS Subscription Info
   operationId: GetHssGroupSubscriptions
   tags:
      - HSS Event Subscription Info (Document)
   parameters:
      - name: externalGroupId
       in: path
       required: true
       schema:
         $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
       in: path
       required: true
       schema:
         type: string
   responses:
      '200':
       description: OK
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/HssSubscriptionInfo'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
       $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'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
     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: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      - name: ucPurpose
       in: query
       description: User consent purpose
          $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/UcPurpose'
      - name: If-None-Match
       in: header
```

```
description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
         description: OK
          content:
            application/json:
              schema:
               $ref: '#/components/schemas/UcSubscriptionData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
               type: string
            ETaq:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
             schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
          $ref: 'TS29571 CommonData.vaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        500:
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/time-sync-data:
      summary: Retrieves the time synchronization subscription data of a UE
      operationId: QueryTimeSyncSubscriptionData
      tags:
       - TimeSyncSubscriptionData (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: ueId
          in: path
         description: UE id
         required: true
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
         in: query
          description: Supported Features
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
```

```
description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
           type: string
      responses:
        '200':
         description: Expected response to a valid request
          content:
            application/json:
              schema:
               $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/TimeSyncSubscriptionData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
               type: string
            ETaq:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
             schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
          $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'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        500:
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          description: Unexpected error
  /subscription-data/group-data/mbs-group-membership:
      summary: Retrieves the data of a 5G MBS Group
      operationId: Query5GmbsGroup
      tags:
       - 5G-MBS-Group (Store)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: gpsis
          in: query
          description: List of GPSIs
          schema:
            type: array
           items:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
          style: form
          explode: false
      responses:
          description: Expected response to a valid request
          content:
```

```
application/json:
            schema:
            type: object
             description: A map(list of key-value pairs) where ExtGroupId serves as key
            additionalProperties:
              $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/MulticastMbsGroupMemb'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571 CommonData.vaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
      500:
       $ref: 'TS29571 CommonData.yaml#/components/responses/500'
      '502':
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/mbs-group-membership/{externalGroupId}:
   summary: Create an individual 5G MBS Groupp
    operationId: Create5GmbsGroup
   tags:
      - MulticastMbsGroupMemb (Document)
    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'
   requestBody:
      content:
       application/json:
           $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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '411':
       $ref: 'TS29571 CommonData.yaml#/components/responses/411'
      '413':
        $ref: 'TS29571_CommonData.yaml#/components/responses/413'
      '415':
       $ref: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571_CommonData.yaml#/components/responses/500'
      '502':
```

```
$ref: 'TS29571_CommonData.yaml#/components/responses/502'
     $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
       $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
  responses:
    '204':
     description: Expected response to a successful group removal
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '429':
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    '500':
     $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    '502':
      $ref: 'TS29571_CommonData.yaml#/components/responses/502'
      $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: 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'
    '400':
     $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     description: modification is rejected
     content:
       application/problem+json:
          schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
     411':
     $ref: 'TS29571_CommonData.yaml#/components/responses/411'
    '413':
     $ref: 'TS29571_CommonData.yaml#/components/responses/413'
    '415':
     $ref: 'TS29571_CommonData.yaml#/components/responses/415'
    '429':
      $ref: 'TS29571_CommonData.yaml#/components/responses/429'
     $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'
aet:
  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.vaml#/components/responses/400'
    '401':
     $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '406':
     $ref: 'TS29571_CommonData.yaml#/components/responses/406'
    '429':
     $ref: 'TS29571_CommonData.yaml#/components/responses/429'
    '500':
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
    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/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
             additionalProperties:
              $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/MulticastMbsGroupMemb'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571 CommonData.vaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
       $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $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
      - Parameter Provision profile Data for 5G MBS Group(Document)
   security:
     - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ext-group-ids
       in: query
       description: List of external MBS group identifiers
       schema:
         type: array
         items:
           $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
         minItems: 1
       style: form
       explode: false
      - name: supported-features
```

```
in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/Pp5gMbsGroupProfileData'
      '400':
       $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
      '429':
        $ref: 'TS29571_CommonData.yaml#/components/responses/429'
       $ref: 'TS29571 CommonData.vaml#/components/responses/500'
      15021:
       $ref: 'TS29571_CommonData.yaml#/components/responses/502'
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ranging-slpos-data:
   summary: Retrieves the subscribed Ranging and Sidelink Positioning service Data of a UE
    operationId: QueryRangingSlPosData
   tags:
      - Ranging and Sidelink Positioning Service Subscription Data
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE id
       required: true
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
      - name: supported-features
        in: query
       description: Supported Features
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      - name: If-None-Match
       in: header
       description: Validator for conditional requests, as described in RFC 9110, 13.1.2
       schema:
         type: string
      - name: If-Modified-Since
       in: header
       description: Validator for conditional requests, as described in RFC 9110, 13.1.3
       schema:
         type: string
   responses:
      '200':
       description: OK
       content:
         application/json:
           schema:
              $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/RangingSlPosSubscriptionData'
           description: Cache-Control containing max-age, as described in RFC 9111, 5.2
            schema:
```

```
type: string
            ETag:
             description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
               type: string
        '400':
         $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
         $ref: 'TS29571_CommonData.yaml#/components/responses/401'
         $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
         $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
         $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
         $ref: 'TS29571 CommonData.vaml#/components/responses/500'
        15021:
         $ref: 'TS29571_CommonData.yaml#/components/responses/502'
         $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/a2x-data:
      summary: Retrieves the subscribed A2X Data of a UE
      operationId: QueryA2xData
      tags:
        - A2X Subscription Data
      security:
       - {}
        - oAuth2ClientCredentials:
         - nudr-dr
        - oAuth2ClientCredentials:
         - nudr-dr
         - nudr-dr:subscription-data
      parameters:
        name: ueId
         in: path
         description: UE id
         required: true
         schema:
           $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        - name: supported-features
          in: query
         description: Supported Features
         schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
         in: header
         description: Validator for conditional requests, as described in RFC 9110, 13.1.2
         schema:
           type: string
        - name: If-Modified-Since
         in: header
         description: Validator for conditional requests, as described in RFC 9110, 13.1.3
         schema:
           type: string
      responses:
        '200':
         description: OK
          content:
           application/json:
             schema:
                $ref: '#/components/schemas/A2xSubscriptionData'
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
```

```
type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
9110, 8.8.2
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
          $ref: 'TS29571_CommonData.yaml#/components/responses/401'
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
        '406':
          $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
          $ref: 'TS29571_CommonData.yaml#/components/responses/429'
          $ref: 'TS29571 CommonData.vaml#/components/responses/500'
        15021:
          $ref: 'TS29571_CommonData.yaml#/components/responses/502'
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/rangingsl-privacy-data:
      summary: Retrieves the Ranging and Sidelink Positioning Privacy subscription data of a UE
      operationId: QueryRangingSlPrivacyData
      tags:
        - Ranging and Sidelink Positioning 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
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 9110, 13.1.3
          schema:
            type: string
```

