**3GPP TSG-CT WG4 Meeting #101eC4-205376**

**E-Meeting, 3rd – 13th November 2020 *was C4-205376***

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **29.503** | **CR** | **0540** | **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 | **X** |

|  |
| --- |
|  |
| ***Title:***  | Essential Correction on AF ID |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | 5G\_CIoT |  | ***Date:*** | 2020-10-19 |
|  |  |  |  |  |
| ***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 canbe 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | In 3GPP TS 29.503 Nudm PP API, the AF IDs are defined with data type NF Instance Id. As the PP API is intended to be used by external AFs which doesn't have NF instance ID to be specified, the AF ID cannot be a NF Instance Identifier. Instead AfId shall be used, which is specified in T8/N33 interface ({scsAsId} URI component), as done in NIDD information in Nudm\_SubscriberDataManagement service.From backward compatibility on OpenAPI, the afInstanceId IE is still kept but with string type to possibly accept a string identify on the T8/N33 interface as well as a UUID (also is a string). |
|  |  |
| ***Summary of change:*** |  1/ Change type of AfInstanceId to string type with descrIption updated. 2/ Update OpenAPI accordingly. |
|  |  |
| ***Consequences if not approved:*** | External Application Function cannot be indicated on UDM APIs, the PP service is not usable as expected. |
|  |  |
| ***Clauses affected:*** | 2, 6.5.6.2.4, 6.5.6.2.5, 6.5.6.2.6, 6.5.6.2.8, 6.5.6.2.12, 6.5.6.2.14, 6.5.6.2.15, 6.5.6.2.16, 6.6.6.2.17, A.6 |
|  |  |
|  | **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 backward compatible corrections to OpenAPI files for following APIs:- TS29503\_Nudm\_PP.yaml- TS29505\_Subscription\_Data.yaml |
|  |  |
| ***This CR's revision history:*** |  |

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

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

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

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

[7] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces Stage 3".

[8] 3GPP TS 23.003: "Numbering, addressing and identification".

[9] 3GPP TS 29.504: "5G System; Unified Data Repository Services; Stage 3".

[10] 3GPP TS 29.505: "5G System; Usage of the Unified Data Repository Services for Subscription Data; Stage 3".

[11] 3GPP TS 32.255: "Charging management; 5G data connectivity domain charging".

[12] 3GPP TS 32.298: "Charging management; Charging Data Record (CDR) parameter description".

[13] IETF RFC 7540: "Hypertext Transfer Protocol Version 2 (HTTP/2)".

[14] OpenAPI Initiative, "OpenAPI 3.0.0 Specification", <https://github.com/OAI/OpenAPI-Specification/blob/master/versions/3.0.0.md>

[15] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[16] IETF RFC 7807: "Problem Details for HTTP APIs".

[17] IETF RFC 7396: "JSON Merge Patch".

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

[19] 3GPP TS 29.510: "Network Function Repository Services; Stage 3".

[20] 3GPP TS 23.122: "Non-Access-Stratum (NAS) functions related to Mobile Station in idle mode".

[21] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".

[22] 3GPP TS 29.338: "Diameter based protocols to support Short Message Service (SMS) capable Mobile Management Entities (MMEs)"

[23] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".

[24] 3GPP TS 29.509: "Authentication Server Services; Stage 3".

[25] IETF RFC 7232: "Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests".

[26] IETF RFC 7234: "Hypertext Transfer Protocol (HTTP/1.1): Caching".

[27] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

[28] ETSI TS 102 225: "Smart Cards; Secured packet structure for UICC based applications".

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

[30] 3GPP TR 21.900: "Technical Specification Group working methods".

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

[32] 3GPP TS 23.632: "User Data Interworking, Coexistence and Migration"

[33] 3GPP TS 29.519: "Policy Data, Application Data and Structured Data for Exposure; Stage 3".

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

[35] 3GPP TS 23.288: "Architecture enhancements for 5G System (5GS) to support network data analytics services".

[36] 3GPP TS 29.518: "Access and Mobility Management Services".

[37] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G System (5GS); Stage 2".

[38] 3GPP TS 23.273: "5G System (5GS) Location Services (LCS); Stage 2".

[39] 3GPP TS 29.515: "5G System; Gateway Mobile Location Services; Stage 3".

[40] 3GPP TS 29.508: "5G System; Session Management Event Exposure Service; Stage 3".

[41] IETF RFC 6902: "JavaScript Object Notation (JSON) Patch".

[42] BBF TR-069: "CPE WAN Management Protocol".

[43] BBF TR-369: "User Services Platform (USP)".

