Technical Report

ISO 19131:2024 compliant

Data asset specification

Vicmap Address

Version 7.0

Contents

[About the Technical Report 2](#_Toc196230282)

[Vicmap ® 4](#_Toc196230283)

[Identification and Purpose of the Data Asset 5](#_Toc196230284)

[Name 5](#_Toc196230285)

[Title 5](#_Toc196230286)

[Alternative title 5](#_Toc196230287)

[Abstract 5](#_Toc196230288)

[Purpose 5](#_Toc196230289)

[Use case 6](#_Toc196230290)

[Further details about the identification and purpose of the data asset: 7](#_Toc196230291)

[Disclaimer 7](#_Toc196230292)

[Data Content and Structure 8](#_Toc196230293)

[Data content 8](#_Toc196230294)

[Data structure 9](#_Toc196230295)

[Data models 9](#_Toc196230296)

[Data dictionary 9](#_Toc196230297)

[Reference tables 9](#_Toc196230298)

[Reference Systems 10](#_Toc196230299)

[Data Quality 10](#_Toc196230300)

[Data Capture and Production 12](#_Toc196230301)

[Maintenance and Improvements 14](#_Toc196230302)

[Data Delivery 14](#_Toc196230303)

[Metadata 16](#_Toc196230304)

# About the Technical Report

|  |  |
| --- | --- |
| Element | Comment |
| Title | Data Asset Specification – Vicmap Address |
| Language | English |
| Contact | Department of Transport and Planning  GPO Box 2392, Melbourne VIC 3001, Australia  [vicmap@transport.vic.gov.au](mailto:vicmap@transport.vic.gov.au) |
| Record ID | [VSS - Vicmap data products - Vicmap Address - Group by Stream & Category](https://vicroads.sharepoint.com/sites/ecm_398/Vicmap_Adress/Forms/Group%20by%20Stream%20%20Category.aspx) |
| Web location | <https://www.land.vic.gov.au/maps-and-spatial/spatial-data/vicmap-catalogue/vicmap-address> |
| Maintenance | The data asset specification is updated in accordance with changes to the data asset and reviewed periodically. Collaboration, and review process in accordance with the Vicmap Change Management Framework. |
| Handling restrictions | Data Asset Specification – Vicmap Address OFFICIAL  Vicmap Address data – OFFICIAL  Vicmap Address metadata - OFFICIAL |
| Terms and definitions | Refer to the Data Dictionary – Vicmap |
| Abbreviations | Refer to the Data Dictionary – Vicmap |
| Overview of the data asset specification | **Change History**   |  |  |  | | --- | --- | --- | | Version | Date | Note | | 3.0 | April 2011 | Implementing Vicmap Change Notice # 143. Ie. Aligning product documentation (Product Description, ADDRESS\_BLG\_UNIT\_TYPE’ reference table, and ‘ADDRESS\_FLOOR\_TYPE’ reference table) to the current product.  Other minor corrections made.  Updated Appendix A1 with current version of reference table ‘ROAD\_TYPE (added DIVIDE/DIV and YARD/YARD). | | 4.0 | July 2013 | Updated MoG changes. | | 5.0 | May 2016 | Updated content & template.  Added CHAL/CHALET to address\_blg\_unit\_type in Reference Table 1.  Updated references. | | 6.0 | January 2017 | Incorporated LOCATION\_DESCRIPTOR field length change  Updated ANZLIC ID for Address2  Updated Data Model  New DELWP template | | 6.1 | December 2018 | Content review. Minor edits made. | | 6.2 | January 2020 | Included complex site to the data model and reference tables Vicmap Address product description | | 6.3 | August 2022 | Updated PIQA results from 2015/16 to 2021/22 | | 7.0 | April 2025 | New Department template & updated PIQA results |   **Conformance**  This data asset specification conforms to:   * [Department of Premier and Cabinet (DPC), Data Quality Statement](https://www.vic.gov.au/sites/default/files/2019-08/IM-TEMPLATE-02-Data-Quality-Statement-template.pdf) * [DPC, IM-GUIDE-09 Data Quality Guideline](https://www.vic.gov.au/sites/default/files/2019-07/IM-GUIDE-09-Data-Quality-Guideline.pdf) * [ISO 19157-1:2023 Geographic Information - Data Quality](https://www.iso.org/standard/78900.html) * [AS/NZS ISO 1931:2024 Geographic Information - Data Product Specifications](https://www.intertekinform.com/en-gb/standards/as-nzs-iso-19131-2024-130128_saig_as_as_3367831/?srsltid=AfmBOopTg0bAjV8FFwqpyJxlfKwY-UvW6vn3pCgo4lZuKu0FFXb63E28) |

