

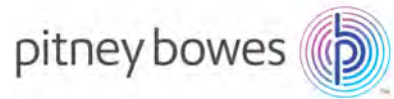
Postcodes & Administrative Boundaries Malaysia

Product Guide



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Chapter 1: Introduction

Pitney Bowes Software Inc. welcomes you to Postcodes & Administrative Boundaries

Welcome to the Postcodes & Administrative Boundaries Product Guide. This document will assist you with gaining maximum benefit from Postcodes & Administrative Boundaries by describing installation procedures and providing a detailed insight to the datasets and associated files that make up the product.

Feedback

Pitney Bowes strives to be responsive to the evolving and growing utility of this data product within numerous and wide-ranging types of organisations. We therefore encourage any feedback and suggestions (refer to [Appendix C: Data Support and Feedback](#)) that will assist us in developing the best possible dataset for your business requirements.

In this chapter:

- ◆ [About StreetPro®](#)6
- ◆ [StreetPro® Layer Tables](#)6
- ◆ [StreetPro® Reference Tables](#)7
- ◆ [StreetPro® Geocoding Tables](#).....8
- ◆ [Workspaces](#)8

About StreetPro®

The StreetPro suite of data products offers up-to-date premium street-level vector maps, with over 40 layers of information. They provide the real-world display and detailed quality needed to provide a flexible multi-purpose foundation for critical business use.

The StreetPro suite consists of two related products:

- **StreetPro** is the full featured version of the product suite including detailed streets information, accurate street topology for basic routing purposes, rich feature information and administrative boundaries.
- **Postcodes & Administrative Boundaries** is a reduced version of StreetPro including Postcodes, Suburbs and Administrative boundaries.

StreetPro® Layer Tables

Table	StreetPro®	Postcodes & Administrative Boundaries®
Address Areas	x	
Administrative Layers 0-5	x	x
Airports	x	
Business Locations	x	
Ferry Routes	x	
Freeway Interchanges	x	
Frontier Crossings	x	
Gazetteer Levels 1-6	x	
Gazetteer Full	x	x
Land Cover	x	
Land Use	x	
Natural Features	x	
Ocean	x	x
Oneways	x	
Parking	x	

Table	StreetPro [®]	Postcodes & Administrative Boundaries [®]
Postcode Boundary	x	x
Postcode Points	x	x
Public Locations	x	
Railways	x	
Recreation Places	x	
Stations	x	
Street 1-6	x	
Urban Areas	x	x
Water Features	x	
World	x	x

Note: x - Present

StreetPro[®] Reference Tables

Table	StreetPro [®]	Postcodes & Administrative Boundaries [®]
Additional Names	x	
Address details for point features	x	
Postcode Locality Index	x	x