```
responses:
        '200':
         description: Expected response to a valid request
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/RangingSlPrivacyData'
         headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 9111, 5.2
              schema:
                type: string
            ETaq:
              description: Entity Tag, containing a strong validator, as described in RFC 9110,
8.8.3
             schema:
               type: string
           Last-Modified:
              description: >
               Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2
              schema:
               type: string
        '400':
          $ref: 'TS29571_CommonData.yaml#/components/responses/400'
        '401':
         $ref: 'TS29571_CommonData.yaml#/components/responses/401'
        '403':
         $ref: 'TS29571_CommonData.yaml#/components/responses/403'
         $ref: 'TS29571 CommonData.yaml#/components/responses/404'
        '406':
         $ref: 'TS29571_CommonData.yaml#/components/responses/406'
        '429':
         $ref: 'TS29571_CommonData.yaml#/components/responses/429'
        '500':
          $ref: 'TS29571_CommonData.yaml#/components/responses/500'
         $ref: 'TS29571_CommonData.yaml#/components/responses/502'
        '503':
         $ref: 'TS29571_CommonData.yaml#/components/responses/503'
         $ref: 'TS29571_CommonData.yaml#/components/responses/default'
components:
 schemas:
   AuthenticationSubscription:
     description: A UE's authentication data.
      type: object
      required:
       - authenticationMethod
     properties:
       authenticationMethod:
         $ref: '#/components/schemas/AuthMethod'
        encPermanentKey:
         type: string
       protectionParameterId:
         type: string
        sequenceNumber:
         $ref: '#/components/schemas/SequenceNumber'
        authenticationManagementField:
         type: string
         pattern: '^[A-Fa-f0-9]{4}$'
       algorithmId:
         type: string
        encOpcKey:
         type: string
        encTopcKey:
         type: string
        vectorGenerationInHss:
          type: boolean
         default: false
       hssGroupId:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
        n5qcAuthMethod:
          $ref: '#/components/schemas/AuthMethod'
        rgAuthenticationInd:
         type: boolean
         default: false
```

```
$ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
    akmaAllowed:
     type: boolean
     default: false
   routingId:
     type: string
     pattern: '^[0-9]{1,4}$'
   nswoAllowed:
     type: boolean
     default: false
    5qKeyHierarSupp:
     type: boolean
     default: true
SequenceNumber:
  description: Contains the SQN.
  type: object
 properties:
   sqnScheme:
     $ref: '#/components/schemas/SqnScheme'
    sqn:
     type: string
     pattern: '^[A-Fa-f0-9]{12}$'
   lastIndexes:
     type: object
      additionalProperties:
       type: integer
       minimum: 0
       description: A map(list of key-value pairs) where type of node serves as key
    indLength:
     type: integer
     minimum: 0
    difSign:
     $ref: '#/components/schemas/Sign'
SqnScheme:
  description: Scheme for generation of Sequence Numbers.
  anyOf:
    - type: string
     enum:
       - GENERAL
       - NON TIME BASED
       - TIME_BASED
   - type: string
Sign:
 description: Sign of the DIF value.
  type: string
  enum:
   - POSITIVE
    - NEGATIVE
VarPlmnId:
  description: PLMN Id (MCC, MNC) or SNPN Id (MCC, MNC, NID).
 pattern: '^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$'
ProvisionedDatasetNames:
 description: The list of names of data sets.
  type: array
  items:
   $ref: '#/components/schemas/ProvisionedDataSetName'
 minItems: 1
 uniqueItems: true
ProvisionedDataSetName:
  description: The name of data set.
  anvOf:
  - type: string
   enum:
   - AM
   - SMF_SEL
   - SMS_SUB
   - SM
    - TRACE
    - SMS_MNG
    - LCS_PRIVACY
    - LCS_MO
    - LCS_BCA
    - LCS_SUB
```

```
- V2X
    - PROSE
   - ODB
   - EE_PROF
    - PP_PROF
    - NIDD_AUTH
    - USER_CONSENT
   - MBS
   - PP_DATA
    - A2X
    - RANGINGSL_PRIVACY
  - type: string
UeSubscribedDatasetNames:
 description: The list of names of data sets.
  type: array
  items:
    $ref: '#/components/schemas/UeSubscribedDataSetName'
 minItems: 1
 uniqueItems: true
UeSubscribedDataSetName:
  description: All values defined as ProvisionedDataSetName or ContextDataSetName are applicable
 anyOf:
  - $ref: '#/components/schemas/ContextDataSetName'
  - $ref: '#/components/schemas/ProvisionedDataSetName'
  - type: string
   enum:
    - UE_UPD_CONF
ProvisionedDataSets:
  description: Contains the provisioned data sets.
  type: object
 properties:
   amData:
     $ref: '#/components/schemas/AccessAndMobilitySubscriptionData'
    smfSelData:
     $ref: '#/components/schemas/SmfSelectionSubscriptionData'
    smsSubsData:
     $ref: '#/components/schemas/SmsSubscriptionData'
    smData:
     $ref: '#/components/schemas/SmSubsData'
    traceData:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
    smsMnqData:
     $ref: '#/components/schemas/SmsManagementSubscriptionData'
    lcsPrivacyData:
      $ref: '#/components/schemas/LcsPrivacyData'
    lcsMoData:
     $ref: '#/components/schemas/LcsMoData'
    lcsSubscriptionData:
     $ref: '#/components/schemas/LcsSubscriptionData'
    lcsBcaData:
     $ref: '#/components/schemas/LcsBroadcastAssistanceTypesData'
    v2xData:
     $ref: '#/components/schemas/V2xSubscriptionData'
    proseData:
     $ref: '#/components/schemas/ProseSubscriptionData'
    odbData:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/OdbData'
    eeProfileData:
     $ref: '#/components/schemas/EeProfileData'
   ppProfileData:
      $ref: '#/components/schemas/PpProfileData'
    niddAuthData:
     $ref: '#/components/schemas/AuthorizationData'
    ucData:
      $ref: '#/components/schemas/UcSubscriptionData'
    mbsSubscriptionData:
     $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/MbsSubscriptionData'
    ppData:
     $ref: '#/components/schemas/PpData'
    a2xData:
      $ref: '#/components/schemas/A2xSubscriptionData'
    rangingSlPrivacyData:
     $ref: '#/components/schemas/RangingSlPrivacyData'
```

