**3GPP TSG-CT WG4 Meeting #96eC4-200575**

**E-Meeting, 17th – 28th February 2020**

**Source: Ericsson**

**Title: Completion of Initial Filter Criteria**

**Spec: 3GPP TS 29.562 v0.3.0**

**Agenda item: 6.1.14**

**Document for: Agreement**

**1. Introduction**

-

**2. Reason for Change**

Complete resource for Initial Filter Criteria. Profile Part Indicator, as defined in 3GPP TS 29.228 is removed from the Initial Filter Criteria.

**3. Conclusions**

-

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.562 v0.3.0.

\* \* \* 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 3.0.0 Specification", <https://github.com/OAI/OpenAPI-Specification/blob/master/versions/3.0.0.md>

[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".

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

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

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

##### 5.3.2.2.x Initial Filter Criteria Retrieval

Figure 5.3.2.2.x-1 shows a scenario where the NF service consumer (e.g. AS, S-CSCF) sends a request to the HSS to receive the UE's Initial Filter Criteria. The request contains the UE's identity (/{imsUeId}), the type of the requested information (ims-data/profile-data/ifcs) and query parameters (e.g. supported-features).



Figure 5.3.2.2.x-1: IMS Initial Filter Criteria Retrieval

1. The NF service consumer (e.g. AS) sends a GET request to the resource representing the UE's IMS profile with query parameters indicating the supported-features.

2a. On success, the HSS responds with "200 OK" with the message body containing the UE's Initial Filter Criteria (possibly containing S-CSCF-Specific IFC Set Identifiers, if supported and configured in S-CSCF) as relevant for the requesting NF service consumer.

2b. If there is no valid subscription data for the UE, HTTP status code "404 Not Found" shall be returned and it should include additional error information in the response body (in the "ProblemDetails" element).

On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the GET response body.

\* \* \* 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) than 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) |
| Ifcs | 6.2.6.2.x1 | List of IFCs associated to the IMS public Identity |

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 |

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

#### 6.2.3.x Resource: Initial Filter Criteria

##### 6.2.3.x.1 Description

This resource represents the Initial Filter Criteria (IFCs). It is queried by the service consumer (e.g. S-CSCF) to retrieve the list of IFCs associated to the UE (including Shared IFC Set Identifiers, if provisioned).

##### 6.2.3.x.2 Resource Definition

Resource URI: **{**apiRoot}/nhss-ims-sdm/{apiVersion}/{imsUeId}/ims-data/profile-data/ifcs

This resource shall support the resource URI variables defined in table 6.2.3.x.2-1.

Table 6.2.3.x.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.2.1 |
| apiVersion | See clause 6.2.1 |
| imsUeId | Represents the IMS Public Identity (i.e. IMS Public User identity or Public Service Identity) pattern: "^(sip\:([a-zA-Z0-9\_\-.!~\*()&=+$,;?\/]+)\@([A-Za-z0-9]+([-A-Za-z0-9]+)\.)+[a-z]{2,}|tel\:\+[0-9]{5,15})$" |

##### 6.2.3.x.3 Resource Standard Methods

###### 6.2.3.x.3.1 GET

This method shall support the URI query parameters specified in table 6.2.3.x.3.1-1.

Table 6.2.3.x.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.x.3.1-2 and the response data structures and response codes specified in table 6.2.3.x.3.1-3.

Table 6.2.3.x.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.x.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| Ifcs | M | 1 | 200 OK | A response body containing the list of complete IFCs and/or shared IFC set identifiers shall be returned. |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:- USER\_NOT\_FOUND- DATA\_NOT\_FOUNDDATA\_NOT\_FOUND indicates that there is no Initial Filter Criteria associated to the user (i.e. no AS is triggered by S-CSCF for the user) |
| ProblemDetails | O | 0..1 | 403 Forbidden | The "cause" attribute may be used to indicate the following application error:- OPERATION\_NOT\_ALLOWED |
| NOTE: In addition, common data structures as listed in table xx are supported. |