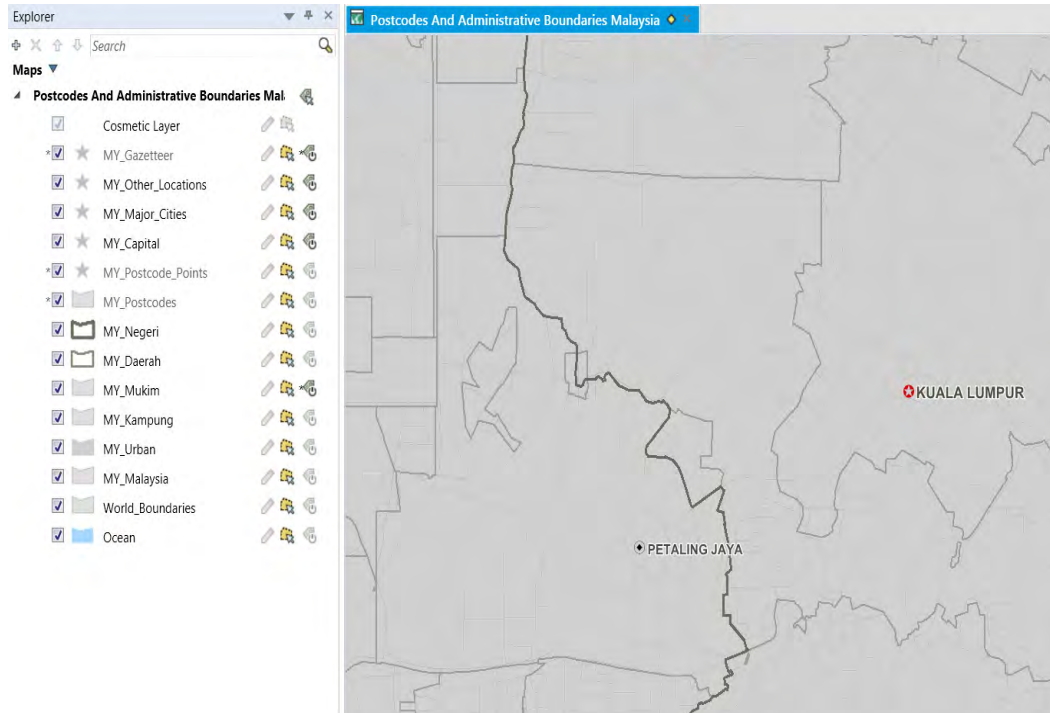
StreetPro® Geocoding Tables

Table	StreetPro®	Postcodes & Administrative Boundaries®
Address Ranges	x	
Street Names	x	
Street Intersections	x	

Workspaces

Postcodes & Administrative Boundaries is supplied with a MapInfo Professional Workspace which provides a common set of display settings for all countries.

Workspace Example



Chapter 2: Postcodes & Administrative Boundaries Installation

In this chapter:

- ◆ **Workspace File Names**10
- ◆ **Uninstalling Postcodes & Administrative Boundaries**10

Workspace File Names

Postcodes & Administrative Boundaries is supplied with a MapInfo Professional Workspace which provides a common set of display settings for all countries:

Type	Workspace File Name	Mapping Application
Mapinfo Professional Workspace	mala1.wor	MapInfo Professional

Note: For more information on workspaces, refer to [Chapter 4: Opening a Workspace](#).

Uninstalling Postcodes & Administrative Boundaries

Postcodes & Administrative Boundaries data and workspaces for a country can be uninstalled by opening **Add or Remove Programs** from the Windows **Control Panel**, and then selecting the particular version of **Postcodes & Administrative Boundaries Malaysia**, followed by **Remove**.

Confirming removal will delete all installed Postcodes & Administrative Boundaries files for the country from the system.

i **Warning: Any Postcodes & Administrative Boundaries tables or files that you have modified will not be removed during the uninstallation process.**

Chapter 3: Data Descriptions

This chapter describes the layers that make up the Postcodes & Administrative Boundaries Malaysia. It includes a description of the structure of each layer and the symbology (or styles) used to represent different object types.

In This Chapter

- ◆ [Spatial Referencing](#)12
- ◆ [Postcodes & Administrative Boundaries Layer Tables](#)12

Spatial Referencing

StreetPro and Postcodes & Administrative Boundaries use the spatial referencing system defined in the table below for all international workspaces.

Projection	Coordinate System	Coordinate units
Longitude/Latitude	Longitude/Latitude (WGS84)	Decimal Degrees

Postcodes & Administrative Boundaries Layer Tables

This section contains information about the display characteristics, micodes and the table structure of common feature layers in the Postcodes & Administrative Boundaries. The tables are listed in the alphabetical order of feature layer names. Within each layer, the features are listed in micode order.

Administrative Layers



Malaa0.* - Malaa4.*

Malaysian administrative boundary layers include:


- Negeri (or State) Boundaries: Areas administered at a federal level.
- Daerah (or District) Boundaries: States are divided into Daerah and administered by a District and Land Office.
- Mukim (or Sub-district) Boundaries: Districts are divided into Mukims.
- Kampung Boundaries: Polygons that represent urban localities within metropolitan areas. These are at a lower level than Mukim boundaries and commonly referred to locally as names such as Kampung, Taman, Kawasan and Seksyens. The spatial definition of these boundaries is not authoritative. They are typically subsets of the Postcode boundaries.

micode	Administrative Boundary	StreetPro Nomenclature
50010101	Negeri	MalaA1
50010102	Daerah	MalaA2
50010103	Mukim	MalaA3
50010104	Kampung	MalaA4


Administrative 0**Malaa0.*****micode and Display Characteristics**

miCode	Features	Graphic Object Details	
30040100	Sea		Brush(2,11130623,16777215) Pen(1,2,11130623)
50010100	Administrative 0 - National Boundary		Brush(2,16316906,16777215) Pen (1, 2, 16316906)


Administrative 1**Malaa1.*****micode and Display Characteristics**

miCode	Features	Graphic Object Details	
50010101	Administrative 1 - Negeri boundaries		Brush(1,0,16777215) Pen (2, 2, 10000002)