```
AccessAndMobilitySubscriptionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/AccessAndMobilitySubscriptionData'
SmfSelectionSubscriptionData:
 $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SmfSelectionSubscriptionData'
VarSnssai:
 $ref: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
Dnn:
  $ref: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
{\tt SmSubsData:}
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SmSubsData'
Amf3GppAccessRegistration:
  $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/Amf3GppAccessRegistration'
AmfNon3GppAccessRegistration:
  $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/AmfNon3GppAccessRegistration'
SmfRegistration:
 $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/SmfRegistration'
SmsfRegistration:
  $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/SmsfRegistration'
LocationInfo:
 $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/LocationInfo'
SmsManagementSubscriptionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SmsManagementSubscriptionData'
SmsSubscriptionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SmsSubscriptionData'
LcsPrivacyData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/LcsPrivacyData'
LcsMoData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/LcsMoData'
LcsSubscriptionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/LcsSubscriptionData'
A2xSubscriptionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/A2xSubscriptionData'
RangingSlPrivacyData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/RangingSlPrivacyData'
AuthorizationData:
 description: NIDD Authorization Information
  required:
   - authorizationData
 properties:
   authorizationData:
     type: array
      items:
        $ref: 'TS29503_Nudm_NIDDAU.yaml#/components/schemas/UserIdentifier'
      minItems: 1
      uniqueItems: true
    allowedDnnList:
      type: array
      items:
          - - $ref: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
          - $ref: 'TS29571_CommonData.yaml#/components/schemas/WildcardDnn'
    allowedSnssaiList:
      type: array
      items:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    allowedMtcProviders:
      type: array
      items:
        $ref: '#/components/schemas/MtcProvider'
    validityTime:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
EnhancedCoverageRestrictionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/EnhancedCoverageRestrictionData'
V2xSubscriptionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/V2xSubscriptionData'
ProseSubscriptionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ProseSubscriptionData'
UcSubscriptionData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/UcSubscriptionData'
LcsBroadcastAssistanceTypesData:
  $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/LcsBroadcastAssistanceTypesData'
OperatorSpecificDataContainer:
  description: Container for operator specific data.
  type: object
  required:
    - dataType
    - value
```

```
properties:
    dataType:
     type: string
      enum:
        - string
        - integer
        - number
        - boolean
        - object
        - array
    dataTypeDefinition:
     type: string
    value: {}
    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.yam1#/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
  items:
   $ref: '#/components/schemas/SmfRegistration'
SubscriptionDataSubscriptions:
  description: A subscription to notifications.
  type: object
 required:
    - monitoredResourceUris
    - callbackReference
  properties:
   ueId:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
    callbackReference:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    originalCallbackReference:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    monitoredResourceUris:
      type: array
      items:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    expirv:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    sdmSubscription:
     $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SdmSubscription'
    hssSubscriptionInfo:
     $ref: '#/components/schemas/HssSubscriptionInfo'
    subscriptionId:
     type: string
    uniqueSubscription:
     type: boolean
    supportedFeatures:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    immediateReport:
     type: boolean
```

```
default: false
        report:
          $ref: '#/components/schemas/ImmediateReport'
        additionalDataRefs:
          type: array
          items:
            $ref: '#/components/schemas/AdditionalDataRef'
    AdditionalDataRef:
      description: References to additional data requested to be sent in notifications
      type: object
      required:
        - monitoredResourceUris
        - additionalDataUris
      properties:
       monitoredResourceUris:
          type: array
          items:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/Uri'
          minItems: 1
        additionalDataUris:
          type: array
            $ref: 'TS29571_CommonData.yaml#/components/schemas/Uri'
          minItems: 1
    DataChangeNotify:
     description: Container for data which have changed and notification was requested when
changed.
      type: object
      properties:
       originalCallbackReference:
          type: array
          items:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/Uri'
        ueId:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
        notifyItems:
          type: array
          items:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/NotifyItem'
          minItems: 1
        sdmSubscription:
          $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SdmSubscription'
        additionalSdmSubscriptions:
          type: array
          items:
            $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SdmSubscription'
          minItems: 1
        subscriptionDataSubscriptions:
          type: array
          items:
            $ref: '#/components/schemas/SubscriptionDataSubscriptions'
        additionalData:
          description: A map (list of key-value pairs where URI serves as key) of Any Type.
          type: object
          additionalProperties: {}
          minProperties: 1
    IdentityData:
      description: Identity data corresponds to the provided ueId.
      type: object
      properties:
        supiList:
          type: array
            $ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
          minItems: 1
        gpsiList:
          type: array
            $ref: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
          minItems: 1
        allowedAfIds:
          type: array
          items:
            type: string
```

```
minItems: 1
    applicationPortIds:
     description: A map (list of key-value pairs where AppPortId serves as key) of GPSIs.
     type: object
     additionalProperties:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
     minProperties: 1
    afIdGpsis:
      description: >
       A map (list of key-value pairs where AF ID serves as key) of GPSIs.
      type: object
     additional Properties:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
     minProperties: 1
   mtcProviderGpsis:
     description: >
       A map (list of key-value pairs where MTC Provider Information serves as key)
       of GPSIs.
      type: object
      additional Properties:
       $ref: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
     minProperties: 1
UeUpdConfData:
  description: The complete UE Update Confirmation Data.
  type: object
 properties:
   sorData:
     $ref: '#/components/schemas/SorData'
   upuData:
     $ref: '#/components/schemas/UpuData'
    nssaiAckData:
     $ref: '#/components/schemas/NssaiAckData'
    caqAckData:
     $ref: '#/components/schemas/CagAckData'
SorData:
  description: Used to store the status of the latest SOR data update.
  type: object
 properties:
   provisioningTime:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
   ueUpdateStatus:
     $ref: '#/components/schemas/UeUpdateStatus'
   sorXmacIue:
     $ref: 'TS29509_Nausf_SoRProtection.yaml#/components/schemas/SorMac'
    sorMacIue:
     $ref: 'TS29509_Nausf_SoRProtection.yaml#/components/schemas/SorMac'
   meSupportOfSorCmci:
     type: boolean
   meSupportOfSorSnpnSi:
     type: boolean
      default: false
   meSupportOfSorSnpnSiLs:
     type: boolean
     default: false
  required:
    - provisioningTime
    - ueUpdateStatus
UpuData:
  description: Used to store the status of the latest UPU data update.
  type: object
 properties:
   provisioningTime:
     $ref: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    ueUpdateStatus:
     $ref: '#/components/schemas/UeUpdateStatus'
    upuXmacIue:
      $ref: 'TS29509_Nausf_UPUProtection.yaml#/components/schemas/UpuMac'
    upuMacIue:
     $ref: 'TS29509_Nausf_UPUProtection.yaml#/components/schemas/UpuMac'
  required:
    - provisioningTime
    - ueUpdateStatus
NssaiAckData:
  description: Used to store the status of the latest NSSAI data update.
```