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

##### 6.2.6.2.x1 Type: Ifcs

Table 6.2.6.2.x1-1: Definition of type Ifcs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| ifcList | array(Ifc) | C | 1..N | List of complete IFCs which are associated to the user. |
| cscfFilterSetIdList | array(cscfFilterSetId) | C | 1..N | List of S-CSCF specific filter set identifiers. |
| NOTE: At least one of IfcList or cscfFilterSetIdList shall be present. |

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

##### 6.2.6.2.x2 Type: Ifc

Table 6.2.6.2.x2-1: Definition of type Ifc

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| priority | integer | M | 1 | Contains the priority of the IFC. The higher the Priority Number the lower the priority of the Filter Criteria is.Minimum: 1 |
| trigger | TriggerPoint | O | 1 | Contains the conditions that should be checked in order to find out if the indicated Application Server should be contacted or not. The absence of this attribute will indicate an unconditional triggering to Application Server. |
| appServer | ApplicationServer | M | 1 | Contains the Application Server which shall be triggered if the conditions are met and its associated data (e.g. default handling) |
| NOTE : See 3GPP TS 29.228 [xx], Annex B.2.2 for more details on the terms and concepts associated to Initial Filter Criteria. The ProfilePartIndicator attribute described in Annex B.2.2 is removed and it shall be derived from the SessionCase attribute described in Annex B.2.3. |

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

##### 6.2.6.2.x3 Type: TriggerPoint

Table 6.2.6.2.x3-1: Definition of type TriggerPoint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| conditionType | TypeOfCondition | M | 1 | Indicates how the set of SPTs are expressed, i.e. either an Ored set of ANDed sets of SPT statements or an ANDed set of Ored sets of statements. These combinations are termed, respectively, Disjunctive Normal Form (DNF) and Conjunctive Normal Form (CNF) for the SPT (see 3GPP TS 29.228 [xx], Annex C). |
| sptList | array(Spt) | M | 1..N | Contains the list of Service Point Triggers  |

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

##### 6.2.6.2.x4 Type: Spt

Table 6.2.6.2.x4-1: Definition of type Spt

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| conditionNegated | boolean | M | 1 | Indicates if the Service Point Trigger instance is negated (i.e. NOT logical expression) |
| sptGroup | array(SptGroupId) | M | 1..N | Contains the SPT group or list of SPT groups assigned to the SPT. |
| regType | array(RegistrationType) | O | 1..2 | Indicates the type of registration. If included, it shall contain the values that define whether the SPT matches to REGISTER messages that are related to initial registrations, re-registrations, and/or de-registrations. This attribute shall be included only if the SPT is for SIP method with a value “REGISTER” and only if it does not apply to all types of registration; otherwise, it shall be absent (i.e. the SIP Method SPT matches to all REGISTER messages).The attribute regType shall be discarded if it is present in an SPT other than SIP Method with value "REGISTER". |
| requestURI | string | C | 1 | Contains the request-URI of the SIP request (NOTE 2) |
| sipMethod | string | C | 1 | Contains the method of the SIP request (NOTE 2) |
| sipHeader | HeaderSipRequest | C | 1 | Contains a header (and optionally value of the header) in the SIP request (NOTE 2) |
| sessionCase | RequestDirection | O | 1 | Contains the direction of the SIP request as evaluated by the S-CSCF. |
| sessionDescription | SdpDescription | C | 1 | Contains a SDP line (and optionally the valuein the line) within the body (if any) of a SIP request (NOTE 2) |
| NOTE 1: See 3GPP TS 29.228 [xx], Annex B.2.3 for more details on the terms and concepts associated to Service Point Trigger. The ProfilePartIndicator attribute described in Annex B.2.2 is removed and it shall be derived from the SessionCase attribute described in Annex B.2.3.NOTE 2: Exactly one of requestURI, method, header and sessionDescription shall be present. See TS 29.228 [xx], Annex F for the definition of these attributes. |

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

##### 6.2.6.2.x5 Type: HeaderSipRequest

Table 6.2.6.2.x5-1: Definition of type HeaderSipRequest

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| header | string | M | 1 | Contains a SIP header |
| content | string | O | 1 | Contains the content of the SIP header. If this attribute is absent, it shall indicate that the SPT is the presence (if conditionNegated=”FALSE”) or absence (if conditionNegated=”TRUE”) of the SIP header. |

