**3GPP TSG- Meeting # *C3-225182\_R1***

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0116** | **rev** | **-** | **Current version:** |  |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Correction of the tables for the re-used and API-specific data structures in the SEAL APIs | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NBI18 | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | |  |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The tables for API specific and API re-used data types shall contain descriptions and comments, respectively, for the data types, as well as be organized in alphabetical order. However, the tables for the SEAL APIs are not organized in this way. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | This CR introduces the correction for the tables of re-used and API-specific data structures:   * alphabetical order of the attributes; * correction of the descriptions and comments for attributes; and * adding the missed descriptions and comments for attributes. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | * Low quality of the specification; * Missed descriptions in the main body of the specification; * Possible interpretation issues due to complicated process of data type search and interpretation. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.1.1.4.1; 7.1.2.4.1; 7.2.1.4.1; 7.3.1.4.1; 7.4.1.4.1; 7.4.2.4.1; 7.5.1.4.1; 7.7.1.5.1; | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not affect any OpenAPI file. | | | | | | | | |
| ***()*** | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

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

##### 7.1.1.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API.

Table 7.1.1.4.1-1 specifies the data types defined specifically for the SS\_LocationReporting API service.

Table 7.1.1.4.1-1: SS\_LocationReporting API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| LocationReportConfiguration | 7.1.1.4.2.2 | Represents the location reporting configuration information. |  |
| LocationReportConfigurationPatch | 7.1.1.4.2.3 | Represents the requested modifications to the location reporting configuration information.  Used to partially update Individual SEAL Location Reporting Configuration resource. | PatchUpdate |

Table 7.1.1.4.1-2 specifies data types re-used by the SS\_LocationReporting API service.

Table 7.1.1.4.1-2: SS\_LocationReporting API Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Accuracy | 3GPP TS 29.122 [3] | Used to represent the desired level of accuracy of the requested location information. |  |
| DateTime | 3GPP TS 29.571 [21] | Used to represent the subscription duration. |  |
| DurationSec | 3GPP TS 29.571 [21] | Used to represent the time interval between successive location reports. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of optional features defined in table 7.1.1.6-1. |  |
| ValTargetUe | Clause 7.3.1.4.2.3 | Used to indicate either VAL User ID or VAL UE ID, to which location reporting applies. |  | |

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

##### 7.1.2.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API.

Table 7.1.2.4.1-1 specifies the data types defined specifically for the SS\_LocationAreaInfoRetrieval API service.

Table 7.1.2.4.1-1: SS\_LocationAreaInfoRetrieval API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
|  |  |  |  |

Table 7.1.2.4.1-2 specifies data types re-used by the SS\_LocationAreaInfoRetrieval API service.

Table 7.1.2.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Float | 3GPP TS 29.571 [21] | Used to represent the value of the range. |  |
| LMInformation | 7.5.1.4.2.8 | Used to represent the location information for a VAL User ID or a VAL UE ID. |  |
| LocationInfo | 3GPP TS 29.122 [3] | Used to represent the location information. |  |

\* \* \* Next change \* \* \* \*

##### 7.2.1.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API

Table 7.2.1.4.1-1 specifies the data types defined specifically for the SS\_GroupManagement API service.

Table 7.2.1.4.1-1: SS\_GroupManagement API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| VALGroupDocument | 7.2.1.4.2.2 | Represents details of the VAL group document information. |  |
| VALGroupDocumentPatch | 7.2.1.4.2.3 | Represent details of the partial update of VAL group document information. | PatchUpdate |

Table 7.2.1.4.1-2 specifies data types re-used by the SS\_GroupManagement API service.

Table 7.2.1.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| ExternalGroupId | 3GPP TS 29.122 [3] | Used to represent the the external group identifier related to the member UEs of the group. |  |
| LocationArea5G | 3GPP TS 29.122 [3] | Represents location information. |  |
| LocationInfo | 3GPP TS 29.122 [3] | The location information related to VAL group. |  |
| PduSessionType | 3GPP TS 29.571 [21] | Identifies PDU Session Type. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of optional features defined in table 7.2.1.6-1. |  |
| ValTargetUe | Clause 7.3.1.4.2.3 | Used to indicate either VAL User ID or VAL UE ID, to which location reporting applies. |  |

\* \* \* Next change \* \* \* \*

##### 7.3.1.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API

Table 7.3.1.4.1-1 specifies the data types defined specifically for the SS\_UserProfileRetrieval API service.

