Vicmap

Terms and Definitions

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Version 1.0 April 2022

Applies to Vicmap Data Product Specifications

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# Document history

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| Version | Date | Note |
| 1.0 | April 2022 | Initial publication |

In accordance with with AS/NZS ISO 19131:2008 Geographic Information – Data product specifications the Vicmap Terms and Definitions repository has been created for all Vicmap products.

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# Overview

## Vicmap™

Vicmap™ is the foundation that underlies most spatial information in Victoria. This portfolio of spatial related authoritative data products, made up from individual datasets, is developed and managed by the Department of Environment, Land, Water and Planning (DELWP). The information provides the foundation to Victoria’s primary mapping and spatial information systems, and is used for building business information and systems.

Vicmap is a registered trademark of the Victorian Government and is synonymous with authoritative statewide mapping since 1975.

The Vicmap portfolio includes:

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| * + - Vicmap Address     - Vicmap Admin     - Vicmap Buildings (proposed)     - Vicmap Crown Land Tenure     - Vicmap Elevation     - Vicmap Features of Interest     - Vicmap Historic Imagery     - Vicmap Hydro     - Vicmap Imagery     - Vicmap Index | * + - Vicmap Infrastructure (proposed)     - Vicmap Lite     - Vicmap Planning     - Vicmap Position     - Vicmap Property     - Vicmap Survey (proposed)     - Vicmap Topographic Mapping     - Vicmap Transport     - Vicmap Vegetation |

Vicmap is supported by:

* + - Vicmap Reference Tables: Reference tables used by and between products that list the full name, description and other attributes associated with a feature code or identifier. For example, the Feature catalogue that lists and describes feature types and feature subtypes.

Further information can be found at [Vicmap catalogue (land.vic.gov.au)](https://www.land.vic.gov.au/maps-and-spatial/spatial-data/vicmap-catalogue)

## Responsible party

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# Introduction

A common language is an essential prerequisite to communication. A simple knowledge of vocabulary, however maybe insufficient to guarantee effective communication. A word may have several meanings and may depend on the context in which it is used. Similarly, a concept can be referenced by several terms, each communicating a different connotation or level of emphasis. To communicate effectively it is necessary to understand both the terms and the context in which they are used.

Vicmap operates using the following terminology. Where possible standardised and industry accepted terms are used.

# Terminology

DELWP uses [Esri Support GIS Dictionary](https://support.esri.com/en/other-resources/gis-dictionary) for terms and definitions. Additional and supporting terms and definitions may apply for Vicmap products as indicated below.

## General

|  |  |
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| **Term** | **Definition** |
| ANZLIC ID | A unique identifier enabling metadata records to be discovered and differentiated within a structured data library. |
| Cadastre | A public register usually recording the quantity, value and ownership of land parcels in a country or jurisdiction. |
| Chain | A line composed of a sequence of non-intersecting line segments bounded by nodes. Chains reference the polygons to the left and right of the chain. |
| Crown Land | All land owned and held by the State. |
| Custodian | An organisation responsible for ensuring the accuracy, currency, distribution of their data and the terms and conditions of access and use. |
| Data type | Specification of a value domain with operations allowed on values in this domain  Refer to AS/NZS ISO 19103 |
| Dataset | Identifiable collection of data. Maybe as small as a single feature or feature attribute contained within a larger dataset. A hardcopy map maybe considered a dataset.  Refer to AS/NZS ISO 19115 |
| Dataset series | Collection of datasets sharing the same product specification, also known as a product. |
| Domain | A well-defined set both necessary and sufficient, as everything that satisfies the definition in the set and everything that does not satisfy the definition is necessarily outside the set.  Refer to ISO/TS 19103 |
| the Department | Department of Environment, Land, Water and Planning (DELWP). |
| Entity | A unit of data that can be classified and have stated relationship with other entities. |
| Feature | An abstraction of real-world phenomena. A feature may occur as a type or an instance. Feature type or instance shall be used when only one is meant.  The feature structure of the feature based data model can be summarised as:  feature instance = [spatial object + attribute object] |
| Galileo | European Union satellite constellation |
| GeoRSS | A method of describing and pinpointing the physical locations of Internet content. |
| GLONASS | Russia’s satellite constellation |
| Land Not Under Act (NUA) | General Law title system introduced prior to the current Torrens Titling system under the Transfer of Land Act |
| Metadata | Metadata is ‘data about data’ and provides a synopsis about the data lineage, accuracy and details about access permissions.  Refer to ISO 19115 Geographic information ― Metadata |
| the *Naming rules* | Statutory requirements for the naming of roads, features and localities in Victoria allowed under the Geographic Place Names Act 1998 |
| Open data | Data that can be freely used, reused and redistributed by anyone |
| Parent metadata record | Parent metadata records act as a cover note for a product that contains a dataset series for search, discovery and delivery purposes. |
| Persistent Feature Identifier (PFI) | The unique code provide at creation of the feature which remains until the feature is retired. |
| Plug and play | Data and services that are intended to work perfectly when first used or connected, without reconfiguration or adjustment by the user |
| Product | Dataset or dataset series that conforms to a data product specification. |
| Quality | Totality of characteristics of a product that bear on its ability to satisfy stated and implied needs. Refer to:  ISO 19113 Geographic information ― Quality principles  ISO 19114 Geographic information ― Quality evaluation procedures |
| the State | Victoria. |
| Unique Feature identifier (UFI) | Each feature is uniquely identified and renewed with each change. |
| the *Vicmap Maintenance Contract* | The contract to create the weekly edit model of Vicmap for both the land administration and topographic themes. |

Table 1: General terms and definitions.

