**3GPP TSG-CT WG4 Meeting #101eC4-205**

**E-Meeting, 03rd – 13th November 2020 was C4-205291**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.505** | **CR** | **0312** | **rev** | **-1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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 |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Pattern alignment for ueId in resource URIs | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5WWC | | | | |  | ***Date:*** | | | 2020-11-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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:*** | | Pattern for ueId in tables for resource URI variables are not aligned with OpenAPI definitions. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Remove the pattern and refer to 29.571 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Misalignment can result in interoperability problems. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2.2.2, 5.2.3.2, 5.2.4.2, 5.2.5.2, 5.2.6.2, 5.2.7.2, 5.2.8.2, 5.2.9.2, 5.2.10.2, 5.2.11.2, 5.2.12.2, 5.2.12A.2, 5.2.12B.2, 5.2.13.2, 5.2.14.2, 5.2.15.2, 5.2.16.2, 5.2.17.2, 5.2.18.2, 5.2.19.2, 5.2.20.3.2, 5.2.20.3.3, 5.2.22.2, 5.2.23.2, 5.2.24.2, 5.2.25.2, 5.2.25A.2, 5.2.25B.2, 5.2.25C.2, 5.2.26.2, 6.2.27.2, 5.2.28.2, 5.2.31.2, 5.2.32.2, A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 to the following API:  Nudr\_DR | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

#### 5.2.2.2 Resource Definition

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

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

Table 5.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

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

#### 5.2.3.2 Resource Definition

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

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

Table 5.2.3.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (<MCC><MNC>)  pattern: "^[0-9]{5,6}$" |

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

#### 5.2.4.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.4.2-1.

Table 5.2.4.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (<MCC><MNC>)  pattern: "^[0-9]{5,6}$" |

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

#### 5.2.5.2 Resource Definition

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

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

Table 5.2.5.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (<MCC><MNC>)  pattern: "^[0-9]{5,6}$" |

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

#### 5.2.6.2 Resource Definition

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

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

Table 5.2.6.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.7.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.7.2-1.

Table 5.2.7.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.8.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 6.2.3.4.2-1.

Table 5.2.8.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.4.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.9.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/{ueId}/context-data/smf-registrations/{pduSessionId}

This resource shall support the resource URI variables defined in table 5.2.9.2-1.

Table 5.2.9.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.4.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| pduSessionId | The pduSessionId identifies an individual SMF registration. |

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

#### 5.2.10.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.10.2-1.

Table 5.2.10.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| NOTE: The content of ueId SUPI or GPSI depends on the service. | |

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

#### 5.2.11.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.11.2-1.

Table 5.2.11.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.12.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.12.2-1.

Table 5.2.12.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.12A.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.12A.2-1.

Table 5.2.12A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.12B.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.12B.2-1.

Table 5.2.12B.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.13.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.13.2-1.

Table 5.2.13.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (<MCC><MNC>)  pattern: "^[0-9]{5,6}$" |

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

#### 5.2.14.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.14.2-1.

Table 5.2.14.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.15.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.15.2-1.

Table 5.2.15.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| Ue-id | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| serving-plmn-id | Represents the Serving PLMN ID (<MCC><MNC>)  pattern: "^[0-9]{5,6}$" |

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

#### 5.2.16.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.16.2-1.

Table 5.2.16.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.17.2 Resource Definition

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

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

Table 5.2.17.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (as allocated by the UDR) |

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

#### 5.2.18.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.18.2-1.

Table 5.2.18.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.19.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.19.2-1.

Table 5.2.19.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (allocated by the UDR) |

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

##### 5.2.20.3.2 GET

This method shall support the URI query parameters specified in table 5.2.20.3.2-1.

Table 5.2.20.3.2-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| ue-id | VarUeId | M | 1 | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.20.3.2-2 and the response data structures and response codes specified in table 5.2.20.3.2-3.

