



# ExposureData

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Version:** '-'

**Title:** 'Unified Data Repository Service API file for structured data for exposure'

**Description:** 'The API version is defined in 3GPP TS 29.504'

## Paths

### **/exposure-data/{ueId}/access-and-mobility-data**

**put:**

**Summary:** Creates and updates the access and mobility exposure data for a UE

**Operation ID:** CreateAccessAndMobilityData

**Tags:**

- AccessAndMobilityData

**Parameters:**

- **Name:** ueId

**In:** path

**Description:** UE id

**Required/Optional:** true

**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/VarUeId'

**Request Body:**  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Reference:** '#/components/schemas/AccessAndMobilityData'

**Responses:**

**'201':**  
**Description:** Upon success, a response body is returned containing a representation of the access and mobility data  
**Headers:**  
**Location:**  
**Description:** 'Contains the URI of the newly created resource'  
**Required/Optional:** true  
**Schema:**  
**Type:** string

**'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'

**get:**  
**Summary:** Retrieves the access and mobility exposure data for a UE  
**Operation ID:** QueryAccessAndMobilityData

**Tags:**  
- AccessAndMobilityData

**Parameters:**  
- **Name:** ueId  
**In:** path  
**Description:** UE id  
**Required/Optional:** true

**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/VarUeId'

- **Name:** supp-feat  
**In:** query  
**Description:** Supported Features  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**Responses:**

'200':  
**Description:** The response body contains the access and mobility data  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Reference:** '#/components/schemas/AccessAndMobilityData'

'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'

'414':  
**Reference:** 'TS29571\_CommonData.yaml#/components/responses/414'

'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 access and mobility exposure data for a UE  
**Operation ID:** DeleteAccessAndMobilityData

**Tags:**  
- AccessAndMobilityData

**Parameters:**

- **Name:** ueId  
**In:** path  
**Description:** UE id  
**Required/Optional:** true  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/VarUeId'

**Responses:**

'204':

**Description:** Upon success, an empty response body shall be returned

'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'

## /exposure-data/{ueId}/session-management-data/{pduSessionId}

### put:

**Summary:** Creates and updates the session management data for a UE and for an individual PDU session

**Operation ID:** CreateSessionManagementData

### Tags:

- PduSessionManagementData

### Parameters:

- **Name:** ueId  
**In:** path  
**Description:** UE id  
**Required/Optional:** true  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/VarUeId'

- **Name:** pduSessionId  
**In:** path  
**Description:** PDU session id  
**Required/Optional:** true  
**Schema:**  
**Type:** integer

### Request Body:

**Content:**  
**Application/JSON:**  
**Schema:**  
**Reference:** '#/components/schemas/PduSessionManagementData'

### Responses:

'201':  
**Description:** Upon success, a response body is returned containing a representation of the session management data

**Headers:****Location:****Description:** 'Contains the URI of the newly created resource'**Required/Optional:** true**Schema:****Type:** string

'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'**get:****Summary:** Retrieves the session management data for a UE and for an individual PDU session**Operation ID:** QuerySessionManagementData**Tags:**

- PduSessionManagementData

**Parameters:**- **Name:** ueId**In:** path**Description:** UE id**Required/Optional:** true**Schema:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/VarUeId'- **Name:** pduSessionId**In:** path**Description:** PDU session id**Required/Optional:** true**Schema:****Type:** integer- **Name:** ipv4-addr**In:** query**Description:** IPv4 Address of the UE

**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

- **Name:** ipv6-prefix  
**In:** query  
**Description:** IPv6 Address Prefix of the UE  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'
- **Name:** dnn  
**In:** query  
**Description:** DNN of the UE  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Dnn'
- **Name:** fields  
**In:** query  
**Description:** attributes to be retrieved  
**Required/Optional:** false  
**Schema:**  
**Type:** array  
**Items:**  
**Type:** string
- **Name:** supp-feat  
**In:** query  
**Description:** Supported Features  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**Responses:**

'200':  
**Description:** The response body contains the session management data  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Reference:** '#/components/schemas/PduSessionManagementData'

'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'

'414':  
**Reference:** 'TS29571\_CommonData.yaml#/components/responses/414'

'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 session management data for a UE and for an individual PDU session

**Operation ID:** DeleteSessionManagementData

**Tags:**

- PduSessionManagementData

**Parameters:**

- **Name:** ueId  
**In:** path  
**Description:** UE id  
**Required/Optional:** true  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/VarUeId'
- **Name:** pduSessionId  
**In:** path  
**Description:** PDU session id  
**Required/Optional:** true  
**Schema:**  
**Type:** integer

