

Traffic delays real-time information metadata

Attribute Specifications

linkid (type: Integer)	Unique numeric identifier for each link
name (type: String)	The name of the link
direction (type: String)	Descriptive direction of travel along the link (eg 'SB' = South Bound)
congestion (type: Double)	A numeric value for congestion parameter refreshed every 30 secs. The congestion parameter is the Excess Delay value converted into a number of standard deviations. Road segments with stable travel times have small standard deviations. Segments containing level crossings tend to have large standard deviations. The congestion parameter amplifies delays on stable segments and dampens delays on variable segments.
delay (type: double)	A numeric value for delay in minutes refreshed every 30 secs. Delay is the difference between the current travel time and the free-flow travel time for the segment
excess_delay (type: double)	A numeric value for excess delay in minutes refreshed every 30 secs. (difference between current delay and normal delay for time and day of week)
trend (type: String)	Comma separated list of travel times for the link every 5 minutes for the previous hour (in seconds).
travel_time (type: double)	A numeric value for the latest travel time along the link in minutes, refreshed every 30 secs.
score (type: Integer)	A numeric value 0-4 for symbolising the link from cool through hot (DPTI derived process) that uses a combination of the Excess Delay and Congestion values.
geometry (type: geojson linestring geometry)	coordinates - Array of longitude and latitude (double) pairs that make up a 'line'

Example queries using the web service

1. <http://maps.sa.gov.au/AddInsight/geoservice/links>

Returns a geojson feature collection of lines that represent road links that are currently experiencing delay.

2. <http://maps.sa.gov.au/AddInsight/geoservice/links/?all=true>

Returns a geojson feature collection of lines that represents all road links for the Adelaide AddInsight network regardless of the delay status

3. An additional parameter 'bbox' can be used with either of the above requests (minimum longitude, minimum latitude, maximum longitude, maximum latitude) e.g.

<http://maps.sa.gov.au/AddInsight/geoservice/links/?bbox=138.491,-34.934,139.583,-34.911&all=true>

Returns a geojson feature collection of lines that represents all road links within the bounding box (bbox) specified.

4. Example geojson returned from the service

```
{
```

```
"type": "FeatureCollection",
"crs": {
  "type": "name",
  "properties": {
    "name": "urn:ogc:def:crs:OGC:1.3:CRS84"
  }
},
"features": [{
  "type": "Feature",
  "geometry": {
    "type": "LineString",
    "coordinates": [
      [138.5959562, -34.7883677],
      [138.5937917, -34.7673380],
      [138.5934805, -34.7660157],
      [138.5925852, -34.7633656]
    ]
  },
  "properties": {
    "linkid": 941,
    "name": "Pt Wakefield Rd - Ryans Rd to Bolivar Rd",
    "direction": "NB",
    "congestion": 8.3,
    "delay": 1.3,
    "excess_delay": 1.0,
    "trend": "184,184,212,182,170,166,166,178,178,172,179,193",
    "travel_time": 3.2,
    "score": 1
  }
}]
}
```