



CommonData

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OpenAPI

OpenAPI Version: 3.0.0

Info

Title: TS 29.122 Common Data Types
Version: "1.0.0"

Paths

}

Components

```
schemas:  
  SponsorInformation:  
    Type: object  
    Properties:  
      sponsorId:  
        Type: string  
        Description: It indicates Sponsor ID.  
      aspId:  
        Type: string
```

Description: It indicates Application Service Provider ID.

Required:

- sponsorId
- aspId

UsageThreshold:

Type: object

Properties:

duration:

Reference: '#/components/schemas/DurationSec'

totalVolume:

Reference: '#/components/schemas/Volume'

downlinkVolume:

Reference: '#/components/schemas/Volume'

uplinkVolume:

Reference: '#/components/schemas/Volume'

UsageThresholdRm:

Type: object

Properties:

duration:

Reference: '#/components/schemas/DurationSecRm'

totalVolume:

Reference: '#/components/schemas/VolumeRm'

downlinkVolume:

Reference: '#/components/schemas/VolumeRm'

uplinkVolume:

Reference: '#/components/schemas/VolumeRm'

nullable: true

TimeWindow:

Type: object

Properties:

startTime:

Reference: '#/components/schemas/DateTime'

stopTime:

Reference: '#/components/schemas/DateTime'

Required:

- startTime
- stopTime

Acknowledgement:

Type: object

Properties:

details:

Type: string

Description: A human-readable explanation specific to this successful acknowledgement

Required:

- details

NotificationData:

Type: object

Properties:

transaction:

Reference: '#/components/schemas/Link'

eventReports:

Type: array

```

    Items:
      Reference: '#/components/schemas/EventReport'
      minItems: 1
      Description: Contains the reported event and applicable information
  Required:
    - transaction
    - eventReports
  EventReport:
    Type: object
    Properties:
      event:
        Reference: '#/components/schemas/Event'
      accumulatedUsage:
        Reference: '#/components/schemas/AccumulatedUsage'
      flowIds:
        Type: array
        Items:
          Type: integer
        minItems: 1
        Description: Identifies the IP flows that were sent during event subscription
    Required:
      - event
  AccumulatedUsage:
    Type: object
    Properties:
      duration:
        Reference: '#/components/schemas/DurationSec'
      totalVolume:
        Reference: '#/components/schemas/Volume'
      downlinkVolume:
        Reference: '#/components/schemas/Volume'
      uplinkVolume:
        Reference: '#/components/schemas/Volume'
  FlowInfo:
    Type: object
    Properties:
      flowId:
        Type: integer
        Description: Indicates the IP flow.
      flowDescriptions:
        Type: array
        Items:
          Type: string
        Description: Indicates the packet filters of the IP flow. Refer to subclause
        5.3.8 of 3GPP TS 29.214 for encoding. It shall contain UL and/or DL IP flow description.
        minItems: 1
        maxItems: 2
    Required:
      - flowId
  TestNotification:
    Type: object
    Properties:

```

```

subscription:
  Reference: '#/components/schemas/Link'
Required:
  - subscription
WebsocketNotifConfig:
  Type: object
  Properties:
    websocketUri:
      Reference: '#/components/schemas/Link'
    requestWebSocketUri:
      Type: boolean
      Description: Set by the SCS/AS to indicate that the Websocket delivery is
requested.
    LocationArea:
      Type: object
      Properties:
        cellIds:
          Type: array
          Items:
            Type: string
          minItems: 1
          Description: Indicates a list of Cell Global Identities of the user which
identifies the cell the UE is registered.
        enodeBIds:
          Type: array
          Items:
            Type: string
          minItems: 1
          Description: Indicates a list of eNodeB identities in which the UE is currently
located.
        routingAreaIds:
          Type: array
          Items:
            Type: string
          minItems: 1
          Description: Identifies a list of Routing Area Identities of the user where the
UE is located.
        trackingAreaIds:
          Type: array
          Items:
            Type: string
          minItems: 1
          Description: Identifies a list of Tracking Area Identities of the user where the
UE is located.
        geographicAreas:
          Type: array
          Items:
            Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
          minItems: 1
          Description: Identifies a list of geographic area of the user where the UE is
located.
        civicAddresses:
          Type: array

```

Items:
Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/CivicAddress'
minItems: 1
Description: Identifies a list of civic addresses of the user where the UE is located.