Table 1

# Vicmap ®

Vicmap is Victoria’s state-wide portfolio of authoritative spatial data products developed and governed by the Department of Transport and Planning (DTP).

Our vision:



Figure 1

Vicmap is a registered trademark of the Victorian Government and has been synonymous with authoritative state-wide mapping since 1975.

Products are comprised of individual datasets that provide the foundation to Victoria’s primary mapping and spatial information systems.

The Vicmap data portfolio includes:

|  |  |
| --- | --- |
| Vicmap Address  Vicmap Admin  Vicmap Buildings  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  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.
* Web mapping, geocoding, tile and feature services.  For example, Vicmap Basemaps and Vicmap as a Service.

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)

# Identification and Purpose of the Data Asset

## Name

Data Asset Specification - Vicmap Address

## Title

Vicmap Address

### Alternative title

VMADD

VM Address

Victoria’s Address File

State Address File

## Abstract

Vicmap Address is Victoria's authoritative geocoded database of address points. The product includes ‘official’ locational property addresses and ‘unofficial’ addresses. Unofficial addresses represent 'real life' and complex property addresses created and used by the community, but not recognised by an authority like a Local Government Authority (i.e retirement villages, assisted care facilities, industrial, and public housing estates).

Vicmap Address is a point feature dataset showing address points with the following key attributes:

• Street number and street name

• Locality

• Postcode and State

• Cross reference maintained with Local Government authority property and rates database

• Each address is relationally linked to a feature in Vicmap Property, and

• Census District Attribute from ABS.

Vicmap Address excludes non-property related, and electronic address details such as email, post office (PO) boxes, roadside delivery points (RSD's), roadside mailboxes (RMB's) and the like.

Address information underpins all levels of government administration. Furthermore, complex addressing is essential for emergency management and law enforcement to effectively analyse and respond to a situation. Vicmap Address includes spatial coordinates allowing for pinpoint location confidence.

This product should also be used in conjunction with Vicmap Reference Tables.

Vicmap Address is updated weekly through the Vicmap maintenance lifecycle & custodianship program. The data is largely sourced from Local Government Authorities.

## Purpose

Vicmap Address enables seamless data integration across sectors via exactitude accurate locational addresses.

Vicmap Address vision is:

Victoria’s trusted address data for smart, autonomous systems & predictive public services

Figure 2

Vicmap Address is based on [The Global Fundamental Geospatial Data Theme](https://ggim.un.org/documents/Fundamental%20Data%20Publication.pdf)[[1]](#footnote-2) Addresses. Primarily used to Address land parcels, or part of a building, or some other construction, together with coordinates is used to evaluate the [Sustainable Development Goals](https://www.earthwatch.org.au/global-impact?gclid=EAIaIQobChMIvN6Z4puw9AIVx5NmAh14NwuUEAAYASAAEgI96vD_BwE) (SDG).

Vicmap Address is strongly relevant for the SDGs: 4,6,7,9 and 11.

It is a role of government to protect the public interest, deliver public services and ensure public trust and legitimacy. Vicmap in trusteeship of the Crown do so by maintaining the State trusted address database. Vicmap Address is linked to the national address framework and national security, such as intelligence, defence, infrastructure, public safety/welfare, and emergency response systems.