Table 5.2.20.3.2-2: Data structures supported by the GET Request Body on this resource

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

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

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

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

##### 5.2.20.3.3 DELETE

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| ue-id | VarUeId | M | 1 | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) of the UE associated to this subscription.  Pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| nf-instance-id | NfInstanceId | C | 0..1 | If included, this IE shall contain the Instance ID of the original NF Service Consumer of the UDM that created the subscription, and the UDR shall delete all subscriptions associated to the ue-id that were created by this specific nf-instance-id.  If not included, the UDR shall delete all subscriptions matching the rest of query parameters.  (See NOTE) |
| delete-all-nfs | boolean | C | 0..1 | If included, this IE indicates that the UDR shall delete all subscriptions associated to the ue-id.  (See NOTE) |
| implicit-unsubscribe-indication | boolean | O | 0..1 | If included, this IE shall contain the content of the "implicitUnsubscribe" attribute sent during the creation of the subscription in UDM.  If it is set to true, it means that the UDR shall delete all those subscriptions from NF Service Consumers of UDM, whose implicitUnsubscribe value is set to true.  It not included, or set to false, the UDR shall delete all subscriptions matching the rest of query parameters. |
| NOTE: Either "nf-instance-id" or "delete-all-nfs" shal be included in the request. | | | | |

This method shall support the request data structures specified in table 5.2.20.3.3-2 and the response data structures and response codes specified in table 5.2.20.3.3-3.

Table 5.2.20.3.3-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  | The request body shall be empty. |

Table 5.2.20.3.3-3: Data structures supported by the DELETE Response Body on this resource

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

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

#### 5.2.22.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.22.2-1.

Table 5.2.22.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (<MCC><MNC>)  pattern: "^[0-9]{5,6}$" |

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

##### 5.2.23.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.23.2-1.

Table 5.2.23.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.24.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.24.2-1.

Table 5.2.24.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

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

#### 5.2.25.2 Resource Definition

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

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

Table 5.2.25.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

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

#### 5.2.25A.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.25A.2-1.

Table 5.2.25A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

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

#### 5.2.25B.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.25B.2-1.

Table 5.2.25B.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

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

#### 5.2.25C.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.25C.2-1.

Table 5.2.25C.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

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

#### 5.2.26.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.26.2-1.

Table 5.2.26.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (<MCC><MNC>)  pattern: "^[0-9]{5,6}$" |

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

#### 5.2.27.2 Resource Definition

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

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

Table 5.2.27.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

##### 5.2.28.2 Resource Definition

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

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

Table 5.2.28.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

#### 5.2.31.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.31.2-1.

Table 5.2.31.2-1: Resour ce URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (allocated by the UDM) |

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

#### 5.2.32.2 Resource Definition

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

This resource shall support the resource URI variables defined in table 5.2.32.2-1.

Table 5.2.32.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

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

## A.2 Nudr\_DataRepository API for Subscription Data

For the purpose of referencing entities in the Open API file defined in this Annex, it shall be assumed that this Open API file is contained in a physical file named "TS29505\_Subscription\_Data.yaml".

openapi: 3.0.0

info:

version: '-'

title: 'Unified Data Repository Service API file for subscription data'

description: |

Unified Data Repository Service (subscription data).

The API version is defined in 3GPP TS 29.504.

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externalDocs:

description: 3GPP TS 29.505 V16.4.0; 5G System; Usage of the Unified Data Repository Service for subscription data; Stage 3

url: 'http://www.3gpp.org/ftp/Specs/archive/29\_series/29.505/'

paths:

/subscription-data/{ueId}/authentication-data/authentication-subscription:

get:

summary: Retrieves the authentication subscription data of a UE

operationId: QueryAuthSubsData

tags:

- Authentication Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:authentication-subscription:read

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

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/AuthenticationSubscription'

default:

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

patch:

summary: modify the authentication subscription data of a UE

operationId: ModifyAuthenticationSubscription

tags:

- Authentication Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:authentication-subscription:modify

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

default:

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

/subscription-data/{ueId}/authentication-data/authentication-status:

put:

summary: To store the Authentication Status data of a UE

operationId: CreateAuthenticationStatus

tags:

- Authentication Status (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/AuthEvent'

responses:

'204':

description: Upon success, an empty response body shall be returned

default:

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

get:

summary: Retrieves the Authentication Status of a UE

operationId: QueryAuthenticationStatus

tags:

- AuthEvent (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

description: Supported Features

in: query

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/AuthEvent'

default:

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

delete:

summary: To remove the Authentication Status of a UE

operationId: DeleteAuthenticationStatus

tags:

- AuthEvent (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'204':

description: Upon success, an empty response body shall be returned.

default:

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

/subscription-data/{ueId}/authentication-data/authentication-status/{servingNetworkName}:

put:

summary: To store the individual Authentication Status data of a UE

operationId: CreateIndividualAuthenticationStatus

tags:

- Individual Authentication Status (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingNetworkName

in: path

description: Serving Network Name

required: true

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/ServingNetworkName'

requestBody:

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/AuthEvent'

responses:

'204':

description: Upon success, an empty response body shall be returned

default:

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

get:

summary: Retrieves the Individual Authentication Status of a UE

operationId: QueryIndividualAuthenticationStatus

tags:

- Individual AuthEvent (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingNetworkName

in: path

description: Serving Network Name

required: true

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/ServingNetworkName'

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

description: Supported Features

in: query

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/AuthEvent'

default:

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

delete:

summary: To remove the Individual Authentication Status of a UE

operationId: DeleteIndividualAuthenticationStatus

tags:

- Individual AuthEvent (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingNetworkName

in: path

description: Serving Network Name

required: true

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/ServingNetworkName'

responses:

'204':

description: Upon success, an empty response body shall be returned.

default:

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

/subscription-data/{ueId}/ue-update-confirmation-data/sor-data:

put:

summary: To store the SoR acknowledgement information of a UE

operationId: CreateAuthenticationSoR

tags:

- Authentication SoR (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

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

responses:

'204':

description: Expected response to a valid request

default:

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

get:

summary: Retrieves the SoR acknowledgement information of a UE

operationId: QueryAuthSoR

tags:

- Authentication SoR (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supportedFeatures

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

default:

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

/subscription-data/{ueId}/ue-update-confirmation-data/upu-data:

put:

summary: To store the UPU acknowledgement information of a UE

operationId: CreateAuthenticationUPU

tags:

- Authentication UPU (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

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

responses:

'204':

description: Expected response to a valid request

default:

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

get:

summary: Retrieves the UPU acknowledgement information of a UE

operationId: QueryAuthUPU

tags:

- Authentication UPU (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supportedFeatures

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

default:

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

/subscription-data/{ueId}/ue-update-confirmation-data/subscribed-snssais:

put:

summary: To store the NSSAI update acknowledgement information of a UE

operationId: Create NSSAI update ack

tags:

- NSSAI update ack (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

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

responses:

'204':

description: Expected response to a valid request

default:

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

get:

summary: Retrieves the UPU acknowledgement information of a UE

operationId: QueryNssaiAck

tags:

- NSSAI ACK (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supportedFeatures

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

default:

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

/subscription-data/{ueId}/ue-update-confirmation-data/subscribed-cag:

put:

summary: To store the CAG update acknowledgement information of a UE

operationId: CreateCagUpdateAck

tags:

- CAG update ack (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

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

responses:

'204':

description: Expected response to a valid request

default:

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

get:

summary: Retrieves the CAG acknowledgement information of a UE

operationId: QueryCagAck

tags:

- CAG ACK (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

default:

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

\*\*\*\*\*\*\*\*\*\*text not shown for clarity\*\*\*\*\*\*\*\*\*\*\*\*

\* \* \* End Of Change \* \* \* \*