**3GPP TSG-CT3 Meeting #118e C3-215298\_r1**

**E-Meeting, 11th – 15th October 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.522** | **CR** | **0436** | **rev** | **-** | **Current version:** | **17.3.0** |  |
|  | | | | | | | | |
| *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:*** | New Nnef\_MBSTMGI service definition - API part | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBS | | | | |  | ***Date:*** | | | 2021-09-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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:*** | | SA2 has further progressed the Stage 2 normative work on 5MBS WI and specified in 3GPP TS 23.247 (clause 9.4) the new NEF services that need to be supported. The new Nnef\_MBSTMGI service exposed by the NEF needs hence to be defined in TS 29.522. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | This CR proposes to:   * Define the API part of the new Nnef\_MBSTMGI service exposed by the NEF. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | * 5MBS requirements from Stage 2 not implemented in Stage 3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 5.y (new subclause) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not impact OpenAPI specification files. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* Start of changes \* \* \* \*

# 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 23.502: "Procedures for the 5G system".

[3] 3GPP TS 23.501: "System Architecture for the 5G".

[4] 3GPP TS 29.122: "T8 reference point for northbound Application Programming Interfaces (APIs)".

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

[6] 3GPP TS 33.501: "Security architecture and procedures for 5G System".

[7] 3GPP TS 29.514: "5G System; Policy Authorization Service; Stage 3".

[8] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces; Stage 3".

[9] 3GPP TS 29.521: "5G System; Binding Support Management Service; Stage 3".

[10] Void.

[11] 3GPP TS 23.222: "Common API Framework for 3GPP Northbound APIs; Stage 2".

[12] 3GPP TS 29.222: "Common API Framework for 3GPP Northbound APIs; Stage 3".

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

[14] 3GPP TS 33.122: "Security Aspects of Common API Framework for 3GPP Northbound APIs".

[15] Void.

[16] IETF RFC 5246: "The Transport Layer Security (TLS) Protocol Version 1.2".

[17] 3GPP TS 29.503: "5G System; Unified Data Management Services; Stage 3".

[18] 3GPP TS 29.518: "5G System; Access and Mobility Management Services; Stage 3".

[19] 3GPP TS 29.554: "5G System; Background Data Transfer Policy Control Service; Stage 3".

[20] 3GPP TS 29.504: "5G System; Unified Data Repository Services; Stage 3".

[21] 3GPP TR 21.900: "Technical Specification Group working methods".

[22] 3GPP TS 29.523: "5G System; Policy Control Event Exposure Service; Stage 3".

[23] 3GPP TS 29.519: "5G System; Usage of the Unified Data Repository service for Policy Control Data, Application Data and Structured Data for Exposure; Stage 3".

[24] 3GPP TS 29.541: "5G System; Network Exposure (NE) function services for Non-IP Data Delivery (NIDD); Stage 3".

[25] 3GPP TS 29.542: "5G System, Session management services for Non-IP Data Delivery (NIDD); Stage 3".

[26] 3GPP TS 29.508: "5G System; Session Management Event Exposure Service; Stage 3".

[27] 3GPP TS 29.520: "5G System; Network Data Analytics Services; Stage 3".

[28] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G system (5GS)".

[29] 3GPP TS 23.288: "Architecture enhancements for 5G System (5GS) to support network data analytics services".

[30] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".

[31] Void

[32] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[33] 3GPP TS 24.588: "Vehicle-to-Everything (V2X) services in 5G System (5GS); User Equipment (UE) policies; Stage 3".

[34] 3GPP TS 29.572: "5G System; Location Management Services; Stage 3".

[35] 3GPP TS 29.515: "5G System; Gateway Mobile Location Services; Stage 3".

[36] 3GPP TS 23.273: "5G System Location Services (LCS)".

[37] 3GPP TS 33.535: "Authentication and Key Management for Applications (AKMA) based on 3GPP credentials in the 5G System (5GS)".

[38] 3GPP TS 29.535: "5G System; AKMA Anchor Services; Stage 3".

[39] 3GPP TS 33.220: "Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA)".

[40] IETF RFC 7542: "The Network Access Identifier".

[41] 3GPP TS 29.512: "5G System; Session Management Policy Control Service; Stage 3".

[42] 3GPP TS 23.548: "5G System Enhancements for Edge Computing; Stage 2".

[43] 3GPP TS 29.534: "5G System; Access and Mobility Policy Authorization Service; Stage 3".

[44] IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".

