**3GPP TSG-CT WG4 Meeting #110-eC4-223xyz**

**E-Meeting, 12th – 20th May 2022 (was C4-223198)**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **29.562** | **CR** | **0107** | **rev** | **1** | **Current version:** | **17.4.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Corrections Nhss\_imsSDM API |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | CT4 |
|  |  |
| ***Work item code:*** | SBIProtoc17 |  | ***Date:*** | 2022-04-25 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | There are several deficiencies in the API description, affecting its overall quality.Some aspects are non-functional and affect only the documentation aspects, such as:- Missing, or wrongly formatted, description fields in reusable schema components- Missing reference to TS 23.218Other aspects are functional, such as:- Query paramter "service-indications" was incorrectly documented in OpenAPI as "serviceIndicationList" (this parameter was added during Rel-17, which is still under development, so the correction is regarded as backwards-compatible)- Data type UeReachabilityNotification contains a wrong data type in one of the attributes- Reuse of IpAddr data type from TS 29.571 (the local type defined in this TS, IpAddress, is identical to the common type form TS 29.571)- Data type ImeiSvInformation is not correctly defined (the attributes are defined as strings, rather than using the specific types defined for them)- In OpenAPI, query parameters in resource "…/cs-domain/location-data" contain data type definitions that are simply booleans, so they don't need to define a specific type for that (also, they are not defined in the main body of the TS) |
|  |  |
| ***Summary of change:*** | - Add missing description fields- Format long description fields according to multi-line format conventions- Correct query parameter "serviceIndicationList"- Correct definition of data type UeReachabilityNotification- Correct definition of data type ImeiSvInformation- Correct definition of resource "…/cs-domain/location-data"- Reuse IpAddr from TS 29.571 |
|  |  |
| ***Consequences if not approved:*** | Multiple issues in the API description, affecting its overal quality. |
|  |  |
| ***Clauses affected:*** | 2, 6.2.3.22.3.1, 6.2.6.1, 6.2.6.3.9, 6.2.6.2.34, 6.2.6.2.35, 6.2.6.2.38, A.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** | This CR introduces backwards-compatible corrections, with impacts on the following APIs:- TS29562\_Nhss\_imsSDM.yaml |
|  |  |
| ***This CR's revision history:*** |  |

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

# 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 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

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

[6] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".

[7] 3GPP TS 29.335: "User Data Repository Access Protocol over the Ud interface; Stage 3".

[8] IETF RFC 7540: "Hypertext Transfer Protocol Version 2 (HTTP/2)".

[9] OpenAPI Initiative, "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.

[10] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[11] IETF RFC 7807: "Problem Details for HTTP APIs".

[12] IETF RFC 6902: "JavaScript Object Notation (JSON) Patch".

[13] 3GPP TS 23.003: "Numbering, addressing and identification".

[14] 3GPP TS 33.203: "Access security for IP-based services".

[15] 3GPP TS 29.503: "Unified Data Management Services; Stage 3".

[16] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces Stage 3".

[17] IETF RFC 4740: "Diameter Session Initiation Protocol (SIP) Application".

[18] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[19] IETF RFC 4412: "Communications Resource Priority for the Session Initiation Protocol".

[20] 3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces;Signalling flows and message contents".

[21] 3GPP TS 29.218: "IP Multimedia (IM) session handling; IM call model; Stage 2".

[22] IETF RFC 3261: "SIP: Session Initiation Protocol".

[23] IETF RFC 8497: "Marking SIP messages to be logged".

[24] 3GPP TS 24.323: "3GPP IP Multimedia Subsystem (IMS) service level tracing Management Object (MO)".

[25] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".

[26] 3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".

[27] IETF RFC 4776: "Dynamic Host Configuration Protocol (DHCPv4 and DHCPv6) Option for Civic Addresses Configuration Information".

[28] IETF RFC 2045: "Multipurpose Internet Mail Extensions(MIME) Part One: Format of Internet Message Bodies".

[29] ETSI ES 283 034: "Network Attachment Sub-System (NASS); e4 interface based on the DIAMETER protocol".

[30] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".

[31] 3GPP TS 23.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2".

[32] 3GPP TS 29.272: "Evolved Packet System; MME and SGSN Related Interfaces Based on Diameter Protocol".

[33] 3GPP TS 29.518: 5G System; Access and Mobility Management Services; Stage 3".

[34] 3GPP TR 21.900: "Technical Specification Group working methods".

[35] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".

[36] 3GPP TS 29.510: "Network Function Repository Services; Stage 3".

[37] 3GPP TS 23.380: "IP Multimedia Subsystem (IMS); IMS Restoration Procedures".

[38] 3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".

[39] 3GPP TS 29.563: "Home Subscriber Server (HSS) services for interworking with Unified Data Management (UDM); Stage 3".

[40] 3GPP TS 33.220: "Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA)".

[41] 3GPP TS 33.223: "Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function".

[xx] 3GPP TS 23.218: "IP Multimedia (IM) session handling; IM call model; Stage 2".

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

6.2.3.22.3.1 GET

This method shall support the URI query parameters specified in table 6.2.3.22.3.1-1.

Table 6.2.3.22.3.1-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 6.2.3.22.3.1-2 and the response data structures and response codes specified in table 6.2.3.22.3.1-3.

Table 6.2.3.22.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 6.2.3.22.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| IpAddr | M | 1 | 200 OK | A response body containing the IP address (IPv4, Ipv6, Ipv6 prefix and/or IPv6 interface identifier) for the user shall be returned. |
| RedirectResponse | O | 0..1 | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing a different URI. The URI shall be an alternative URI of the resource located on an alternative service instance within the same HSS (service) set.  |
| RedirectResponse | O | 0..1 | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing a different URI. The URI shall be an alternative URI of the resource located on an alternative service instance within the same HSS (service) set.  |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:- USER\_NOT\_FOUND- DATA\_NOT\_FOUNDDATA\_NOT\_FOUND indicates that no IP Address is currently allocated for the user. |
| ProblemDetails | O | 0..1 | 403 Forbidden | The "cause" attribute may be used to indicate the following application error:- OPERATION\_NOT\_ALLOWED |

Table 6.2.3.22.3.1-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same HSS (service) set. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target NF (service) instance ID towards which the request is redirected. |

Table 6.2.3.22.3.1-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same HSS (service) set. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target NF (service) instance ID towards which the request is redirected. |

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

#### 6.2.6.1 General

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

Table 6.2.6.1-1 specifies the data types defined for the Nhss\_imsSDM service API.

