



# TMR QLDTraffic Event Import Specification

Traffic and road condition information import

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## History

Version	Date	Description
0.1	31/7/2012	Draft specification (unreleased)
0.12	14/11/2017	<ul style="list-style-type: none"> <li>Source property is mandatory</li> <li>Source.source_id must be unique</li> <li>Removed Duration.active_days property</li> <li>Added N/A as event subtype for Special event</li> <li>Added publication structure</li> </ul>
0.13	04/12/2017	<ul style="list-style-type: none"> <li>Recurrence.startDay is now a string</li> </ul>
0.14	07/12/2017	<ul style="list-style-type: none"> <li>Added Notes for implementers section</li> <li>Large reformatting effort</li> </ul>
1.0	15/12/2017	<ul style="list-style-type: none"> <li>Removed notes for implementers section</li> <li>Added implementation requirements section</li> </ul>
1.2	09/01/2018	Formatting changes
1.3	30/10/2018	<p>Updated Description field with better explanation</p> <p>Advice field updated</p> <p>Updated Authentication section</p> <p>Include section on polling</p> <p>Provide further detail on days Duration</p> <p>Removed restriction on only special events</p>
1.4	1/11/2018	<p>Corrected location of emergency roadworks</p> <p>Added clarification to the logic of the impact field</p> <p>Fixed impact details all directions and both directions.</p> <p>Ensured QLDTraffic was spelt consistently</p>
1.5	1/11/2018	<p>Corrected Heavy Rain to Heavy rain</p> <p>Added additional advice option</p> <p>Clarified date field formats</p>
1.6	31/01/2019	Added extra explanation and examples to recurrances
1.7	20/03/2019	<p>Fixed the case of Both directions</p> <p>Fixed the case of Single vehicle</p> <p>Clarified the publication field to only be used when it is required</p> <p>Added the correct impact to directional closures</p>
1.8	1/4/2019	<p>Fixed case of Road restricted to ensure all references are the same case</p> <p>Clarified that Duration Start is mandatory</p>
1.9	5/4/2019	Updated the examples for recurring to use the correct ISO 8601 duration string standard for timespan.
1.11	9/6/2022	<p>Updated the Source Structure indicating the mandatory data and more descriptions to what the various properties mean.</p> <p>Water over road subtype has moved from Hazard/Adverse driving conditions to Flooding/Flash flooding.</p> <p>Added more description for the publication structure.</p>

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# 1 Introduction

## 1.1 Purpose

This document provides a specification of the integration and data distribution framework provided by the Department of Transport and Main Roads' QLDTraffic service. The specification is intended to provide sufficient detail to enable the implementation of client components that interact and communicate with the QLDTraffic service information.

## 1.2 Scope

The scope of this document is to specify a file format that allows information, such as crashes, hazards, road restrictions and other road-related events to be imported into the TMR system for use in the QLDTraffic service.

## 1.3 Audience

The intended audience is developers, architects, system designers and testers. It assumes prior knowledge and understanding of concepts and specifications including JSON and GeoJSON.

## 1.4 References

- |   |  |
|---|--|
| 1 | H. Butler, M. Daly, A. Doyle, S. Gillies, T. Schaub and C. Schmidt, "The GeoJSON Format Specification," August 2016. [Online]. Available: <a href="https://tools.ietf.org/html/rfc7946">https://tools.ietf.org/html/rfc7946</a> . [Accessed 28 July 2017]. |
|---|--|

## 1.5 Definitions

Term	Definition
JSON	JavaScript Object Notation, an open standard for transmitting data.
GEOJSON	An open, specialized JSON format for encoding a variety of geographic data structures and related metadata.
EPS	Event Publication System
TMR	Transport and Main Roads
URL	Uniform Resource Locator. Also known as a web address.

## 2 Implementation requirements

Authority to provide data for the EPS to consume will be granted on a case by case basis, contact [QLDTraffic@tmr.qld.gov.au](mailto:QLDTraffic@tmr.qld.gov.au) to request authorization. Include the name of your data source, and reasons for wishing to integrate with QLDTraffic in the request.