Table 7.3.1.4.1-1: SS\_UserProfileRetrieval API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| ProfileDoc | 7.3.1.4.2.2 | Represents the profile information associated with VAL user ID or VAL UE ID. |  |
| ValTargetUe | 7.3.1.4.2.3 | Represents the information identifying a VAL user ID or VAL UE ID. |  |

Table 7.3.1.4.1-2 specifies data types re-used by the SS\_UserProfileRetrieval API service.

Table 7.3.1.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| n/a |  |  |  |

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

##### 7.4.1.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API

Table 7.4.1.4.1-1 specifies the data types defined specifically for the SS\_NetworkResourceAdaptation API service.

Table 7.4.1.4.1-1: SS\_NetworkResourceAdaptation API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| DeliveryMode | 7.4.1.4.3.2 | Indicates the delivery mode. |  |
| MulticastSubscription | 7.4.1.4.2.2 | Represents a multicast subscription. |  |
| NrmEvent | 7.4.1.4.3.3 | Indicates the NRM event. |  |
| NrmEventNotification | 7.4.1.4.2.5 | Represents a notification on an individual User Plane event. |  |
| ServiceAnnoucementMode | 7.4.1.4.3.1 | Indicates the service announcement mode. |  |
| StreamSpecification | 7.4.1.4.2.9 | Represents a stream specification that includes MAC addresses of the source and destination DS-TT ports. |  |
| TrafficSpecification | 7.4.1.4.2.10 | Represents the traffic class supported by the DS-TTs and available end-to-end maximum latency value. |  |
| TrafficSpecInformation | 7.4.1.4.2.7 | Represents the traffic class supported by the DS-TTs and available end-to-end latency value and Priority Code Point (PCP) value. |  |
| TscStreamAvailability | 7.4.1.4.2.8 | Represents the TSC stream availability information including the stream specification and list of traffic specifications. |  |
| TscStreamData | 7.4.1.4.2.6 | Represents the TSC stream data information. |  |
| UnicastSubscription | 7.4.1.4.2.3 | Represents a unicast subscription. |  |
| UserPlaneNotification | 7.4.1.4.2.4 | Represents a notification on User Plane events. |  |

Table 7.4.1.4.1-2 specifies data types re-used by the SS\_NetworkResourceAdaptation API service.

Table 7.4.1.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| DateTime | 3GPP TS 29.571 [21] | Used to represent the subscription duration. |  |
| DurationSec | 3GPP TS 29.122 [3] | Used to represent the duration in seconds. |  |
| Ipv4Addr | 3GPP TS 29.571 [21] | Used to identify the IPv4 address. |  |
| Ipv6Addr | 3GPP TS 29.571 [21] | Used to identify the IPv6 address. |  |
| LocalMbmsInfo | 3GPP TS 29.486 [27] | Used to represent the local MBMS information. | LocalMBMS |
| MacAddr48 | 3GPP TS 29.571 [21] | Used to identify a MAC address. |  |
| MbmsLocArea | 3GPP TS 29.122 [3] | Used to indicate the requested area of the MBMS bearer. |  |
| Port | 3GPP TS 29.122 [3] | Used to identify the port. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the supported optional features of the API. |  |
| Uint32 | 3GPP TS 29.571 [21] | Represents an unsigned integer. |  |
| Uinteger | 3GPP TS 29.571 [21] | Represents an unsigned integer. |  |
| Uri | 3GPP TS 29.571 [21] | Used to indicate the notification URI. |  |
| ValTargetUe | 7.3.1.4.2.3 | Used to identify either a VAL User ID or a VAL UE ID. |  |
| WebsockNotifConfig | 3GPP TS 29.122 [3] | Used to indicate the configuration parameters to set up notification delivery over Websocket protocol. |  |

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

##### 7.4.2.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API

Table 7.4.2.4.1-1 specifies the data types defined specifically for the SS\_NetworkResourceMonitoring API service.

Table 7.4.2.4.1-1: SS\_NetworkResourceMonitoring API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| FailureReport | 7.4.2.4.2.9 | Represents the failure report indicating the VAL UE(s) or VAL Stream ID(s) for which the NRM server failed to obtain the requested data. |  |
| FailureReason | 7.4.2.4.3.3 | Represents the failure reason. |  |
| MeasurementData | 7.4.2.4.2.3 | Presents the aggregated measurement data. |  |
| MeasurementDataType | 7.4.2.4.3.1 | Indicates the requested measurement data type. |  |
| MeasurementPeriod | 7.4.2.4.2.4 | Indicates the measurement time period. |  |
| MeasurementRequirements | 7.4.2.4.2.6 | Indicates the measurement requirements. |  |
| MonitoringReport | 7.4.2.4.2.2 | Indicates the monitoring report for VAL UEs list, VAL Group, or VAL Stream. |  |
| MonitoringSubscription | 7.4.2.4.2.7 | The monitoring subscription request. |  |
| ReportingRequirements | 7.4.2.4.2.5 | Indicates the requested requirements of reporting. |  |
| ReportingThreshold | 7.4.2.4.2.10 | Indicates a requested reporting threshold. |  |
| TerminationMode | 7.4.2.4.3.2 | Indicates the termination mode. |  |
| ThresholdHandlingMode | 7.4.2.4.3.4 | Indicates the multi-parameter threshold handling mode. |  |