[44] 3GPP TS 29.524: "5G System; Cause codes mapping between 5GC interfaces; Stage 3".

[45] 3GPP TS 29.122: "T8 reference point for Northbound APIs".

[46] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".

[47] 3GPP TS 22.071: "Location Services (LCS); Service description; Stage 1".

[48] 3GPP TS 32.422: "Telecommunication management; Subscriber and equipment trace; Trace control and configuration management".

[49] 3GPP TS 24.302: "Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks".

[50] IETF RFC 7230: "Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing".

[51] 3GPP TS 23.287: "Architecture enhancements for 5G System (5GS) to support Vehicle-to-Everything (V2X) services".

[52] 3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".

[53] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

[xx] 3GPP TS 29.522: "5G System; Network Exposure Function Northbound APIs; Stage 3".

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

##### 6.5.6.2.4 Type: PpSubsRegTimer

Table 6.5.6.2.4-1: Definition of type PpSubsRegTimer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| subsRegTimer | DurationSec | M | 1 | value in seconds |
| afInstanceId | string | M | 1 | The string identifying the originating AF (NOTE) |
| referenceId | ReferenceId | M | 1 | Transaction Reference ID |
| validityTime | DateTime | O | 0..1 | Identifies the point of time up to which the subsRegTimer parameter expires and it shall be deleted. If absent, it indicates that there is no expiration time for these expected UE parameters.If this IE is in request body, it indicates the expected validity time by consumer.If this IE is in response body, it indicates the confirmed validity time by UDM. |
| NOTE: When the service operation is originated by external AF via T8/N33 interface, information carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]) can be used as the value for this IE. |

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

##### 6.5.6.2.5 Type: PpActiveTime

Table 6.5.6.2.5-1: Definition of type PpActiveTime

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| activeTime | DurationSec | M | 1 | value in seconds |
| afInstanceId | string | M | 1 | The string identifying the originating AF (NOTE). |
| referenceId | ReferenceId | M | 1 | Transaction Reference ID |
| validityTime | DateTime | O | 0..1 | Identifies the point of time up to which the activeTime parameter expires and it shall be deleted. If absent, it indicates that there is no expiration time for these expected UE parameters.If this IE is in request body, it indicates the expected validity time by consumer.If this IE is in response body, it indicates the confirmed validity time by UDM. |
| NOTE: When the service operation is originated by external AF via T8/N33 interface, information carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]) can be used as the value for this IE. |

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

##### 6.5.6.2.6 Type: 5GVnGroupConfiguration

Table 6.5.6.2.6-1: Definition of type 5GVnGroupConfiguration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| 5gVnGroupData | 5GVnGroupData | C | 0..1 | Data of the 5G VN Group; may be absent in modification requests; shall be present otherwise |
| members | array(Gpsi) | C | 1..N | List of group members; may be absent in modification requests; shall be present in creation requests |
| referenceId | ReferenceId | C | 1 | Transaction Reference ID; shall be absent in modification requests; shall be present otherwise. |
| afInstanceId | string | C | 1 | The string identifying the originating AF (NOTE) |
| internalGroupIdentifier | GroupId | C | 0..1 | Allocated by the UDR; shall be present in successful PUT and GET responses on Nudr; otherwise shall be absent. |
| NOTE: When the service operation is originated by external AF via T8/N33 interface, information carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]) can be used as the value for this IE. |