Administrative 2**Malaa2.*****micode and Display Characteristics**

miCode	Features	Graphic Object Details	
50010102	Administrative 2 - Daerah boundaries		Brush(1,0,16777215) Pen(1,2,10000002)

Administrative 3**Malaa3.*****micode and Display Characteristics**

miCode	Features	Graphic Object Details	
50010103	Administrative 3 - Mukim boundaries		Brush(1,0,16777215) Pen (1,3,10000002)

Administrative 4

Malaa4.*

micode and Display Characteristics

miCode	Features	Graphic Object Details	
50010104	Administrative 4 - Kampung boundaries		Brush(1,0,16777215) Pen(1,10,10000002)

Table Structure




Field	Description	Type (width)	Indexed
<i>Name</i>	Name of administrative boundary	Character (60)	Yes
<i>Name_Lng</i>	Language of administrative boundary name or "UND" for undefined	Character (3)	No
<i>Off_Code</i>	Official code for administrative boundary or "UND" for undefined	Character (3) – for A0 Character (11) – for other Admin	Yes
<i>micode</i>	MapInfo global feature code	Integer	No
<i>SmartLabel</i>	Same as Name with added carriage returns	Character (60)	No
<i>FeatureID</i>	Unique feature identifier within this country	Integer	Yes

Gazetteer Full

Malagf.*

For analysis purposes, the full gazetteer table (Malagf.*), consolidating all the gazetteer layers, is included in the Extras folder.

micode and Display Characteristics

miCode	Features	Graphic Object Details	
80010200	National capital		Symbol(61,13697024,10, "MapInfo Cartographic",256,0)
80010101	Major City		Symbol (47,0,10, "MapInfo Cartographic",256,0)
80010102	City or major town		Symbol (46,0,8, "MapInfo Cartographic",256,0)




miCode	Features	Graphic Object Details	
80010103	Town		Symbol (34,16777215,8)
80010104	Small Town		Symbol (34,16777215,6)
80010105	Other Settlement		Symbol (41,8421504,5, "MapInfo Cartographic",256,0)

Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of settlement	Character (100)	Yes
<i>micode</i>	MapInfo global feature code	Integer	No
<i>SmartLabel</i>	Same as Name with added carriage returns	Character (100)	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (6)	Yes

Postcode Boundary

Malapc.*

The Postcodes boundary layer comprises polygons representing the boundaries of unique postcode values in Malaysia. This layer is suitable for refining address searching and geocoding processes when used in conjunction with the Malaysia centreline data.

micode and Display Characteristics


miCode	Features	Graphic Object Details	
50030100	Postcode		Brush (1, 0, 16777215) Pen (1, 2, 65535)

Table Structure

Field	Description	Type (width)	Indexed
<i>Postcode</i>	Postcode values	Character (5)	Yes
<i>Locality_Name</i>	Name of postal area	Character (80)	Yes

Data Descriptions

Field	Description	Type (width)	Indexed
<i>miCode</i>	MapInfo global feature code	Integer	No
<i>FeatureID</i>	Unique feature identifier within this country	Integer	Yes

Postcode Points

Malapcp.*

The Postcode Points layer contains postcode boundary centroids and the locations of local post offices in Malaysia.

micode and Display Characteristics



miCode	Features	Graphic Object Details	
10240500	Post office		Symbol (44,255,12, "MapInfo Miscellaneous",0,0)
50030100	Postcode Centroid		Symbol (34,255,9, "MapInfo 3.0 Compatible")

Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of post office or locality	Character (80)	Yes
<i>Description</i>	Type of point	Character (60)	No
<i>micode</i>	MapInfo global feature code	Integer	No
<i>FeatureID</i>	Unique feature identifier within this country	Integer	Yes

Postcode Index Table

MalaPC_District_INDEX.*

The Postcode Points layer contains postcode boundary centroids and the locations of local post offices in Malaysia. There are occurrences of multiple postal outlets having the same postcode value. Each point has been tagged with the District (Daerah) boundary they fall within.