Table 6.2.6.1-1: Nhss\_imsSDM specific Data Types

|  |  |  |
| --- | --- | --- |
| Data type | Clause defined | Description |
| ScscfCapabilityList | 6.2.6.2.2 | Information about mandatory and optional S-CSCF capabilities  |
| ImsProfileData | 6.2.6.2.4 | User's IMS profile data |
| RepositoryData | 6.2.6.2.7 | Repository Data for the requested Service Indication |
| MsisdnList | 6.2.6.2.8 | List of MSISDNs associated to the IMS public Identity  |
| PublicIdentities | 6.2.6.2.9 | IMS Public Identities which belong to the same Implicit Registration Set (if any) as the requested IMS Public Identity |
| PublicIdentity | 6.2.6.2.10 | IMS Public Identity and the related data (Alias Group Id, IRS default indication, Identity Type) |
| ImsSdmSubscription | 6.2.6.2.11 | A subscription to notifications of data change |
| ImsRegistrationStatus | 6.2.6.2.12 | Registration status of the user. |
| PriorityLevels | 6.2.6.2.13 | Namespaces and priority levels allowed for the IMS public Identity. |
| Ifcs | 6.2.6.2.14 | List of IFCs associated to the IMS public Identity |
| Ifc | 6.2.6.2.15 | Data associated to an individual IFC (Initial Filter Criteria) |
| TriggerPoint | 6.2.6.2.16 | Contains the conditions that should be checked in order to find out if an Application Server should be contacted or not |
| Spt | 6.2.6.2.17 | Contains the data of a Service Point Trigger |
| HeaderSipRequest | 6.2.6.2.18 | Contains a header (and optionally value of the header) in the SIP request |
| SdpDescription | 6.2.6.2.19 | Contains a SDP line (and optionally the value in the line) within the body (if any) of a SIP request |
| ApplicationServer | 6.2.6.2.20 | Application Server which shall be triggered if the conditions of a certain IFC are met, and its associated data |
| ImsLocationData | 6.2.6.2.21 | IMS Location Data (S-CSCF name) |
| ServiceLevelTraceInformation | 6.2.6.2.22 | IMS Service Level Trace Information |
| PsLocation | 6.2.6.2.23 | Location data in PS domain. |
| SgsnLocationData | 6.2.6.2.24 | Location information as retrieved from the SGSN serving node |
| MmeLocationData | 6.2.6.2.25 | Location information as retrieved from the MME serving node |
| AmfLocationData | 6.2.6.2.26 | Location information as retrieved from the AMF serving node |
| TwanLocationData | 6.2.6.2.27 | Location information of the 3GPP AAA Server for Trusted W-LAN Access |
| CsLocation | 6.2.6.2.28 | Location data in CS domain. |
| CsgInformation | 6.2.6.2.29 | Information about a Closed Subscriber Group (CSG) |
| SrvccData | 6.2.6.2.30 | UE SRVCC capability (if available) and STN-SR (if subscribed) |
| PsiActivationState | 6.2.6.2.31 | Public Service Identity activation state |
| ImeiSvInformation | 6.2.6.2.34 | IMEI(SV) information |
|  |  |  |
| TadsInformation | 6.2.6.2.36 | T-ADS Information |
| UeReachabilitySubscription | 6.2.6.2.37 | A subscription to notifications of UE reachability for IP. |
| UeReachabilityNotification | 6.2.6.2.38 | A notification of UE reachability for IP. |
| PsUserState | 6.2.6.2.39 | User state in PS domain |
| CsUserState | 6.2.6.2.40 | User state in CS domain |
| Csrn | 6.2.6.2.41 | CS domain routeing number |
| ReferenceLocationInformation | 6.2.6.2.42 | Reference Location Information for the user in fixed access networks. |
| SmsRegistrationInfo | 6.2.6.2.43 | SMS Registration Information (IP-SM-GW number and SC address) |
| IpSmGwAddress | 6.2.6.2.44 | IP-SM-GW number and diameter URI/realm |
| ImsAssociatedIdentities | 6.2.6.2.45 | A list of identities belonging to the same Implicit Registration Set (IRS), along with the registration state of the IRS |
| DsaiTagInformation | 6.2.6.2.46 | DSAI tag information (list of DSAI tags activation state for an Application Server) |
| DsaiTagStatus | 6.2.6.2.47 | DSAI tag status (DSAI tag and activation state) |
| CreatedUeReachabilitySubscription | 6.2.6.2.48 | A subscription to notifications of UE reachability for IP. |
| PrivateIdentities | 6.2.6.2.49 | IMS Private Identities |
| PrivateIdentity | 6.3.6.2.50 | IMS Private Identity and the related data (e.g. Identity Type) |
| ScscfSelectionAssistanceInformation | 6.2.6.2.51 | Information used by the I-CSCF to select an S-CSCF for the UE |
| ChargingInfo | 6.2.6.2.52 | Diameter addresses of the charging function |
| RepositoryDataList | 6.2.6.2.53 | List of Repository Data for the requested Service Indications |

Table 6.2.6.1-2 specifies data types re-used by the Nhss\_imsSDM service API from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Nhss\_imsSDM.

Table 6.2.6.1-2: Nhss\_imsSDM re-used Data Types

|  |  |  |
| --- | --- | --- |
| Data type | Reference | Comments |
| Uri | 3GPP TS 29.571 [16] | Uniform Resource Identifier |
| SupportedFeatures | 3GPP TS 29.571 [16] | see 3GPP TS 29.500 [4] clause 6.6 |
| ModificationNotification | 3GPP TS 29.503 [15] | Payload of the notification after a data change |
| EutraLocation | 3GPP TS 29.571 [16] | E-UTRAN user location |
| NrLocation | 3GPP TS 29.571 [16] | NR user location |
| PlmnId | 3GPP TS 29.571 [16] | PLMN Identity |
| TimeZone | 3GPP TS 29.571 [16] | Time Zone and Daylight Saving Time |
| UtraLocation | 3GPP TS 29.571 [16] | UTRAN user location |
| GeraLocation | 3GPP TS 29.571 [16] | GERAN user location |
| DiameterIdentity | 3GPP TS 29.571 [16] | Diameter URI |
| NfInstanceId | 3GPP TS 29.571 [16] | String uniquely identifying a NF instance |
| RatType | 3GPP TS 29.571 [16] | RAT type |
| StnSr | 3GPP TS 29.571 [16] | Session Transfer Number for SRVCC |
| PatchItem | 3GPP TS 29.571 [16] | Patch Item |
| PatchResult | 3GPP TS 29.571 [16] | Patch Result |
| IpAddr | 3GPP TS 29.571 [16] | IP address (IPv4 address, IPv6 address, or IPv6 Prefix) |
|  |  |  |
|  |  |  |
| DateTime | 3GPP TS 29.571 [16] | UTC time |
| AccessType | 3GPP TS 29.571 [16] | Type of access |
| ProblemDetails | 3GPP TS 29.571 [16] | Response body of error response messages. |
| RedirectResponse | 3GPP TS 29.571 [16] | Response body of redirect response messages. |

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

##### 6.2.6.3.9 Enumeration: ServiceInformation

The enumeration ServiceInformation indicates the type of additional information to be included in the body of the SIP request towards the Application Server.