```
type: object
      properties:
        provisioningTime:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
        ueUpdateStatus:
         $ref: '#/components/schemas/UeUpdateStatus'
      required:
        - provisioningTime
        - ueUpdateStatus
    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:
        provisioningTimeueUpdateStatus
    UeUpdateStatus:
      description: Status of the procedure.
      type: string
      enum:
        - NOT_SENT
        - SENT_NO_ACK_REQUIRED
        - WAITING_FOR_ACK
        - ACK RECEIVED
        - NEGATIVE_ACK_RECEIVED
    EeProfileData:
      description: Event Exposure Profile Data.
      type: object
      properties:
        restrictedEventTypes:
          type: array
          items:
            $ref: 'TS29503_Nudm_EE.yaml#/components/schemas/EventType'
        supportedFeatures:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        allowedMtcProvider:
          description: A map (list of key-value pairs where EventType serves as key) of MTC provider
lists. In addition to defined EventTypes, the key value "ALL" may be used to identify a map entry
which contains a list of MtcProviders that are allowed monitoring all Event Types.
          type: object
          additionalProperties:
            type: array
            items:
              $ref: '#/components/schemas/MtcProvider'
            minTtems: 1
          minProperties: 1
        iwkEpcRestricted:
          type: boolean
          default: false
        imsi:
          type: string
          pattern: '^[0-9]{5,15}$'
        hssGroupId:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
    AmfSubscriptionInfo:
      description: Information the UDR stores and retrieves related to active subscriptions at the
AMF(s).
      type: object
      required:
        - amfInstanceId
        - subscriptionId
      properties:
        amfInstanceId:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
        subscriptionId:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/Uri'
        subsChangeNotifyCorrelationId:
         type: string
        contextInfo:
          $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ContextInfo'
```

UE.

```
ContextDatasetNames:
 description: The name of context data set.
  type: array
  items:
    $ref: '#/components/schemas/ContextDataSetName'
 minItems: 2
 uniqueItems: true
ContextDataSetName:
 anyOf:
  - type: string
   enum:
    - AMF 3GPP
    - AMF_NON_3GPP
    - SDM_SUBSCRIPTIONS
    - EE_SUBSCRIPTIONS
    - SMSF_3GPP
    - SMSF_NON_3GPP
    - SUBS_TO_NOTIFY
    - SMF_REG
    - IP SM GW
    - ROAMING_INFO
    - PEI_INFO
  - type: string
ContextDataSets:
  description: Contains the context data sets.
  type: object
 properties:
   amf3Gpp:
     $ref: '#/components/schemas/Amf3GppAccessRegistration'
    amfNon3Gpp:
     $ref: '#/components/schemas/AmfNon3GppAccessRegistration'
    sdmSubscriptions:
     type: array
      items:
        $ref: '#/components/schemas/SdmSubscription'
     minItems: 1
    eeSubscriptions:
     type: array
      items:
        $ref: '#/components/schemas/EeSubscription'
     minItems: 1
    smsf3GppAccess:
      $ref: '#/components/schemas/SmsfRegistration'
    smsfNon3GppAccess:
     $ref: '#/components/schemas/SmsfRegistration'
    subscriptionDataSubscriptions:
     type: array
      items:
        $ref: '#/components/schemas/SubscriptionDataSubscriptions'
     minItems: 1
    smfRegistrations:
      $ref: '#/components/schemas/SmfRegList'
     $ref: '#/components/schemas/IpSmGwRegistration'
    roamingInfo:
     $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/RoamingInfoUpdate'
    peiInfo:
     $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/PeiUpdateInfo'
IpSmGwRegistration:
  $ref: 'TS29503_Nudm_UECM.yaml#/components/schemas/IpSmGwRegistration'
MessageWaitingData:
  description: Message Waiting Data list.
  type: object
 properties:
   mwdList:
      type: array
      items:
        $ref: '#/components/schemas/SmscData'
     minItems: 1
 description: Addresses of SM-Service Center entities with SMS wating to be delivered to the
  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
        $ref: 'TS29503_Nudm_EE.yaml#/components/schemas/EventType'
   allowedMtcProvider:
```

```
description: A map (list of key-value pairs where EventType serves as key) of MTC provider
lists. In addition to defined EventTypes, the key value "ALL" may be used to identify a map entry which contains a list of MtcProviders that are allowed monitoring all Event Types.
                    type: object
                    additionalProperties:
                        type: array
                        items:
                            $ref: '#/components/schemas/MtcProvider'
                        minItems: 1
                    minProperties: 1
                supportedFeatures:
                        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
                iwkEpcRestricted:
                    type: boolean
                   default: false
                extGroupId:
                    type: string
                    pattern: '^extgroupid-[^@]+@[^@]+$'
                hssGroupId:
                    $ref: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
        Pp5gVnGroupProfileData:
            type: object
            properties:
                allowedMt.cProviders:
                    description: A map (list of key-value pairs where external VN group identifier serves as
key) of AllowedMtcProviderInfo lists. In addition to defined external VN group identifier, the key
value "ALL" may be used to identify a map entry which contains a list of AllowedMtcProviderInfo that
are allowed operating all the external group identifiers.
                    type: object
                    additionalProperties:
                        type: array
                        items:
                            $ref: '#/components/schemas/AllowedMtcProviderInfo'
                        minItems: 1
                   minProperties: 1
                supportedFeatures:
                        $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        PpProfileData:
            type: object
            properties:
                allowedMtcProviders:
                   description: A map (list of key-value pairs where PpDataType serves as key) of
AllowedMtcProviderInfo lists. In addition to defined PpDataType, the key value "ALL" may be used to
identify a map entry which contains a list of AllowedMtcProviderInfo that are allowed to provision
all types of the PP data for the user using UDM ParameterProvision service.
                    type: object
                    additionalProperties:
                       type: array
                        items:
                           $ref: '#/components/schemas/AllowedMtcProviderInfo'
                        minItems: 1
                   minProperties: 1
                supportedFeatures:
                        \verb| $ref: 'TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml\#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | 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
        AllowedMtcProviderInfo:
            type: object
            properties:
                mtcProviderInformation:
                   $ref: 'TS29571_CommonData.yaml#/components/schemas/MtcProviderInformation'
                   type: string
        PpDataType:
            anyOf:
            - type: string
                enum:
                - COMMUNICATION_CHARACTERISTICS
                - EXPECTED_UE_BEHAVIOUR
                - EC_RESTRICTION
                - ACS_INFO
                - TRACE
                - STN_SR
                - LCS_PRIVACY
                - SOR_INFO
                - RANGINGSL_PRIVACY
```

