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| Vicmap Product Development  |
| Change Notice #272 |



Vicmap Property

## What is happening

## DELWP is investing in the modernisation of its spatial data and infrastructure, providing an opportunity for significant efficiency gains in the Vicmap maintenance process. This investment includes the [Digital Cadastral Modernisation (DCM)](https://www.land.vic.gov.au/maps-and-spatial/projects-and-programs/digital-cadastre-modernisation/frequently-asked-questions) project which will bring the authoritative map of Victoria’s property boundaries into the digital age, ensuring that one of the state’s most important datasets is accurate, modern, and easily accessible.

In preparation for integrating this improved spatial data into the Vicmap Property product, several changes are being introduced to the four data models that contain Vicmap Property details:

* Vicmap Property (Standard) Version 5.0
* Vicmap Property Simplified 1 Version 4.0
* Vicmap Property Simplified 2 Version 5.0
* Vicmap Land Administration Themes (VLAT) Incremental Update Format (IUF) Version 2.0

Customers of these Vicmap Property data models will need to modify their loading scripts to take advantage of the new available data. Some attributes will be phased out over a 3-year period. Please note that VLAT IUF customers will not be required to make any script changes until February 2022, as the VLAT IUF data model upgrade is planned to coincide with the creation of the new seed.

The table on the following page provides a summary of these changes.

Due to the significance of these changes, please refer to the supporting documentation in **Appendix A** of this document and the accompanying proposed data models.

| ITEM | TABLE | ATTRIBUTE | CHANGE TYPE | AFFECTED DATA MODELS |
| --- | --- | --- | --- | --- |
| 1 | Global Parcel Tables Change* ANNOTATION
* CAD\_AREA\_BOUNDARY
* CENTROID
* PARCEL
* PARCEL\_VIEW
* PROPERTY
* PROPERTY\_VIEW
* ROAD\_CASEMENT\_POLYGON
 | TASK\_ID | New Attribute | 1. Vicmap Property Standard
2. Vicmap Property Simplified 1
 |
| 2 | * CAD\_POINT
 |  | New table | 1. Vicmap Property Standard
2. Vicmap Property Simplified 1
 |
| 3 | * CAD\_AREA\_BDY (Additions)
 | FROM\_PFITO\_PFIIMAGERYSURVEY\_DISPARITYHORIZ\_POS\_UNCERTAINTY | New Attributes | 1. Vicmap Property Standard
2. Vicmap Property Simplified 1
3. VLAT IUF
 |
| 4 | * CAD\_AREA\_BDY (Additions)
 | CLTENURE |  | 1. Vicmap Property Standard
2. Vicmap Property Simplified 1
 |
| 5 | * CAD\_AREA\_BDY (Nulling & Deletions)
 | FROM\_SURVEY\_XFROM\_SURVEY\_YFROM\_PRECISIONTO\_SURVEY\_XTO\_SURVEY\_YTO\_PRECISION | Null and then Retire Attributes | 1. Vicmap Property Standard
2. Vicmap Property Simplified 1
3. VLAT IUF
 |
| 6 | * PARCEL\_VIEW
* PARCEL\_APPROVED
* PARCEL\_PROPOSED
 | HORIZ\_POS\_UNCERTAINTY | New Attribute | 1. Vicmap Property Standard
2. Vicmap Property Simplified 2
3. VLAT IUF
 |
| 7 | * PARCEL\_MP
 | PARV\_HORIZ\_POS\_UNCERTAINTY | New Attribute | 1. Vicmap Property Simplified 1
 |
| 8 | * PARCEL
* PARCEL\_APPROVED
* PARCEL\_PROPOSED
 | PARCEL\_IDMULTIROADREG\_DATE | New Attributes | 1. Vicmap Property Standard
2. Vicmap Property Simplified 2
3. VLAT IUF
 |
| 9 | * PARCEL\_MP
 | PARCEL\_IDPARCEL\_MULTIPARCEL\_ROADPARCEL\_REG\_DATE | New Attributes | 1. Vicmap Property Simplified 1
 |
| 9 | * PARCEL
* PARCEL\_APPROVED
* PARCEL\_PROPOSED
 | DESC\_TYPE | Modified Domain | 1. Vicmap Property Standard
2. Vicmap Property Simplified 2
3. VLAT IUF
 |
|  | * PARCEL\_MP
 | PARCEL\_DESC\_TYPE | Modified Domain | 1. Vicmap Property Simplified 1
 |

Table 1: Planned changes to Vicmap Property

## Why this change is occurring

To enable the Vicmap Property Data models to incorporate DCM project data outputs.

## Who will it affect

This change will affect all users of the Vicmap Property product, specifically customers that download the data in the following formats:

* Vicmap Property (Standard)
* Vicmap Property Simplified 1
* Vicmap Property Simplified 2
* Vicmap Land Administration Themes (VLAT) IUF

## When the change will occur

The changes, excluding deletion of CAD\_AREA\_BDY attributes will be implemented for the various Vicmap Property Formats as follows:

* Vicmap Property (Standard) - **1/10/2021**
* Vicmap Property Simplified 1 - **1/10/2021**
* Vicmap Property Simplified 2 - **1/10/2021**
* Vicmap Land Administration Themes (VLAT) IUF - **27/2/2022**

CAD\_AREA\_BDY attributes will be deleted post 2024. Timing of this change is subject to DCM progress.