Table 7.4.2.4.1-2 specifies data types re-used by the SS\_NetworkResourceMonitoring API service.

Table 7.4.2.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| AverWindow | 3GPP TS 29.571 [21] | Used to represent an aggregation window. |  |
| BitRate | 3GPP TS 29.571 [21] | Used to represent a bit rate measurement value. |  |
| DateTime | 3GPP TS 29.571 [21] | Used to represent a date and time. |  |
| DurationSec | 3GPP TS 29.571 [21] | Used to represent a measurement timestamp and measurement start time. |  |
| MatchingDirection | 3GPP TS 29.520 [33] | Used to indicate a threshold matching direction. |  |
| NotificationMethod | 3GPP TS 29.508 [32] | Used to indicate the reporting mode. |  |
| PacketLossRate | 3GPP TS 29.571 [21] | Used to represent a packet loss rate measurement value. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the supported optional features of the API. |  |
| Uinteger | 3GPP TS 29.571 [21] | Used to represent integer attributes within MeasurementData and ReportingRequirements data structures. |  |
| Uri | 3GPP TS 29.571 [21] | Used to indicate the notification URI. |  |
| ValTargetUe | clause 7.3.1.4.2.3 | Used to identify either a VAL User ID or a VAL UE ID. |  |
| WebsockNotifConfig | 3GPP TS 29.122 [3] | Used to indicate the configuration parameters to set up notification delivery over Websocket protocol. |  |

\* \* \* Next change \* \* \* \*

##### 7.5.1.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API.

Table 7.5.1.4.1-1 specifies the data types defined specifically for the SS\_Events API service.

Table 7.5.1.4.1-1: SS\_Events API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| EventSubscription | 7.5.1.4.2.4 | Represents the subscription to a single SEAL event. |  |
| IdentityFilter | 7.5.1.4.2.7 | Represents a filter of VAL User / UE identities belonging to a VAL service. |  |
| LMInformation | 7.5.1.4.2.8 | The location information for a VAL User ID or a VAL UE ID. |  |
| LocationAreaMonReport | 7.5.1.4.2.20 | Represents the event report to notify the VAL UEs moving in or moving out from a given location. |  |
| LocationDevMonReport | 7.5.1.4.2.15 | Represents the event report to notify the VAL UE/User's location deviation from a given location. |  |
| LocationInfoCriteria | 7.5.1.4.2.18 | Represents the location information to be monitored.  It includes the geographic location information or a reference UE along with the application defined proximity range from the reference UE. |  |
| LocDevNotification | 7.5.1.4.3.4 | Enumeration of location deviation notification reports. |  |
| MessageFilter | 7.5.1.4.2.9 | The message filter information applicable to member VAL UEs or Users of the VAL group in the group change notification. |  |
| MonitorEvents | 7.5.1.4.2.11 | Represents the details of the monitoring and analytics events. | NRM\_EventMonitor |
| MonitorEventsReport | 7.5.1.4.2.12 | Represents the monitoring and analytics events information related to VAL UE or User. | NRM\_EventMonitor |
| MonitorFilter | 7.5.1.4.2.10 | Represents the filter information VAL User or UEs and the related events to be monitored. | NRM\_EventMonitor |
| MonitorLocationInterestFilter | 7.5.1.4.2.14 | Filter information to subscribe for monitoring the VAL UE/User location in a given area of interest. |  |
| MonLocAreaInterestFltr | 7.5.1.4.2.17 | Filter information to subscribe for location area monitoring information for a given area of interest. |  |
| MonLocTriggerEvent | 7.5.1.4.3.5 | Identifies the triggering event in the location area monitor filtering. |  |
| MoveInOutUEDetails | 7.5.1.4.2.21 | Represents the list of UEs either moved into the location area or moved out of the location area. |  |
| ReferenceUEDetail | 7.5.1.4.2.19 | Represents the reference UE details |  |
| SEALEvent | 7.5.1.4.3.3 | Represents the type of SEAL events that can be subscribed. |  |
| SEALEventDetail | 7.5.1.4.2.5 | Represents the SEAL event detail. |  |
| SEALEventNotification | 7.5.1.4.2.3 | Represents an individual SEAL Event Subscription Notification. |  |
| SEALEventSubscription | 7.5.1.4.2.2 | Represents an individual SEAL Event Subscription resource. |  |
| SEALEventSubscriptionPatch | 7.5.1.4.2.22 | Represents the parameters to request the modification of a SEAL Event subscription resource. | SubscUpdate |
| TempGroupInfo | 7.5.1.4.2.16 | Represents the created temporary VAL group information. | GM\_TempGroup |
| VALGroupFilter | 7.5.1.4.2.6 | Represents a filter of VAL group identifiers belonging to a VAL service. |  |
| ValidityConditions | 7.5.1.4.2.13 | Represents the temporal and/or spatial conditions applied for the events to be monitored. | NRM\_EventMonitor |