```
- type: string
GroupIdentifiers:
  description: External or Internal Group Identifier with a list of group members
  type: object
  properties:
    extGroupId:
      $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/ExtGroupId'
    intGroupId:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/GroupId'
    ueIdList:
      type: array
      items:
        $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/UeId'
      minItems: 1
    allowedAfIds:
      type: array
      items:
        type: string
      minItems: 1
NiddAuthorizationInfo:
  description: Information related to active NIDD Authorizations
  type: object
  required:
    - niddAuthorizationList
  properties:
   niddAuthorizationList:
      type: array
      items:
        $ref: 'TS29503_Nudm_NIDDAU.yaml#/components/schemas/AuthorizationInfo'
      minItems: 1
PpDataEntryList:
  description: Contains a list of the Provisioned Parameters entries
  type: object
  properties:
   ppDataEntryList:
      type: array
      items:
       $ref:
              'TS29503_Nudm_PP.yaml#/components/schemas/PpDataEntry'
    supportedFeatures:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
UeSubscribedDataSets:
  description: Contains the subscribed data sets of a UE.
  allOf:
    - $ref: '#/components/schemas/ProvisionedDataSets'
    - $ref: '#/components/schemas/ContextDataSets'
    - $ref: '#/components/schemas/UeUpdConfData'
ServiceSpecificAuthorizationInfo:
  description: Information related to active Service Specific Authorizations
  type: object
  required:
    - serviceSpecificAuthorizationList
  properties:
    serviceSpecificAuthorizationList:
      description: >
       A map (list of key-value pairs where authId serves as key) of AuthorizationInfo
      type: object
      additionalProperties:
        $ref: 'TS29503_Nudm_NIDDAU.yaml#/components/schemas/AuthorizationInfo'
      minProperties: 1
NfIdentifier:
  type: object
  required:
    - nfType
  properties:
    nfType:
      $ref: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/NFType'
    nfInstanceId:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
EeSubscriptionExt:
  allOf:
    - $ref: 'TS29503_Nudm_EE.yaml#/components/schemas/EeSubscription'
```

- \$ref: '#/components/schemas/AdditionalEeSubsInfo'