### Use case

Vicmap Address can be used to map the location of addressed assets or to verify the content of business address data.

|  |  |
| --- | --- |
| Use, Acts, regulations, and codes | Comment |
| Geographic Place Names Act 1998 | [VICNAMES](https://www.land.vic.gov.au/place-naming/services-and-resources/vicnames-register) uses Vicmap Address and other Vicmap data within the platforms basemap. Geographic Names Register consumes & informs Vicmap to process naming proposals updating Vicmap (including, administrative boundaries and names, hydrology, elevation, address, road, features of interest, etc.) |
| Emergency Management Act 2013 State Emergency management Plan (SEMP) | [DTP’s role statement](https://www.emv.vic.gov.au/responsibilities/semp/roles-and-responsibilities/role-statements/delwp) “Support to emergency response agencies by providing digital and spatial information and services, and topographical mapping, both hardcopy and electronic”. This critically aligns with operational management & intelligence and information sharing. |
| Local Government Act | Assist with the administration and management of LGA roles and responsibilities (i.e. Property and rates requires addresses to match) |
| Crown Land Management Act | Assist with the administration and management of DTP’s roles and responsibilities over Crown Land. Any lease agreement will include property address. |
| Geoscape  Geoscience Australia | G-NAF (Geocoded National Address File) relies on State Mapping Agencies such as Vicmap and other authoritative sources to formulate the national trusted physical address index for Australia. |
| Transaction of land Act | Supports the transaction of land as an essential key identifier for defining or describing a properties location the interoperability with cross-agency databases.  Section 74 of the Act allows for the registration of mortgages, which include agreements securing loan repayments on a property. These mortgages are linked to the property's registered title and address. |
| Valuation of Land Act | The Australian Valuation Property Classification Code (AVPCC) is a classification system that ascribes a code to land, based on its existing use. The AVPCC forms part of every valuation in accordance with the Valuation of Land Act 1960 (Act). The national implementation of such codes is seen as assisting in the identification and comparison of land valued for rating, taxing and levy purposes throughout Australia. Vicmap Address, linked to property and the valuation assessment number aids the visualisation of valuation data in accordance with an AVPCC. |
| Address validation | Systems that verify your address utilise Vicmap Address directly or indirectly for Victoria.  Systems that display valid address entries to select utilise Vicmap Address directly or indirectly for Victoria.  For example, the connection of utility services requires a valid address from Vicmap Address. |

Table 2

### Further details about the identification and purpose of the data asset:

|  |  |
| --- | --- |
| Element | Comment |
| Topic category | LOCATION |
| Keywords | Street number, street name, street type (e.g., street, avenue, drive), locality, state |
| Spatial representation | Vector |
| Spatial resolution | Not applicable |
| Supplemental information | The information contained in this document (the specification) is different from that contained in metadata. Metadata describes how the data is and the specification describes how it should be. |
| Owner | Department of Transport & Planning |
| Legislation and authority | The [Public Records Act 1973 (VIC)](https://www.legislation.vic.gov.au/in-force/acts/public-records-act-1973/043) requires the Victorian State Government to create, maintain and secure full and accurate records including an address database.  [DPC, Information Management Framework -Standard 04 - Address Data](https://www.vic.gov.au/sites/default/files/2020-08/IM-STD-04-Address-Data-Standard.pdf) states “Departments must comply with the requirements set out in this standard” denoting Vicmap Address or G-NAF (which Vicmap contributes to) for physical or street address as authoritative data.  The [Victorian Digital Asset Strategy](https://www.vic.gov.au/victorian-digital-asset-strategy) enforces Vicmap Address as the authoritative address database for the State.  Vicmap is a key stakeholder supporting the Intergovernmental Agreement on Data Sharing between Commonwealth, State and Territories. Vicmap embraces the ‘share-one-use-often’ principal under the National Data Sharing Work Program utilising the third ‘Data Asset Approach’ defined by the Department of Finance. |
| Restrictions | PUBLIC Disclaimer The State of Victoria:   1. does not give any representation or warranty as to 2. the accuracy or completeness of State of Victoria data assets (including spatial data and metadata), products or data specifications; or 3. the fitness of such data or products or of State of Victoria (including APIs and web services) for any particular purpose; 4. disclaims all responsibility and liability whatsoever for any errors, faults, defects or omissions in such data or products and services.   Any person using or relying upon such data assets and services must make an independent assessment of them and their fitness for particular purposes and requirements. |
| Extent | Vicmap Address is state-wide. |

