



Npcf PolicyAuthorization

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OpenAPI

OpenAPI Version: 3.0.0

Info

Title: "Npcf_PolicyAuthorization Service API"
Version: "1.0.0"
Description: "This is the Policy Authorization Service"

Servers

URL: '{apiRoot}/npcf-policyauthorization/v1'
Variables:
API Root:
Default: https://example.com
Description: apiRoot as defined in subclause 4.4 of 3GPP TS 29.501

Security

- {}

- oAuth2ClientCredentials:
 - npcf-policyauthorization

Paths

/app-sessions

Method: Post

Summary: Creates a new Individual Application Session Context resource

Operation ID: PostAppSessions

Tags:

- Application Sessions (Collection)

Request Body:

Description: Contains the information for the creation the resource

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AppSessionContext'

Responses:

'201':

Description: Successful creation of the resource

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AppSessionContext'

Headers:

Location:

description: 'Contains the URI of the created individual application session context resource, according to the structure: {apiRoot}/npcf-policyauthorization/v1/app-sessions/{appSessionId} or the URI of the created events subscription sub-resource, according to the structure: {apiRoot}/npcf-policyauthorization/v1/app-sessions/{appSessionId}/events-subscription'

Required/Optional: true

Schema:

Type: string

'303':

Description: See Other. The result of the HTTP POST request would be equivalent to the existing Application Session Context. The HTTP response shall contain a Location header field set to the URI of the existing individual Application Session Context resource

'400':

Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':

Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':

Reference: 'TS29571_CommonData.yaml#/components/responses/403'

```

'404':
  Reference: 'TS29571_CommonData.yaml#/components/responses/404'
'411':
  Reference: 'TS29571_CommonData.yaml#/components/responses/411'
'413':
  Reference: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
  Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29571_CommonData.yaml#/components/responses/default'
Callbacks:
  terminationRequest:
    '{$request.body#/notifUri}/terminate':
      Method: Post
      Request Body:
        Description: Request of the termination of the Individual Application
Session Context
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/TerminationInfo'

Responses:
'204':
  Description: The receipt of the notification is acknowledged.
'400':
  Reference: 'TS29571_CommonData.yaml#/components/responses/400'
'401':
  Reference: 'TS29571_CommonData.yaml#/components/responses/401'
'403':
  Reference: 'TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29571_CommonData.yaml#/components/responses/404'
'411':
  Reference: 'TS29571_CommonData.yaml#/components/responses/411'
'413':
  Reference: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
  Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:

```

Reference: 'TS29571_CommonData.yaml#/components/responses/default'

eventNotification:
'**{ \$request.body#/evSubsc/notifUri }/notify'**'

Method: Post

Request Body:
Description: Notification of an event occurrence in the PCF.
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/EventsNotification'

Responses:

'204':
Description: The receipt of the notification is acknowledged

'400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':
Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':
Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':
Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'411':
Reference: 'TS29571_CommonData.yaml#/components/responses/411'

'413':
Reference: 'TS29571_CommonData.yaml#/components/responses/413'

'415':
Reference: 'TS29571_CommonData.yaml#/components/responses/415'

'429':
Reference: 'TS29571_CommonData.yaml#/components/responses/429'

'500':
Reference: 'TS29571_CommonData.yaml#/components/responses/500'

'503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'

Default:
Reference: 'TS29571_CommonData.yaml#/components/responses/default'

/app-sessions/{appSessionId}

get:

Summary: "Reads an existing Individual Application Session Context"

Operation ID: GetAppSession

Tags:

- Individual Application Session Context (Document)

Parameters:

