Road Alerts

|  |  |
| --- | --- |
| **Start Date** | 2022-01-01 00:00:00 |
| **End Date** | 2023-06-30 23:59:59 |
| **N. of Entries** | 11902 |

# Origin

FIWARE provides a standard data model for handling Alerts, known as the NGSI (Next Generation Service Interface) Alert Data Model. This model is designed to represent information related to alerts or notifications in a standardized way, ensuring interoperability across different components and systems within the FIWARE ecosystem.

This model can be used to refer alerts about **traffic jam, accidents, weather conditions, high level of pollutants** and so on.

# Transformations

Transformed from FIWARE Alert Entity to a JSON simplified version.

# Data Dictionary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Description** | **Type** | **Default** | **Example** |
| id | unique identifier of the entity | text | null | urn:ngsi-ld:Alert:porto:RoadAlertsUnscheduled:cmp518580 |
| type | Type of entity | text | null | Alert |
| category | Alert category | text | null | Traffic |
| subCategory | Alert subcategory | text | null | carAccident |
| source | Entity Source | text/url | null | https://servsig.cm-porto.pt/arcgis/rest/services/IGVP/CondicionamentosNprog/FeatureServer/0 |
| dataProvider | Alert Provider | url | null | https://www.cm-porto.pt/ |
| location | Alert Location | geo:json | null | "coordinates":[-8.649091427,41.149767771] |
| dateIssued | Date and Time the Alert was issued | datetime | null | 2022-02-12T00:35:00.00Z |
| validFrom | Alert start date | datetime | null | 2022-02-17T10:00:00.00Z |
| validTo | Alert end date | datetime | null | 2022-02-17T12:30:00.00Z |
| description | Alert description | Description | null | Rua da Nau Trindade 212 - Outro motivo |
| alertSource | Reference to the source | text/url | null | Câmara Municipal do Porto |
| severity | Level of alert severity | text | null | informational |

# Info

The Alerts are divided into categories and each category can have several subcategories. We are focusing our attention on the traffic category.

For the *category* ***traffic*** the *subCategory* possible values are:

* **trafficJam:** Indicates a situation where traffic flow is significantly slower than normal or completely halted, typically due to congestion or an obstruction on the road.
* **carAccident:** Represents an alert related to a car accident, indicating that a collision or crash involving vehicles has occurred.
* **carWrongDirection:** Indicates that a vehicle is moving in the wrong direction on a road or in an area where such movement is not permitted.
* **carStopped:** Represents a situation where a car has come to a complete stop, which may be unexpected or abnormal in the given context.
* **pothole:** Indicates the presence of a pothole on the road, highlighting a potential hazard for vehicles.
* **roadClosed:** Signifies that a road is closed for traffic, indicating that it is inaccessible or restricted for some reason.
* **roadWorks:** Represents an alert related to ongoing road maintenance or construction work that may affect traffic flow.
* **hazardOnRoad:** Indicates the presence of a hazard on the road, such as debris, obstacles, or any other condition that poses a risk to vehicles.
* **InjuredBiker:** Represents an alert related to a biker (motorcyclist or cyclist) who has been injured, highlighting a potential emergency or accident involving a two-wheeler.