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

##### 6.2.6.2.x6 Type: SdpDescription

Table 6.2.6.2.x6-1: Definition of type SdpDescription

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| line | string | M | 1 | Contains a line in the session description |
| content | string | O | 1 | Contains the content of the SDP line. If this attribute is absent, it shall indicate that the SPT is the presence (if conditionNegated=”FALSE”) or absence (if conditionNegated=”TRUE”) of the SDP line. |

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

##### 6.2.6.2.x7 Type: ApplicationServer

Table 6.2.6.2.x7-1: Definition of type ApplicationServer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| asUri | string | M | 1 | Contains the Application Server SIP URI, as described in IETF RFC 3261 [11] or 3GPP TS 23.003 [2]. |
| sessionContinue | boolean | O | 1 | This IE indicates whether the SIP dialog shall be continued or released if the Application Server could not be reached.true: indicates that the session shall be continuedfalse or absent: indicates that the session shall be released |
| serviceInfoList | array(ServiceInformation) | O | 1..N | Indicates a list of service information that shall be sent to the Application Server. |

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

##### 6.2.6.3.2 Simple data types

The simple data types defined in table 6.2.6.3.2-1 shall be supported.

Table 6.2.6.3.2-1: Simple data types

|  |  |  |
| --- | --- | --- |
| Type Name | Type Definition | Description |
| Capability | integer | S-CSCF capability  |
| SequenceNumber | integer | Unsigned integer containing the sequence number associated to the current version of Repository Data |
| ServiceIndication | string | String containing the Service Indication or Service Identifier |
| Msisdn | string | String containing an additional or basic MSISDNpattern: '[0-9]{5,15}$' |
| PrivateId | string | String containing a Private User Identity or a Private Service Identity.  |
| ImsPublicId | string | String containing an IMS Public Identity in SIP URI format or TEL URI format, as specified 3GPP TS 23.003 [2]Pattern; "^(sip\:([a-zA-Z0-9\_\-.!~\*()&=+$,;?\/]+)\@([A-Za-z0-9]+([-A-Za-z0-9]+)\.)+[a-z]{2,}|tel\:\+[0-9]{5,15})$" |
| cscfFilterSetId | integer | Contains the identifier of a specific filter set in the S-CSCF.Minimum=0 |
| SptGroupId | integer | Contains the identifier of the Group of SPTs.Minimum=0 |

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

##### 6.2.6.3.x1 Enumeration: TypeOfCondition

The enumeration TypeOfCondition represents the type of condition to be applied to the logical expression of SPT groups and SPTs. See 3GPP TS 29.228 [xx], Annex C

Table 6.2.6.3.x1-1: Enumeration TypeOfCondition

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| "CNF" | Conjunctive form |  |
| "DNF" | Disjunctive form |  |

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

##### 6.2.6.3.x2 Enumeration: RegistrationType

The enumeration RegistrationType represents the type of registration associated to the REGISTER request.

Table 6.2.6.3.x2-1: Enumeration RegistrationType

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| "INITIAL\_REGISTRATION" | The request is related to an initial registration |  |
| "RE\_REGISTRATION" | The request is related to a re-registration |  |
| "DE\_REGISTRATION" | The request is related to a de-registration |  |

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

##### 6.2.6.3.x3 Enumeration: RequestDirection

The enumeration RequestDirection represents the direction of the request in combination with the registration status of the user as evaluated in the S-CSCF.

Table 6.2.6.3.x3-1: Enumeration RequestDirection

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| "ORIGINATING\_REGISTERED" | The request is originated by an explicitly registered user. |  |
| "ORIGINATING\_UNREGISTERED" | The request is originated by a non-registered user. |  |
| "ORIGINATING\_CDIV " | The REGISTER request is related to an originating request after call diversion service (regardless of the registration state). |  |
| "TERMINATING\_REGISTERED" | The request is targeted to an explicitly registered user. |  |
| "TERMINATING \_UNREGISTERED" | The request is targeted to a non-registered user. |  |

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

##### 6.2.6.3.x4 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.x4-1: 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 [xy] for the use of this information. |

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

## A.3 Nhss\_imsSDM API

openapi: 3.0.0

info:

 version: '1.0.0'

 title: 'Nhss\_imsSDM'

 description: |

 Nhss Subscriber Data Management Service for IMS.