- **Name:** appSessionId

Description: string identifying the resource

In: path

Required/Optional: true

```
    Schema:
      Type: string

Responses:
  '200':
    Description: A representation of the resource is returned.
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/AppSessionContext'
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
    Reference: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
    Reference: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
    Reference: 'TS29571_CommonData.yaml#/components/responses/404'
  '406':
    Reference: 'TS29571_CommonData.yaml#/components/responses/406'
  '429':
    Reference: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
    Reference: 'TS29571_CommonData.yaml#/components/responses/500'
  '503':
    Reference: 'TS29571_CommonData.yaml#/components/responses/503'
  Default:
    Reference: 'TS29571_CommonData.yaml#/components/responses/default'
patch:
  Summary: "Modifies an existing Individual Application Session Context"
  Operation ID: ModAppSession

Tags:
  - Individual Application Session Context (Document)

Parameters:
  - Name: appSessionId
    Description: string identifying the resource
    In: path
    Required/Optional: true
    Schema:
      Type: string
Request Body:
  Description: modification of the resource.
  Required/Optional: true
  Content:
    application/merge-patch+json:
      Schema:
        Reference: '#/components/schemas/AppSessionContextUpdateData'

Responses:
  '200':
```

Description: successful modification of the resource and a representation of that resource is returned

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AppSessionContext'

'204':

Description: The successful modification

'400':

Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':

Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':

Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':

Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'411':

Reference: 'TS29571_CommonData.yaml#/components/responses/411'

'413':

Reference: 'TS29571_CommonData.yaml#/components/responses/413'

'415':

Reference: 'TS29571_CommonData.yaml#/components/responses/415'

'429':

Reference: 'TS29571_CommonData.yaml#/components/responses/429'

'500':

Reference: 'TS29571_CommonData.yaml#/components/responses/500'

'503':

Reference: 'TS29571_CommonData.yaml#/components/responses/503'

Default:

Reference: 'TS29571_CommonData.yaml#/components/responses/default'

Callbacks:

eventNotification:

'{\$request.body#/evSubsc/notifUri}/notify':

Method: Post

Request Body:

Description: Notification of an event occurrence in the PCF.

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/EventsNotification'

Responses:

'204':

Description: The receipt of the notification is acknowledged

'400':

Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':

Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':

Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':

Reference: 'TS29571_CommonData.yaml#/components/responses/404'

```

'411':
  Reference: 'TS29571_CommonData.yaml#/components/responses/411'
'413':
  Reference: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
  Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29571_CommonData.yaml#/components/responses/default'

```

/app-sessions/{appSessionId}/delete

Method: Post

Summary: "Deletes an existing Individual Application Session Context"

Operation ID: DeleteAppSession

Tags:

- Individual Application Session Context (Document)

Parameters:

- **Name:** appSessionId

Description: string identifying the Individual Application Session Context resource

In: path

Required/Optional: true

Schema:

Type: string

Request Body:

Description: deletion of the Individual Application Session Context resource, req
notification

Required/Optional: false

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/EventsSubscReqData'

Responses:

'200':

Description: The deletion of the resource is confirmed and a resource is returned

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AppSessionContext'

'204':

Description: The deletion is confirmed without returning additional data.

```

'400':
  Reference: 'TS29571_CommonData.yaml#/components/responses/400'
'401':
  Reference: 'TS29571_CommonData.yaml#/components/responses/401'
'403':
  Reference: 'TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29571_CommonData.yaml#/components/responses/404'
'411':
  $ref:
'https://raw.githubusercontent.com/jdegre/5GC_APIs/master/TS29571_CommonData.yaml#/components/responses/411'

'413':
  Reference: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
  $ref:
'https://raw.githubusercontent.com/jdegre/5GC_APIs/master/TS29571_CommonData.yaml#/components/responses/429'

'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29571_CommonData.yaml#/components/responses/default'

```

/app-sessions/{appSessionId}/events-subscription

put:

Summary: "creates or modifies an Events Subscription subresource"

Operation ID: updateEventsSubsc

Tags:

- Events Subscription (Document)

Parameters:

- **Name:** appSessionId
Description: string identifying the Events Subscription resource
In: path
Required/Optional: true
Schema:
Type: string

Request Body:

Description: Creation or modification of an Events Subscription resource.