TMR will review the event types that are intended to be provided by the implementer, to ensure information is relevant to Queensland motorists. TMR may refuse to integrate with sources for any reason.

Implementers are required to provide separate sources for testing and production data, testing of the integration will be conducted by TMR in a test environment prior to integrating with the production QLDTraffic environment.

The GeoJSON source must be accessible over the public internet, via an HTTP Get request. TLS/SSL is supported, authentication methods are not supported, redirects (HTTP 3xx responses) will not be followed. The EPS outgoing IP addresses can be provided if the implementer wishes to filter traffic. The URL to the source may contain arguments such as an API key.

The GeoJSON source will be polled every 2 minutes unless otherwise requested.

## 3 Import Process Overview

The TMR Event Publication System (EPS) imports data from various internal and external sources and presents the data for use in the QLDTraffic website. The following is a high-level description of the import process:

The various data sources are polled by EPS at a set interval. There is currently no facility to push data back to the source system - it is a one-way feed via the endpoint provided.

A high-level overview of the steps for the import is as follows:

1. A GeoJSON file is fetched from a URL with an HTTP Get request; first level cache checks if the file has changed since the previous import, before proceeding to the rest of the steps
2. The systems performs a 'cache check', which checks to see if the event has been imported before, and therefore decides whether to create a new event or update an existing event in EPS:
  - a. A new event record will be imported and published if no errors or conflicts were found.
  - b. New events undergo a duplicate check, and a conflict check which validates if the source provider can publish events for a given road. A failure on either check will result in the Event still being imported, but as a DRAFT status instead of PUBLISHED. TMR staff will update or remove DRAFT events as appropriate.
  - c. An existing (previously downloaded) record that has not changed will be ignored
  - d. An existing (previously downloaded) record that has changed will trigger an update

- e. A missing record (i.e. was in the feed previously but is now absent) implies that the corresponding road event is now over. As a result, the event is archived, which removes it from the QLDTraffic site.
3. The Geometry object is normalised against Google and TMR data in order to form a road segment that can be used in Google Maps

## 4 Data Contract Specification

The import file will be a GeoJSON file that has a FeatureCollection that contains Features. Each Feature is a single Event that contains a Geometry object and a Properties object. The Geometry object provides the details for the geographic points or lines that correspond to roads that are affected by the event, and the Properties object provides the metadata for the event.

### 4.1 Feature Structure

The general format for feature is:

```
{
  "type": "Feature",
  "geometry": Object,
  "properties": Object
}
```

Properties of the above Feature are described as:

Property	Type	Description
Type	String	<b>Mandatory.</b> Always "Feature"
geometry	Object	<b>Mandatory.</b> This object contains geometry data structures supported by the GeoJSON specification
properties	Object	<b>Mandatory.</b> This object contains the metadata properties related to the road event and is described in further detail in the following section.

### 4.2 Geometry Object

This object contains the geographic points or lines for roads that are affected by the event. The object is described by the Internet Engineering Task Force (IETF) in RFC7946 >> <https://tools.ietf.org/html/rfc7946>

The "type" used will be "GeometryCollection".

The principal "type" attributes found within the "geometries" will be "LineString" and/or "Point". No other types are supported.

Points should be used for events that affect a simple contiguous piece of road.

LineString should be used for events that cover multiple roads or a single road with an event affecting non-contiguous sections.

### 4.3 Feature Properties

The general format for properties is:

```
"properties": {
  "source": {
    "source_name": String,
```

```

    "source_id": String,
    "account": String,
    "provided_by": String,
    "provided_by_url": String
  },
  "event_type": String,
  "event_subtype": String,
  "event_due_to": String,
  "impact": {
    "direction": String,
    "towards": String,
    "impact_type": String,
    "impact_subtype": String,
    "delay": String
  },
  "duration": {
    "start": ISO DateTime,
    "end": ISO DateTime,
    "recurrences": [
      {
        "startDay": String,
        "daysDuration": Number,
        "startTime": String,
        "duration": String,
        "allDay": Boolean,
        "impact": {
          "direction": String,
          "towards": String,
          "impact_type": String,
          "impact_subtype": String,
          "delay": String
        }
      }
    ],
    ...
  ]
},
"description": String,
"advice": String,
"information": String,
"last_updated": ISO Datetime,
"next_inspection": ISO Datetime,
"web_link": String,
}

```

This object contains the metadata properties related to the road event.