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

##### 6.5.6.2.8 Type: ExpectedUeBehaviour

Table 6.5.6.2.8-1: Definition of type ExpectedUeBehaviour

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| afInstanceId | string | M | 1 | The string identifying the originating AF (NOTE X) |
| referenceId | ReferenceId | M | 1 | Identifies transaction reference ID genetrated by NEF. |
| stationaryIndication | StationaryIndicationRm | O | 0..1 | Identifies whether the UE is stationary or mobile(see TS 23.502 [3] clause 4.15.6.3); nullable. |
| communicationDurationTime | DurationSecRm | O | 0..1 | Indicates for how long the UE will normally stay in CM-Connected for data transmission(see TS 23.502 [3] clause 4.15.6.3); nullable. |
| periodicTime | DurationSecRm | O | 0..1 | Identifies interval time of periodic communication (see TS 23.502 [3] clause 4.15.6.3); nullable. |
| scheduledCommunicationTime | ScheduledCommunicationTimeRm | O | 0..1 | Identifies time and day of the week when the UE is available for communication(see TS 23.502 [3] clause 4.15.6.3); nullable. |
| scheduledCommunicationType | ScheduledCommunicationTypeRm | O | 0..1 | Indicates that the Scheduled Communication Type (see TS 23.502 [3] clause 4.15.6.3); nullable.(Note 4) |
| expectedUmts | array(LocationArea) | O | 1..N | Identifies the UE's expected geographical movement. The attribute is only applicable in 5G(see TS 23.502 [3] clause 4.15.6.3); nullable.(NOTE 3) |
| trafficProfile | TrafficProfileRm | O | 0..1 | Identifies the type of data transmission: single packet transmission (UL or DL), dual packet transmission (UL with subsequent DL or DL with subsequent UL), multiple packets transmission; nullable |
| batteryIndication | BatteryIndicationRm | O | 0..1 | Indicates the power consumption type(s) of the UE (see TS 23.502 [3] clause 4.15.6.3); nullable. |
| validityTime | DateTime | O | 0..1 | If present, identifies when the expected UE behaviour parameters expire and shall be deleted locally if it expire(see TS 23.502 [3] clause 4.15.6.3).If this IE is in request body, it indicates the expected validity time by consumer.If this IE is in response body, it indicates the confirmed validity time by UDM.(NOTE 2) |
| NOTE 1: At least one of optional parameters (expect for validityTime) above shall be present.NOTE 2: If this attribute is omitted, no expiry for the expected UE behaviour parameters applies.NOTE 3: The first instance of the attribute represents the start of the location, and the last one represents the stop of the location.NOTE 4: The parameter "scheduledCommunicationType" shall be used together with the parameter "scheduledCommunicationTime".NOTE X: When the service operation is originated by external AF via T8/N33 interface, information carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]) can be used as the value for this IE. |

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

##### 6.5.6.2.12 Type: EcRestriction

Table 6.5.6.2.12-1: Definition of type EcRestriction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| afInstanceId | string | M | 1 | The string identifying the originating AF (NOTE) |
| referenceId | ReferenceId | M | 1 | Transaction Reference ID |
| plmnEcInfos | array(PlmnEcInfo) | O | 1..N | It may indicate a complete list of serving PLMNs where Enhanced Coverage shall be allowed and the detailed enhanced coverage restriction configuration under per the PLMN. |
| NOTE: When the service operation is originated by external AF via T8/N33 interface, information carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]) can be used as the value for this IE. |

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

##### 6.5.6.2.14 Type: PpDlPacketCountExt

Table 6.5.6.2.14-1: Definition of type PpDlPacketCountExt

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| afInstanceId | string | M | 1 | The string identifying the originating AF (NOTE) |
| referenceId | ReferenceId | M | 1 | Transaction Reference ID |
| validityTime | DateTime | O | 0..1 | Identifies the point of time up to which the value of parameter ppDlPacketCount expires and it shall be deleted. If absent, it indicates that there is no expiration time for these expected UE parameters.If this IE is in request body, it indicates the expected validity time by consumer.If this IE is in response body, it indicates the confirmed validity time by UDM. |
| NOTE: When the service operation is originated by external AF via T8/N33 interface, information carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]) can be used as the value for this IE. |

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

##### 6.5.6.2.15 Type: PpMaximumResponseTime

Table 6.5.6.2.15-1: Definition of type PpMaximumResponseTime

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| maximumResponseTime | DurationSec | M | 1 | This IE shall contain value of Maximum Response Time in seconds.Maximum Response Time identifies the time for which the UE stays reachable to allow the AF to reliably deliver the required downlink data, see clause 4.15.6.3a of 3GPP TS 23.502 [3]. |
| afInstanceId | string | M | 1 | The string identifying the originating AF (NOTE) |
| referenceId | ReferenceId | M | 1 | Transaction Reference ID |
| validityTime | DateTime | O | 0..1 | Identifies the point of time up to which the value of maximumResponseTime expires and it shall be deleted. If absent, it indicates that there is no expiration time.If this IE is in request body, it indicates the expected validity time by consumer.If this IE is in response body, it indicates the confirmed validity time by UDM. |
| NOTE: When the service operation is originated by external AF via T8/N33 interface, information carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]) can be used as the value for this IE. |

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

##### 6.5.6.2.16 Type: PpMaximumLatency

Table 6.5.6.2.16-1: Definition of type PpMaximumLatency

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| maximumLatency | DurationSec | M | 1 | This IE shall contain value of Maximum Latency in seconds.Maximum Latency identifies maximum delay acceptable for downlink data transfers, see clause 4.15.6.3a of 3GPP TS 23.502 [3]. |
| afInstanceId | string | M | 1 | The string identifying the originating AF (NOTE). |
| referenceId | ReferenceId | M | 1 | Transaction Reference ID |
| validityTime | DateTime | O | 0..1 | Identifies the point of time up to which the value of maximumLatency expires and it shall be deleted. If absent, it indicates that there is no expiration time.If this IE is in request body, it indicates the expected validity time by consumer.If this IE is in response body, it indicates the confirmed validity time by UDM. |
| NOTE: When the service operation is originated by external AF via T8/N33 interface, information carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]) can be used as the value for this IE. |