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/EventsSubscReqData'

Responses:

'201':
Description: The creation of the Events Subscription resource is confirmed and its representation is returned.
Content:
Application/JSON:
Schema:
anyOf:
- **\$ref:** '#/components/schemas/EventsSubscReqData'
- **\$ref:** '#/components/schemas/EventsNotification'

Headers:
Location:
description: 'Contains the URI of the created Events Subscription resource, according to the structure:
{apiRoot}/npcf-policyauthorization/v1/app-sessions/{appSessionId}/events-subscription'
Required/Optional: true
Schema:
Type: string

'200':
Description: The modification of the of the Events Subscription resource is confirmed its representation is returned.
Content:
Application/JSON:
Schema:
anyOf:
- **\$ref:** '#/components/schemas/EventsSubscReqData'
- **\$ref:** '#/components/schemas/EventsNotification'

'204':
Description: The modification of the Events Subscription subresource is confirmed without returning additional data.

'400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':
Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':
Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':
Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'411':
Reference: 'TS29571_CommonData.yaml#/components/responses/411'

'413':
Reference: 'TS29571_CommonData.yaml#/components/responses/413'

'415':
Reference: 'TS29571_CommonData.yaml#/components/responses/415'

'429':
Reference: 'TS29571_CommonData.yaml#/components/responses/429'

'500':
Reference: 'TS29571_CommonData.yaml#/components/responses/500'

'503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'

Default:
Reference: 'TS29571_CommonData.yaml#/components/responses/default'

Callbacks:**eventNotification:**

'{\$request.body#/notifUri}/notify':

Method: Post

Request Body:

Description: Contains the information for the notification of an event occurrence in the PCF.

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/EventsNotification'

Responses:

'204':

Description: The receipt of the notification is acknowledged.

'400':

Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':

Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':

Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':

Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'411':

Reference: 'TS29571_CommonData.yaml#/components/responses/411'

'413':

Reference: 'TS29571_CommonData.yaml#/components/responses/413'

'415':

Reference: 'TS29571_CommonData.yaml#/components/responses/415'

'429':

Reference: 'TS29571_CommonData.yaml#/components/responses/429'

'500':

Reference: 'TS29571_CommonData.yaml#/components/responses/500'

'503':

Reference: 'TS29571_CommonData.yaml#/components/responses/503'

Default:

Reference: 'TS29571_CommonData.yaml#/components/responses/default'

delete:

Summary: deletes the Events Subscription subresource

Operation ID: DeleteEventsSubsc

Tags:

- Events Subscription (Document)

Parameters:

- **Name:** appSessionId

Description: string identifying the Individual Application Session Context resource

In: path

Required/Optional: true

Schema:

Type: string

Responses:**'204':****Description:** The deletion of the of the Events Subscription sub-resource is confirmed without returning additional data.**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'401':****Reference:** 'TS29571_CommonData.yaml#/components/responses/401'**'403':****Reference:** 'TS29571_CommonData.yaml#/components/responses/403'**'404':****Reference:** 'TS29571_CommonData.yaml#/components/responses/404'**'429':****Reference:** 'TS29571_CommonData.yaml#/components/responses/429'**'500':****Reference:** 'TS29571_CommonData.yaml#/components/responses/500'**'503':****Reference:** 'TS29571_CommonData.yaml#/components/responses/503'**Default:****Reference:** 'TS29571_CommonData.yaml#/components/responses/default'

Components

securitySchemes:**oAuth2ClientCredentials:****Type:** oauth2**Flows:****clientCredentials:****tokenUrl:** '{nrfApiRoot}/oauth2/token'**scopes:****npcf-policyauthorization:** Access to the Npcf_PolicyAuthorization API**schemas:****AppSessionContext:****Description:** Represents an Individual Application Session Context resource.**Type:** object**Properties:****ascReqData:****Reference:** '#/components/schemas/AppSessionContextReqData'**ascRespData:****Reference:** '#/components/schemas/AppSessionContextRespData'**evsNotif:****Reference:** '#/components/schemas/EventsNotification'**AppSessionContextReqData:****Description:** Identifies the service requirements of an Individual Application Session Context.**Type:** object**Required:**