Table 7.5.1.4.1-2 specifies data types re-used by the SS\_Events API service:

Table 7.5.1.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| AnalyticsEvent | 3GPP TS 29.522 [28] | Analytics event in NWDAF. | NRM\_EventMonitor |
| DateTime | 3GPP TS 29.571 [21] | Used to indicate a timestamp. |  |
| DurationSec | 3GPP TS 29.571 [21] | Used to indicate the notification interval in the location monitoring filter. |  |
| Float | 3GPP TS 29.571 [21] | Used to represent the fractional part of the proximity range in the reference UE details. |  |
| GeographicArea | 3GPP TS 29.572 [31] | Identifies the geographical information of the user(s). |  |
| LocationArea5G | 3GPP TS 29.122 [3] | User location area when the UE is attached to 5G. | NRM\_EventMonitor |
| LocationInfo | 3GPP TS 29.122 [3] | Location information |  |
| MonitoringType | 3GPP TS 29.122 [3] | Monitoring event type in 3GPP system core network. | NRM\_EventMonitor |
| ProfileDoc | Clause 7.3.1.4.2.2 | Used to send VAL User or VAL UE profile information as part of event detail in the event notification. |  |
| ReportingInformation | 3GPP TS 29.523 [20] | Used to indicate the reporting requirement, only the following information are applicable for SEAL:  - immRep  - notifMethod  - maxReportNbr  - monDur  - repPeriod |  |
| ScheduledCommunicationTime | 3GPP TS 29.122 [3] | Used to define the time frame for message filters. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of optional features defined in table 7.5.1.6-1. |  |
| TestNotification | 3GPP TS 29.122 [3] | Following differences apply:  - The SCEF is the SEAL server; and  - The SCS/AS is the subscribing VAL server. |  |
| TimeWindow | 3GPP TS 29.122 [3] | Time window identified by a start time and a stop time. | NRM\_EventMonitor |
| Uinteger | 3GPP TS 29.571 [21] | Used to represent maximum number of messages in MesageFilter data type. |  |
| Uri | 3GPP TS 29.122 [3] | Used to indicate a notification URI. |  |
| VALGroupDocument | Clause 7.2.1.4.2.2 | Used to send VAL group document as part of event detail in the event notification. |  |
| ValTargetUe | 7.3.1.4.2.3 | Used to identify a VAL user ID or a VAL UE ID. |  |
| WebsockNotifConfig | 3GPP TS 29.122 [3] | Following differences apply:  - The SCEF is the CAPIF core function; and  - The SCS/AS is the Subscribing functional entity. |  |

\* \* \* Next change \* \* \* \*

##### 7.7.1.5.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API.

Table 7.7.1.5.1-1 specifies the data types defined specifically for the SS\_NetworkSliceAdaptation API service.

Table 7.7.1.5.1-1: SS\_NetworkSliceAdaptation API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| NwSliceAdptInfo | 7.7.1.5.2.3 | Represents the information associated with requested network slice adaptation with the underlying network. |  |

Table 7.7.6.1.4.1-2 specifies data types re-used by the NetworkSliceAdaptation API service.

Table 7.7.1.5.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Dnn | 3GPP TS 29.571 [21] | Used to Identify a DNN. |  |
| Snssai | 3GPP TS 29.571 [21] | Used to Identify the S-NSSAI. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of the optional features. |  |
| NOTE: Properties marked with a feature as defined in clause 5.14.6 are applicable as described in clause 5.2.7 of 3GPP TS 29.122 [4]. If no feature is indicated, the related property applies for all the features. | | | |

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