## How to provide feedback

To provide feedback, please contact vicmap@delwp.vic.gov.au by **Friday 6 August 2021**

For more information on Vicmap product change notices and updates, visit [Updates to Vicmap](https://www.land.vic.gov.au/maps-and-spatial/spatial-data/updates-to-vicmap/vicmap-change-notices).Updates to Vicmap.

If you would like to get in touch, or subscribe to regular change notices please send your contact details to vicmap@delwp.vic.gov.au

# Appendix A: Technical details

The following outlines the details of the changes proposed for Vicmap Property

## 1. Global Parcel Tables Attribute Changes

## The attribute TASK\_ID has been added to applicable Vicmap Property tables. This attribute links to an additional table; LAT\_TASK and provides information about the edit. This attribute is used for internal maintenance and the referenced table is not released to the public.

TASK\_ID number(10) will only be added to the Vicmap Property (Standard) and Vicmap Property (Simplified 1) data model tables:

|  |
| --- |
| **Vicmap Property (Standard) and Vicmap Property (Simplified 1)** |
| * ANNOTATION\_TEXT
* CAD\_AREA\_BDY
* CAD\_POINT
* CENTROID
* PARCEL
* PARCEL\_VIEW
* PROPERTY
* PROPERTY\_VIEW
* ROAD\_CASEMENT\_POLYGON
 |

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Format | Definition | Value   |
| TASK\_ID | number(10) | A link to the LAT\_TASK table which contains detailed information about the edit. This attribute supports internal maintenance processes and the referenced LAT\_TASK table is not published to the public. | ***3001*** |

## 2. CAD\_POINT Table (New)

## A points table has been re-introduced to the Vicmap Property data model to enable DCM data captured at point level to be recorded in Vicmap. This table will mirror the Vicmap Survey CAD\_POINT dataset structure where appropriate and possible.

CAD\_POINT may be accessed or downloaded as a single dataset. It is only included in the Vicmap Property (Standard) and Vicmap Property Simplified 1 products. This table is not published in either of the Vicmap Property Simplified 2 or VLAT IUF products.

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Format | Definition | Value   |
| PFI | varchar2(10) | Uniquely identifies each feature within a table. Persists through either attribute or spatial representation changes. i.e. Remains for the life of the object it identifies | 167456342 |
| UFI | number(10) | Unique Feature Identifier number that is retained until a feature attribute or position of data changes | 375004696 |
| POINT\_ID | number(14) | A unique persistent alternative feature Identifier number managed by DCM. It enables a point to be shared between different systems. | 9374649474764 |
| HORIZ\_POS\_UNCERTAINTY | decimal (5,2) | The level of confidence in the precision of the point expressed in metres.  | 0.13 |
| ADJUSTED | varchar2(1) | A flag to indicate that the point was used in the adjustment process to determine the cadastral alignments | Y or N |
| PFI\_CREATED | Date | The date the entity was created. | 26/02/2002 |
| UFI\_CREATED | Date | Date Unique Feature Identifier (UFI) was created | 19/04/2010 |
| UFI\_OLD | number(10) | The Unique Feature Identifier of the superseded feature. This attribute enables chaining of the feature edit history. | 26004696 |
| TASK\_ID | number(10) | A foreign key providing information about the edit. This attribute supports internal maintenance processes and the referenced LAT\_TASK table is not published to the public | 233 |

# 3. CAD\_AREA\_BDY Table Changes (additions)

Besides the addition of the TASK\_ID, there are several other proposed CAD\_AREA\_BDY table changes that reflect this table’s relationship with the re-introduced CAD\_POINT table and to capture boundary specific information provided by DCM

\*NOTE: CLTENURE will not be added to the IUF CAD\_AREA\_BDY dataset.

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Format | Definition | Value   |
| FROM\_PFI | varchar(10) | A foreign key to the CAD\_POINT table that identifies the start point of the CAD\_AREA\_BDY line | **45321356** |
| TO\_PFI | varchar(10) | A foreign key to the CAD\_POINT table that identifies the end point of the CAD\_AREA\_BDY line. | **83256139** |
| IMAGERY | varchar2(1) | A flag to indicate that the alignment has been defined by imagery | **Y or N** |
| SURVEY\_DISPARITY | varchar2(1) | A flag indicating a hiatus or overlap is associated with this alignment. (50mm & 250mm) | **Y** or **N** |
| HORIZ\_POS\_UNCERTAINTY | number(5,2) | The level of confidence in the precision of the alignment expressed in metres.  | 0.5 |
| CLTENURE\* | varchar2(1) | A flag indicating that the boundary alignment is associated with a Vicmap CLTenure boundary | **Y** or **N** |

# CAD\_AREA\_BDY Table Changes (nulling & deletions)

The six attributes listed below will not be removed from the Vicmap Property data models until the DCM data outputs have been fully integrated across the entire state. In the meantime, the values contained in these attributes will be nulled as the DCM data is progressively integrated into Vicmap Property.