Table 3

# Data Content and Structure

### Data content

The feature-based datasets that comprises Vicmap Address are listed in Table 4. Further details (e.g. Narrative description and coverage description) are provided in the linked metadata records for each dataset.

|  |  |  |  |
| --- | --- | --- | --- |
| UUID | Dataset name | Description | Feature type |
| [b9e9146d-8378-5c37-b6cd-63e3a8d05d02](https://datashare.maps.vic.gov.au/search?q=uuid%3Db9e9146d-8378-5c37-b6cd-63e3a8d05d02) | VICMAP\_ADDRESS | *\*Parent metadata record* | N/A |
| [8f3e3caa-e4bd-5e43-afc4-59b71c1f27f2](https://datashare.maps.vic.gov.au/search?q=uuid%3D8f3e3caa-e4bd-5e43-afc4-59b71c1f27f2) | ADDRESS | Point locational property addresses | Point |
| [c0bc9996-b261-5c0c-b471-ab1fb5ebc15a](https://datashare.maps.vic.gov.au/search?q=uuid%3Dc0bc9996-b261-5c0c-b471-ab1fb5ebc15a) | VICMAP\_ADDRESS2 | *\*Parent metadata record for ADDRESS variant* | N/A |
| [4ff2aee8-ff0c-55db-b677-efc97b40a50d](https://datashare.maps.vic.gov.au/search?q=uuid%3D4ff2aee8-ff0c-55db-b677-efc97b40a50d) | ADDRESS\_MAIN | Variant of ADDRESS. Vertically split due to file size. This contains address points with main attributes | Point |
| [8323c048-5474-5313-b381-d771b807765c](https://datashare.maps.vic.gov.au/search?q=uuid%3D8323c048-5474-5313-b381-d771b807765c) | ADDRESS\_SUP | Variant of ADDRESS. Vertically split due to file size. This contains address points with supplementary attributes | Point |

Table 4

*\*Parent metadata records for Vicmap Address. Parent metadata records act as a cover note for a product that contains a dataset series for search, discovery & delivery purposes. Refer to the Vicmap Address data model.*

The Vicmap Address dataset ADDRESS was split vertically to overcome the 2 Gigabyte database limit of MapInfo and Shapefile formats (both are obsolete formats). This formed ADDRESS\_MAIN and ADDRESS\_SUP, together they equate to ADDRESS. Therefore, it is recommended as best practice to use ADDRESS in favour of the split variant.

### Data structure

The structure includes:

Topologically structured (vertical topology) with other Vicmap data assets.

Conforms to national standards applicable to addressing:

* [AS/NZS 4819:2011 Geographic information—Rural and urban addressing](https://icsm.gov.au/what-we-do/addressing/standards-rural-and-urban-addressing-as4819)
* AS4590:2006 Interchange of Client Information.

Additional information about features contained in attribute tables:

Addresses must belong to one of two classes: (S)tandard and (M)iscellaneous and are attributed accordingly using the (address\_class) column.

Standard addresses will satisfy users requiring fully attributed address data. Standard property addresses are those addresses normally associated with an address product. The basic address attributes (house\_number\_1), (street\_name), (street\_type) and (locality) of standard addresses must be populated. An exception to this rule, is the addressing of Bathing Boxes in Mornignton Peninsula and Bayside. These addresses have the blg\_unit\_id\_1 populated instead of the house\_number\_1 populated, but are still identified as standard addresses. Standard addresses include all full addresses relating to both 'proposed' and 'approved' properties.