Not available in this region

Table Structure

Field	Description	Type (width)	Indexed
<i>POSTCODE</i>	Postcode value	Character (6)	Yes
<i>INDEX</i>	Administration area in which the post office lies	Character (100)	Yes

Urban Areas**Malau.***

The Urban Areas table contains region objects that represent built-up areas.

micode and Display Characteristics


miCode	Features	Graphic Object Details	
50040200	Built-up area		Brush (2, 16378307, 16777215) Pen (1, 2, 16378307)

Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of urban area	Character (60)	Yes
<i>micode</i>	MapInfo global feature code	Integer	No
<i>SmartLabel</i>	Same as Name with added carriage returns	Character (60)	No
<i>FeatureID</i>	Unique feature identifier within this country	Integer	Yes

Chapter 4: Opening a Workspace

In this chapter:

- ◆ **Workspaces**19
- ◆ **Opening a Postcodes & Administrative Boundaries Workspace using MapInfo Professional**19

This chapter covers workspaces and the opening of a Postcodes & Administrative Boundaries workspace using MapInfo Professional.

Workspaces

A workspace is a collection of layers that can be opened together in a mapping application. It constitutes a list of all the relevant tables, windows, and settings, stored in a file with the extension **.wor**. Workspaces offer a convenient means of returning to a previously created map without having to open each table file individually.

The selected workspace keeps track of the following elements:

- Map, Browser, Graph, 3DMap, and Layout windows, including their size and position
- Query tables created from base tables using either the Select or SQL Select statements
- Graphs
- Thematic maps
- Legend windows
- Cosmetic objects
- Labels
- Styles for fonts, symbols, lines, and fill patterns used to display objects

i **Caution:** When you save a workspace, you cannot save any references to selections or queries made by the Selection tools or Query options.

Note: You can use the **Workspace Packager** tool to create a copy of your current workspace in a new folder, and copy all the data referenced by the workspace in the same folder. Using this tool, the workspace looks to these internal references to find the data and .TAB file, so you can open this workspace no matter where you have moved or copied that folder, even if you move it to a different computer. Select this tool using **Tools > Tool Manager**, and then select **Tools > Workspace Packager > Package Current Workspace**.

Opening a Postcodes & Administrative Boundaries Workspace using MapInfo Professional

If you have not already done so, launch MapInfo Professional from the Windows Start menu. If the program was already running, select **File > Close All** to shut everything down and so avoid cluttering up your screen with unnecessary windows.

If the program was not already running, the **Quick Start** dialog box is displayed as soon as you start the program. This gives you the option of restoring the previous session or workspace, or opening a new workspace or table.

To open a workspace:

1. Either:
 - a. In the **Quick Start** dialog box, click **Open a Workspace** and then **Open**.
 - Or
 - b. From the MapInfo Professional **main menu**, select **File > Open** and then choose **Workspace (*.wor)** from the **Files of type** drop-down list.
2. Browse to the workspace you wish to open, and then click **Open**.

3. Once the workspace is displayed, as per the [Workspace Example](#), then you can proceed as required.

When you exit MapInfo Professional, the last session is stored (unless you have set your preferences so that it will not be, using **Options > Preferences > Startup**). If there are files that you do not wish to be added to your workspace, close them before exiting.

Chapter 5: Language Settings and Special Characters

This chapter covers information about language setting and displaying special characters in Postcodes & Administrative Boundaries using MapInfo Professional.

In this chapter:

- ♦ [Displaying Special Characters in MapInfo Professional22](#)

Displaying Special Characters in MapInfo Professional

If you are using an edition of Postcodes & Administrative Boundaries for which the country character set is not Latin-1, you may need to change a number of system settings before special characters can be displayed correctly.

Language settings

In the Windows **Start** menu, open the **Control Panel** and then the **Regional and Language Options** dialog. Click the **Advanced** tab and change the language in the drop-down menu to that of the language for which you wish to view special characters (e.g. Russian for Cyrillic characters).

Note: The computer will need to be restarted before changes become visible. The settings must be set back to English once you are finished using the Postcodes & Administrative Boundaries tables, as other applications may be affected.

Font selection

The second change that may have to be made in order for the characters to be displayed correctly is to change the font within MapInfo Professional. As each browser is opened, change the font of the browser using either the **Text Style** button on the **Drawing** toolbar, or by clicking **Options > Text style...** to open the font change dialog. You can also use the shortcut key [F8] to open this dialog.

Country	Windows Char Set	Display Font
Hong Kong	WindowsTradChinese	Tahoma
Macau	WindowsTradChinese	Tahoma
Philippines	WindowsLatin1	Tahoma
Taiwan	WindowsTradChinese	Tahoma
Thailand	WindowsThai	Tahoma
Viet Nam	WindowsLatin1	Tahoma

Tahoma is the recommended style, as it supports many special characters and associated diacritics.

