



# 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'

## externalDocs

**Description:** 3GPP TS 29.519 V15.2.0; 5G System; Usage of the Unified Data Repository Service for Policy Data, Application Data and Structured Data for Exposure.

**URL:** 'http://www.3gpp.org/ftp/Specs/archive/29\_series/29.519/'

## 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' 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' 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': 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/{ueld}/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' 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' 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': 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' 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'**minItems:** 1**Responses:****'204'** No Content, Notification was successful**'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' Resource was successfully 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' Resource was successfully 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

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.

Possible values are

- "ACTIVE"

- "RELEASED"