LocationArea5G:
Type: object
Properties:
geographicAreas:
Type: array
Items:
Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
minItems: 0
Description: Identifies a list of geographic area of the user where the UE is located.

civicAddresses:
Type: array
Items:
Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/CivicAddress'
minItems: 0
Description: Identifies a list of civic addresses of the user where the UE is located.

nwAreaInfo:
Reference: 'TS29554_Npcf_BDTPolicyControl.yaml#/components/schemas/NetworkAreaInfo'

ProblemDetails:
Type: object
Properties:
Type:
Reference: '#/components/schemas/Uri'
title:
Type: string
Description: A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem.
status:
Type: integer
Description: The HTTP status code for this occurrence of the problem.
detail:
Type: string
Description: A human-readable explanation specific to this occurrence of the problem.
instance:
Reference: '#/components/schemas/Uri'
cause:
Type: string
Description: A machine-readable application error cause specific to this occurrence of the problem. This IE should be present and provide application-related error information, if available.
invalidParams:
Type: array
Items:
Reference: '#/components/schemas/InvalidParam'
minItems: 1

Description: Description of invalid parameters, for a request rejected due to invalid parameters.

InvalidParam:

Type: object

Properties:

param:

Type: string

Description: Attribute's name encoded as a JSON Pointer, or header's name.

reason:

Type: string

Description: A human-readable reason, e.g. "must be a positive integer".

Required:

- param

PlmnId:

Type: object

Properties:

mcc:

Reference: '#/components/schemas/Mcc'

mnc:

Reference: '#/components/schemas/Mnc'

Required:

- mcc
- mnc

ConfigResult:

Type: object

Properties:

externalIds:

Type: array

Items:

Reference: '#/components/schemas/ExternalId'

minItems: 1

Description: Each element indicates an external identifier of the UE.

msisdns:

Type: array

Items:

Reference: '#/components/schemas/Msisdn'

minItems: 1

Description: Each element identifies the MS internal PSTN/ISDN number allocated for the UE.

resultReason:

Reference: '#/components/schemas/ResultReason'

Required:

- resultReason

oneOf:

- required: [externalIds]
- required: [Msisdns]

Bandwidth:

Type: integer

Minimum: 0

Description: integer indicating a bandwidth in bits per second.

BdtReferenceId:

Type: string

Description: string identifying a BDT Reference ID as defined in subclause 5.3.3 of

3GPP TS 29.154.

Binary:

Type: string

Description: string with format "binary" as defined in OpenAPI Specification.

Bytes:

Type: string

Description: String with format "byte" as defined in OpenAPI Specification, i.e, base64-encoded characters.

DayOfWeek:

Type: integer

Minimum: 1

Maximum: 7

Description: integer between and including 1 and 7 denoting a weekday. 1 shall indicate Monday, and the subsequent weekdays shall be indicated with the next higher numbers. 7 shall indicate Sunday.

DateTime:

Type: string

Description: string with format "date-time" as defined in OpenAPI.

DateTimeRm:

Type: string

Description: string with format "date-time" as defined in OpenAPI with "nullable=true" property.

nullable: true

DateTimeRo:

Type: string

Description: string with format "date-time" as defined in OpenAPI with "readOnly=true" property.

readOnly: true

DurationSec:

Type: integer

Minimum: 0

Description: Unsigned integer identifying a period of time in units of seconds.

DurationSecRm:

Type: integer

Minimum: 0

Description: Unsigned integer identifying a period of time in units of seconds with "nullable=true" property.

nullable: true

DurationSecRo:

Type: integer

Minimum: 0

Description: Unsigned integer identifying a period of time in units of seconds with "readOnly=true" property.

readOnly: true

DurationMin:

Type: integer

format: int32

Minimum: 0

Description: Unsigned integer identifying a period of time in units of minutes.

ExternalId:

Type: string

Description: string containing a local identifier followed by "@" and a domain identifier. Both the local identifier and the domain identifier shall be encoded as strings

that do not contain any "@" characters. See Clause 4.6.2 of 3GPP TS 23.682 for more information.

ExternalGroupId:

Type: string

Description: string containing a local identifier followed by "@" and a domain identifier. Both the local identifier and the domain identifier shall be encoded as strings that do not contain any "@" characters. See Clauses 4.6.2 and 4.6.3 of 3GPP TS 23.682 for more information.

Ipv4Addr:

Type: string

Description: string identifying a Ipv4 address formatted in the "dotted decimal" notation as defined in IETF RFC 1166.

Ipv6Addr:

Type: string

Description: string identifying a Ipv6 address formatted according to clause 4 in IETF RFC 5952. The mixed Ipv4 Ipv6 notation according to clause 5 of IETF RFC 5952 shall not be used.

Ipv4AddrRo:

Type: string

Description: string identifying a Ipv4 address formatted in the "dotted decimal" notation as defined in IETF RFC 1166, with "readOnly=true" property.

readOnly: true

Ipv6AddrRo:

Type: string

Description: string identifying a Ipv6 address formatted according to clause 4 in IETF RFC 5952, with "readOnly=true" property. The mixed Ipv4 Ipv6 notation according to clause 5 of IETF RFC 5952 shall not be used.

readOnly: true

Link:

Type: string

Description: string formatted according to IETF RFC 3986 identifying a referenced resource.