Property	Type	Description
source	Object	<b>Mandatory.</b> A Source object, as described below.
event_type	String	<b>Mandatory.</b> The primary type for this event, always one of the following: <ul style="list-style-type: none"> <li>• Hazard</li> <li>• Crash</li> <li>• Congestion</li> <li>• Roadworks</li> <li>• Special event</li> </ul>

		<ul style="list-style-type: none"> <li>• Flooding</li> </ul> <p>This is the 1st part of a 3-part hierarchy for event categorisation</p>
event_subtype	String	<p><b>Mandatory.</b> The secondary type for this event.</p> <p>This is the 2nd part of a 3-part hierarchy for event categorisation</p> <p>See section 4.4 (below) for valid event_type – event_subtype combinations.</p>
event_due_to	String	<p>The cause of the event.</p> <p>This is the 3rd part of a 3-part hierarchy for event categorization</p> <p>See section 4.4 (below) for valid event_type – event_subtype – event_due_to combinations.</p>
impact	Object	<b>Mandatory.</b> An Impact object, described below. 4.3.2
duration	Object	<b>Mandatory.</b> The duration and times that this event impact.
description	String	A short description outlining information specific to this event – example the name of the event, name of the bridge or exit or distance from the nearest town
advice	String	<p><b>Mandatory.</b> Advice to motorists, always one of the following:</p> <ul style="list-style-type: none"> <li>• Changed traffic conditions</li> <li>• Allow extra travel time</li> <li>• Diversions are in place</li> <li>• Do not drive in flood waters</li> <li>• Emergency services are on scene/en-route</li> <li>• Motorists are urged to show patience</li> <li>• Observe signage</li> <li>• Seek alternative transport method</li> <li>• Traffic control on scene</li> <li>• Use alternative route</li> <li>• Proceed with caution</li> <li>• Queensland Police on scene</li> <li>• Reduced speed limit (40km/h)</li> <li>• Reduced speed limit (60km/h)</li> <li>• Reduced speed limit (80km/h)</li> <li>• Avoid the area</li> </ul>
information	String	Extra information regarding this event.
last_updated	ISO Datetime	The date time this event was last updated in the system.

next_inspection	ISO Datetime	<b>Mandatory if event_subtype is one of ["Road damage", "Bridge or culvert damaged", "Flash flooding", "Long-term flooding"].</b> The date time a review is next due for road inspection related to the roads of this event
web_link	String	A URL link to additional information for the event (external to QLDTraffic)
publication	Object	<b>Mandatory if event_type is "Special event" or event_subtype is "Planned roadworks".</b> The times when the event should be published, described below.  All other event types/subtypes cannot use this field.

#### 4.3.1 Source Structure

A source describes the source of the event data.

```
{
  "source_name": String,
  "source_id": String,
  "account": String,
  "provided_by": String,
  "provided_by_url": String
}
```

Property	Type	Description
source_name	String	<b>Mandatory.</b> The source system from which this event was sourced.
source_id	String	<b>Mandatory.</b> The additional unique event identifier from the external source. This can be used to uniquely identify an event from external source.
account	String	<b>Mandatory.</b> The additional account information. Unique identifier will be supplied by QLD Traffic upon request.
provided_by	String	<b>Mandatory.</b> The regional Asset owner name owning events data provided by the source.
provided_by_url	String	<b>Mandatory.</b> The web link data supporting events from the source.

