

Heavy Vehicle Network – Height Clearances Technical Documentation



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Document Control

Revision History

Version	Date	Author	Description
1	December, 2022	Liam Zylberberg	Creating initial version of document

References

Document Name	Location

1 Overview

VicRoads is committed to providing the heavy vehicle industry with up to date information on the Victorian road network. Having information available about height clearances and locations is important in ensuring the safety and productivity of all heavy vehicles in Victoria.

This dataset contains the height clearance of overhead structures on arterial roads (freeways, highways, and main roads) as published on the Vicroads website. It indicates the clearance between the road surface and overhead structures and is intended to assist heavy vehicle operators and drivers to plan their routes.

The relevant municipality or road manager should be consulted for details of overhead structures when operating on local roads, however, where advised by road managers, local structures will be added to the height clearance map.

2 API Meta Data

This dataset contains the height clearance of overhead structures on arterial roads (freeways, highways, and main roads) as published on the Vicroads website. It indicates the clearance between the road surface and overhead structures and is intended to assist heavy vehicle operators and drivers to plan their routes.

2.1 Brief

Resource Name: Heavy Vehicle Network – Height Clearances

URL: <https://data-exchange-api.vicroads.vic.gov.au/opendata/network/static/hvr/v1/heightclearances>

Domain: Freight

Update Frequency: Weekly (Monday Morning)

Data Format: GeoJSON

Data Type: Geospatial Data (Point)

Geographic Extent: Victoria (Declared Roads Only)

2.2 Dataset Attributes

We have produced a table below outlining each of the data Fields and Values contained within this dataset.

Table 1 Dataset Attributes

Name	Type	Definition
type	String	Fixed Value: FeatureCollection
features	Array [Feature]	Array of Feature object. Refer to Feature object details.
Feature	Object	A single overhead structure is represented as a single feature in Geo Json.
Feature.type	String	Fixed Value: Feature
Feature.geometries	Array [Geometry]	Array of Geometry object. Refer to Geometry object details.

Name	Type	Definition
Feature.properties	Object [Property]	The properties of the structure. Refer to Property object details.
Geometry	Object	The geo coordinate representation of the structure as specified by the Geo Json.
Geometry.type	String Enumeration	<p>LineString</p> <p>A linestring represents two or more geographic points that share a relationship as specified in the GeoJson spec.</p> <p>Point</p> <p>A point represents a single geographic position as specified in the GeoJson spec.</p>
Geometry.coordinates	Array [double]	<p>Coordinates are in x, y order (longitude, and latitude for geographic coordinates) precisely in that order and using double values. Altitude or elevation MAY be included as an optional third parameter while creating this object.</p> <p>Ex: when the geometry type is point</p> <pre>1{ 2 "type": "Point", 3 "coordinates": [100.0, 0.0] 4 } 5</pre> <p>Ex: when the geometry type is LineString</p> <pre>1{ 2 "type": "LineString", 3 "coordinates": [4 [100.0, 0.0], 5 [101.0, 1.0] 6] 7 } 8</pre>
Property	Object	Properties of the structure
Property.source	Object [Source]	Information about the source of the structure data
Property.no	Integer	VicRoads assigned number from original dataset
Property.structureId	String	VicRoads Structure ID from Asset team
Property.roadName	String	Name of road structure sits on
Property.structureType	String	Type of Structure (Overpass, Gantry, Road, Rail)
Property.heightNorthbound	String	Height of structure in the North Bound lane (in metres)
Property.heightSouthbound	String	Height of structure in the South Bound lane (in metres)
Property.heightEastbound	String	Height of structure in the East Bound lane (in metres)

Name	Type	Definition
Property.heightWestbound	String	Height of structure in the West Bound lane (in metres)
Property.minimumHeight	Double	Minimum height of the structure (How height it is at its lowest point) (in metres)
Property.directionOfTravelForward	String	Direction of travel (ie east bound coming into the city)
Property.directionOfTravelReverse	String	Direction of travel (ie east bound leaving from the city)
Property.heightForward	String	Height of structure in coming towards the city (in metres)
Property.heightReverse	String	Height of structure leaving the city (in metres)
Property.heightCategory	String	Height Category
Source	Object	Information about the source of the structure.
Source.sourceName	String Enumeration	Fixed Value: NHVR Height Clearance
Source.sourceId	String	Source system identification of the structure.