[45] IEEE Std 1588-2019: "IEEE Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control".

[46] IEEE Std 802.1AS-2020: "IEEE Standard for Local and metropolitan area networks--Timing and Synchronization for Time-Sensitive Applications".

[47] 3GPP TS 29.536: "5G System; Network Slice Admission Control Services; Stage 3".

[48] 3GPP TS 24.526: "User Equipment (UE) policies for 5G System (5GS); Stage 3".

[49] 3GPP TS 24.555: "Proximity based services (ProSe) in 5G system (5GS); User Equipment (UE) policies; Stage 3".

[50] 3GPP TS 29.565: "5G System; Time Sensitive Communication and Time Synchronization Function Services; Stage 3".

[51] IEEE 802.1Q: "Virtual Bridged Local Area Networks".

[cc] 3GPP TS 29.532: "5G System; 5G Multicast-Broadcast Session Management Services; Stage 3".

\* \* \* Next changes \* \* \* \*

## 5.y MBSTMGI API

### 5.y.1 Introduction

The Nnef\_MBSTMGI service shall use the MBSTMGI API.

The API URI of MBSTMGI API shall be:

**{apiRoot}/3gpp-mbs-tmgi/v1**

with the following components:

- "apiRoot" is set as defined in subclause 5.2.4 of 3GPP TS 29.122 [4].

- "apiName" shall be set to "3gpp-mbs-tmgi".

- "apiVersion" shall be set to "v1" for the current version defined in the present document.

All resource URIs in the subclauses below are defined relative to the above root URI.

### 5.y.2 Resources

There are no resources defined for this API in this release of the specification.

### 5.y.3 Custom Operations without associated resources

#### 5.y.3.1 Overview

The structure of the custom operation URIs of the SliceStatus API is shown in Figure 5.y.3.1-1.



Figure 5.y.3.1-1: Custom operation URI structure of the MBSTMGI API

Table 5.y.3.1-1 provides an overview of the custom operations and applicable HTTP methods.

Table 5.y.3.1-1: Custom operations without associated resources

|  |  |  |  |
| --- | --- | --- | --- |
| Operation name | Custom operation URI | Mapped HTTP method | Description |
| Allocate | /allocate | POST | Request the allocation of TMGI(s) for new 5MBS session(s) or the refresh of the expiry time of already allocated TMGI(s). |
| Deallocate | /deallocate | POST | Request the deallocation of TMGI(s). |

#### 5.y.3.2 Operation: Allocate

##### 5.y.3.2.1 Description

The custom operation enables an AF to request the allocation of TMGI(s) for new 5MBS session(s) or the refresh of the expiry time of already allocated TMGI(s).

##### 5.y.3.2.2 Operation Definition

This operation shall support the request and response data structures and response codes specified in table 5.y.3.2.2-1 and table 5.y.3.2.2-2.

Table 5.y.3.2.2-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| TmgiAllocRequest | M | 1 | Represents the parameters to request the allocation of TMGI(s) for new 5MBS session(s) or the refresh of the expiry time of already allocated TMGI(s). |

Table 5.y.3.2.2-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| TmgiAllocResponse | M | 1 | 200 OK | Successful case: The TMGI allocation information (e.g. allocated TMGIs, expiry time) or the refreshed expiry time for the concerned already allocated TMGI(s) is/are returned to the requesting AF. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing an alternative target URI located in an alternative NEF.  Redirection handling is described in subclause 5.2.10 of 3GPP TS 29.122 [4]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing an alternative target URI located in an alternative NEF.  Redirection handling is described in subclause 5.2.10 of 3GPP TS 29.122 [4] |
| NOTE: The mandatory HTTP error status codes for the POST method listed in Table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. | | | | |

Table 5.y.3.2.2-3: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative target URI located in an alternative NEF. |

Table 5.y.3.2.2-4: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative target URI located in an alternative NEF. |

Editor's note: Error cases and the related responses are FFS.

#### 5.y.3.3 Operation: Deallocate

##### 5.y.3.3.1 Description

The custom operation enables an AF to request the deallocation of TMGI(s).

##### 5.y.3.3.2 Operation Definition

This operation shall support the request and response data structures and response codes specified in table 5.y.3.3.2-1 and table 5.y.3.3.2-2.