#### 4.3.2 Impact Structure

An impact describes the affect an event has on the roads effected.

```
{
  "direction": String,
  "towards": String,
  "impact_type": String,
  "impact_subtype": String,
  "delay": String
}
```

Property	Type	Description
direction	String	<p><b>Mandatory.</b> Always one of the following:</p> <ul style="list-style-type: none"> <li>• Northbound</li> <li>• Southbound</li> <li>• Eastbound</li> <li>• Westbound</li> <li>• Northeast bound</li> <li>• Northwest bound</li> <li>• Southeast bound</li> <li>• Southwest bound</li> <li>• Inbound</li> <li>• Outbound</li> <li>• Both directions</li> <li>• All direction</li> <li>• Unknown</li> </ul>
towards	String	<p><b>If Direction is one of [“Both directions”, “All directions”, “Unknown”] then not required, Mandatory for all other values of Direction.</b> Text, may be null or whitespace.</p>
impact_type	String	<p><b>Mandatory.</b> Always one of the following:</p> <ul style="list-style-type: none"> <li>• N/A</li> <li>• Closures</li> <li>• Lanes affected</li> <li>• Lanes blocked</li> <li>• Road restricted</li> <li>• No blockage</li> </ul> <p>This is the 1st part of a 2-part hierarchy impact categorisation as follows.</p> <p>Road restricted is only available to the following event subtypes: Flash flooding, Long-term flooding, Adverse driving conditions, Bridge or culvert damaged, Road damage, , Planned roadworks</p>
impact_subtype	String	<p><b>Mandatory if impact_type is one of [“Closures”, “Lanes affected”, “Lanes blocked”, “Road restricted”].</b></p> <p>The secondary impact type for this event. This is the 2nd part of a 2-part hierarchy for event categorisation See section 4.4 (below) for valid impact_type – impact_subtype combinations</p>

delay	String	Values vary depending on the Event_Type, see “4.3.3 Source Structure – Event_Type/Delay map” below.
-------	--------	---

### 4.3.3 Source Structure – Event\_Type/Delay Mapping

Event_Type		Delay
Hazard	>>	No delays expected
Crash		Delays expected
Congestion		Long delays expected
Flooding		

Roadworks	>>	No delays expected
Special Events		Delays expected (during active hours)
		Long delays expected (during active hours)

### 4.3.4 Duration Structure

A duration describes when an event is taking place.

```

{
  "start": ISO DateTime,
  "end": ISO DateTime,
  "recurrences": [
    {
      "startDay": String,
      "daysDuration": Number,
      "startTime": String,
      "duration": String,
      "allDay": Boolean
      "impact": Object
    }
  ]
}

```

Property	Type	Description
start	ISO Datetime	<b>Mandatory</b> The date and time this event starts ISO 8601 time string, Queensland time
end	ISO Datetime	<b>Mandatory if event_type is one of ["Roadworks", "Special event"]</b> . The date and time this event stops



		ISO 8601 time string, Queensland time
recurrences	Array	An array of days, times and impacts that this event is impacting the road, may be null or empty.
recurrences[n].startDay	String	<b>Mandatory if recurrence is used.</b> The day of week that the recurrence starts.
recurrences[n].daysDuration	Number	<b>Mandatory if recurrence is used.</b> The number of days of the recurrence. Values can range from 1 to 7, 1 meaning a single day, 7 all week
recurrences[n].startTime	String	<b>Mandatory if recurrence is used and allDay &lt;&gt; True.</b> ISO 8601 time string, Queensland time
recurrences[n].duration	String	Mandatory if recurrence is used and allDay <> True. ISO 8601 duration string. Hours and minutes. Duration can't be more than 24 hours.  The string format must conform to the W3C XML Schema Part 2: Datatypes recommendation for duration
recurrences[n].allDay	Boolean	Optional – Set to true if impact is for the entire day. startTime and duration are invalid if this is true.
recurrences[n].impact	Object	An impact object, described above.

Recurrences can overlap and their order isn't important. If a recurrence overlaps another, only one may be shown to end users.