```
AdditionalEeSubsInfo:
      type: object
      properties:
        amfSubscriptionInfoList:
          type: array
          items:
            $ref: '#/components/schemas/AmfSubscriptionInfo'
          minItems: 1
          maxItems: 2
        smfSubscriptionInfo:
          $ref: '#/components/schemas/SmfSubscriptionInfo'
        hssSubscriptionInfo:
          $ref: '#/components/schemas/HssSubscriptionInfo'
    ImmediateReport:
      oneOf:
        - $ref: '#/components/schemas/ProvisionedDataSets'
        - type: array
          items:
            $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SharedData'
          minItems: 0
    Pp5gMbsGroupProfileData:
      type: object
      properties:
        allowedMbsInfos:
          description: A map (list of key-value pairs where external VN group identifier serves as
key) of AllowedMbsInfos lists. In addition to defined external MBS group identifier, the key value
"ALL" may be used to identify a map entry which contains a list of AllowedMbsInfo that are allowed
operating all the external group identifiers.
          type: object
          additionalProperties:
            type: array
            items:
              $ref: '#/components/schemas/AllowedMbsInfo'
           minItems: 1
          minProperties: 1
        supportedFeatures:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    AllowedMbsInfo:
      type: object
      properties:
       afId:
          type: string
    TraceDataOrSharedTraceDataId:
        - $ref: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
        - $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SharedDataId'
```

## Annex B (informative): Change history

						Change history	
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2018-01	CT4#82					TS skeleton of Usage of the Unified Data Repository service for Subscription Data	0.0.0
2018-01	CT4#82	C4-181397				Version after CT4#82 including agreed pCRs	0.1.0
2018-03	CT4#83	C4-182442				Version after CT4#83 including agreed pCRs	0.2.0
2018-04	CT4#84	C4-183523				Version after CT4#84 including agreed pCRs	0.3.0
2018-05	CT4#85	C4-184638				Version after CT4#85 including agreed pCRs	0.4.0
2018-06 2018-06	CT#80 CT#80	CP-181103				Presented for information and approval Approved in CT#80.	1.0.0 15.0.0
2018-06	CT#80	CP-182058	0004	1_	F	Path Segment Correction	15.0.0
2018-09	CT#81	CP-182058	0004	-	F	URI variables for the Resource OperatorSpecificData	15.1.0
2018-09	CT#81	CP-182058	0008	-	F	Formatting of query parameter	15.1.0
2018-09	CT#81	CP-182212	0009	2	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 CP-182058	0013 0012	2	F F	VarUeld used in TS 29.505	15.1.0
2018-09 2018-09	CT#81 CT#81	CP-182058	0012	1	F	OpenAPI schema for SubscriptionData Supported Features Negotiation	15.1.0 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	ļ-	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 2018-12	CT#82 CT#82	CP-183016 CP-183016	0029 0025	2	F F	29505 CR cardinality  Clarification of contents of SUPI list	15.2.0 15.2.0
2018-12	CT#82	CP-183016	0025	-	F	Cache control and conditional request header addition	15.2.0
2018-12	CT#82	CP-183016	0032	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 CP-183159	0028	3	F F	Definition of Authentication Data for steering of roaming	15.2.0
2018-12 2018-12	CT#82 CT#82	CP-183160	0027 0020	4 5	F	Definition of Authentication Status  Definition of Authentication data	15.2.0 15.2.0
2018-12	CT#82	CP-183187	0020	3	F	Get multiple datasets for ProvisionedData	15.2.0
2018-12	CT#82	CP-183249	0042	-	F	Corrections on openAPI	15.2.0
2019-03	CT#83	CP-190179	0043		F	CR 0019r1 was not correctly implemented	15.3.0
2019-03	CT#83	CP-190179	0044		F	CR 0020r5 was not correctly implemented	15.3.0
2019-03	CT#83	CP-190179	0045		F	CR 0021r1 was not correctly implemented	15.3.0
2019-03	CT#83	CP-190179	0046		F	CR 0023r3 was not correctly implemented	15.3.0
2019-03	CT#83	CP-190179	0047		F	CR 0038r2 was not correctly implemented	15.3.0
2019-03 2019-03	CT#83 CT#83	CP-190179 CP-190179	0048 0049		F F	CR 0039r1 was not correctly implemented CR 0040r1 was not correctly implemented	15.3.0 15.3.0
2019-03	CT#83	CP-190179 CP-190179	0049		F	Correction of annex B	15.3.0
2019-03	CT#83	CP-190179	0050	2	F	Clarification on use of PUT	15.3.0
2019-03	CT#83	CP-190179	0054	Ė	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 2019-03	CT#83 CT#83	CP-190179 CP-190168	0061 0062	2	F	SOR data update status 3GPP TS 29.505 API version update	15.3.0 15.3.0
2019-03	CT#84	CP-190108	0062		F	CR 0049 was not correctly implemented	15.3.0
2019-06	CT#84	CP-191032	0066		F	CR 0050 was not correctly implemented	15.4.0
2019-06	CT#84	CP-191032	0067		F	CR 0054 was not correctly implemented	15.4.0
2019-06	CT#84	CP-191032	0068		F	CR 0056r1 was not correctly implemented	15.4.0
2019-06	CT#84	CP-191032	0070		F	Update of the SubsToNotify	15.4.0
2019-06	CT#84	CP-191032	0071		F	Update of the EESubscription	15.4.0
2019-06	CT#84	CP-191032	0064	1	F	Update Individual Subscription	15.4.0
2019-06	CT#84	CP-191032	0072	1	F	missing enties of data type summary table	15.4.0 15.4.0
2019-06	CT#84	CP-191032	0073	1	lF	correction on operationId	

		ı	1	1		Occurred the OFT Democrat Desired	<u> </u>
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
	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
	CT#84	CP-191032	0087		F	PduSessionId	15.4.0
2019-06	CT#84	CP-191032	0063	2	F	UE Parameter Update (UPU)	15.4.0
2019-06	CT#84	CP-191032	0078	2	F	Group Identifier Translation	15.4.0
2019-06	CT#84	CP-191032	0800	2	F	Authentication Subscription	15.4.0
2019-06	CT#84	CP-191032	0069	2	F	CR 0062r1 was not correctly implemented	15.4.0
2019-06 2019-06	CT#84 CT#84	CP-191032 CP-191032	0088 0089	1	F F	Protection Parameter ID	15.4.0 15.4.0
	CT#84	CP-191032 CP-191032	0083	6	F	Copyright Note in YAML file 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
2019-10	07/:	05.4555			<u> </u>	Corrupted references fixed	16.0.1
2019-12	CT#86	CP-193029	0108	_	Α	Monitored Resurce URI	16.1.0
	CT#86	CP-193029	0263	1	Α	GroupIdentifier resource URI	16.1.0
2019-12 2019-12	CT#86 CT#86	CP-193049 CP-193278	0112 0258	1	B B	Id translation for MSISDN-less MO SMS service NIDD Authorization Data	16.1.0 16.1.0
2019-12	CT#86	CP-193276 CP-193131	0257	1	В	Authentication Subscription Data	16.1.0
	CT#86	CP-193131	0109	2	В	LCS Private	16.1.0
2019-12	CT#86	CP-193055	0110	3	В	Mobile Originated Data	16.1.0
2019-12	CT#86	CP-193063	0105	1	F	DataChangeNotify	16.1.0
	CT#86	CP-193063	0106	1	В	Patch Report	16.1.0
2019-12	CT#86	CP-193063	0259	1	В	Feature Negotiation for OperatorSpecificData resource	16.1.0
2019-12	CT#86	CP-193124	0265	-	F	externalDocs correction	16.1.0
2020-03	CT#87	CP-200018	0269		В	Translation of Group Id to UE identifier list	16.2.0
2020-03	CT#87	CP-200020	0271	1	F	GET Method to subscriptions	16.2.0
2020-03	CT#87	CP-200020	0272		F	Add SMFRegistration to ContextDataSet	16.2.0
2020-03	CT#87	CP-200020	0266	2	F	AuthEvent deletion	16.2.0
2020-03	CT#87	CP-200033	0267	1	В	Retrieve the status of Enhanced Coverage Restriction	16.2.0
2020-03 2020-03	CT#87 CT#87	CP-200020 CP-200052	0268 0273	1	B F	29505 CR optionality of ProblemDetails 3GPP TS 29.505 Rel16 External doc update	16.2.0 16.2.0
2020-03	CT#88-e	CP-200052 CP-201032	0275		В	Location information retrieval for GMLC	16.2.0
2020-06	CT#88-e	CP-201032	0276	1	В	Resource LcsPrivacySubscriptionData	16.3.0
2020-06		CP-201071	0281	'	F	Storage of YAML files in ETSI Forge	16.3.0
	CT#88-e	CP-201049	0283		В	Correction on V2X Subscription data	16.3.0
2020-06	CT#88-e	CP-201033	0285		В	Auth Vector Generation for HSS	16.3.0
2020-06	CT#88-e	CP-201034	0286		В	Resource Level Authorization	16.3.0
2020-06	CT#88-e	CP-201034	0282	1	F	Authentication results for multiple registrations	16.3.0
2020-06	CT#88-e	CP-201032	0288	1	F	Mobile Originated Data retrieval	16.3.0
2020-06	CT#88-e	CP-201048	0280	1	В	N5GC device Authentication	16.3.0
		CP-201033	0287	1	В	Support of SMSoIP	16.3.0
2020-06	CT#88-e	CP-201073	0290	4	F	29.505 Rel16 External doc update	16.3.0