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Comment |
| FROM\_SURVEY\_X | number (13.9) | Where this was populated, it represented the ‘X’ coordinates for the start node of the boundary, extracted from the Plan of Subdivision fieldnotes.This attribute is being removed because the coordinates relate to the survey creation time, and they are related to points not linework. |
| FROM\_SURVEY\_Y | number (13.9) | Where this was populated, it represented te ‘Y coordinates for the start node of the boundary, extracted from the Plan of Subdivision fieldnotes.This attribute is being removed because the coordinates relate to the survey creation time, and they are related to points not linework. |
| FROM\_PRECISION | number (4.1) | This attribute provides the difference between the position the mapbase has located the start node and the position that the survey coordinates stipulate it should be located. With the FROM\_SURVEY\_X and FROM\_SURVEY\_Y being removed this attribute is no longer relevant |
| TO\_SURVEY\_X | number (13.9) | Where this was populated, it represented the ‘X’ coordinates for the end node of the boundary, extracted from the Plan of Subdivision fieldnotes.This attribute is being removed because the coordinates relate to the captured time, and they are related to points not linework. |
| TO\_SURVEY\_Y | number (13.9) | Where this was populated, it represented te ‘Y coordinates for the end of the boundary, extracted from the Plan of Subdivision fieldnotes.This attribute is being removed because the coordinates relate to the captured time, and they are related to points not linework. |
| TO\_PRECISION | number (4.1) | This attribute provides the difference between the position the mapbase has located the end node and the position that the survey coordinates stipulate it should be located.With the TO\_SURVEY\_X and TO\_SURVEY\_Y being removed this attribute is no longer relevant |

These proposed CAD\_AREA\_BDY changes (additions and deletions will be implemented into the Vicmap Property (Standard), Vicmap Property Simplified 1 and VLAT IUF data models

# Parcel View Table Change

The only non-global proposed change within the PARCEL\_VIEW table is the introduction of the horizontal positioning uncertainty attribute to record the level of confidence in the spatial accuracy of the data.

##  HORIZ\_POS\_UNCERTAINTY

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Format | Definition | Value   |
| HORIZ\_POS\_UNCERTAINTY | number (5,2) | The level of confidence in the precision of the parcel polygon expressed in metres. The value captured in this attribute is equal to the CAD\_POINT with the least level of confidence that is associated with this parcel and any additional uncertainty introduced as part of Vicmap editing processes. | 10.02 |

This same attribute has been included into the Vicmap Property Simplified 2 PARCEL\_APPROVED and PARCEL\_PROPOSED tables

# Vicmap Simplified 1 - PARCEL\_MP Table Change

This change is the same change as presented in the PARCEL\_VIEW table but because this table is a product of joining spatial and aspatial information, the attribute name includes a reference to the primary source table of the data.

Therefore, the Vicmap Property Simplified 1 – PARCEL\_MP contains the attribute name of **PARV\_HORIZ\_POS\_UNCERTAINTY** to represent horizontal positional uncertainty measure.

# Parcel Table Changes

There have been four new attributes added to the parcel table of Vicmap Property (Standard) and VLAT IUF. These same four attributes have been introduced to the Parcel join tables in Vicmap Property Simplified 1 and Vicmap Property Simplified 2.

### Parcel Table proposed additions

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Format | Definition | Value   |
| PARCEL\_ID | varchar2(36) | A foreign key sourced from the SURVEY\_PARCEL table. This attribute supports linkage between the Vicmap Property parcel and Vicmap Survey parcel whose associated geometries may differ slightly. | 123e4567-e89b-12d3-a456-426614174288 |
| MULTI | varchar2(1) | A flag to indicate whether there is more than one parcel associated with the parcel view polygon. | Y or N |
| ROAD | varchar2(1) | A flag to indicate whether the parcel is within a road casement. A road parcel may be associated with a plan or subdivision or crown description.  | Y or N |
| REG\_DATE | date | The date that the plan was registered in the Victorian Online Title System (VOTS) | 17/03/2021 |

# DESC\_TYPE Domain modification

Currently there are four valid values that can be populated into the Parcel Table DESC\_TYPE attribute. They are:

* 12 - Multi Lot
* 13 - Road Parcel
* 14 - Crown Description
* 15 - Plan Description

The Multi lot and Road parcel are not mutually exclusive. Ie Multi lot parcels can be made up of parcels that contain crown and plan descriptions and any of those parcels could be a road parcel. Therefore, we have introduced the Multi and Road flags and will be removing DESC\_TYPE 12 & 13 from the valid value range for this attribute.

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Format | Proposed Change | Value   |
| DESC\_TYPE | varchar2(2) | Remove the Value 12 (multi-parcel) and the Value 13 (road) from the reference table. | Reference Table Values14 - Crown description15 - Plan description |

It should be noted that the DESC\_TYPE 12 and 13 values will remain in Vicmap Property and continue to be maintained until the IUF incorporates the proposed property model changes in February 2022.

|  |  |
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