Table 6.2.6.3.9-1: Enumeration ServiceInformation

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| "INCLUDE\_REGISTER\_REQUEST" | Indicates to the S-CSCF that the incoming SIP REGISTER request is to be transferred to the Application Server. |  |
| "INCLUDE\_REGISTER\_RESPONSE" | Indicates to the S-CSCF that the final SIP response to the incoming SIP REGISTER request is to be transferred to the Application Server. |  |
| NOTE: See 3GPP TS 23.218 [xx] for the use of this information. |

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

##### 6.2.6.2.34 Type: ImeiSvInformation

Table 6.2.6.2.34-1: Definition of type ImeiSvInformation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| imei | Imei | C | 1 | Indicates the IMEI |
| imeiSv | ImeiSv | C | 1 | Indicates the IMEISV |
| NOTE: Either imei or imeiSv shall be present. |

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

##### 6.2.6.2.35 Void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |

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

##### 6.2.6.2.38 Type: UeReachabilityNotification

Table 6.2.6.2.38-1: Definition of type UeReachabilityNotification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| reachabilityIndicator | boolean | M | 1 | Indicates that the UE has been detected reachable for IP. |
| detectingNode | DetectingNode | M | 1 | Indicates the serving node which detected the UE reachability for IP. |
| accessType | AccessType | C | 1 | Indicates the access type (e.g. non 3GPP) where the reachability was detected. It shall be present when the serving node is AMF. |
|  |

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

## A.3 Nhss\_imsSDM API

openapi: 3.0.0

info:

 version: '1.1.0-alpha.2'

 title: 'Nhss\_imsSDM'

 description: |

 Nhss Subscriber Data Management Service for IMS.

 © 2021, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).

 All rights reserved.

externalDocs:

 description: 3GPP TS 29.562 HSS Services for interworking with IMS, version 17.3.0

 url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.562/'

servers:

 - url: '{apiRoot}/nhss-ims-sdm/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 4.4 of 3GPP TS 29.501.

security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

paths:

 /{imsUeId}/ims-data/registration-status:

 get:

 summary: Retrieve the registration status of a user

 operationId: GetRegistrationStatus

 tags:

 - Registration Status retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:registration-status:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - 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/ImsRegistrationStatus'

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/ims-data/profile-data/profile-data:

 get:

 summary: >

 Retrieve the complete IMS profile for a given IMS public identity

 (and public identities in the same IRS)

 operationId: GetProfileData

 tags:

 - IMS Profile Data Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:profile-data:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity. In this case it shall be an IMS public identity

 required: true

 schema:

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

 - name: dataset-names

 in: query

 description: Datasets to be retrieved

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/ims-data/profile-data/priority-levels:

 get:

 summary: Retrieve the service priority levels associated to the user

 operationId: GetPriorityInfo

 tags:

 - Priority Info Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:priority-levels:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - 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/PriorityLevels'

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/ims-data/profile-data/ifcs:

 get:

 summary: Retrieve the Initial Filter Criteria for the associated IMS subscription

 operationId: GetIfcs

 tags:

 - IFCs Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:ifcs:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: application-server-name

 in: query

 description: SIP URI of the Application Server Name

 schema:

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

 - 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/Ifcs'

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/ims-data/profile-data/service-level-trace-information:

 get:

 summary: Retrieve the IMS service level trace information for the associated user

 operationId: GetServiceTraceInfo

 tags:

 - Service Trace Info Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:service-level-trace-information:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - 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/ServiceLevelTraceInformation'

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/ims-data/profile-data/charging-info:

 get:

 summary: Retrieve the charging information for to the user

 operationId: GetChargingInfo

 tags:

 - Charging Info Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:charging-info:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - 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/ChargingInfo'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/ims-data/location-data/server-name:

 get:

 summary: Retrieve the server name for the associated user

 operationId: GetServerName

 tags:

 - Server Name retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:server-name:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - 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/ImsLocationData'

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/ims-data/location-data/scscf-capabilities:

 get:

 summary: Retrieve the S-CSCF capabilities for the associated IMS subscription

 operationId: GetScscfCapabilities

 tags:

 - Retrieval of the S-CSCF capabilities for the IMS subscription

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:scscf-capabilities:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/ims-data/location-data/scscf-selection-assistance-info:

 get:

 summary: Retrieve the S-CSCF selection assistance info

 operationId: GetScscfSelectionAssistanceInfo

 tags:

 - Retrieval of the S-CSCF selection assistance information for the IMS subscription

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:scscf-selection-assistance-info:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/access-data/ps-domain/location-data:

 get:

 summary: Retrieve the location data in PS domain

 operationId: GetLocPsDomain

 tags:

 - PS location retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:ps-domain:location-data:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity

 required: true

 schema:

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

 - name: requested-nodes

 in: query

 description: Indicates the serving node(s) for which the request is applicable.

 style: form

 explode: false

 schema:

 type: array

 items:

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

 - name: serving-node

 in: query

 description: >

 Indicates that only the stored NF id/address of the serving node(s) is required

 schema:

 type: boolean

 - name: local-time

 in: query

 description: >

 Indicates that only the Local Time Zone information of the location in the visited

 network where the UE is attached is requested

 schema:

 type: boolean

 - name: current-location

 in: query

 description: >

 Indicates whether an active location retrieval has to be initiated by the requested node

 schema:

 type: boolean

 - name: rat-type

 in: query

 description: Indicates whether RAT Type retrieval is requested

 schema:

 type: boolean

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/access-data/cs-domain/location-data:

 get:

 summary: Retrieve the location data in CS domain

 operationId: GetLocCsDomain

 tags:

 - CS location retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:cs-domain:location-data:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity

 required: true

 schema:

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

 - name: serving-node

 in: query

 description: >

 Indicates that only the stored NF id/address of the serving node(s) is required

 schema:

 type: boolean

 - name: local-time

 in: query

 description: >

 Indicates that only the Local Time Zone information of the location in the visited

 network where the UE is attached is requested

 schema:

 type: boolean

 - name: current-location

 in: query

 description: >

 Indicates whether an active location retrieval has to be initiated by the requested node

 schema:

 type: boolean

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/repository-data/{serviceIndication}:

 put:

 summary: Update the repository data associated to an IMPU and service indication

 operationId: UpdateRepositoryDataServInd

 tags:

 - Update repository data

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:repository-data:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: serviceIndication

 in: path

 description: Identifier of a service related data

 required: true

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 required: true

 responses:

 '201':

 description: Created

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

 Contains the URI of the newly created resource, according to the structure:

 {apiRoot}/nhss-ims-sdm/v1/{imsUeId}/repository-data/{serviceIndication}

 required: true

 schema:

 type: string

 '200':

 description: OK

 content:

 application/json:

 schema:

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

 '204':

 description: No content

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '409':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/409'

 '413':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/413'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 delete:

 summary: delete the Repository Data for a Service Indication

 operationId: DeleteRepositoryDataServInd

 tags:

 - Delete repository data

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:repository-data:modify

 parameters:

 - name: imsUeId

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: serviceIndication

 in: path

 description: Identifier of a service related data

 required: true

 schema:

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

 responses:

 '204':

 description: Expected response to a valid request

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 get:

 summary: Retrieve the repository data associated to an IMPU and service indication

 operationId: GetRepositoryDataServInd

 tags:

 - Repository data

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:repository-data:read

 parameters:

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: serviceIndication

 in: path

 description: Identifier of a service related data

 required: true

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/identities/msisdns:

 get:

 summary: retrieve the Msisdns associated to requested identity

 operationId: GetMsisdns

 tags:

 - Retrieval of the associated Msisdns

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:identities:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: private-id

 in: query

 description: Private identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/identities/ims-associated-identities:

 get:

 summary: >

 Retrieve the associated identities to the IMS public identity included

 in the service request

 operationId: GetImsAssocIds

 tags:

 - Retrieval of associated IMS public identities

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:identities:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity

 required: true

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/identities/private-identities:

 get:

 summary: >

 Retrieve the associated private identities to the IMS public identity included

 in the service request

 operationId: GetImsPrivateIds

 tags:

 - Retrieval of associated IMS private identities

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:identities:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: impi

 in: query

 description: Private Identity of type IMPI

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/srvcc-data:

 get:

 summary: Retrieve the srvcc data

 operationId: GetSrvccData

 tags:

 - Retrieval of UE SRVCC capability and STN-SR

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:srvcc:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity or IMS Private Identity

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 patch:

 summary: Patch

 operationId: UpdateSrvccData

 tags:

 - Update SRVCC data

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:srvcc:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity or IMS Private Identity

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 requestBody:

 content:

 application/json-patch+json:

 schema:

 type: array

 items:

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

 minItems: 1

 required: true

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '204':

 description: Successful response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 default:

 description: Unexpected error

 /{imsUeId}/service-data/psi-status:

 get:

 summary: Retrieve the PSI activation state data

 operationId: GetPsiState

 tags:

 - Retrieval of PSI activation state

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:psi-status:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Private Identity

 required: true

 schema:

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

 - 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/PsiActivationState'

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 patch:

 summary: Patch

 operationId: UpdatePsiState

 tags:

 - Update PSI state data

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:psi-status:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Service Identity

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 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:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '204':

 description: Successful response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 default:

 description: Unexpected error

 /{imsUeId}/service-data/dsai:

 get:

 summary: Retrieve the DSAI information associated to an Application Server

 operationId: GetDsaiInfo

 tags:

 - DSAI registration information

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:dsai:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: application-server-name

 in: query

 description: SIP URI of the Application Server Name

 required: true

 schema:

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

 - name: dsai-tag

 in: query

 description: The requested instance of Dynamic Service Activation Info

 schema:

 type: string

 - 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/DsaiTagInformation'

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 patch:

 summary: Patch

 operationId: UpdateDsaiState

 tags:

 - Update Dsai State

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:dsai:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Service Identity

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 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:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '204':

 description: Successful response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 default:

 description: Unexpected error

 /{imsUeId}/service-data/sms-registration-info:

 put:

 summary: Update the SMS registration information associated to a user

 operationId: UpdateSmsRegistrationInfo

 tags:

 - Update SMS registration info

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:sms-registration-info:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 required: true

 responses:

 '201':

 description: Created

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

 Contains the URI of the newly created resource, according to the structure:

 {apiRoot}/nhss-ims-sdm/v1/{imsUeId}/service-data/sms-registration-info

 required: true

 schema:

 type: string

 '200':

 description: OK

 content:

 application/json:

 schema:

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

 '204':

 description: No content

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '409':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/409'

 '413':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/413'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 delete:

 summary: delete the SMS registration information

 operationId: DeleteSmsRegistrationInfo

 tags:

 - Delete SMS registration information

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:sms-registration-info:modify

 parameters:

 - name: imsUeId

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '204':

 description: Expected response to a valid request

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 get:

 summary: Retrieve the SMS registration information associated to a user

 operationId: GetSmsRegistrationInfo

 tags:

 - SMS registration information

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:sms-registration-info:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/identities/imeisv:

 get:

 summary: Retrieve the IMEISV information

 operationId: GetIMEISVInfo

 tags:

 - IMEISV Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:identities:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/access-data/ps-domain/ip-address:

 get:

 summary: Retrieve the IP address information

 operationId: GetIpAddressInfo

 tags:

 - IP address Info Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:ps-domain:ip-address:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/access-data/ps-domain/tads-info:

 get:

 summary: Retrieve the T-ADS information

 operationId: GetTadsInfo

 tags:

 - TADS Info Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:ps-domain:tads-info:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/access-data/ps-domain/ue-reach-subscriptions:

 post:

 summary: subscribe to notifications of UE reachability

 operationId: UeReachIpSubscribe

 tags:

 - UE IP reachability Subscription Creation

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:ps-domain:ue-reach-subscriptions:create

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 required: true

 responses:

 '201':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

 Contains the URI of the newly created resource, according to the structure:

 {apiRoot}/nhss-ims-sdm/v1/{imsUeId}/access-data/ps-domain/ue-reach-subscriptions/{subscriptionId}

 required: true

 schema:

 type: string

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '501':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/501'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 callbacks:

 ueReachabilityNotification:

 '{request.body#/callbackReference}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: Successful Notification response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 /{imsUeId}/access-data/ps-domain/ue-reach-subscriptions/{subscriptionId}:

 delete:

 summary: unsubscribe from notifications to UE reachability

 operationId: UeReachUnsubscribe

 tags:

 - Reachability Subscription Deletion

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:ps-domain:ue-reach-subscriptions:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: subscriptionId

 in: path

 description: Id of the Subscription

 required: true

 schema:

 type: string

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '204':

 description: Successful response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 patch:

 summary: modify the subscription

 operationId: UeReachSubsModify

 tags:

 - Reachability Subscription Modification

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:ps-domain:ue-reach-subscriptions:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: subscriptionId

 in: path

 description: Id of the Subscription

 required: true

 schema:

 type: string

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 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:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '204':

 description: Successful modification

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 /{imsUeId}/access-data/ps-domain/user-state:

 get:

 summary: Retrieve the user state information in PS domain

 operationId: GetPsUserStateInfo

 tags:

 - PS User State Info Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:ps-domain:user-state:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: requested-nodes

 in: query

 description: Indicates the serving node(s) for which the request is applicable.

 style: form

 explode: false

 schema:

 type: array

 items:

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

 minItems: 1

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/access-data/cs-domain/user-state:

 get:

 summary: Retrieve the user state information in CS domain

 operationId: GetCsUserStateInfo

 tags:

 - CS User State Info Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:cs-domain:user-state:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/access-data/cs-domain/csrn:

 get:

 summary: Retrieve the routeing number in CS domain

 operationId: GetCsrn

 tags:

 - CSRN retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:cs-domain:csrn:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity

 required: true

 schema:

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

 - name: pre-paging

 in: query

 description: Indicates pre-paging support

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 - name: call-reference-info

 in: query

 description: Indicates Call-Reference Number and AS-Number

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/access-data/wireline-domain/reference-location:

 get:

 summary: Retrieve the reference location information

 operationId: GetReferenceLocationInfo

 tags:

 - Reference Location Info Retrieval

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:wireline-domain:reference-location:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: private-identity

 in: query

 description: IMS Private Identity

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 '504':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/504'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/subscriptions:

 post:

 summary: subscribe to notifications

 operationId: ImsSdmSubscribe

 tags:

 - SDM Subscription Creation

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:subscriptions:create

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity

 required: true

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 required: true

 responses:

 '201':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

 Contains the URI of the newly created resource, according to the structure:

 {apiRoot}/nhss-ims-sdm/v1/{imsUeId}/subscriptions/{subscriptionId}

 required: true

 schema:

 type: string

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '501':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/501'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 callbacks:

 datachangeNotification:

 '{request.body#/callbackReference}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ModificationNotification'

 responses:

 '204':

 description: Successful Notification response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/subscriptions/{subscriptionId}:

 delete:

 summary: unsubscribe from notifications

 operationId: ImsSdmUnsubscribe

 tags:

 - SDM Subscription Deletion

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:subscription:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity

 required: true

 schema:

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

 - name: subscriptionId

 in: path

 description: Id of the Subscription

 required: true

 schema:

 type: string

 responses:

 '204':

 description: Successful response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 patch:

 summary: modify the subscription

 operationId: ImsSdmSubsModify

 tags:

 - SDM Subscription Modification

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:subscription:modify

 parameters:

 - name: imsUeId

 in: path

 description: IMS Public Identity

 required: true

 schema:

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

 - name: subscriptionId

 in: path

 description: Id of the Subscription

 required: true

 schema:

 type: string

 - name: supported-features

 in: query

 description: Supported Features

 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:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '204':

 description: Successful modification

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /shared-data-subscriptions:

 post:

 summary: subscribe to notifications for shared data

 operationId: SubscribeToSharedData

 tags:

 - Subscription Creation for shared data

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:shared-subscriptions:create

 requestBody:

 content:

 application/json:

 schema:

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

 required: true

 responses:

 '201':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

 Contains the URI of the newly created resource, according to the structure:

 {apiRoot}/nhss-ims-dm/v1/shared-data-subscriptions/{subscriptionId}'

 required: true

 schema:

 type: string

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 callbacks:

 datachangeNotification:

 '{request.body#/callbackReference}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ModificationNotification'

 responses:

 '204':

 description: Successful Notification response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /shared-data-subscriptions/{subscriptionId}:

 delete:

 summary: unsubscribe from notifications for shared data

 operationId: UnsubscribeForSharedData

 tags:

 - Subscription Deletion for shared data

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:shared-subscription:modify

 parameters:

 - name: subscriptionId

 in: path

 description: Id of the Shared data Subscription

 required: true

 schema:

 type: string

 responses:

 '204':

 description: Successful response

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 patch:

 summary: modify the subscription

 operationId: ModifySharedDataSubs

 tags:

 - Subscription Modification

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:shared-subscription:modify

 parameters:

 - name: subscriptionId

 in: path

 description: Id of the SDM Subscription

 required: true

 schema:

 type: string

 - name: supported-features

 in: query

 description: Supported Features

 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:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '204':

 description: Successful modification

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /shared-data:

 get:

 summary: retrieve shared data

 operationId: GetSharedData

 tags:

 - Retrieval of shared data

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:shared-data:read

 parameters:

 - name: shared-data-ids

 in: query

 description: List of shared data ids

 required: true

 style: form

 explode: false

 schema:

 type: array

 items:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

 type: array

 items:

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

 minItems: 1

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /{imsUeId}/repository-data:

 get:

 summary: Retrieve the repository data associated to an IMPU and service indication list

 operationId: GetRepositoryDataServIndList

 tags:

 - Repository data list

 security:

 - {}

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - oAuth2ClientCredentials:

 - nhss-ims-sdm

 - nhss-ims-sdm:repository-data:read

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: service-indications

 in: query

 description: Identifiers of a services related data

 required: true

 style: form

 explode: false

 schema:

 type: array

 items:

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

 minItems: 1

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '405':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/405'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{nrfApiRoot}/oauth2/token'

 scopes:

 nhss-ims-sdm: Access to the Nhss IMS Subscription Data Management API

 nhss-ims-sdm:registration-status:read: Access to read the Registration Status resource

 nhss-ims-sdm:profile-data:read: Access to read the Profile Data resource

 nhss-ims-sdm:priority-levels:read: Access to read the Priority Levels resource

 nhss-ims-sdm:ifcs:read: Access to read the Initial Filter Criteria resource

 nhss-ims-sdm:service-level-trace-information:read: >-

 Access to read the Service Level Trace Information resource

 nhss-ims-sdm:server-name:read: Access to read the Server Name resource

 nhss-ims-sdm:scscf-capabilities:read: Access to read the S-CSCF Capabilities resource

 nhss-ims-sdm:ps-domain:location-data:read: >-

 Access to read the PS-Domain Location Data resource

 nhss-ims-sdm:ps-domain:ip-address:read: Access to read the PS-Domain IP Address resource

 nhss-ims-sdm:ps-domain:tads-info:read: Access to read the PS-Domain TADS Info resource

 nhss-ims-sdm:ps-domain:ue-reach-subscriptions:create: >-

 Access to create PS-Domain UE Reachability Subscriptions resources

 nhss-ims-sdm:ps-domain:ue-reach-subscriptions:modify: >-

 Access to update/delete a PS-Domain UE Reachability Subscription resource

 nhss-ims-sdm:ps-domain:user-state:read: Access to read the PS-Domain User State resource

 nhss-ims-sdm:cs-domain:location-data:read: >-

 Access to read the CS-Domain Location Data resource

 nhss-ims-sdm:cs-domain:user-state:read: Access to read the CS-Domain User State resource

 nhss-ims-sdm:cs-domain:csrn:read: Access to read the CS-Domain CSRN resource

 nhss-ims-sdm:wireline-domain:reference-location:read: >-

 Access to read the Wireline-Domain Reference Location resource

 nhss-ims-sdm:repository-data:modify: >-

 Access to create/update/delete the Repository Data resource

 nhss-ims-sdm:repository-data:read: Access to read the Repository Data resource

 nhss-ims-sdm:identities:read: Access to read the Identities resource

 nhss-ims-sdm:srvcc:read: Access to read the SRVCC resource

 nhss-ims-sdm:srvcc:modify: Acess to update the SRVCC resource

 nhss-ims-sdm:psi-status:read: Access to read the PSI Status resource

 nhss-ims-sdm:psi-status:modify: Acess to update the PSI Status resource

 nhss-ims-sdm:dsai:read: Acess to read the DSAI resource

 nhss-ims-sdm:dsai:modify: Acess to update the DSAI resource

 nhss-ims-sdm:sms-registration-info:read: >-

 Acess to read the SMS Registration Info resource

 nhss-ims-sdm:sms-registration-info:modify: >-

 Acess to create/update/delete the SMS Registration Info resource

 nhss-ims-sdm:subscriptions:create: Access to create Subscriptions resources

 nhss-ims-sdm:subscription:modify: Access to update/delete a Subscription resource

 nhss-ims-sdm:shared-subscriptions:create: >-

 Access to create a Shared-Data Subscriptions resource

 nhss-ims-sdm:shared-subscription:modify: >-

 Access to update/delete a Shared-Data Subscription resource

 nhss-ims-sdm:shared-data:read: Access to read the Shared-Data resource

 nhss-ims-sdm:charging-info:read: Access to read the ChargingInfo resource

 schemas:

# COMPLEX TYPES:

 ScscfCapabilityList:

 description: Information about mandatory and optional S-CSCF capabilities

 type: object

 properties:

 mandatoryCapabilityList:

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

 optionalCapabilityList:

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

 anyOf:

 - required: [mandatoryCapabilityList]

 - required: [optionalCapabilityList]

 Capabilities:

 description: A list of capabilities of the S-CSCF

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 RepositoryData:

 description: Repository Data for the requested Service Indication

 type: object

 required:

 - serviceData

 - sequenceNumber

 properties:

 sequenceNumber:

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

 serviceData:

 type: string

 format: byte

 MsisdnList:

 description: List of MSISDNs associated to the IMS public Identity

 type: object

 required:

 - basicMsisdn

 properties:

 basicMsisdn:

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

 additionalMsisdns:

 type: array

 minItems: 1

 items:

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

 PublicIdentities:

 description: >

 IMS Public Identities which belong to the same Implicit Registration Set (if any)

 as the requested IMS Public Identity

 type: object

 required:

 - publicIdentities

 properties:

 publicIdentities:

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 PrivateIdentities:

 description: A list of IMS Private Identities

 type: object

 required:

 - privateIdentities

 properties:

 privateIdentities:

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 PublicIdentity:

 description: >

 IMS Public Identity and related data (Alias Group Id, IRS default indication,

 Identity Type)

 type: object

 required:

 - imsPublicId

 - identityType

 properties:

 imsPublicId:

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

 identityType:

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

 irsIsDefault:

 type: boolean

 aliasGroupId:

 type: string

 PrivateIdentity:

 description: IMS Private Identity and its identity type (IMPI or IMSI)

 type: object

 required:

 - privateIdentity

 - privateIdentityType

 properties:

 privateIdentity:

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

 privateIdentityType:

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

 ImsAssociatedIdentities:

 description: >

 A list of identities belonging to the same Implicit Registration Set (IRS),

 along with the registration state of the IRS

 type: object

 required:

 - irsState

 - publicIdentities

 properties:

 irsState:

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

 publicIdentities:

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

 ImsSdmSubscription:

 description: A subscription to notifications of data change

 type: object

 required:

 - nfInstanceId

 - callbackReference

 - monitoredResourceUris

 properties:

 nfInstanceId:

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

 callbackReference:

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

 monitoredResourceUris:

 type: array

 items:

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

 minItems: 1

 expires:

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

 ImsRegistrationStatus:

 description: Registration status of the user

 type: object

 required:

 - imsUserStatus

 properties:

 imsUserStatus:

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

 PriorityLevels:

 description: Namespaces and priority levels allowed for the IMS public Identity

 type: object

 required:

 - servicePriorityLevelList

 properties:

 servicePriorityLevelList:

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 Ifcs:

 description: List of IFCs associated to the IMS public Identity

 type: object

 properties:

 ifcList:

 type: array

 items:

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

 minItems: 1

 cscfFilterSetIdList:

 type: array

 items:

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

 minItems: 1

 anyOf:

 - required: [ ifcList ]

 - required: [ cscfFilterSetIdList ]

 Ifc:

 description: Data associated to an individual IFC (Initial Filter Criteria)

 type: object

 required:

 - priority

 - appServer

 properties:

 priority:

 type: integer

 minimum: 1

 trigger:

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

 appServer:

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

 TriggerPoint:

 description: >

 Contains the conditions that should be checked in order to find out if an

 Application Server should be contacted or not

 type: object

 required:

 - conditionType

 - sptList

 properties:

 conditionType:

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

 sptList:

 type: array

 items:

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

 minItems: 1

 Spt:

 description: Contains the data of a Service Point Trigger

 type: object

 required:

 - conditionNegated

 - sptGroup

 properties:

 conditionNegated:

 type: boolean

 sptGroup:

 type: array

 items:

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

 minItems: 1

 regType:

 items:

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

 minItems: 1

 maxItems: 2

 requestUri:

 type: string

 sipMethod:

 type: string

 sipHeader:

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

 sessionCase:

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

 sessionDescription:

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

 HeaderSipRequest:

 description: Contains a header (and optionally value of the header) in the SIP request

 type: object

 required:

 - header

 properties:

 header:

 type: string

 content:

 type: string

 SdpDescription:

 description: >

 Contains a SDP line (and optionally the value in the line) within the body (if any)

 of a SIP request

 type: object

 required:

 - line

 properties:

 line:

 type: string

 content:

 type: string

 ApplicationServer:

 description: >

 Application Server which shall be triggered if the conditions of a certain IFC are met,

 and its associated data

 type: object

 required:

 - asUri

 properties:

 asUri:

 type: string

 sessionContinue:

 type: boolean

 serviceInfoList:

 type: array

 items:

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

 minItems: 1

 ImsLocationData:

 description: IMS Location Data (S-CSCF name)

 type: object

 required:

 - scscfName

 properties:

 scscfName:

 type: string

 PsLocation:

 description: Location data in PS domain

 type: object

 oneOf:

 - required:

 - sgsnLocationData

 - required:

 - mmeLocationData

 - required:

 - amfLocationData

 - required:

 - twanLocationData

 properties:

 sgsnLocationData:

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

 mmeLocationData:

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

 amfLocationData:

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

 twanLocationData:

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

 SgsnLocationData:

 description: Location information as retrieved from the SGSN serving node

 type: object

 required:

 - sgsnNumber

 - plmnId

 properties:

 sgsnNumber:

 type: string

 plmnId:

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

 sgsnLocation:

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

 csgInformation:

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

 timeZone:

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

 ratType:

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

 MmeLocationData:

 description: Location information as retrieved from the MME serving node

 type: object

 required:

 - mmeAddress

 - plmnId

 properties:

 mmeAddress:

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

 plmnId:

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

 mmeLocation:

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

 csgInformation:

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

 timeZone:

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

 ratType:

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

 AmfLocationData:

 description: Location information as retrieved from the AMF serving node

 type: object

 required:

 - amfAddress

 - plmnId

 properties:

 amfAddress:

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

 plmnId:

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

 amfLocation:

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

 smsfAddress:

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

 timeZone:

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

 ratType:

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

 TwanLocationData:

 description: Location information of the 3GPP AAA Server for Trusted W-LAN Access

 type: object

 required:

 - twanSsid

 - plmnId

 properties:

 twanSsid:

 type: string

 plmnId:

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

 twanBssid:

 type: string

 civicAddress:

 type: string

 format: byte

 twanOperatorName:

 type: string

 timeZone:

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

 logicalAccessId:

 type: string

 CsLocation:

 description: Location data in CS domain

 type: object

 required:

 - mscNumber

 - vlrNumber

 - plmnId

 properties:

 mscNumber:

 type: string

 vlrNumber:

 type: string

 plmnId:

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

 vlrLocation:

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

 csgInformation:

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

 timeZone:

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

 ratType:

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

 CsgInformation:

 description: Information about a Closed Subscriber Group (CSG)

 type: object

 required:

 - csgId

 properties:

 csgId:

 type: string

 format: byte

 accessMode:

 type: string

 format: byte

 cMi:

 type: boolean

 SrvccData:

 description: UE SRVCC capability (if available) and STN-SR (if subscribed)

 type: object

 required:

 - stnSr

 properties:

 stnSr:

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

 ueSrvccCapabilities:

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 PsiActivationState:

 description: Public Service Identity activation state

 type: object

 required:

 - activationState

 properties:

 activationState:

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

 SharedData:

 description: Represents a part of the IMS Profile data shared by several UEs

 type: object

 required:

 - sharedDataId

 properties:

 sharedDataId:

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

 sharedImsIfcData:

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

 minProperties: 1

 ImsProfileData:

 description: User's IMS profile data

 type: object

 required:

 - imsServiceProfiles

 properties:

 imsServiceProfiles:

 type: array

 items:

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

 chargingInfo:

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

 serviceLevelTraceInfo:

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

 servicePriorityLevelList:

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 supportedFeatures:

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

 maxAllowedSimulReg:

 type: integer

 ImsServiceProfile:

 description: >

 IMS Service Profile of the UE, containing the list of Public Identifiers and

 optionally a list of IFCs

 type: object

 required:

 - publicIdentifierList

 properties:

 publicIdentifierList:

 type: array

 items:

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

 ifcs:

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

 PublicIdentifier:

 description: >

 Distinct or wildcarded public identity and its associated priority, trace and

 barring information

 type: object

 required:

 - publicIdentity

 properties:

 publicIdentity:

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

 displayName:

 type: string

 imsServicePriority:

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

 serviceLevelTraceInfo:

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

 barringIndicator:

 type: boolean

 wildcardedImpu:

 type: string

 ServiceLevelTraceInformation:

 description: IMS Service Level Trace Information

 type: object

 properties:

 serviceLevelTraceInfo:

 type: string

 ImeiSvInformation:

 description: IMEI(SV) information

 type: object

 oneOf:

 - required:

 - imei

 - required:

 - imeiSv

 properties:

 imei:

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

 imeiSv:

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

 TadsInformation:

 description: T-ADS Information

 type: object

 required:

 - voiceOverPsSessionSupport

 properties:

 voiceOverPsSessionSupport:

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

 accessType:

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

 ratType:

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

 lastUeActivityTime:

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

 UeReachabilitySubscription:

 description: >

 Contains the request parameters received by the HSS for a subscription to

 notifications of UE reachability for IP

 type: object

 required:

 - expiry

 - callbackReference

 properties:

 expiry:

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

 callbackReference:

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

 CreatedUeReachabilitySubscription:

 description: >

 Contains the response data returned by HSS after the subscription to

 notifications of UE reachability for IP was created

 type: object

 required:

 - expiry

 properties:

 expiry:

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

 UeReachabilityNotification:

 description: >

 Represents the contents of a notification of UE reachability for IP sent by the HSS

 type: object

 required:

 - reachabilityIndicator

 - detectingNode

 - accessType

 properties:

 reachabilityIndicator:

 type: boolean

 detectingNode:

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

 accessType:

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

 PsUserState:

 description: User state in PS domain

 type: object

 oneOf:

 - required:

 - sgsnUserState

 - required:

 - mmeUserState

 - required:

 - amfUserState

 properties:

 sgsnUserState:

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

 mmeUserState:

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

 amfUserState:

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

 CsUserState:

 description: User state in CS domain

 type: object

 required:

 - mscVlrUserState

 properties:

 mscVlrUserState:

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

 Csrn:

 description: CS domain routeing number

 type: object

 required:

 - csrn

 properties:

 csrn:

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

 ReferenceLocationInformation:

 description: Reference Location Information for the user in fixed access networks

 type: object

 properties:

 accessType:

 type: string

 accessInfo:

 type: string

 accessValue:

 type: string

 anyOf:

 - required: [accessType]

 - required: [accessInfo]

 - required: [accessValue]

 SmsRegistrationInfo:

 description: SMS Registration Information (IP-SM-GW number and SC address)

 type: object

 required:

 - ipSmGwNumber

 properties:

 ipSmGwNumber:

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

 scAddress:

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

 IpSmGwAddress:

 description: IP-SM-GW number and diameter URI/realm

 type: object

 required:

 - ipSmGwNumber

 properties:

 ipSmGwNumber:

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

 ipSmGwDiaUri:

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

 ipSmGwDiaRealm:

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

 DsaiTagInformation:

 description: >

 DSAI tag information (list of DSAI tags activation state for an Application Server)

 type: object

 required:

 - dsaiTagStatusList

 properties:

 dsaiTagStatusList:

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 DsaiTagStatus:

 description: DSAI tag status (DSAI tag and activation state)

 type: object

 required:

 - dsaiTag

 - dsaiState

 properties:

 dsaiTag:

 type: string

 dsaiState:

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

 ScscfSelectionAssistanceInformation:

 description: Information used by the I-CSCF to select an S-CSCF for the UE

 type: object

 properties:

 scscfCapabilityList:

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

 scscfNames:

 type: array

 items:

 type: string

 minItems: 1

 anyOf:

 - required: [scscfCapabilityList]

 - required: [scscfNames]

 ChargingInfo:

 description: Diameter addresses of the charging function

 type: object

 anyOf:

 - required:

 - primaryEventChargingFunctionName

 - required:

 - primaryChargingCollectionFunctionName

 properties:

 primaryEventChargingFunctionName:

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

 secondaryEventChargingFunctionName:

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

 primaryChargingCollectionFunctionName:

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

 secondaryChargingCollectionFunctionName:

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

 CallReferenceInfo:

 description: >

 Contains a Call Reference Number and the AS-Number; it allows a later retry of the call

 setup in the context of MTRR

 type: object

 required:

 - callRefNumber

 - asNumber

 properties:

 callRefNumber:

 type: string

 format: byte

 asNumber:

 type: string

 DataSetNames:

 description: Contains the data sets to be retrieved from the IMS User Profile

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 RepositoryDataList:

 description: List of Repository Data for the requested Service Indications

 type: object

 required:

 - repositoryDataMap

 properties:

 repositoryDataMap:

 description: >

 A map (list of key-value pairs where ServiceIndication serves as key) of RepositoryData

 type: object

 additionalProperties:

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

# SIMPLE TYPES:

 Capability:

 description: S-CSCF capability

 type: integer

 ImsUeId:

 description: >

 Represents the IMS Public Identity (i.e. IMS Public User identity or

 Public Service Identity)

 type: string

 pattern: '^(impu-sip\:([a-zA-Z0-9\_\-.!~\*()&=+$,;?\/]+)\@([A-Za-z0-9]+([-A-Za-z0-9]+)\.)+[a-z]{2,}|impu-tel\:\+[0-9]{5,15}|impi-.+|.+)$'