The default label style can be changed by clicking **Options > Preferences...** then the **Styles...** button. The **Text** style can then be set to the appropriate font.

A

Appendix A: Understanding Metadata

What Is Metadata?

Metadata, in its simplest definition, is data about data. Metadata describes the content, source, history, structure and support that may exist for a data product or entity. Pitney Bowes metadata exists in two forms:

- Metadata for the complete product is included in the StreetPro Malaysia.xml file in the Data\Metadata folder on the installation disk.
- Metadata as keyword and value pairs can be found within each MapInfo format table (.TAB file).

Our metadata is designed to be compliant with the 2003 ISO Geospatial metadata standard. As such, this enables the data products from Pitney Bowes to be available for data cataloguing within any system that uses ISO metadata standards.

Purpose of Metadata

The main purposes of metadata is to provide a mechanism for you to identify the data product unambiguously, list all legal restrictions, and provide copyright information and contact information. This is important information for knowing the currency of the data, and to ensure that the correct and/or most recent version is being used. It is also the information required for identifying the correct data product when contacting Technical Support.

Metadata Sections

The following metadata sections are included at both product and table level:

- **Metadata overview:** Including language, character set and metadata standards.
- Contact and distribution information.
- **Data Description:** product name and version.

Understanding Metadata

- **Extent:** north and south bounding latitudes, east and west bounding longitudes.
- **Resource Constraints:** The Pitney Bowes mapping software solutions that can be used with this product.
- **Abstract:** brief description of the product/table.
- **Data Lineage:** data source, provider and vintage.
- **Spatial Reference System:** projection, ellipsoid and datum.

Additional sections at product level:

- **Keywords:** layers in the product, plus country and national capital.
- Further Information.

Additional section at table level:

- **Object information:** number of points or regions.

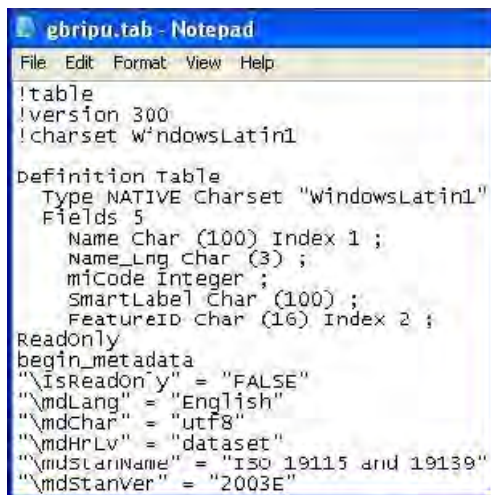
Viewing Metadata

Product Level

An xslt stylesheet is provided to facilitate reading product level metadata.

Table Level

Open the .TAB file in Notepad:



```
gbripu.tab - Notepad
File Edit Format View Help
!table
!version 300
!charset windowsLatin1

Definition Table
Type NATIVE Charset "windowsLatin1"
Fields 5
  Name Char (100) Index 1 ;
  Name_Lng Char (3) ;
  miCode Integer ;
  SmartLabel Char (100) ;
  FeatureID Char (16) Index 2 ;

ReadOnly
begin_metadata
  "\isReadOnly" = "FALSE"
  "\mdLang" = "English"
  "\mdChar" = "utf8"
  "\mdHrLv" = "dataset"
  "\mdStanName" = "ISO 19115 and 19139"
  "\mdStanVer" = "2003E"
```

Alternatively, if you have MapInfo Professional installed, you can use the Table Manager tool to view and edit your metadata.

B

Appendix B: Extras Folder

This section contains information about the additional tables included in the Postcodes & Administrative Boundaries product. The additional tables included are:

- ♦ **Language Table (LNG.*)**26
- ♦ **micodemaster Table (micodemaster.*)**26

Language Table

(LNG.*)

The languages that are used in Postcodes & Administrative Boundaries with their abbreviations are included in the file LNG*.

Table Structure

Field	Description	Type (width)	Indexed
<i>Language</i>	Languages used in Postcodes & Administrative Boundaries	Character (25)	No
<i>Abbrev</i>	Language Abbreviation	Character (3)	No

micodemaster Table

(micodemaster.*)

StreetPro and Postcodes & Administrative Boundaries releases to date have incorporated feature type coding that is consistent but not necessarily related to a recognised standard. Pitney Bowes Software Inc, with an objective to align to recognised standards and add more 'depth' and 'intelligence' to its coding has developed a coding system that is progressively being applied to its range of data products globally - the micode schema.