Miscellaneous addresses are those that do not have the full component of the standard addressing (i.e. missing house number 1).

Rules and/or characteristics that apply:

A Persistent Feature Identifier (PFI) is generated once for each feature at the point of creation and remains constant until a feature is retired. A PFI is unique and cannot be reused within a particular table

The Unique Feature Identifier (UFI) is generated for each feature at the point of creation and changes with each modification or version. A UFI is unique across the entire dataset. This allows users to track the changes made to a feature over time.

### Data models

Refer to [Vicmap Address](https://www.land.vic.gov.au/maps-and-spatial/spatial-data/vicmap-catalogue/vicmap-address)

### Data dictionary

Vicmap consolidates all attribute metadata for the portfolio in a common Data Dictionary defining data elements found in one or more Vicmap products.

Refer to the Data Dictionary – Vicmap.

### Reference tables

Refer to the following Vicmap Address tables in the Data Asset Specification - Vicmap Reference Tables.

* Address\_access\_type
* address\_blg\_unit\_type
* address\_class
* address\_complex\_site
* address\_distance\_relate\_flag
* address\_feature\_quality\_id
* address\_floor\_type
* address\_geocode\_feature
* address\_hotel\_style\_flag
* address\_is\_primary
* address\_location\_descriptor
* address\_outside\_property
* address\_source
* lga (vmadmin)
* road\_suffix (vmtrans)
* road\_type (vmtrans)

# Reference Systems

|  |  |
| --- | --- |
| Element | Description |
| Horizontal datum | Australia’s official native datum, the Geocentric Datum of Australia (GDA2020) |
| Vertical datum | The Australian Height Datum (AHD) |
| Projection | The native projection held in geographic coordinates (latitude and longitude), computed in terms of GDA2020 at the 01 January 2020 epoch |
| Temporal | The Gregorian calendar |

Table 5

Data Users may obtain data in a variety of datums and projections, refer to [Data Delivery](#_Data_Delivery) section of this document.

# Data Quality

The quality levels applicable in accordance with [ISO 19157-1:2023 Geographic Information - Data Quality](https://www.iso.org/standard/78900.html) and aligns to [DPC, IM-GUIDE-09 Data Quality Guideline](https://www.vic.gov.au/sites/default/files/2019-07/IM-GUIDE-09-Data-Quality-Guideline.pdf):