Mcc:

Type: string

Description: String encoding a Mobile Country Code part of the PLMN, comprising 3 digits, as defined in 3GPP TS 38.413.

Mnc:

Type: string

Description: String encoding a Mobile Network Code part of the PLMN, comprising 2 or 3 digits, as defined in 3GPP TS 38.413.

Msisdn:

Type: string

Description: string formatted according to subclause 3.3 of 3GPP TS 23.003 that describes an MSISDN.

Port:

Type: integer

Description: Unsigned integer with valid values between 0 and 65535.

Minimum: 0

Maximum: 65535

PortRo:

Type: integer

Description: Unsigned integer with valid values between 0 and 65535, with "readOnly=true" property.

Minimum: 0

Maximum: 65535

readOnly: true

ResourceId:
Type: string
Description: string chosen by the SCEF to serve as identifier in a resource URI.

ScsAsId:
Type: string
Description: string that identifies an SCS/AS.

TimeOfDay:
Type: string
Description: String with format partial-time or full-time as defined in subclause 5.6 of IETF RFC 3339. Examples, 20:15:00, 20:15:00-08:00 (for 8 hours behind UTC).

Uri:
Type: string
Description: string providing an URI formatted according to IETF RFC 3986.

Volume:
Type: integer
format: int64
Minimum: 0
Description: Unsigned integer identifying a volume in units of bytes.

VolumeRm:
Type: integer
format: int64
Minimum: 0
Description: Unsigned integer identifying a volume in units of bytes with "nullable=true" property.
nullable: true

Event:
anyOf:
- type: string
enum:
- SESSION_TERMINATION
- LOSS_OF_BEARER
- RECOVERY_OF_BEARER
- RELEASE_OF_BEARER
- USAGE_REPORT
- type: string
Description:
This string provides forward-compatibility with future extensions to the enumeration but is not used to encode content defined in the present version of this API.

Description:
Possible values are
- SESSION_TERMINATION: Indicates that Rx session is terminated.
- LOSS_OF_BEARER : Indicates a loss of a bearer.
- RECOVERY_OF_BEARER: Indicates a recovery of a bearer.
- RELEASE_OF_BEARER: Indicates a release of a bearer.
- USAGE_REPORT: Indicates the usage report event.

ResultReason:
anyOf:
- type: string
enum:
- ROAMING_NOT_ALLOWED
- OTHER_REASON
- type: string
Description:
This string provides a failure reason.

Description:

Possible values are

- ROAMING_NOT_ALLOWED: Identifies the configuration parameters are not allowed by roaming agreement.
- OTHER_REASON: Identifies the configuration parameters are not configured due to other reason.

HTTP responses

responses:**'400':****Description:** Bad request**content:**

application/problem+json:

schema:**Reference:** '#/components/schemas/ProblemDetails'**'401':****Description:** Unauthorized**content:**

application/problem+json:

schema:**Reference:** '#/components/schemas/ProblemDetails'**'403':****Description:** Forbidden**content:**

application/problem+json:

schema:**Reference:** '#/components/schemas/ProblemDetails'**'404':****Description:** Not Found**content:**

application/problem+json:

schema:**Reference:** '#/components/schemas/ProblemDetails'**'406':****Description:** Not Acceptable**content:**

application/problem+json:

schema:**Reference:** '#/components/schemas/ProblemDetails'**'409':****Description:** Conflict**content:**

application/problem+json:

schema:**Reference:** '#/components/schemas/ProblemDetails'**'411':****Description:** Length Required**content:**

application/problem+json:

schema:**Reference:** '#/components/schemas/ProblemDetails'**'412':****Description:** Precondition Failed**content:**

application/problem+json:

```
    schema:
      Reference: '#/components/schemas/ProblemDetails'
'413':
  Description: Payload Too Large
  content:
    application/problem+json:
      schema:
        Reference: '#/components/schemas/ProblemDetails'
'414':
  Description: URI Too Long
  content:
    application/problem+json:
      schema:
        Reference: '#/components/schemas/ProblemDetails'
'415':
  Description: Unsupported Media Type
  content:
    application/problem+json:
      schema:
        Reference: '#/components/schemas/ProblemDetails'
'429':
  Description: Too Many Requests
  content:
    application/problem+json:
      schema:
        Reference: '#/components/schemas/ProblemDetails'
'500':
  Description: Internal Server Error
  content:
    application/problem+json:
      schema:
        Reference: '#/components/schemas/ProblemDetails'
'503':
  Description: Service Unavailable
  content:
    application/problem+json:
      schema:
        Reference: '#/components/schemas/ProblemDetails'
Default:
  Description: Generic Error
```