**Responses:**

- '204':  
**Description:** Upon success, an empty response body shall be returned
- '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'

## /exposure-data/subs-to-notify

**Method:** Post

**Request Body:**

**Required/Optional:** true

**Content:**

**Application/JSON:**

**Schema:**

```

    Reference: '#/components/schemas/ExposureDataSubscription'

Responses:
  '201':
    Description: Created
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/ExposureDataSubscription'
      Headers:
        Location:
          Description: 'Contains the URI of the newly created resource'
          Required/Optional: true
          Schema:
            Type: string
  '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:
  exposureDataChangeNotification:
    '{$request.body#/notificationUri}':
      Method: Post
      Request Body:
        Required/Optional: true
        Content:
          Application/JSON:
            Schema:
              Type: array
              Items:
                Reference: '#/components/schemas/ExposureDataChangeNotification'
                Min Items: 1

    Responses:

```



```

'204':
  Description: No Content, Notification was succesfull
'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'

```

## /exposure-data/subs-to-notify/{subId}

**put:**

**Summary:** updates a subscription for notifications

**Parameters:**

- **Name:** subId
- In:** path
- Description:** Subscription id
- Required/Optional:** true
- Schema:**
  - Type:** string

**Request Body:**

- Required/Optional:** true
- Content:**
  - Application/JSON:**
    - Schema:**
      - Reference:** '#/components/schemas/ExposureDataSubscription'

**Responses:**

- '200':
  - Description:** Resource was succesfully modified.
  - Content:**
    - Application/JSON:**
      - Schema:**

```

    Reference: '#/components/schemas/ExposureDataSubscription'
  '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 a subscription for notifications

  Parameters:
    - Name: subId
      In: path
      Description: Subscription id
      Required/Optional: true
      Schema:
        Type: string

  Responses:
    '204':
      Description: Resource was succesfully deleted.
    '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

**schemas:****AccessAndMobilityData:****Type:** object**Properties:****location:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'**locationTs:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'**timeZone:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'**timeZoneTs:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'**accessType:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/AccessType'**regStates:****Type:** array**Items:****Reference:** 'TS29518\_Namf\_EventExposure.yaml#/components/schemas/RmInfo'**regStatesTs:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'**connStates:****Type:** array**Items:****Reference:** 'TS29518\_Namf\_EventExposure.yaml#/components/schemas/CmInfo'**connStatesTs:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'**reachabilityStatus:****Reference:** 'TS29518\_Namf\_EventExposure.yaml#/components/schemas/UeReachability'**reachabilityStatusTs:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'**smsOverNasStatus:****Reference:** 'TS29518\_Namf\_Communication.yaml#/components/schemas/SmsSupport'**smsOverNasStatusTs:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'**roamingStatus:****Type:** boolean**Description:** True The serving PLMN of the UE is different from the HPLMN of the UE; False The serving PLMN of the UE is the HPLMN of the UE.**roamingStatusTs:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'**currentPlmn:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'**currentPlmnTs:**

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  ratType:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
  ratTypesTs:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
PduSessionManagementData:
  Type: object
  Properties:
    pduSessionStatus:
      Reference: '#/components/schemas/PduSessionStatus'
    pduSessionStatusTs:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    dnai:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnai'
    dnaiTs:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    n6TrafficRoutingInfo:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/RouteToLocation'
    n6TrafficRoutingInfoTs:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    ipv4Addr:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
    ipv6Prefix:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
      minItems: 1
      Description: UE IPv6 prefix.
    ipAddrTs:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    dnn:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
ExposureDataSubscription:
  Type: object
  Properties:
    notificationUri:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    monitoredResourceUris:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
      minItems: 1
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  Required:
    - notificationUri
    - monitoredResourceUris
ExposureDataChangeNotification:

```

**Type:** object

**Properties:**

- ueId:**
  - Reference:** 'TS29571\_CommonData.yaml#/components/schemas/VarUeId'
- accessAndMobilityData:**
  - Reference:** '#/components/schemas/AccessAndMobilityData'
- pduSessionManagementData:**
  - Type:** array
  - Items:**
    - Reference:** '#/components/schemas/PduSessionManagementData'
  - minItems:** 1
- PduSessionStatus:**
  - anyOf:**
    - type: string
    - enum:**
      - "ACTIVE"
      - "RELEASED"
  - 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
    - "ACTIVE"
    - "RELEASED"