|  |  |
| --- | --- |
| Element | Conformance level requirement |
| Completeness | Completeness of ratable properties:   |  |  |  |  | | --- | --- | --- | --- | | **LGA Name** | **2023/24%** | **LGA Name** | **2023/24%** | | Alpine | 99.39 | Mansfield | 97.34 | | Ararat | 96.00 | Maribyrnong | 99.70 | | Ballarat | 96.41 | Maroondah | 99.85 | | Banyule | 98.67 | Melbourne | 99.46 | | Bass Coast | 98.12 | Melton | 99.79 | | Baw Baw | 98.34 | Mildura | 99.84 \* | | Bayside | 98.73 | Mitchell | 99.22 | | Benalla | 98.31 | Moira | 99.44 | | Boroondara | 98.14 | Monash | 99.79 | | Brimbank | 96.05 | Moonee Valley | 99.66 | | Buloke | 98.54 | Moorabool | 99.84 | | Campaspe | 98.73 | Merri-bek | 99.56 | | Cardinia | 99.58 | Mornington Peninsula | 98.16 | | Casey | 99.26 | Mount Alexander | 97.92 | | Central Goldfields | 96.85 | Moyne | 96.80 | | Colac Otway | 97.78 | Murrindindi | 98.53 | | Corangamite | 99.70 | Nillumbik | 99.67 | | Darebin | 99.38 | Northern Grampians | 99.88 | | East Gippsland | 99.31 | Port Phillip | 99.76 | | Frankston | 99.82 | Pyrenees | 98.85 | | Gannawarra | 98.71 | Queenscliffe | 97.45 | | Glen Eira | 99.69 | South Gippsland | 97.66 | | Glenelg | 98.83 | Southern Grampians | 98.76 | | Golden Plains | 99.37 | Stonnington | 99.00 | | Greater Bendigo | 99.57 | Strathbogie | 99.95 | | Greater Dandenong | 99.54 | Surf Coast | 99.58 | | Greater Geelong | 98.81 | Swan Hill | 99.36 | | Greater Shepparton | 98.98 | Towong | 99.59 | | Hepburn | 99.00 | Wangaratta | 99.21 | | Hindmarsh | 99.91 | Warrnambool | 99.12 | | Hobsons Bay | 98.74 | Wellington | 98.42 | | Horsham | 99.86 | West Wimmera | 99.32 | | Hume | 99.74 | Whitehorse | 98.59 | | Indigo | 97.23 | Whittlesea | 98.98 | | Kingston | 98.61 | Wodonga | 99.41 | | Knox | 99.25 | Wyndham | 99.73 | | LaTrobe | 99.28 | Yarra | 98.20 | | Loddon | 97.22 \* | Yarra Ranges | 99.62 | | Macedon Ranges | 99.02 | Yarriambiack | 95.65 | | Manningham | 99.76 |  |  | |  |  | **State-wide match rate %** | **99.04%** | |  |  | **Target %** | **98%** | | **\*** These LGAs were not audited in financial year 2023-24. The match rate quoted is the previous year’s match rate. | | | | |
| Accuracy | Relative positioning in urban areas to [Vicmap Property](https://www.land.vic.gov.au/maps-and-spatial/spatial-data/vicmap-catalogue/vicmap-property)  Positional accuracy for rural properties is sub-meter accuracy to the entrance of the property, to support emergency response. |
| Logical Consistency | Customised menus for data editing which provide on the fly logical consistency attribute checking as data is edited.  Conforms to [AS/NZS 4819:2011 Rural and urban addressing standard](https://store.standards.org.au/product/as-nzs-4819-2011), prepared by the Street Address Working Group of ICSM for national consistency supporting cross border data sharing.  Any deficiency within Vicmap Property data has been inherited by the overlying address point. |
| Thematic | Sub-element: Domain consistency  Measure: Value domain conformance rate  Threshold values:  1% - where the Data Source has identified. (i.e. source = ‘LGO’) and the address has been verified within the previous 12 months (i.e. source\_verified = date within 12 months)  5% - where the address has not been verified in the previous 12 months (i.e. source\_verified = date older than 12 months)  10% - where the Data Source has not been identified (historical data) (i.e. source = ‘UNK’)  The minimum address attributes required for a property address to be included in Vicmap Address are road name and locality. However, the standard address details include the unit/house number(s), road name (including any type or suffix) and locality (town/suburb/rural district). |
| Temporal accuracy and Currency | Data is updated weekly in Vicmap and audited annually. |
| Meta quality | Topological enforcement with Vicmap Property is maintained, whereby every address is related to a Vicmap Property feature, joined through a (property\_pfi) link.  Vicmap Address must match locality and postcode from Vicmap Admin.  Vicmap Address must match road names from Vicmap Transport. |
| Collection | Sourced from authoritative Data Sources. |