Every Monday from 10:00pm to 11:00pm

```
"recurrences": [
  {
    "startDay": "Monday",
    "daysDuration": 1,
    "startTime": "22:00",
    "duration": "PT1H",
    "impact": {
      "direction": "Southbound",
      "towards": "Station",
      "impact_type": "Lanes blocked",
      "impact_subtype": "Right lane blocked",
      "delay": "No delays expected"
    }
  }
]
```

All day Tuesday, Wednesday and Thursday

```
"recurrences": [
  {
    "startDay": "Tuesday",
    "daysDuration": 3,
    "allDay": true,
    "impact": {
      "direction": "Southbound",
      "towards": "Station",
      "impact_type": "Lanes blocked",
      "impact_subtype": "Right lane blocked",
      "delay": "No delays expected"
    }
  }
]
```

Every Tuesday, Wednesday and Thursday from 10:00pm to 11:00pm and Monday 8-9:00pm

```
"recurrences": [
  {
    "startDay": "Monday",
    "daysDuration": 1,
    "startTime": "20:00",
    "duration": "PT1H",
    "impact": {
      "direction": "Southbound",
      "towards": "Station",
      "impact_type": "Lanes blocked",
      "impact_subtype": "Right lane blocked",
      "delay": "No delays expected"
    }
  },
  {
    "startDay": "Tuesday",
    "daysDuration": 3,
    "startTime": "22:00",
  }
]
```

```

    "duration": "PT1H",
    "impact": {
      "direction": "Southbound",
      "towards": "Station",
      "impact_type": "Lanes blocked",
      "impact_subtype": "Right lane blocked",
      "delay": "No delays expected"
    }
  }
]

```

Every Mon, Wed, Friday all day

```

"recurrences": [
  {
    "startDay": "Monday",
    "daysDuration": 3,
    "allDay": true,
    "impact": {
      "direction": "Southbound",
      "towards": "Station",
      "impact_type": "Lanes blocked",
      "impact_subtype": "Right lane blocked",
      "delay": "No delays expected"
    }
  },
  {
    "startDay": "Wednesday",
    "daysDuration": 3,
    "allDay": true,
    "impact": {
      "direction": "Southbound",
      "towards": "Station",
      "impact_type": "Lanes blocked",
      "impact_subtype": "Right lane blocked",
      "delay": "No delays expected"
    }
  },
  {
    "startDay": "Friday",
    "daysDuration": 3,
    "allDay": true,
    "impact": {
      "direction": "Southbound",
      "towards": "Station",
      "impact_type": "Lanes blocked",
      "impact_subtype": "Right lane blocked",
      "delay": "No delays expected"
    }
  }
]

```

#### 4.4 Event Type / Event SubType / Event Due To Mapping

event_type	event_subtype	event_due_to
Hazard	Poor visibility	Fog Heavy rain Dust Sun glare Smoke
	Adverse driving conditions	High winds Slippery surface Animal or wildlife
	Signal fault	Lights blacked out Lights flashing yellow Power Outage
	Road damage	Earlier flooding Earlier flash flooding Potholes Rough surface Soft shoulders Saturated pavements Boggy conditions Deep wheel tracks
	Bridge or culvert damaged	
	Debris on road	Fallen vegetation Spill
	Stationary vehicle	
	Police incident	
	Emergency roadworks	
	Fire	
Crash	Single vehicle Multi-vehicle	
Congestion	Recurring Incident related General Earlier incident related	
Roadworks	Planned roadworks	
Special event	N/A	
Flooding	Long-term flooding	Heavy rain Flooding of river
	Flash flooding	Burst water main Water over road Heavy rain

## 4.5 Direction / Impact / Impact Details

Direction	Impact	Impact Details
Northbound Southbound Eastbound Westbound Northeast bound Northwest bound Southeast bound Southwest bound Inbound Outbound	N/A	
	Closures	Road closed to all traffic Road closed to through traffic One lane closed Partial lane closures
	Lanes affected	All lanes affected Both lanes affected Lane or lanes reduced Single lane in operation
	Lanes blocked	All lanes blocked Both lanes blocked Lane or lanes blocked One lane blocked Two lanes blocked Left lane blocked Middle lane blocked Right lane blocked
	Road restricted	Restricted to four wheel drive vehicles only Restricted to high clearance vehicles only Subject to a 5 tonne GVM limit Subject to a 10 tonne GVM limit Subject to a 15 tonne GVM limit Subject to a 25 tonne GVM limit Subject to a 42.5 tonne GVM limit Subject to a 46 tonne GVM limit Limited to 80% of legislative axle group limit
	No blockage	
All directions Both directions	N/A	
	Closures	Road closed to all traffic Road closed to through traffic Partial lane closures
	Lanes affected	All lanes affected Lane or lanes reduced
	Lanes blocked	All lanes blocked Lane or lanes blocked
	Road restricted	Restricted to four wheel drive vehicles only Restricted to high clearance vehicles only Subject to a 5 tonne GVM limit Subject to a 10 tonne GVM limit Subject to a 15 tonne GVM limit Subject to a 25 tonne GVM limit Subject to a 42.5 tonne GVM limit Subject to a 46 tonne GVM limit Limited to 80% of legislative axle group limit