This schema is a variation of the feature-coding schema in "Defence Mapping Agency (now NIMA) standard, Mapping, Charting & Geodesy Glossary of Feature and Attribute Definitions, MIL-STD-2408, April 1995". The schema has been modified to be an eight-digit/three-part schema with its own definitions for the use of values within each part. The eight-digit code is made up of a two-digit Category code, followed by a two-digit Sub-category code, and then a four-digit Sub-feature code.

For example: Category + Subcategory + Sub-feature

10+07+0200 (This micode refers to POIs category with sub category of Business Locations and sub-features as Hotel/Motel)

A MapInfo format micode lookup table is supplied with StreetPro and Postcodes & Administrative Boundaries.

The screenshot shows a window titled "miCode_th Browser" with a table containing the following data:

Table_ID	Table	Description	miCode	Fcode	Style
AA	Address Areas	Address area	50,030,200	14160	Brush (2, 12632256, 16777215)!Pen (1, 2, 12632256)
X	Address Ranges	Address area	20,090,400	54165	Pen (1, 2, 16752800)
A0	Administrative 0	Sea	30,040,100	14310	Brush (2, 11130623, 16777215)!Pen (1, 2, 11130623)
A0	Administrative 0	Administration 0	50,010,100	11111	Brush (2, 16316906, 16777215)!Pen (1, 2, 16316906)
A1	Administrative 1	Administration 1	50,010,101	11112	Brush (1, 0, 16777215)!Pen (2, 2, 10000002)
A2	Administrative 2	Administration 2	50,010,102	11118	Brush (1, 0, 16777215)!Pen (1, 2, 10000002)

Table Structure

Field	Description	Type (width)	Indexed
<i>Table_ID</i>	Letter code assigned to layer	Character (6)	No
<i>Table</i>	Layer category names	Character (25)	No
<i>Description</i>	Details of sub-features falling under category	Character (100)	No
<i>micode</i>	MapInfo global feature code	Integer	No
<i>FCode</i>	Feature Code provided by data provider	Character (8)	No
<i>Style</i>	Display characteristics details	Character (60)	No

C

Appendix C: Data Support and Feedback

Pitney Bowes Software Inc continues to enhance the data support and feedback facilities available to our clients. An infrastructure has been developed to streamline the handling of customer feedback regarding data products and to ensure that appropriate responses are provided, with corrective action being taken where appropriate. For the various types of possible feedback, and their submission, refer to the form on the next page.

Feedback Process

The process is as follows:

1. Completion of Feedback Form by Client: The electronic form on the following page has a Send button that you can use to send the AsiaPac Data Production Team general comments concerning any of our data products.
You can also email comments (and associated screenshots) directly to the following email address: software.support@pb.com
2. Handling: All customers are sent confirmation of receipt of email feedback, and then subsequently notified of the type and timetable of the corrective action (where appropriate). Dependent on the type of feedback, the report may be actioned immediately or scheduled for routine maintenance action as part of the next scheduled release. The Feedback Database keeps track of progress on each item. Follow-up action and advice are provided wherever necessary.

Electronic Feedback Form

You can send us feedback on any of the data products supplied by Pitney Bowes Software, by completing the information below and clicking **Send** in the lower-right corner of the page. This generates an e-mail to which you can attach any screenshots that you feel would help illustrate your feedback.

Feedback can be in the form of correction advice, notification of changes, requests for enhancements/features, or requests for information. All feedback is valued by the Data Production Team and contributes to product improvements and enhanced value to users.

Your feedback will be emailed directly to the AsiaPac Data Production Team at ozdata@mapinfo.com, who will review and action it as soon as is practicable.

Contact Preferences

May we contact you if we have questions about your comments?

Yes No

Contact Information

Name:

Email:

Phone:

Best time to contact:

Data/Software Versions

Please complete the following information (as applicable):

Name of Data Product:

Version of Data Product:

Software used to load Data:

Version of Software used:

Your Comments

Enter your comments below. If you wish to report any problems, please feel free to do so but be as specific as possible, giving the relevant codes and tables. **Thank you in advance.**

If you reported any problems above, please indicate the severity of their impact by clicking the appropriate button:

Could not carry on working Inconvenient, but able to continue Cosmetic only, no real impact
Not applicable