Table 6

# Data Capture and Production

The following procedures are undertaken as normal update/maintenance routines, to ensure conformity of the data to specification:

|  |  |
| --- | --- |
| Element | Conformance level requirement |
| Process | Vicmap amalgamates data and validates changes with Data Sources that have authority to define them (i.e. ratable property addresses with Local Government Authorities). This equates to data trustworthiness.  Urban addresses are located with an 8m offset from the relevant property road frontage based on scale of capture (between 1:500 and 1:2,500) of the Vicmap Property data.  Rural property entrance locations for distance-based addressing (i.e. Rural Road Numbers) captured using GNSS or aerial imagery Automated data quality assurance processes used to validate topological integrity, completeness and logical consistency.  Automated data loading routines, reflecting business rules for data population, to ensure data accuracy.  Review of data upon loading including aspatial attributes, spatial extents and successful data load.  Annual Property Information Quality Audit (PIQA) assesses Vicmap Property & Vicmap Address against Local Government Property & Rates data.  Approximately 5% of all maintenance advice notices processed are separately audited by DTP to confirm accuracy, completeness and correctness in the capture process. |
| Inclusion criteria | Authoritative data sources are only included in Vicmap Address.  Validation of accepted types according to approved reference tables.  Validation of entity PFI/UFI tags for uniqueness.  Changes made are approved by the Vicmap Change Management Committee. |
| Data Source | Local Government Authorities – which comprises more than 99% of all addresses.  Alpine Resort Victoria  Complex Site Management   * Universities (i.e. Federation University) * Retirement villages and aged care facilities * Caravan Park Committees of Management * Shopping centers (i.e. Chadstone)   Deficiencies within the data asset may have been inherited by the overlying data to ensure vertical alignment with other data assets. |

Table 7

Custodianship provides the trustworthiness and authoritative data elements that are central to Vicmap’s value proposition. It enables the efficient and effective harmonisation of many disparate data assets, in partnership with Data Sources, into a single seamless state-wide product needed. Data Custodianship serves as the mechanism to fulfill Vicmap’s function and purpose, as disparate data collections are inadequate.

Quality Assurance and validation routines are constantly being developed to better data quality. Note, historical and ongoing non-compliance with current AS/NZS 4819:2011 by local governments, make this a work in progress.

# Maintenance and Improvements

*Maintenance* - The incorporation of new information to an existing data asset. No changes are made to the data or object model, therefore does not require change management processes.

*Improvements* – Changing existing data, example the moving of a feature or adding of attributes. This also includes significant changes to a dataset over an area. Change management processes are applied.

|  |  |
| --- | --- |
| Element | Specification |
| Maintenance Process | Authoritative Data Sources provide data updates to Vicmap.  Approximately 5% of all maintenance activities are audited by DTP for data assurance and quality purposes. |
| Improvement Process | Routinely notifications regarding anomalies are received via the Vicmap Editing Service (VES). Reported errors or omissions are verified with the authoritative source before being incorporated into Vicmap.  M1 validator aims to identify to LGAs early the identification of invalid addresses.  Projects are initiated to better data quality. |
| Maintenance Frequency | Updates are incorporated into Vicmap daily and made available weekly.  Noting, Vicmap data is not deleted, only retired and archived for legal purposes. Data is date stamped to reflect the last time the record was verified. |
| Improvement Frequency | After authoritative validation approved changes are incorporated in the weekly publication of Vicmap. |

