**3GPP TSG-CT WG3 Meeting #118e C3-215142**

**E-Meeting, 11th – 15th October 2021 (Revision of C3-21xxxx)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.522** | **CR** | **0415** | **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)*.* | | | | | | | | |
|  | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Update AM Policy Authorization service description and API definition | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17\_DCAMP | | | | |  | ***Date:*** | | | 2021-09-28 |
|  |  | | | |  | |  | | |  |
| ***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 WI TEI17\_DCAMP now is under maintenance status, SA2 LS reply(S2-2106963) refer to TS 23.503 clause 6.1.2.6.1 definition on the related input parameters, TS 23.502 clause 5.2.6.22 also updated input parameters. And geographical area has been described as e.g. a civic address or shapes.  Hence need to implement the related updates in this specification. Upon the proper error code descriptions in the procedure, the related editor’s notes can also be removed.  Upon Q3 in C3-214425 may have impacts to application Id and traffic filter parmeters, so need to update the procedure editor’s notes | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Remove the editor’s notes, update data type AppAmContextExpData and AppAmContextExpUpdateData and add new data type GeographicalArea with attributes according to SA2 specificiaitons.  Update the input parameter editor’s note and removed other ones. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Misalignment with stage 2. NEF cannot completely support AF triggered AM Policy Authorization. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.17.1, 5.17.1.2.3.2, 5.17.1.3.3.2, 5.17.1.3.3.3, 5.17.1.3.3.4, 5.17.1.4.3.2, 5.17.1.4.3.3, 5.17.2.2.3.1, 5.17.3.2, 5.17.3.3.2, 5.17.3.3.3, 5.17.3.3.m(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 impact the OpenAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

5.17.1 Resources

\*\*\* 2nd Change \*\*\*

5.17.1.2.3.2 POST

The POST method creates a new resource to Individual application AM context for a given AF. The AF shall initiate the HTTP POST request message and the NEF shall respond to the message. The NEF shall construct the URI of the created resource.

This method shall support the request data structures specified in table 5.17.1.2.3.2-1 and shall support the response data structures and response codes specified in table 5.17.1.2.3.2-2.

Table 5.17.1.2.3.2-1: Data structures supported by the POSTRequest Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AppAmContextExpData | M | 1 | Contains the exposure information for the creation of a new Individual application AM context resource. |

Table 5.17.1.2.3.2-2: Data structures supported by thePOST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response codes | Description |
| AppAmContextExpRespData | M | 1 | 201 Created | The Individual application AM context resource was created successfully.  The URI of the created resource shall be returned in the "Location" HTTP header. |
| 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 5.17.1.2.3.2-3: Headers supported by the 201 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure: {apiRoot}/3gpp-am-policyauthorization/v1/{afId}/ app-am-contexts/{appAmContextId} |

\*\*\* 3rd Change \*\*\*

5.17.1.3.3.2 GET

The GET method allows to read the existing application AM context for a given AF and a given application AM context Id. The AF shall initiate the HTTP GET request message and the NEF shall respond to the message.

This method shall support the URI query parameters specified in table 5.17.1.3.3.2-1.

**Table 5.17.1.3.3.2-1: URI query parameters supported by the****GET****method on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| N/A |  |  |  |  |

This method shall support the request data structures specified in table 5.17.1.3.3.2-2, the response data structures and response codes specified in table 5.17.1.3.3.2-3 and the Location Headers specified in table 5.17.1.3.3.2-4 and table 5.17.1.3.3.2-5.

**Table 5.17.1.3.3.2-2: Data structures supported by the GET****Request Body on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Description** |
| N/A |  |  |  |

**Table 5.17.1.3.3.2-3: Data structures supported by the****GET Response Body on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Response codes** | **Description** |
| AppAmContextExpData | M | 1 | 200 OK | Successful case.  The exposure information of an existing Individual application AM context in the request URI is returned. |
| N/A |  |  | 307 Temporary Redirect | Temporary redirection, during the AM context retrieval. The response shall include a Location header field containing an alternative URI of the resource 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, during the AM context retrieval. The response shall include a Location header field containing an alternative URI of the resource 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 GET method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. | | | | |

**Table 5.17.1.3.3.2-4: Headers supported by the 307 Response Code on this resource**

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

**Table 5.17.1.3.3.2-5: Headers supported by the 308 Response Code on this resource**

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

\*\*\* 4th Change \*\*\*

5.17.1.3.3.3 PATCH

The PATCH method is used to modify an existing Individual application AM context. The AF shall initiate the HTTP PATCH request message and the NEF shall respond to the message.

This method shall support the URI query parameters specified in table 5.17.1.3.3.3-1.