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

##### 6.5.6.2.17 Type: LcsPrivacy

Table 6.5.6.2.17-1: Definition of type LcsPrivacy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| afInstanceId |  string | C | 0..1 | When present, indicates NF Instance Id of the originating AF/NF.(NOTE) |
| referenceId | ReferenceId | C | 0..1 | This IE shall be present if LCS privacy parameters are provisioned by an AF.When present, indicates Transaction Reference ID(NOTE) |
| lpi | Lpi | O | 0..1 | If present, indicates the Location Privacy Indication |
| NOTE: If LCS privacy parameters are provisioned by UE, parameters afInstanceId and referenceId shall be not included, and if LCS privacy parameters are provisioned by AF, parameters afInstanceId and referenceId shall be included. The string identifying the originating AF, which is carried in {scsAsId} URI variable in resource URIs on T8/N33 interface (see clause 5 of 3GPP TS 29.122 [45]) or in {afId} URI variable in resource URIs on N33 interface (see clause 5 of 3GPP TS 29.522 [xx]). |

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

## A.6 Nudm\_PP API

openapi: 3.0.0

info:

 version: '1.1.1'

 title: 'Nudm\_PP'

 description: |

 Nudm Parameter Provision Service.

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externalDocs:

 description: 3GPP TS 29.503 Unified Data Management Services, version 16.5.0

 url: 'http://www.3gpp.org/ftp/Specs/archive/29\_series/29.503/'

servers:

 - url: '{apiRoot}/nudm-pp/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause clause 4.4 of 3GPP TS 29.501.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Text Skipped for Clarify \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

 PpSubsRegTimer:

 type: object

 required:

 - subsRegTimer

 - afInstanceId

 - referenceId

 properties:

 subsRegTimer:

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

 afInstanceId:

 type: string

 referenceId:

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

 validityTime:

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

 nullable: true

 PpActiveTime:

 type: object

 required:

 - activeTime

 - afInstanceId

 - referenceId

 properties:

 activeTime:

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

 afInstanceId:

 type: string

 referenceId:

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

 validityTime:

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

 nullable: true

 5GVnGroupConfiguration:

 type: object

 properties:

 5gVnGroupData:

 $ref: '#/components/schemas/5GVnGroupData'

 members:

 type: array

 items:

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

 minItems: 1

 referenceId:

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

 afInstanceId:

 type: string

 internalGroupIdentifier:

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

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Text Skipped for Clarify \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

 ExpectedUeBehaviour:

 type: object

 required:

 - afInstanceId

 - referenceId

 properties:

 afInstanceId:

 type: string

 referenceId:

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

 stationaryIndication:

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

 communicationDurationTime:

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

 scheduledCommunicationType:

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

 periodicTime:

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

 scheduledCommunicationTime:

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

 expectedUmts:

 type: array

 items:

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

 minItems: 1

 nullable: true

 description: Identifies the UE's expected geographical movement. The attribute is only applicable in 5G.

 trafficProfile:

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

 batteryIndication:

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

 validityTime:

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

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Text Skipped for Clarify \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

 EcRestriction:

 type: object

 required:

 - afInstanceId

 - referenceId

 properties:

 afInstanceId:

 type: string

 referenceId:

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

 plmnEcInfos:

 type: array

 items:

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

 minItems: 1

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Text Skipped for Clarify \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

 PpDlPacketCountExt:

 type: object

 required:

 - afInstanceId

 - referenceId

 properties:

 afInstanceId:

 type: string

 referenceId:

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

 validityTime:

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

 nullable: true

 PpMaximumResponseTime:

 type: object

 required:

 - maximumResponseTime

 - afInstanceId

 - referenceId

 properties:

 maximumResponseTime:

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

 afInstanceId:

 type: string

 referenceId:

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

 validityTime:

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

 nullable: true

 PpMaximumLatency:

 type: object

 required:

 - maximumLatency

 - afInstanceId

 - referenceId

 properties:

 maximumLatency:

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

 afInstanceId:

 type: string

 referenceId:

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

 validityTime:

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

 nullable: true

 LcsPrivacy:

 type: object

 properties:

 afInstanceId:

 type: string

 referenceId:

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

 lpi:

 $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/Lpi'

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Text Skipped for Clarify \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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