- notifUri
- suppFeat

```

oneOf:
  - required: [ueIpv4]
  - required: [ueIpv6]
  - required: [ueMac]
Properties:
  afAppId:
    Reference: '#/components/schemas/AfAppId'
  afRoutReq:
    Reference: '#/components/schemas/AfRoutingRequirement'
  aspId:
    Reference: '#/components/schemas/AspId'
  bdtRefId:
    Reference: 'TS29122_CommonData.yaml#/components/schemas/BdtReferenceId'
  dnn:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
  evSubsc:
    Reference: '#/components/schemas/EventsSubscReqData'
  medComponents:
    Type: object
    additionalProperties:
      Reference: '#/components/schemas/MediaComponent'
    minProperties: 1
  ipDomain:
    Type: string
  mppsId:
    Description: indication of MPS service request
    Type: string
  notifUri:
    Reference: 'TS29122_CommonData.yaml#/components/schemas/Uri'
  sliceInfo:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
  sponId:
    Reference: '#/components/schemas/SponId'
  sponStatus:
    Reference: '#/components/schemas/SponsoringStatus'
  supi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
  suppFeat:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  ueIpv4:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
  ueIpv6:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Addr'
  ueMac:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/MacAddr48'
AppSessionContextRespData:
  Description: Describes the authorization data of an Individual Application Session
  Context created by the PCF.
  Type: object
  Properties:
    servAuthInfo:
      Reference: '#/components/schemas/ServAuthInfo'

```

suppFeat:
Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

AppSessionContextUpdateData:
Description: Identifies the modifications to an Individual Application Session Context and may include the modifications to the sub-resource Events Subscription.
Type: object

Properties:

afAppId:
Reference: '#/components/schemas/AfAppId'

afRoutReq:
Reference: '#/components/schemas/AfRoutingRequirementRm'

aspId:
Reference: '#/components/schemas/AspId'

bdtRefId:
Reference: 'TS29122_CommonData.yaml#/components/schemas/BdtReferenceId'

evSubsc:
Reference: '#/components/schemas/EventsSubscReqDataRm'

medComponents:
Type: object

additionalProperties:
Reference: '#/components/schemas/MediaComponentRm'

minProperties: 1

mpsId:
Description: indication of MPS service request
Type: string

sponId:
Reference: '#/components/schemas/SponId'

sponStatus:
Reference: '#/components/schemas/SponsoringStatus'

EventsSubscReqData:
Description: Identifies the events the application subscribes to.
Type: object

Required:
- events

Properties:

events:
Type: array

Items:
Reference: '#/components/schemas/AfEventSubscription'

minItems: 1

notifUri:
Reference: 'TS29122_CommonData.yaml#/components/schemas/Uri'

usgThres:
Reference: 'TS29122_CommonData.yaml#/components/schemas/UsageThreshold'

EventsSubscReqDataRm:
Description: this data type is defined in the same way as the EventsSubscReqData data type, but with the OpenAPI nullable property set to true.
Type: object

Required:
- events

Properties:

events:

```

    Type: array
    Items:
      Reference: '#/components/schemas/AfEventSubscription'
  notifUri:
    Reference: 'TS29122_CommonData.yaml#/components/schemas/Uri'
  usgThres:
    Reference: 'TS29122_CommonData.yaml#/components/schemas/UsageThresholdRm'
  nullable: true
MediaComponent:
  Description: Identifies a media component.
  Type: object
  Required:
    - medCompN
  Properties:
    afAppId:
      Reference: '#/components/schemas/AfAppId'
    afRoutReq:
      Reference: '#/components/schemas/AfRoutingRequirement'
    contVer:
      Reference: '#/components/schemas/ContentVersion'
    codecs:
      Type: array
      Items:
        Reference: '#/components/schemas/CodecData'
      minItems: 1
      maxItems: 2
    fStatus:
      Reference: '#/components/schemas/FlowStatus'
    marBwDL:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
    marBwUL:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
    medCompN:
      Type: integer
    medSubComps:
      Type: object
      additionalProperties:
        Reference: '#/components/schemas/MediaSubComponent'
      minProperties: 1
    medType:
      Reference: '#/components/schemas/MediaType'
    mirBwDL:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
    mirBwUL:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
    resPrio:
      Reference: '#/components/schemas/ReservPriority'
MediaComponentRm:
  Description: This data type is defined in the same way as the MediaComponent data
  type, but with the OpenAPI nullable property set to true
  Type: object
  Required:

```

```

- medCompN
Properties:
  afAppId:
    Reference: '#/components/schemas/AfAppId'
  afRoutReq:
    Reference: '#/components/schemas/AfRoutingRequirementRm'
  contVer:
    Reference: '#/components/schemas/ContentVersion'
  codecs:
    Type: array
    Items:
      Reference: '#/components/schemas/CodecData'
    minItems: 1
    maxItems: 2
  fStatus:
    Reference: '#/components/schemas/FlowStatus'
  marBwDl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRateRm'
  marBwUl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRateRm'
  medCompN:
    Type: integer
  medSubComps:
    Type: object
    additionalProperties:
      Reference: '#/components/schemas/MediaSubComponentRm'
    minProperties: 1
  medType:
    Reference: '#/components/schemas/MediaType'
  mirBwDl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRateRm'
  mirBwUl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRateRm'
  resPrio:
    Reference: '#/components/schemas/ReservPriority'
nullable: true
MediaSubComponent:
Description: Identifies a media subcomponent
Type: object
Required:
  - fNum
Properties:
  ethfDescs:
    Type: array
    Items:
      Reference: '#/components/schemas/EthFlowDescription'
    minItems: 1
    maxItems: 2
  fNum:
    Type: integer
  fDescs:
    Type: array

```

```

    Items:
      Reference: '#/components/schemas/FlowDescription'
      minItems: 1
      maxItems: 2
    fStatus:
      Reference: '#/components/schemas/FlowStatus'
    marBwDl:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
    marBwUl:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
    tosTrCl:
      Reference: '#/components/schemas/TosTrafficClass'
    flowUsage:
      Reference: '#/components/schemas/FlowUsage'
  MediaSubComponentRm:
    Description: This data type is defined in the same way as the MediaSubComponent data
    type, but with the OpenAPI nullable property set to true. Removable attributes marBwDl and
    marBwUl are defined with the corresponding removable data type.
    Type: object
    Required:
      - fNum
    Properties:
      ethfDescs:
        Type: array
        Items:
          Reference: '#/components/schemas/EthFlowDescription'
          minItems: 1
          maxItems: 2
          nullable: true
      fNum:
        Type: integer
      fDescs:
        Type: array
        Items:
          Reference: '#/components/schemas/FlowDescription'
          minItems: 1
          maxItems: 2
          nullable: true
      fStatus:
        Reference: '#/components/schemas/FlowStatus'
      marBwDl:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRateRm'
      marBwUl:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRateRm'
      tosTrCl:
        Reference: '#/components/schemas/TosTrafficClassRm'
      flowUsage:
        Reference: '#/components/schemas/FlowUsage'
    nullable: true
  EventsNotification:
    Description: describes the notification of a matched event
    Type: object

```


Required:

- evSubsUri
- evNotifs

Properties:

accessType:

Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'

anGwAddr:

Reference: '#/components/schemas/AnGwAddress'

evSubsUri:

Reference: 'TS29122_CommonData.yaml#/components/schemas/Uri'

evNotifs:

Type: array

Items:

Reference: '#/components/schemas/AfEventNotification'

minItems: 1

failedResourcAllocReports:

Type: array

Items:

Reference: '#/components/schemas/ResourcesAllocationInfo'

minItems: 1

plmnId:

Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'

qncReports:

Type: array

Items:

Reference: '#/components/schemas/QosNotificationControlInfo'

minItems: 1

ratType:

Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'

usgRep:

Reference: 'TS29122_CommonData.yaml#/components/schemas/AccumulatedUsage'

AfEventSubscription:

Description: describes the event information delivered in the subscription

Type: object

Required:

- event

Properties:

event:

Reference: '#/components/schemas/AfEvent'

notifMethod:

Reference: '#/components/schemas/AfNotifMethod'

AfEventNotification:

Description: describes the event information delivered in the notification

Type: object

Required:

- event

Properties:

event:

Reference: '#/components/schemas/AfEvent'

Flows:

Type: array

Items:

```

      Reference: '#/components/schemas/Flows'
      minItems: 1
    TerminationInfo:
      Description: indicates the cause for requesting the deletion of the Individual
Application Session Context resource
      Type: object
      Required:
        - termCause
        - resUri
      Properties:
        termCause:
          Reference: '#/components/schemas/TerminationCause'
        resUri:
          Reference: 'TS29122_CommonData.yaml#/components/schemas/Uri'
    AfRoutingRequirement:
      Description: describes the event information delivered in the subscription
      Type: object
      Properties:
        appReloc:
          Type: boolean
        routeToLocs:
          Type: array
          Items:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/RouteToLocation'
            minItems: 1
        spVal:
          Reference: '#/components/schemas/SpatialValidity'
        tempVals:
          Type: array
          Items:
            Reference: '#/components/schemas/TemporalValidity'
            minItems: 1
        upPathChgSub:
          Reference: 'TS29512_Npcf_SMPolicyControl.yaml#/components/schemas/UpPathChgEvent'

    SpatialValidity:
      Description: describes explicitly the route to an Application location
      Type: object
      Required:
        - presenceInfoList
      Properties:
        presenceInfoList:
          Type: object
          additionalProperties:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/PresenceInfo'
            minProperties: 1
    SpatialValidityRm:
      Description: this data type is defined in the same way as the SpatialValidity data
type, but with the OpenAPI nullable property set to true
      Type: object
      Required:
        - presenceInfoList
      Properties:

```

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presenceInfoList:
  Type: object
  additionalProperties:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PresenceInfo'
  minProperties: 1
nullable: true
AfRoutingRequirementRm:
  Description: this data type is defined in the same way as the AfRoutingRequirement
  data type, but with the OpenAPI nullable property set to true and the spVal and tempVals
  attributes defined as removable.
  Type: object
  Properties:
    appReloc:
      Type: boolean
    routeToLocs:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/RouteToLocation'
      minItems: 1
      nullable: true
    spVal:
      Reference: '#/components/schemas/SpatialValidityRm'
    tempVals:
      Type: array
      Items:
        Reference: '#/components/schemas/TemporalValidity'
      minItems: 1
      nullable: true
    upPathChgSub:
      Reference: 'TS29512_Npcf_SMPolicyControl.yaml#/components/schemas/UpPathChgEvent'

nullable: true
AnGwAddress:
  Description: describes the address of the access network gateway control node
  Type: object
  anyOf:
    - required: [anGwIpv4Addr]
    - required: [anGwIpv6Addr]
  Properties:
    anGwIpv4Addr:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
    anGwIpv6Addr:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Addr'
Flows:
  Description: Identifies the flows
  Type: object
  Required:
    - medCompN
  Properties:
    contVers:
      Type: array
      Items:
        Reference: '#/components/schemas/ContentVersion'

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    minItems: 1
  fNums:
    Type: array
    Items:
      Type: integer
    minItems: 1
  medCompN:
    Type: integer
EthFlowDescription:
  Description: Identifies an Ethernet flow
  Type: object
  Required:
    - ethType
  Properties:
    destMacAddr:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/MacAddr48'
    ethType:
      Type: string
    fDesc:
      Reference: '#/components/schemas/FlowDescription'
    fDir:
      Reference: 'TS29512_Npcf_SMPolicyControl.yaml#/components/schemas/FlowDirection'