Table 5.17.1.3.3.3-1: URI query parameters supported by the PATCH method on this resource

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

This method shall support the request data structures specified in table 5.17.1.3.3.3-2, the response data structures and response codes specified in table 5.17.1.3.3.3-3 and the Location Headers specified in table 5.17.1.3.3.3-4 and table 5.17.1.3.3.3-5.

**Table 5.17.1.3.3.3-2: Data structures supported by the PATCH****Request Body on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Description** |
| AppAmContextExpUpdateData | M | 1 | Contains the modification(s) to be applied to the Individual application AM context resource. |

**Table 5.17.1.3.3.3-3: Data structures supported by the****PATCH Response Body on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Response codes** | **Description** |
| AppAmContextExpRespData | M | 1 | 200 OK | Successful case.  The exposure information of the updated application AM context. |
| N/A |  |  | 204 No Content | The application AM context was updated successfully. |
| N/A |  |  | 307 Temporary Redirect | Temporary redirection, during the AM context modification. The response shall include a Location header field containing an alternative URI of the resource 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, during the AM context modification. The response shall include a Location header field containing an alternative URI of the resource 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 PUT method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. | | | | |

**Table 5.17.1.3.3.3-4: Headers supported by the 307 Response Code on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| Location | String | M | 1 | An alternative URI of the resource located in an alternative NEF. |

**Table 5.17.1.3.3.3-5: Headers supported by the 308 Response Code on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| Location | String | M | 1 | An alternative URI of the resource located in an alternative NEF. |

\*\*\* 5th Change \*\*\*

5.17.1.3.3.4 DELETE

The DELETE method deletes an existing Individual application AM context. The AF shall initiate the HTTP DELETE request message and the NEF shall respond to the message.

This method shall support the URI query parameters specified in table 5.17.1.3.3.4-1.

**Table 5.17.1.3.3.4-1: URI query parameters supported by the****DELETE method on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| N/A |  |  |  |  |

This method shall support the request data structures specified in table 5.17.1.3.3.4-2 and the response data structures and response codes specified in table 5.17.1.3.3.4-3, and the Location Headers specified in table 5.17.1.3.3.4-4 and table 5.17.1.3.3.4-5.

**Table 5.17.1.3.3.4-2: Data structures supported by the DELETE****Request Body on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Description** |
| N/A |  |  |  |

**Table 5.17.1.3.3.4-3: Data structures supported by the****DELETE Response Body on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Response codes** | **Description** |
| N/A |  |  | 204 No Content | The application AM context was terminated successfully. |
| N/A |  |  | 307 Temporary Redirect | Temporary redirection, during the AM context termination. The response shall include a Location header field containing an alternative URI of the resource 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, during the AM context termination. The response shall include a Location header field containing an alternative URI of the resource 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 DELETE method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. | | | | |

**Table 5.17.1.3.3.4-4: Headers supported by the 307 Response Code on this resource**

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

**Table 5.17.1.3.3.4-5: Headers supported by the 308 Response Code on this resource**

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

\*\*\* 6th Change \*\*\*

5.17.1.4.3.2 PUT

The PUT method allows to create a new AM policy events subscription sub-resource in an existing application AM context or modifies an existing AM policy events subscription sub-resource. The AF shall initiate the HTTP PUT request message and the NEF shall respond to the message.

This method shall support the URI query parameters specified in table 5.17.1.4.3.2-1.

Table 5.17.1.4.3.2-1: URI query parameters supported by thePUTmethod on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| N/A |  |  |  |  |

This method shall support the request data structures specified in table 5.17.1.4.3.2-2, the response data structures and response codes specified in table 5.17.1.4.3.2-3 and the Location Headers specified in table 5.17.1.4.3.2-4, table 5.17.1.4.3.2-5 and table 5.17.1.4.3.2-6.

Table 5.17.1.4.3.2-2: Data structures supported by the PUTRequest Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AmEventsSubscData | M | 1 | Contains the information for the creation and/or modification of the AM Policy Events Subscription. |

Table 5.17.1.4.3.2-3: Data structures supported by thePUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response codes | Description |
| AmEventsSubscRespData | M | 1 | 201 Created | Successful case.  The AM policy events subscription sub-resource was created. The representation of the AM Policy Events Subscription sub-resource is included within the properties of the AmEventsSubscData data type. The one or more matched events, if available, are included within the properties of the AmEventsNotification data type. |
| AmEventsSubscRespData | M | 1 | 200 OK | Successful case.  The AM policy events subscription sub-resource was modified and a representation of the sub-resource is returned. The representation of the AM Policy Events Subscription sub-resource is included within the properties of the AmEventsSubscData data type. The one or more matched events, if available, are included within the properties of the AmEventsNotification data type. |
| N/A |  |  | 204 No Content | Successful case.  The AM policy events subscription sub-resource was modified successfully, with no content to be sent in the response message body. |
| N/A |  |  | 307 Temporary Redirect | Temporary redirection, during the AM policy events subscription or modification. The response shall include a Location header field containing an alternative URI of the resource 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, during the AM policy events subscription or modification. The response shall include a Location header field containing an alternative URI of the resource 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 GET method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. | | | | |