	No blockage	
	N/A	
Unknown	Closures	Partial lane closures
	Lanes affected	Lane or lanes reduced
	Lanes blocked	Lane or lanes blocked
	No blockage	

### 4.6 Publication

Describes when an event should have details published.

```
{
  "start": ISO DateTime,
  "end": ISO DateTime
}
```

Property	Type	Description
start	ISO Datetime	<b>Mandatory</b> The date and time publication starts ISO 8601 time string, Queensland time
end	ISO Datetime	<b>Mandatory if event_type is one of ["Roadworks", "Special event"]</b> . The date and time publication stops. ISO 8601 time string, Queensland time  All other event types with an end time will not be published, i.e., Flooding, Hazards, Congestion and Crash



## 5 Appendix A – Sample JSON Structure

```

{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "geometry": {
        "type": "GeometryCollection",
        "geometries": [
          {
            "type": "LineString",
            "coordinates": [
              [
                153.0258962,
                -27.3399828
              ],
              [
                153.02596,
                -27.34007
              ],
              [
                153.02602,
                -27.34015
              ],
              [
                153.026028,
                -27.3401745
              ]
            ]
          },
          {
            "type": "LineString",
            "coordinates": [
              [
                153.026028,
                -27.3401745
              ],
              [
                153.025712,
                -27.3403917
              ]
            ]
          }
        ]
      },
      "properties": {
        "id": 155,
        "source": {
          "source_name": "Guardian",
          "source_id": "57dbf30f-7dd0-4680-af00-ef37378ae7ab",
          "account": "32260",
          "provided_by": "CASSOWARY COAST REGIONAL",
          "provided_by_url": "http://www.cassowarycoast.qld.gov.au"
        }
      }
    }
  ]
}

```

```

},
"event_type": "Special event",
"event_subtype": "N/A",
"event_due_to": null,
"impact": {
  "direction": "Southbound",
  "towards": "Station",
  "impact_type": "Lanes blocked",
  "impact_subtype": "Right lane blocked",
  "delay": "No delays expected"
},
},
"duration": {
  "start": "2016-06-13T12:13:00+10:00",
  "end": "2016-06-27T12:18:00+10:00",
  "recurrences": [
    {
      "startDay": "monday",
      "daysDuration": 4,
      "startTime": "18:00",
      "duration": "PT6H",
      "impact": {
        "direction": "Southbound",
        "towards": "Station",
        "impact_type": "Lanes blocked",
        "impact_subtype": "Right lane blocked",
        "delay": "No delays expected"
      }
    },
    {
      "startDay": "wednesday",
      "daysDuration": 3,
      "startTime": "00:00",
      "duration": "PT18H",
      "impact": {
        "direction": "Southbound",
        "towards": "Station",
        "impact_type": "Lanes affected",
        "impact_subtype": "Lane or lanes reduced",
        "delay": "No delays expected"
      }
    },
    {
      "startDay": "friday",
      "daysDuration": 3,
      "allDay": true,
      "impact": {
        "direction": "Southbound",
        "towards": "Station",
        "impact_type": "Lanes affected",
        "impact_subtype": "Lane or lanes reduced",
        "delay": "No delays expected"
      }
    }
  ]
}
}

```

```
    },  
    "description": "Fitzgibbon - Road name abbreviations",  
    "advice": "Use alternative route",  
    "information": "Cleaning - Fitzgibbon",  
    "last_updated": "2016-06-20T11:37:19.448257+10:00",  
    "next_inspection": "2016-06-27T09:30:00.000000+10:00",  
    "web_link": "http://www.metropolitan.qld.gov.au"  
  }  
}  
}
```