2020-06	CT#88-e	CP-201021	0279	1	A	Correction of PUT responses	16.3.0
2020-09	CT#89-e	CP-202110	0291	-	F	Security for Authentication Subscription Data	16.4.0
2020-09 2020-09	CT#89-e CT#89-e	CP-202110 CP-202110	0294 0295	-	F F	Corrections to default responses  Corrections to the Event Group Subscription	16.4.0 16.4.0
2020-09	CT#89-e	CP-202110 CP-202112	0295	1	F	Store Broadcast Location Assistance Data	16.4.0
2020-09	CT#89-e	CP-202112 CP-202110	0298	+	F	Correct mismatches of definition between table and yaml	16.4.0
2020-09	CT#89-e	CP-202110	0299	1	F	Incorrect index type	16.4.0
2020-09	CT#89-e	CP-202096	0301	1	F	API version and External doc update	16.4.0
2020-09	CT#89-e	CP-202123	0292		В	Resource Level Authorization for SubscriptionData	17.0.0
2020-09	CT#89-e	CP-202123	0293	1	В	Resource Level Authorization for registrations	17.0.0
	CT#89-e	CP-202120	0300		F	API version and External doc update	17.0.0
2020-12	СТ#90-е	CP-203048	0303		Α	Data Removal Notification	17.1.0
2020-12	CT#00 a	CP-203039	0305		Α	Retrieval of SUPI from Authentication Data	17.1.0
	CT#90-e				Α	I Dataine Contact Data	14740
	CT#90-e	CP-203048	0307			Retrieve Context Data	17.1.0
2020-12	СТ#90-е СТ#90-е	CP-203042	0309	1	Α	5G VN Groups	17.1.0
2020-12 2020-12	CT#90-e CT#90-e CT#90-e	CP-203042 CP-203064	0309 0310		A F	5G VN Groups Default Notifications	17.1.0 17.1.0
2020-12 2020-12	СТ#90-е СТ#90-е	CP-203042	0309	1	Α	5G VN Groups	17.1.0

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2020-12	СТ#90-е	CP-203048	0316		Α	Subs-To-Notify Tag Description	17.1.0
2020-12		CP-203048	0318		Α	Snssai query parameter	17.1.0
2020-12	СТ#90-е	CP-203055	0320		F	External doc update	17.1.0
2021-03	CT#91-e	CP-210021	0321	1	F	ContextInfo in AMF SubscriptionInfo	17.2.0
2021-03		CP-210021	0322	1	F	EE Profile Data	17.2.0
2021-03	CT#91-e	CP-210043	0324		Α	Missing requestBody required indication in PUT operations	17.2.0
2021-03	CT#91-e	CP-210021	0325	1	F	HSS Group Id	17.2.0
2021-03	CT#91-e	CP-210034	0326	1	F	Description field for map data types	17.2.0
2021-03	CT#91-e	CP-210048	0328	2	Α	Event Subscription Storage for SMF	17.2.0
2021-03	CT#91-e	CP-210021	0329	_	F	Response 200 OK for SMSF registration	17.2.0
2021-03	CT#91-e	CP-210026	0330	1	В	AKMA Subscription Data	17.2.0
2021-03	CT#91-e	CP-210029	0331		F	29.505 Rel-17 External doc update	17.2.0
2021-06	CT#92-e	CP-211028	0339		F	Resource Structure	17.3.0
2021-06	CT#92-e	CP-211028	0345	_	F	Corrections on reference	17.3.0
2021-06	CT#92-e	CP-211028	0346	1	F	Corrections on Cardinality	17.3.0
2021-06	CT#92-e	CP-211028	0338	1	F F	GroupIdentifiers	17.3.0
2021-06	CT#92-e	CP-211028	0340	1		Response for MWD resource creation	17.3.0
2021-06	CT#92-e	CP-211028	0355		F	Nested cardinality	17.3.0
2021-06	CT#92-e	CP-211028	0358	4	F	Data Types Descriptions	17.3.0
2021-06	CT#92-e	CP-211039	0344	1	В	Store ProSe Subscription Data	17.3.0
2021-06	CT#92-e	CP-211045	0360		F	AmfSubscriptionInfo and SmfSubscriptionInfo creation providing 201 result code	17.3.0
2021-06	CT#92-e	CP-211050	0361		F	29.505 Rel-17 External doc update	17.3.0
2021-06	CT#92-e	CP-211054	0341	3	В	API Extension of PP service for Multiple AFs	17.3.0
2021-06	CT#92-e	CP-211064	0334		Α	Event subscription Storage for HSS	17.3.0
2021-06	CT#92-e	CP-211065	0343		Α	UPU and SOR negative ack	17.3.0
2021-06	CT#92-e	CP-211065	0357	1	Α	Monitored Resource URI	17.3.0
2021-06	CT#92-e	CP-211067	0337		Α	References	17.3.0
2021-06	CT#92-e	CP-211079	0354		Α	Subscribed PP profile data	17.3.0
2021-06	CT#92-e	CP-211079	0350	1	Α	Subscribed EE profile data for a group	17.3.0
2021-06		CP-211079	0352	1	Α	Subscribed PP profile data for 5g-VN-group	17.3.0
2021-09	CT#93-e	CP-212026	0364		F	ContextInfo storage	17.4.0
2021-09	CT#93-e	CP-212026	0368		В	Authorization of Identifier Translation	17.4.0
2021-09	CT#93-e	CP-212026	0370		F	MTC Provider and Application ID in NIDD Authorization Data Retrieval	17.4.0
2021-09	CT#93-e	CP-212026	0375		F	ContextInfo in SmfSubscriptionInfo and HssSubscriptionInfo	17.4.0
2021-09	CT#93-e	CP-212026	0363	1	F	Application Port ID	17.4.0
				+	_		
2021-09	CT#93-e	CP-212026	0367	1	В	Retrieval of odbData as ProvisionedDataSet	17.4.0
2021-09	CT#93-e	CP-212026 CP-212026	0369	1	В	Authorization of Group Identifier Translation	17.4.0 17.4.0
2021-09 2021-09	CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026	0369 0371	1	B F	Authorization of Group Identifier Translation Allow changing NIDD Authorization data	17.4.0 17.4.0 17.4.0
2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026 CP-212026	0369 0371 0372	1 1 1	B F F	Authorization of Group Identifier Translation Allow changing NIDD Authorization data NIDD Authorization data storage	17.4.0 17.4.0 17.4.0 17.4.0
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	0369 0371 0372 0374	1 1 1	B F F B	Authorization of Group Identifier Translation Allow changing NIDD Authorization data NIDD Authorization data storage Batch Fetching of Service Profiles	17.4.0 17.4.0 17.4.0 17.4.0 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	0369 0371 0372 0374 0377	1 1 1 1	B F F B	Authorization of Group Identifier Translation Allow changing NIDD Authorization data NIDD Authorization data storage Batch Fetching of Service Profiles HssSubscriptionInfo creation providing 201 result code	17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0
2021-09 2021-09 2021-09 2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026	0369 0371 0372 0374 0377 0379	1 1 1 1 1 1	B F B F	Authorization of Group Identifier Translation 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 17.4.0 17.4.0
2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049	0369 0371 0372 0374 0377 0379 0380	1 1 1 1 1 1	B F B F F B	Authorization of Group Identifier Translation 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	17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0
2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049	0369 0371 0372 0374 0377 0379 0380 0381	1 1 1 1 1 1	B F B F B B	Authorization of Group Identifier Translation 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	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
2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049 CP-212056	0369 0371 0372 0374 0377 0379 0380 0381	1 1 1 1 1 1	B F B F B B	Authorization of Group Identifier Translation 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	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
2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049 CP-212056 CP-212059	0369 0371 0372 0374 0377 0379 0380 0381 0373	1 1 1 1 1 1	B F F B F B B	Authorization of Group Identifier Translation 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	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
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2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049 CP-212056 CP-212059	0369 0371 0372 0374 0377 0379 0380 0381 0373	1 1 1 1 1 1	B F F B F B B	Authorization of Group Identifier Translation 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	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
2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#94-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049 CP-212056 CP-212059 CP-212063 CP-212064 CP-213085	0369 0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387	1 1 1 1 1 1 1 1 1 1 1 1	B F B F B B F F A A	Authorization of Group Identifier Translation 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	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 17.4.0 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 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#93-e CT#94-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049 CP-212056 CP-212059 CP-212063 CP-212064 CP-213085	0369 0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387	1 1 1 1 1 1 1 1 1 1 1 1	B F B F B B F F A A	Authorization of Group Identifier Translation 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	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 17.4.0 17.4.0 17.4.0