Table 5.17.1.4.3.2-4: Headers supported by the 201 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | String | M | 1 | Contains the URI of the resource in which an AM policy events subscription sub-resource has been created, according to the structure: {apiRoot}/3gpp-am-policyauthorization/v1/{afId}/app-am-contexts/{appAmContextId}/events-subscription |

Table 5.17.1.4.3.2-5: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | String | M | 1 | An alternative URI of the resource located in an alternative NEF. |

Table 5.17.1.4.3.2-6: Headers supported by the 308 Response Code on this resource

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

\*\*\* 7th Change \*\*\*

5.17.1.4.3.3 DELETE

The DELETE method deletes existing subscribed AM policy event(s) within the existing Individual application AM context. The AF shall initiate the HTTP DELETE request message and the NEF shall respond to the message.

This method shall support the URI query parameters specified in table 5.17.1.4.3.3-1.

**Table 5.17.1.4.3.3-1: URI query parameters supported by the****DELETE method on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| N/A |  |  |  |  |

This method shall support the request data structures specified in table 5.17.1.4.3.3-2 and the response data structures and response codes specified in table 5.17.1.4.3.3-3 and the Location Headers specified in table 5.17.1.4.3.3-4 and table 5.17.1.4.3.3-5.

**Table 5.17.1.4.3.3-2: Data structures supported by the DELETE****Request Body on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Description** |
| N/A |  |  |  |

**Table 5.17.1.4.3.3-3: Data structures supported by the****DELETE Response Body on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Response codes** | **Description** |
| N/A |  |  | 204 No Content | Successful case.  The AM policy event(s) subscription resource is deleted. |
| N/A |  |  | 307 Temporary Redirect | Temporary redirection, during the AM policy events deletion. The response shall include a Location header field containing an alternative URI of the resource 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, during the AM policy events deletion. The response shall include a Location header field containing an alternative URI of the resource 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 DELETE method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. | | | | |

**Table 5.17.1.4.3.3-4: Headers supported by the 307 Response Code on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| Location | String | M | 1 | An alternative URI of the resource located in an alternative NEF. |

**Table 5.17.1.4.3.3-5: Headers supported by the 308 Response Code on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| Location | String | M | 1 | An alternative URI of the resource located in an alternative NEF. |

\*\*\* 8th Change \*\*\*

###### 5.17.2.2.3.1 Notification via HTTP POST

This method shall support the request data structures specified in table 5.17.2.2.3.1-1 and the response data structures and response codes specified in table 5.17.2.2.3.1-2 and the Location Headers specified in table 5.17.2.2.3.1-3 and table 5.17.2.2.3.1-4.

Table 5.17.2.2.3.1-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AmEventsNotification | M | 1 | Provides information about the observed access and mobility policy change events by the NEF to the AF. |

Table 5.17.2.2.3.1-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| N/A |  |  | 204 No Content | The event 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 5.17.2.2.3.1-3: 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 5.17.2.2.3.1-4: 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. |

\*\*\* 9th Change \*\*\*

5.17.3.2 Reused data types

The data types reused by the AMPolicyAuthorization API from other specifications are listed in table 5.17.3.2-1.

**Table 5.17.3.2-1: Re-used Data Types**

|  |  |  |
| --- | --- | --- |
| Data type | Reference | Comments |
| AmEventsNotification | 3GPP TS 29.534 [43] | Describes the notification about the events occurred within an Individual application AM context resource. |
| AmEventsSubscData | 3GPP TS 29.534 [43] | Identifies the AM policy events the application subscribes to. |
| AmEventsSubscDataRm | 3GPP TS 29.534 [43] | This data type is defined in the same way as the "AmEventsSubscData" data type, but with the OpenAPI "nullable: true" property. |
| AmEventsSubscRespData | 3GPP TS 29.534 [43] | It represents a response to an AM policy events subscription request and contains the created/updated AM Policy Events Subscription resource. It may also include the Notification of the events met at the time of subscription. |
| Gpsi | 3GPP TS 29.571 [8] | Identifies a GPSI. |
| Link | 3GPP TS 29.122 [4] | Identifies a referenced resource. |
| Dnn | 3GPP TS 29.571 [8] | Identifies a DNN. |
| DurationSec | 3GPP TS 29.122 [4] | Indicates the time duration. |
| EthFlowDescription | 3GPP TS 29.514 [7] | Contains the Ethernet data flow information. |
| FlowInfo | 3GPP TS 29.122 [4] | Contains the IP data flow information. |
| GeographicArea | 3GPP TS 29.572 [34] | Identifies the geographical information with shapes. |
| CivicAddress | 3GPP TS 29.572 [34] | Identifies the civic address. |
| Snssai | 3GPP TS 29.571 [8] | Identifies the S-NSSAI. |
| SupportedFeatures | 3GPP TS 29.571 [8] | Used to negotiate the applicability of the optional features defined in table 5.17.4-1. |
| WebsockNotifConfig | 3GPP TS 29.122 [4] | Contains the configuration parameters to set up notification delivery over Websocket protocol. |

