**3GPP TSG-CT WG4 Meeting #106-eC4-215039**

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

**Source: China Mobile**

**Title: Pseudo-CR on Data Model**

**Spec: 3GPP TS 29.564 v0.1.0**

**Agenda item: 6.1.9**

**Document for: Decision**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

API definition section is still missing.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.564 v0.1.0.

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

### 6.1.6 Data Model

#### 6.1.6.1 General

This clause specifies the application data model supported by the API.

Table 6.1.6.1-1 specifies the data types defined for the Nupf\_EventExposureservice.

Table 6.1.6.1-1: Nupf\_EventExposure specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| NotificationData | 6.1.6.2.2 | The list of NotificationItems |  |
| NotificationItem | 6.1.6.2.3 | Represents a report on one subscribed event |  |
| QosMonitoringMeasurement | 6.1.6.2.4 | QoS Monitoring Measurement information |  |
| EventType | 6.1.6.3.3 | Event Type |  |

Table 6.1.6.1-2 specifies data types re-used by the Nupf\_EventExposure servicefrom other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Nupf\_EventExposure service.

Table 6.1.6.1-2: Nupf\_EventExposure re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| DateTime | 3GPP TS 29.571 [16] | Date time |  |
| Dnn | 3GPP TS 29.571 [16] | DNN |  |
| Gpsi | 3GPP TS 29.571 [16] | GPSI |  |
| Snssai | 3GPP TS 29.571 [16] | S-NSSAI |  |
| Supi | 3GPP TS 29.571 [16] | SUPI |  |

#### 6.1.6.2 Structured data types

##### 6.1.6.2.1 Introduction

This clause defines the structures to be used in resource representations.

##### 6.1.6.2.2 Type: NotificationData

Table 6.1.6.2.2-1: Definition of type NotificationData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| notificationItems | array(NotificationItem) | M | 1..N | The list of NotificationItem, each entry corresponds to a report on one subscribed event. |  |

##### 6.1.6.2.3 Type: NotificationItem

Table 6.1.6.2.3-1: Definition of type NotificationItem

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| eventType | EventType | M | 1 | The event type of the event on which the notification is generated. |  |
| ueIpv4Addr | Ipv4Addr | C | 0..1 | IPv4 address of the UE (NOTE 1) |  |
| ueIpv6Prefix | Ipv6Prefix | C | 0..1 | IPv6 address prefix of the UE (NOTE 1) |  |
| dnn | Dnn | O | 0..1 | When present, this attribute indicates the DNN of the PDU session on which the notification is generated. |  |
| snssai | Snssai | O | 0..1 | When present, this attribute indicates the S-NSSAI of the PDU session on which the notification is generated. |  |
| gpsi | Gpsi | O | 0..1 | When present, this attribute indicates the GPSI of the UE on which the notification is generated. |  |
| supi | Supi | O | 0..1 | When present, this attribute indicates the SUPI of the UE on which the notification is generated. |  |
| timeStamp | DateTime | M | 1 | The value represents the UTC time when the the information in this report was generated. |  |
| startTime | DateTime | O | 0..1 | When present, this attribute shall provide the timestamp when the information in this report was started |  |
| qosMonitoringMeasurement | QosMonitoringMeasurement | C | 0..1 | This attribute shall be present if eventType is set to "QOS\_MONITOR" |  |
| NOTE 1: At least one of ueIpv4Addr and ueIpv6Prefix shall be present. | | | | | |

Editor's Note: The information contained in the notification needs further study.

##### 6.1.6.2.4 Type: QosMonitoringMeasurement

Table 6.1.6.2.3-1: Definition of type QosMonitoringMeasurement

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| dlPacketDelay | Uint32 | O | 0..1 | When present, the value of this attribute is set to the measured downlink packet delay in millisecond (ms). |  |
| ulPacketDelay | Uint32 | O | 0..1 | When present, the value of this attribute is set to the measured uplink packet delay in millisecond (ms). |  |
| rtrPacketDelay | Uint32 | O | 0..1 | When present, the value of this attribute is set to the measured round trip packet delay in millisecond (ms). |  |

#### 6.1.6.3 Simple data types and enumerations

##### 6.1.6.3.1 Introduction

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

##### 6.1.6.3.2 Simple data types

The simple data types defined in table 6.1.6.3.2-1 shall be supported.

Table 6.1.6.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
|  | <one simple data type, i.e. boolean, integer, number, or string> |  |  |

##### 6.1.6.3.3 Enumeration: EventType

The enumeration EventType represents the type of event to which the service consumer may subscribe to and on which the notification is generated. It shall comply with the provisions defined in table 6.1.5.3.3-1.

Table 6.1.6.3.3-1: Enumeration EventType

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| "QOS\_MONITOR" | QoS Monitoring Measurement |  |

##### 6.1.6.3.4 Enumeration: <EnumType2>

And so on if there are more enumerations to define.

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