Table 5.y.3.3.2-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| TmgiDeallocRequest | M | 1 | Represents the TMGI(s) deallocation request information (e.g. list of TMGI(s) to be deallocated). |

Table 5.y.3.3.2-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Successful case: The TMGI(s) have been deallocated. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing an alternative target URI located in an alternative NEF.  Redirection handling is described in subclause 5.2.10 of 3GPP TS 29.122 [4]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing an alternative target URI located in an alternative NEF.  Redirection handling is described in subclause 5.2.10 of 3GPP TS 29.122 [4] |
| NOTE: The mandatory HTTP error status codes for the POST method listed in Table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. | | | | |

Table 5.y.3.3.2-3: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative target URI located in an alternative NEF. |

Table 5.y.3.3.2-4: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative target URI located in an alternative NEF. |

Editor's note: Error cases and the related responses are FFS.

### 5.y.4 Notifications

#### 5.y.4.1 Introduction

Upon expiry of TMGI(s), the NEF shall send a notification to the AF including the concerned TMGI(s).

The NEF and the AF shall support the notification mechanism described in subclause 5.2.5 of 3GPP TS 29.122 [4]. Table 5.y.3.1-1 describes the notifications defined for this API.

Table 5.y.3.1-1: Notifications overview

|  |  |  |  |
| --- | --- | --- | --- |
| Notification | Callback URI | HTTP method or custom operation | Description  (service operation) |
| Notification of Allocated TMGI(s) Timer Expiry | {notificationUri} | POST | Enable the NEF to notify an AF of the timer expiry for already allocated TMGI(s). |

#### 5.y.4.2 Notification of Allocated TMGI(s) Timer Expiry

##### 5.y.4.2.1 Description

The Notification is used by the NEF to report timer expiry of already allocated TMGI(s) to the AF.

##### 5.y.4.2.2 Callback URI

The Callback URI **"{notificationUri}"** shall be used with the callback URI variables defined in table 5.y.4.2.2-1.

Table 5.y.4.2.2-1: Callback URI variables

|  |  |
| --- | --- |
| Name | Definition |
| notificationUri | Callback reference provided by the AF during the TMGI(s) allocation or expiry time refresh request as defined in Table 5.y.5.2.2-1. |

##### 5.y.4.2.3 Operation Definition

###### 5.y.4.2.3.1 Notification via HTTP POST

This method shall support the request data structures specified in table 5.y.4.2.3.1-1 and the response data structures and response codes specified in table 5.y.4.2.3.1-2 and the Location Headers specified in table 5.y.4.2.3.1-3 and table 5.y.4.2.3.1-4.

Table 5.y.4.2.3.1-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| ExpiryNotif | M | 1 | Represents the TMGI(s) timer expiry notification information (e.g. list of TMGI(s) for which the timer has expired). |

Table 5.y.4.2.3.1-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | The notification is received successfully. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection, during event notification. The response shall include a Location header field containing an alternative URI representing the end point of an alternative AF where the notification should be sent.  Redirection handling is described in subclause 5.2.10 of 3GPP TS 29.122 [4]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection, during event notification. The response shall include a Location header field containing an alternative URI representing the end point of an alternative AF where the notification should be sent.  Redirection handling is described in subclause 5.2.10 of 3GPP TS 29.122 [4]. |
| NOTE: The mandatory HTTP error status codes for the POST method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. | | | | |

Table 5.y.4.2.3.1-3: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI representing the end point of an alternative AF towards which the notification should be redirected. |

Table 5.y.4.2.3.1-4: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI representing the end point of an alternative AF towards which the notification should be redirected. |

Editor's note: Error cases and the related responses are FFS.

###### 5.y.4.2.3.2 Notification via Websocket

If supported by both AF and NEF and successfully negotiated, the Notification of Allocated TMGI(s) Timer Expiry may alternatively be delivered through the Websocket mechanism as defined in subclause 5.2.5.4 of 3GPP TS 29.122 [4].

Table 5.y.4.2.3.2-1: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI representing the end point of an alternative AF towards which the notification should be redirected. |

Table 5.y.4.2.3.2-2: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI representing the end point of an alternative AF towards which the notification should be redirected. |

Editor's note: Error cases and the related responses are FFS.

### 5.y.5 Data Model

#### 5.y.5.1 General

This subclause specifies the application data model supported by the SliceStatus API. Table 5.y.5.1-1 specifies the data types defined for the SliceStatus API.