Table 8

# Data Delivery

|  |  |  |
| --- | --- | --- |
| Element | Specification | |
| Delivery Method 1 | | |
| Medium | Spatial Feature | |
| Format | DWG, DXF, GDB, SHP, MID/MIF, MAPINFO TAB, MAPINFO EXTENDED TAB | |
| Language | English | |
| Service | DataShare | |
| End point | <https://datashare.maps.vic.gov.au/> | |
| License | Creative Commons Attribution 4.0 (CC-BY) ( [**License Text**](https://metashare.maps.vic.gov.au/geonetwork/srv/api/records/b9e9146d-8378-5c37-b6cd-63e3a8d05d02/formatters/sdm-html?root=html&output=html) ) | |
| Historical versions | Available upon request, email [vicmap@transport.vic.gov.au](mailto:vicmap@transport.vic.gov.au) | |
| Delivery Method 2 | | |
| Medium | Web service | |
| Format | REST API | |
| Language | English | |
| Character set | UTF8 | |
| Specification | ISO 19139 Geographic Information - Metadata - Implementation Specification | |
| Service | [Vicmap as a Service (VaaS)](https://www.land.vic.gov.au/maps-and-spatial/data-services/vicmap-as-a-service) | |
| End point | <https://services-ap1.arcgis.com/P744lA0wf4LlBZ84/arcgis/rest/services/Vicmap_Address/FeatureServer> | |
| License | Creative Commons Attribution 4.0 (CC-BY) ( [**License Text**](https://metashare.maps.vic.gov.au/geonetwork/srv/api/records/b9e9146d-8378-5c37-b6cd-63e3a8d05d02/formatters/sdm-html?root=html&output=html) ) | |
| Delivery Method 3 | | |
| Medium | Web service | |
| Format | Various i.e. jpeg, png | |
| Language | English | |
| Character set | UTF8 | |
| Specification | Web Mapping Service | |
| Service | Web Mapping Service – Vicmap (all layers), then search – Vicmap Address | |
| End point | <https://opendata.maps.vic.gov.au/geoserver/ows?service=WMS&request=getCapabilities&> | |
| Delivery Method 4 | | |
| Medium | Web service | |
| Format | Various i.e geojson, CSV | |
| Language | English | |
| Character set | UTF8 | |
| Specification | Web Feature Service | |
| Service | Web Feature Service – Vicmap (all layers), then search – Vicmap Address | |
| End point | <https://opendata.maps.vic.gov.au/geoserver/ows?service=WFS&request=getCapabilities&> | |
| Delivery Method 5 | | |
| Medium | | FTP service |
| Format | | Incremental Update File (IUF) Format - XML |
| Language | | English |
| Character set | | UTF8 |
| Specification | | File Transfer Protocol |
| Service | | FTP Client |
| End point | | Registered users only |
| License | | Creative Commons Attribution 4.0 (CC-BY) ( [**License Text**](https://metashare.maps.vic.gov.au/geonetwork/srv/api/records/b9e9146d-8378-5c37-b6cd-63e3a8d05d02/formatters/sdm-html?root=html&output=html) ) |

*Table 9*

# Metadata

The metadata, abstract, and preview of the data is discoverable via [DataShare](https://www.bing.com/ck/a?!&&p=b04f602acd388bda2896cc1ad5249f097b41f4f74abb9ac1756b9873929f572dJmltdHM9MTc0NDU4ODgwMA&ptn=3&ver=2&hsh=4&fclid=00fa8a71-5a24-6a48-01d6-98095bb46b26&psq=datashare+victoria&u=a1aHR0cHM6Ly9kYXRhc2hhcmUubWFwcy52aWMuZ292LmF1Lw&ntb=1) and maybe replicated to other data discovery services and applications by third parties. The Department is not liable for third party use of the data or metadata.

Format: XML

Metadata is compliant with:

* [AS/NZS ISO 19115.1:2015 Geographic Information - Metadata](https://www.icsm.gov.au/sites/default/files/5a-Good%20Practice%20document.pdf)
* [Victorian Government Data Directory Metadata Standards (IM-STD-09)](https://www.google.com.au/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjV2OOI9diMAxXZxDgGHahvKVcQFnoECBUQAQ&url=https%3A%2F%2Fwww.data.vic.gov.au%2Fsites%2Fdefault%2Ffiles%2F2020-08%2FIM-STD-09-Victorian-Government-Data-Directory-Metadata-Standard.docx&usg=AOvVaw15B_eIX2ggCIB_Gtq2xnie&opi=89978449)
* [Australian Government Locator Service (AGLS) metadata standard](https://www.naa.gov.au/information-management/standards/australian-government-recordkeeping-metadata-standard)

vicmap@transport.vic.gov.au



1. Developed by the United Nations Committee of Experts on Global Geospatial Information Management [↑](#footnote-ref-2)