2021-09 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#94-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049 CP-212056 CP-212059 CP-212063 CP-212064 CP-213085	0369 0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387 0390	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B F B F B B F A A	Authorization of Group Identifier Translation 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	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 17.4.0 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 2021-12 2021-12	CT#93-e CT#94-e CT#94-e CT#94-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049 CP-212056 CP-212059 CP-212063 CP-212064 CP-213085 CP-213085	0369 0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387 0390	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B F B F B B F F A A	Authorization of Group Identifier Translation 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	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 17.4.0 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 2021-12 2021-12 2021-12	CT#93-e CT#94-e CT#94-e CT#94-e CT#94-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212049 CP-212056 CP-212059 CP-212063 CP-212064 CP-213085 CP-213085 CP-213085 CP-213086	0369 0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387 0390 0398 0395	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B F B F B B F A A F	Authorization of Group Identifier Translation 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	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 17.4.0 17.4.0 17.5.0 17.5.0 17.5.0
2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-12 2021-12 2021-12	CT#93-e CT#94-e CT#94-e CT#94-e CT#94-e CT#94-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212029 CP-212049 CP-212049 CP-212059 CP-212063 CP-212064 CP-213085 CP-213085 CP-213085	0369 0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387 0390 0398 0395 0389	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B F B F B B F A A F F B	Authorization of Group Identifier Translation 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	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 17.4.0 17.5.0 17.5.0 17.5.0
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2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-12 2021-12 2021-12 2021-12 2021-12 2021-12 2021-12 2021-12 2021-12 2021-12 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-212029 CP-212049 CP-212049 CP-212059 CP-212063 CP-212064 CP-213085 CP-213085 CP-213085 CP-213086 CP-213086 CP-213086 CP-213087 CP-213088	0369 0371 0372 0374 0377 0379 0380 0381 0366 0387 0390 0395 0395 0395 0397 0399 0405 0408	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B F B F B B F A A F B B F B B B B	Authorization of Group Identifier Translation 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	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 17.4.0 17.4.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0
2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-12 2021-12 2021-12 2021-12 2021-12 2021-12 2021-12 2021-12 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-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-213088	0369 0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387 0390 0395 0395 0395 0399 0405	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B F F B B F A A F B B B B A A A A A A A	Authorization of Group Identifier Translation 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	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 17.4.0 17.4.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 17.5.0 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
				1	F		
2022-03	CT#95-e	CP-220066	0428		Г	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	17.7.0
						consumer (PCF)	
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
2022.00	CT#0C -	CD 004000	0404	4	F	Subscribable Resources and Notifiations to Store and Collection	4770
2022-06	CT#96-e	CP-221029	0434	1	г	resources	17.7.0
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	<u> </u>	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-223027	0449		F	URI parameter alignment with yaml definitions	18.0.0
2022-12	CT#98-e	CP-223027	0453		F	Correction on Internal Group Id creation	18.0.0
2022-12	CT#98-e	CP-223027 CP-223029	0450	1	F	Cardinality of SmfRegList alignment with yaml	18.0.0
2022-12	CT#98-e	CP-223029	0451	1	В	Immediate Report	18.0.0
2022-12	CT#98-e	CP-223033	0454		F	29.505 Rel-18 External doc update	18.0.0
2023-03	CT#99	CP-230029	0457		F	Missing Mandatory Status Codes in OpenAPI	18.1.0
2023-03	CT#99	CP-230029	0458		В	Retrieval of Provisioned data and Context data with a single GET	18.1.0
		CF-230029	0430		Ь	request	
2023-03	CT#99	CP-230042	0456	1	В	Time Sync Subscription Data	18.1.0
2023-03	CT#99	CP-230071	0460		F	29.505 Rel-18 External doc update	18.1.0
2023-06	CT#100	CP-231025	0462		F	Adjacent PLMN-ID query param	18.2.0
2023-06	CT#100	CP-231025	0463		F	Multiple data sets retrieval with PP_Data	18.2.0
			0465		В		
2023-06	CT#100	CP-231025				Retrieval of UE Update Confirmation Data	18.2.0
2023-06	CT#100	CP-231025	0467		F	InternalGroupIdentifier in 5GVnGroupConfiguration	18.2.0
2023-06	CT#100	CP-231025	0468		F	5GVnGroup consistency	18.2.0
2023-06	CT#100	CP-231026	0469		В	Additional data in notifications	18.2.0
2023-06	CT#100	CP-231027	0461	1	F	Multiple data sets retrieval with query parameters	18.2.0
2023-06	CT#100	CP-231027	0464	1	F	Shared Trace Data	18.2.0
2023-06	CT#100	CP-231029	0473	1	В	Multiple Data Set retrieval with Etags	18.2.0
2023-06	CT#100	CP-231031	0466	1	В	Storage and Retrieval of LCS Subscription Data	18.2.0
2023-06	CT#100	CP-231052	0474	1	В	Ranging Sidelink Positioning Subscription data	18.2.0
2023-06	CT#100	CP-231070	0475	•	F	29.505 Rel-18 External doc update	18.2.0
2023-00	C1#100	C1 -231070	0473			Update on Multicast MBS group membership management	18.2.0
2023-06	CT#100	CP-231076	0472	2	Α	1 '	10.2.0
0000 00	OT#404	00.0000	0.470		_	parameters	10.0.0
2023-09	CT#101	CP-232033	0478	_	В	SMF registration stale check	18.3.0
2023-09	CT#101	CP-232046	0481	1	В	Subscription data for A2X	18.3.0
2023-09	CT#101	CP-232060	0484		F	29.505 Rel-18 External doc update	18.3.0
2023-12	CT#102	CP-233029	0485	1	В	HTTP RFCs obsoleted by IETF RFC 9110 and 9111	18.4.0
2023-12	CT#102	CP-233031	0489	1	F	Editorial Correction	18.4.0
			0.400	,		Adding Subscription Data for the "ME Support of SOR-SNPN-SI"	18.4.0
2023-12	CT#102	CP-233049	0486	4	В	and "ME Support of SOR-SNPN-SI-LS"	
2023-12	CT#102	CP-233060	0490		F	29.505 Rel-18 External doc update	18.4.0
2024-03	CT#102	CP-240028	0491		F	Node Types in SequenceNumber	18.5.0
	CT#103	CP-240052					
2024-03			0496		В	AUN3 device 5G key hierarchy support indication	18.5.0
2024-03	CT#103	CP-240056	0500		F	29.505 Rel-18 External doc update	18.5.0
2024-03	CT#103	CP-240057	0493		Α	AF-Specific GPSIs	18.5.0
2024-03	CT#103	CP-240057	0495		Α	Usage of AppPortId as map key in Identity Data	18.5.0
2024-03	CT#103	CP-240072	0499	1	Α	Correction to OpenAPI syntax error	18.5.0
2024-06	CT#104	CP-241028	0503	1	F	Incorrect definition of "any type" in OpenAPI	18.6.0
2024-06	CT#104	CP-241028	0506	1	F	Syntax of callbacks	18.6.0
2024-06	CT#104	CP-241045	0507	2	В	UE RangingSL Positioning privacy profile	18.6.0
2024-06	CT#104	CP-241052	0508	-	F	29.505 Rel-18 External doc update	18.6.0
2024-06	CT#104	CP-241032 CP-241062	0505	1		Naming mismatch in the OpenAPI specification	18.6.0
				2	A		
2024-09	CT#105	CP-242039	0519	2	F	IdentityData Clarification	18.7.0
2024-09	CT#105	CP-242054	0521		F	29.505 Rel-18 External doc update	18.7.0
2024-09	CT#105	CP-242056	0513		Α	ServiceSpecificAuthorizationList	18.7.0
2024-09	CT#105	CP-242058	0517		Α	Wrong CR implementation	18.7.0
2024-09	CT#105	CP-242067	0511		Α	UDR control flag for NSWO	18.7.0

## History

Document history						
V18.5.0	May 2024	Publication				
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