    sourceMacAddr:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/MacAddr48'
  vlanTags:
    Type: array
    Items:
      Type: string
    minItems: 1
    maxItems: 2
ResourcesAllocationInfo:
  Description: describes the status of the PCC rule(s) related to certain media
  components.
  Type: object
  Required:
    - mcResourcStatus
  Properties:
    mcResourcStatus:
      Reference: '#/components/schemas/MediaComponentResourcesStatus'
    Flows:
      Type: array
      Items:
        Reference: '#/components/schemas/Flows'
      minItems: 1
TemporalValidity:
  Description: Indicates the time interval(s) during which the AF request is to be
  applied
  Type: object
  Properties:
    startTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'

```

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    stopTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  QosNotificationControlInfo:
    Description: Indicates whether the QoS targets for a GRB flow are not guaranteed or
    guaranteed again
    Type: object
    Required:
      - notifType
    Properties:
      notifType:
        Reference: '#/components/schemas/QosNotifType'
      Flows:
        Type: array
        Items:
          Reference: '#/components/schemas/Flows'
        minItems: 1
# SIMPLE DATA TYPES
AfAppId:
  Description: Contains an AF application identifier.
  Type: string
AspId:
  Description: Contains an identity of an application service provider.
  Type: string
CodecData:
  Description: Contains codec related information.
  Type: string
ContentVersion:
  Description: Represents the content version of some content.
  Type: integer
FlowDescription:
  Description: Defines a packet filter of an IP flow.
  Type: string
SponId:
  Description: Contains an identity of a sponsor.
  Type: string
TosTrafficClass:
  Description: 2-octet string, where each octet is encoded in hexadecimal representation.
  The first octet contains the IPv4 Type-of-Service or the IPv6 Traffic-Class field and the
  second octet contains the ToS/Traffic Class mask field.
  Type: string
TosTrafficClassRm:
  Description: this data type is defined in the same way as the TosTrafficClass data
  type, but with the OpenAPI nullable property set to true
  Type: string
  nullable: true
# ENUMERATIONS DATA TYPES
MediaType:
  anyOf:
    - type: string
    enum:
      - AUDIO
      - VIDEO
      - DATA
      - APPLICATION

```

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        - CONTROL
        - TEXT
        - MESSAGE
        - OTHER
    - type: string
ReservPriority:
  anyOf:
    - type: string
      enum:
        - PRIO_1
        - PRIO_2
        - PRIO_3
        - PRIO_4
        - PRIO_5
        - PRIO_6
        - PRIO_7
        - PRIO_8
        - PRIO_9
        - PRIO_10
        - PRIO_11
        - PRIO_12
        - PRIO_13
        - PRIO_14
        - PRIO_15
        - PRIO_16
    - type: string
ServAuthInfo:
  anyOf:
    - type: string
      enum:
        - TP_NOT_KNOWN
        - TP_EXPIRED
        - TP_NOT_YET_OCURRED
    - type: string
SponsoringStatus:
  anyOf:
    - type: string
      enum:
        - SPONSOR_DISABLED
        - SPONSOR_ENABLED
    - type: string
AfEvent:
  anyOf:
    - type: string
      enum:
        - ACCESS_TYPE_CHANGE
        - FAILED_RESOURCES_ALLOCATION
        - PLMN_CHG
        - QOS_NOTIF
        - SUCCESSFUL_RESOURCES_ALLOCATION
        - USAGE_REPORT
    - type: string
AfNotifMethod:
  anyOf:
    - type: string
      enum:
        - EVENT_DETECTION
        - ONE_TIME
    - type: string
QosNotifType:

```

```
    anyOf:
      - type: string
        enum:
          - GUARANTEED
          - NOT_GUARANTEED
      - type: string
TerminationCause:
  anyOf:
    - type: string
      enum:
        - ALL_SDF_DEACTIVATION
        - PDU_SESSION_TERMINATION
    - type: string
MediaComponentResourcesStatus:
  anyOf:
    - type: string
      enum:
        - ACTIVE
        - INACTIVE
    - type: string
FlowUsage:
  anyOf:
    - type: string
      enum:
        - NO_INFO
        - RTCP
    - type: string
FlowStatus:
  anyOf:
    - type: string
      enum:
        - ENABLED-UPLINK
        - ENABLED-DOWNLINK
        - ENABLED
        - DISABLED
        - REMOVED
    - type: string
```

