**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 can be 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 23.218  Other 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 | Response  codes | 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\_FOUND  DATA\_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.

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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 \* \* \* \*