 SequenceNumber:

 description: >

 Unsigned integer containing the sequence number associated to the current version

 of Repository Data

 type: integer

 minimum: 0

 ServiceIndication:

 description: String containing the Service Indication or Service Identifier

 type: string

 Msisdn:

 description: String containing an additional or basic MSISDN

 type: string

 pattern: '[0-9]{5,15}$'

 PrivateId:

 description: String containing a Private User Identity or a Private Service Identity

 type: string

 ImsPublicId:

 description: String containing an IMS Public Identity in SIP URI format or TEL URI format

 type: string

 pattern: '^(sip\:([a-zA-Z0-9\_\-.!~\*()&=+$,;?\/]+)\@([A-Za-z0-9]+([-A-Za-z0-9]+)\.)+[a-z]{2,}|tel\:\+[0-9]{5,15})$'

 NameSpacePriority:

 description: >

 String containing the namespace and priority formatted as "r-value" parameter

 described in IETF RFC 4412

 type: string

 pattern: '^[0-9a-zA-Z-\!%\\*\_\+`''~]+.[0-9a-zA-Z-\!%\\*\_\+`''~]+$'

 CscfFilterSetId:

 description: Contains the identifier of a specific filter set in the S-CSCF

 type: integer

 minimum: 0

 SptGroupId:

 description: Contains the identifier of the Group of SPTs

 type: integer

 minimum: 0

 SharedDataId:

 description: >

 Identifies globally and uniquely a piece of subscription data shared by multiple UEs;

 the value shall start with the HPLMN id (MCC/MNC) followed by a hyphen followed by a

 local Id as allocated by the home network operator

 type: string

 pattern: '^[0-9]{5,6}-.+$'

 Imei:

 description: IMEI of the UE

 type: string

 pattern: '^[0-9]{15}$'

 ImeiSv:

 description: IMEISV of the UE

 type: string

 pattern: '^[0-9]{16}$'

 PrePaging:

 description: Inidicates the support of pre-paging

 type: boolean

 SipServerName:

 description: Server Name (e.g. AS name, CSCF name) in SIP URI format

 type: string

 pattern: '^(sip\:([a-zA-Z0-9\_\-.!~\*()&=+$,;?\/]+)\@([A-Za-z0-9]+([-A-Za-z0-9]+)\.)+[a-z]{2,})$'

# ENUMS:

 IdentityType:

 description: Represents the type of IMS Public Identity

 anyOf:

 - type: string

 enum:

 - DISTINCT\_IMPU

 - DISTINCT\_PSI

 - WILDCARDED\_IMPU

 - WILDCARDED\_PSI

 - type: string

 PrivateIdentityType:

 description: Represents the type of IMS Private Identity (IMPI or IMSI)

 anyOf:

 - type: string

 enum:

 - IMPI

 - IMSI

 - type: string

 ImsRegistrationState:

 description: Represents the IMS status of the user or Public Identity or the IRS

 anyOf:

 - type: string

 enum:

 - REGISTERED

 - NOT\_REGISTERED

 - AUTHENTICATION\_PENDING

 - REGISTERED\_UNREG\_SERVICES

 - type: string

 TypeOfCondition:

 description: >

 Represents the type of condition to be applied to the logical expression of SPT groups

 and SPTs (Conjunctive Normal Form, or Disjunctive Normal Form)

 anyOf:

 - type: string

 enum:

 - CNF

 - DNF

 - type: string

 RegistrationType:

 description: Represents the type of registration associated to the REGISTER request

 anyOf:

 - type: string

 enum:

 - INITIAL\_REGISTRATION

 - RE\_REGISTRATION

 - DE\_REGISTRATION

 - type: string

 RequestDirection:

 description: >

 Represents the direction of the request in combination with the registration status

 of the user as evaluated in the S-CSCF

 anyOf:

 - type: string

 enum:

 - ORIGINATING\_REGISTERED

 - ORIGINATING\_UNREGISTERED

 - ORIGINATING\_CDIV

 - TERMINATING\_REGISTERED

 - TERMINATING\_UNREGISTERED

 - type: string

 ServiceInformation:

 description: >

 Indicates the type of additional information to be included in the body of the SIP request

 towards the Application Server

 anyOf:

 - type: string

 enum:

 - INCLUDE\_REGISTER\_REQUEST

 - INCLUDE\_REGISTER\_RESPONSE

 - type: string

 RequestedNode:

 description: Represents the type of serving node for which certain data is requested

 anyOf:

 - type: string

 enum:

 - SGSN

 - MME

 - AMF

 - 3GPP\_AAA\_SERVER\_TWAN

 - type: string

 SrvccCapability:

 description: Represents the type of SRVCC support of the UE

 anyOf:

 - type: string

 enum:

 - UE\_4G\_SRVCC\_CAPABLE

 - UE\_5G\_SRVCC\_CAPABLE

 - type: string

 ActivationState:

 description: Represents the activation state of a PSI or DSAI tag

 anyOf:

 - type: string

 enum:

 - ACTIVE

 - INACTIVE

 - type: string

 ImsVoiceOverPsSessionSupport:

 description: Represents the support for Voice-over-PS of the UE

 anyOf:

 - type: string

 enum:

 - IMS\_VOICE\_OVER\_PS\_NOT\_SUPPORTED

 - IMS\_VOICE\_OVER\_PS\_SUPPORTED

 - IMS\_VOICE\_OVER\_PS\_SUPPORT\_UNKNOWN

 - type: string

 DetectingNode:

 description: Represents the type of serving node that detected the reachability of the UE

 anyOf:

 - type: string

 enum:

 - SGSN

 - MME

 - AMF

 - type: string

 AccessType:

 description: Represents the type of access (3GPP or non-3GPP)

 anyOf:

 - type: string

 enum:

 - 3GPP\_ACCESS

 - NON\_3GPP\_ACCESS

 - type: string

 UserStatePs:

 description: Represents the user state in PS domain

 anyOf:

 - type: string

 enum:

 - DETACHED

 - ATTACHED\_NOT\_REACHABLE\_FOR\_PAGING

 - ATTACHED\_REACHABLE\_FOR\_PAGING

 - CONNECTED\_NOT\_REACHABLE\_FOR\_PAGING

 - CONNECTED\_REACHABLE\_FOR\_PAGING

 - NOT\_PROVIDED\_FROM\_SGSN\_OR\_MME\_OR\_AMF

 - NETWORK\_DETERMINED\_NOT\_REACHABLE

 - type: string

 UserStateCs:

 description: Represents the user state in CS domain

 anyOf:

 - type: string

 enum:

 - CAMEL\_BUSY

 - NETWORK\_DETERMINED\_NOT\_REACHABLE

 - ASSUMED\_IDLE

 - NOT\_PROVIDED\_FROM\_VLR

 - type: string

 DataSetName:

 description: A set of data within the IMS User Profile

 anyOf:

 - type: string

 enum:

 - CHARGING\_DATA

 - IFC\_DATA

 - TRACE\_DATA

 - PRIORITY\_DATA

 - type: string

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