\*\*\* 10th Change \*\*\*

##### 5.17.3.3.2 Type: AppAmContextExpData

Table 5.17.3.3.2-1: Definition of type AppAmContextExpData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| self | Link | C | 0..1 | Identifies the individual configuration resource.  Shall be present in the HTTP GET response when reading all the configurations for an AF. |  |
| evSubscs | array(AmEventsSubscData) | O | 1..N | Represents the subscription to one or more AM policy events. |  |
| gpsi | Gpsi | M | 1 | Identifies the GPSI. |  |
| afAppIds | array(string) | O | 1..N | Identifies the application(s). (NOTE 2) |  |
| highThruInd | boolean | C | 0..1 | Indicates whether high throughput is desired for the indicated UE traffic. Set to "true" if high throughput is desired; otherwise set to "false". Default value is "false" if omitted. (NOTE 1) |  |
| covReqs | array(GeographicalArea) | C | 1..N | Identifies the allowed geographical areas. (NOTE 1) |  |
| policyDuration | DurationSec | O | 0..1 | Indicates the time duration that the policy shall last. |  |
| trafficFilters | array(FlowInfo) | O | 1..N | Identifies IP packet filters. (NOTE 2) |  |
| ethTrafficFilters | array(EthFlowDescription) | O | 1..N | Identifies Ethernet packet filters. (NOTE 2) |  |
| notificationDestination | Uri | C | 0..1 | Contains the callback URI to receive the notification from the NEF.  It shall be present if the "evSubscs" attribute is present. |  |
| suppFeat | SupportedFeatures | C | 0..1 | Indicates the negotiated supported features..  It shall be supplied by the AF in the POST request that requests a creation of an Individual application AM context resource.  It shall be supplied by the NEF in the response to the POST request that requests a creation of an Individual application AM context resource. |  |
| 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 |
| NOTE 1: Any of "highThruInd" attribute or "covReqs" attribute shall be included.  NOTE 2: One of "afAppIds", "trafficFilters" or "ethTrafficFilters" shall be included. | | | | | |

Editor's note: Whether may include "afAppIds" attribute, "trafficFilters" attribute or "ethTrafficFilters" attribute or other attribute is FFS.

\*\*\* 11th Change \*\*\*

##### 5.17.3.3.3 Type: AppAmContextExpUpdateData

Table 5.17.3.3.3-1: Definition of type AppAmContextExpUpdateData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| evSubscs | array(AmEventsSubscDataRm) | O | 1..N | Represents the subscription to one or more AM policy events. |  |
| afAppIds | array(string) | O | 1..N | Identifies the application(s). (NOTE) |  |
| highThruInd | boolean | O | 0..1 | Indicates whether high throughput is desired for the indicated UE traffic. Set to "true" if high throughput is desired; otherwise set to "false". Default value is "false" if omitted. |  |
| covReqs | array(GeographicalArea) | O | 1..N | Identifies the allowed geographical areas. |  |
| policyDuration | DurationSec | O | 0..1 | Indicates the time duration that the policy shall last. |  |
| trafficFilters | array(FlowInfo) | O | 1..N | Identifies IP packet filters. (NOTE) |  |
| ethTrafficFilters | array(EthFlowDescription) | O | 1..N | Identifies Ethernet packet filters. (NOTE) |  |
| notificationDestination | Uri | C | 0..1 | Contains the callback URI to receive the notification from the NEF.  It shall be present if the "evSubscs" attribute is present. |  |
| NOTE: One of "afAppIds", "trafficFilters" or "ethTrafficFilters" may be included. | | | | | |

Editor's note: Whether may include "afAppIds" attribute, "trafficFilters" attribute or "ethTrafficFilters" attribute or other attribute is FFS.

\*\*\* 12th Change \*\*\*

##### 5.17.3.3.m(new) Type: GeographicalArea

Table 5.17.3.3.m-1: Definition of type GeographicalArea

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| civicAddress | CivicAddress | C | 0..1 | Identifies a civic address. |  |
| shapes | GeographicArea | C | 0..1 | Identifies a geographic area specified by different shapes. |  |
| NOTE: One of "civicAddress" attribute or "shapes" attribute shall be included. | | | | | |

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