## Intelligent Transport

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| **Term** | **Definition** |
| access point | Where travellers can enter or exit a *transfer node.*  An access point may not be a *stop point*. An access point may for example be the entrance to a railway station or the connection between a parking area and a railway station. |
| deviation | Divergence from a plan or the normal situation with respect to the time schedule or the accomplishment of the transport or deviations with respect to the *services* or facilities that are provided. |
| facility | Physical installation or physical area that may be accessed and used at arrivals to and at departures from a *transfer node,* and at transfer nodes. |
| journey | Movement of a person who is travelling between two *locations*  May consist of one or more *journey segments*. |
| journey segment | Part of a *journey* defined by a start and a stop *location.*  A journey segment may be carried out by means of a *trip* or a subset of a trip between locations that may be *transfer nodes*. A journey segment may also be road use (driving, walking and cycling). |
| location | Identifiable geographic place. Represented by one or more data types that describe a point position, a curve or an area in the real world. A location may be referenced by coordinates from a coordinate reference system or an address from an address system |
| location-based service (LBS) | Whose return or other property is dependent on the *location* of the client requesting the service or of some other thing, object or person |
| transfer node | *location* that facilitates *transfers* between *transport modes*, *transport networks* and/or *transport means*.  A transfer node may contain other transfer nodes and may be related to one or more transport modes and transport networks. It may also contain *stop points* and facilities for the users of the transfer node. A transfer node may host *services* that are provided to the users of the transfer node, e.g. information services, ticket sales, etc.  A transfer node may be a part of a hierarchy of transfer nodes. Thus, a transfer node may be related to many transport modes and transport networks. However, only transfer nodes that are related to just one transport network will have stop points.  The stop points related to different transfer nodes, which may serve different transport modes and networks, may, in real life, have the same physical locations. A tram and a bus may for example share the same platform, but conceptually they may belong to different transfer nodes |
| stop point | To enable the traveller to board or alight from the transport means |
| transfer | Traveller’s activity to switch between *transport modes*, *transport networks* or *transport means.* |
| transfer link | The link that connects *transfer nodes* or *stop points* within a transfer node. It enables travellers to move between the different transfer nodes and stop points  within a transfer node. |
| transfer node | *Location* that facilitates *transfers* between *transport modes transport networks. and/or transport means.* |

Table 2: Intelligent Transport terms and definitions.

# Acronyms

For Vicmap products the following acronyms may apply.

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| **Acronym** | **Definition** |
| AHD | Australian Height Datum |
| ANZLIC | Australia and New Zealand Land Information Council |
| API | Application Programming Interface |
| ASDD | Australian Spatial Data Directory (data.gov.au) |
| AWS | Amazon Web Services |
| CIP | Coordinated Imagery Program |
| CMA | Catchment Management Authority |
| CORS | Continuously Operating Reference Station |
| DaaS | Data as a Service |
| DALA | DELWP Data Access License Agreement |
| DCDB | Digital Cadastral Database |
| DCM | Digital Cadastral Modernisation |
| DELWP | Department of Environment, Land, Water and Planning |
| DEM | Digital Elevation Model |
| DSM | Digital Surface Model |
| DSP | Data Service Provider |
| DSV | Data Search Victoria |
| EMSINA | Emergency Management Spatial Information Network Australia |
| ESO | Emergency Service Organisations |
| ESRI | Environmental Systems Research Institute |
| ESTA | Emergency Services Telecommunications Authority |
| ETL | Extract, Transform, Load |
| FIB | Forest Industry Brigade |
| FME | Feature Manipulation Engine |
| FSDF | Foundation Spatial Data Framework |
| FTP | File Transfer Protocol |
| GDA | Geocentric Datum of Australia |
| GIS | Geographic Information System |
| GNR | Geographic Names Register |
| GNSS | Global Navigation Satellite Systems |
| GPS | Global Positioning System (American satellite constellation) |
| ICSM | Intergovernmental Committee on Surveying and Mapping |
| IRNSS | Indian Regional Navigation Satellite System |
| IUF | Incremental Update File |
| LAT | Land Administration Themes |
| LGA | Local Government Area |
| LiDAR | Light Detection and Ranging |
| LUV | Land Use Victoria |
| MoU | Memorandum of Understanding |
| NAMF | National Address Management Framework |
| NMA | National Mapping Council of Australia |
| NUA | Land Not Under Act |
| OGC | Open Geospatial Consortium |
| PFI | Persistent Feature Identifier |
| PIQA | Property Information Quality Audit |
| P&R | Property and Rates |
| QZSS | Quasi-Zenith Satellite System |
| RDBMS | Relational Data Base Management System |
| REST | Representational state transfer |
| RMSE | Root-Mean-Square Error |
| SDG | Sustainable Development Goals (<https://sdgs.un.org/goals>) |
| SPEAR | Streamline and Planning through Electronic Applications and Referrals |
| SPI | Standard Parcel Identifier |
| SPOT | Satellite Pour l’Observation de la Terre (French) |
| UFI | Unique Feature Identifier |
| UN-GGIM | United Nations Committee of Experts of Global Geospatial Information Management |
| UML | Un |
| VES | Vicmap Editing Service |
| VGDD | Victorian Government Data Directory (data.vic.gov.au) |
| VOTS | Victorian Online Title System |
| VSS | Vicmap Spatial Services Branch within Land Use Victoria |
| WCS | Web Coverage Service |
| WFS | Web Feature Service |
| WMS | Web Mapping Service |
| WMTS | Web Map Tile Service |

Table 3: Acroynms.

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