Table 5.y.5.1-1: SliceStatus specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| TmgiAllocRequest | 5.y.5.2.2 | Represents the full set of parameters to initiate a TMGI(s) allocation request or the refresh of the expiry time of already allocated TMGI(s). |  |
| TmgiAllocResponse | 5.y.5.2.3 | Represents TMGI(s) allocation information or the refreshed expiry time for already allocated TMGI(s). |  |
| TmgiDeallocRequest | 5.y.5.2.4 | Represents information to request the deallocation of TMGI(s). |  |
| ExpiryNotif | 5.y.5.2.5 | Represents TMGI(s) timer expiry notification information. |  |

Table 5.y.5.1-2 specifies data types re-used by the SliceStatus API from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the SliceStatus API.

Table 5.y.5.1-2: SliceStatus API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Tmgi | 3GPP TS 29.571 [8] | Contains a TMGI. |  |
| TmgiAllocate | 3GPP TS 29.532 [cc] | Contains parameters to initiate a TMGI(s) allocation request or the refresh of the expiry time of already allocated TMGI(s). |  |
| TmgiAllocated | 3GPP TS 29.532 [cc] | Contains the TMGI(s) allocation information or the refreshed expiry time for already allocated TMGI(s). |  |
| Uri | 3GPP TS 29.122 [4] | Contains a TMGI. |  |
| WebsockNotifConfig | 3GPP TS 29.122 [4] | Contains the configuration parameters to set up notification delivery over Websocket protocol. |  |

#### 5.y.5.2 Structured data types

##### 5.y.5.2.1 Introduction

This subclause defines the structured data types to be used in resource representations.

##### 5.y.5.2.2 Type: TmgiAllocRequest

Table 5.y.5.2.2-1: Definition of type TmgiAllocRequest

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| afId | string | M | 1 | Contains the identifier of the AF that is sending the request. |  |
| tmgiParams | TmgiAllocate | M | 1 | Contains the parameters to request the allocation of TMGI(s) for new 5MBS session(s) or the refresh of the expiry time of already allocated TMGI(s). |  |
| notificationUri | Uri | O | 0..1 | The notification URI via which the AF desires to receive notifications on timer expiry for TMGI(s). |  |
| requestTestNotification | boolean | O | 0..1 | Set to "true" by the AF to request the NEF to send a test notification as defined in subclause 5.2.5.3 of 3GPP TS 29.122 [4].  Set to "false" or omitted otherwise. | Notification\_test\_event |
| websockNotifConfig | WebsockNotifConfig | O | 0..1 | Configuration parameters to set up notification delivery over Websocket protocol. | Notification\_websocket |
| suppFeat | SupportedFeatures | O | 0..1 | Indicates the features supported by the AF. |  |

##### 5.y.5.2.3 Type: TmgiAllocResponse

Table 5.y.5.2.3-1: Definition of type TmgiAllocResponse

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| tmgiInfo | TmgiAllocated | M | 1 | Contains the TMGI(s) allocation information or the refreshed expiry time for already allocated TMGI(s). |  |
| suppFeat | SupportedFeatures | O | 0..1 | Indicates the features supported by both the AF and the NEF. |  |

##### 5.y.5.2.4 Type: TmgiDeallocRequest

Table 5.y.5.2.4-1: Definition of type TmgiDeallocRequest

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| afId | string | M | 1 | Contains the identifier of the AF that is sending the request. |  |
| tmgis | array(Tmgi) | M | 1..N | Contains the list of TMGI(s) to be deallocated. |  |

##### 5.y.5.2.5 Type: ExpiryNotif

Table 5.y.5.2.5-1: Definition of type ExpiryNotif

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| tmgis | array(Tmgi) | M | 1..N | Contains the list of TMGI(s) to be deallocated. |  |

#### 5.y.5.3 Simple data types and enumerations

##### 5.y.5.3.1 Introduction

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

##### 5.y.5.3.2 Simple data types

The simple data types defined in Table 5.y.5.3.2-1 shall be supported.

Table 5.y.5.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
|  |  |  |  |

### 5.y.6 Used Features

The table below defines the features applicable to the SliceStatus API. Those features are negotiated as described in subclause 5.2.7 of 3GPP TS 29.122 [4].

Table 5.y.6-1: Features used by SliceStatus API

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
| 1 | Notification\_websocket | The delivery of notifications over Websocket is supported as described in 3GPP TS 29.122 [4]. This feature requires that the Notification\_test\_event feature is also supported. |
| 2 | Notification\_test\_event | The testing of notification connection is supported as described in 3GPP TS 29.122 [4]. |

\* \* \* End of changes \* \* \* \*