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externalDocs:

 description: 3GPP TS 29.562 Unified Data Management Services, version 16.0.0

 url: 'http://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/profile-data/ifcs:

 get:

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

 operationId: GetIfcs

 tags:

 - IFCs Retrieval

 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/Ifcs'

 '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

 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'

 '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}/repository-data/{serviceIndication}:

 get:

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

 operationId: GetRepositoryDataServInd

 tags:

 - Repository data

 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'

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '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

 parameters:

 - name: imsUeId

 in: path

 description: IMS Identity

 required: true

 schema:

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

 - name: privateId

 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'

 '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

 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/PublicIdentities'

 '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:

 schemas:

# COMPLEX TYPES:

 ScscfCapabilityList:

 type: object

 properties:

 mandatoryCapabilityList:

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

 optionalCapabilityList:

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

 anyOf:

 - required: [mandatoryCapabilityList]

 - required: [optionalCapabilityList]

 Capabilities:

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 RepositoryData:

 type: object

 required:

 - serviceData

 - sequenceNumber

 properties:

 sequenceNumber:

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

 serviceData:

 type: string

 format: byte

 MsisdnList:

 type: object

 required:

 - basicMsisdn

 properties:

 basicMsisdn:

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

 additionalMsisdns:

 type: array

 minItems: 1

 items:

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

 PublicIdentities:

 type: object

 required:

 - publicIdentities

 properties:

 publicIdentities:

 type: array

 items:

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

 minItems: 1

 uniqueItems: true

 PublicIdentity:

 type: object

 required:

 - imsPublicId

 - identityType

 properties:

 imsPublicId:

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

 identityType:

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

 irsIsDefault:

 type: boolean

 aliasGroupId:

 type: integer

 Ifcs:

 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:

 type: object

 required:

 - priority

 - appServer

 properties:

 priority:

 type: integer

 minimum: 1

 trigger:

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

 appServer:

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

 TriggerPoint:

 type: object

 required:

 - conditionType

 - sptList

 properties:

 conditionType:

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

 sptList:

 type: array

 items:

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

 minItems: 1

 Spt:

 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:

 type: object

 required:

 - header

 properties:

 header:

 type: string

 content:

 type: string

 SdpDescription:

 type: object

 required:

 - line

 properties:

 line:

 type: string

 content:

 type: string

 ApplicationServer:

 type: object

 required:

 - asUri

 properties:

 asUri:

 type: string

 sessionContinue:

 type: boolean

 serviceInfoList:

 type: array

 items:

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

 minItems: 1

# SIMPLE TYPES:

 Capability:

 type: integer

 ImsUeId:

 type: string

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

 SequenceNumber:

 type: integer

 minimum: 0

 ServiceIndication:

 type: string

 Msisdn:

 type: string

 pattern: '[0-9]{5,15}$'

 PrivateId:

 type: string

 ImsPublicId:

 type: string

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

 cscfFilterSetId:

 type: integer

 minimum: 0

 SptGroupId:

 type: integer

 minimum: 0

# ENUMS:

 IdentityType:

 anyOf:

 - type: string

 enum:

 - DISTINCT\_IMPU

 - DISTINCT\_PSI

 - WILDCARDED\_IMPU

 - WILDCARDED\_PSI

 - type: string

 TypeOfCondition:

 anyOf:

 - type: string

 enum:

 - CNF

 - DNF

 - type: string

 RegistrationType:

 anyOf:

 - type: string

 enum:

 - INITIAL\_REGISTRATION

 - RE\_REGISTRATION

 - DE\_REGISTRATION

 - type: string

 RequestDirection:

 anyOf:

 - type: string

 enum:

 - ORIGINATING\_REGISTERED

 - ORIGINATING\_UNREGISTERED

 - ORIGINATING\_CDIV

 - TERMINATING\_REGISTERED

 - TERMINATING\_UNREGISTERED

 - type: string

 ServiceInformation:

 anyOf:

 - type: string

 enum:

 - INCLUDE\_REGISTER\_REQUEST

 - INCLUDE\_REGISTER\_RESPONSE

 - INCLUDE\_IMSI

 - type: string

\* \* \* End of Changes \* \* \* \*