



# StreetPro Viet Nam

Version 2014.04

PRODUCT GUIDE

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# Introduction

## Pitney Bowes Software welcomes you to StreetPro®

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

## Feedback

Pitney Bowes Software Pty Ltd 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
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- ◆ [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 <sup>®</sup>	Postcodes & Administrative Boundaries <sup>®</sup>
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<sup>®</sup> Reference Tables

Table	StreetPro <sup>®</sup>	Postcodes & Administrative Boundaries <sup>®</sup>
Additional Names	x	
Address details for point features	x	
Postcode Locality Index	x	x

## StreetPro<sup>®</sup> Geocoding Tables

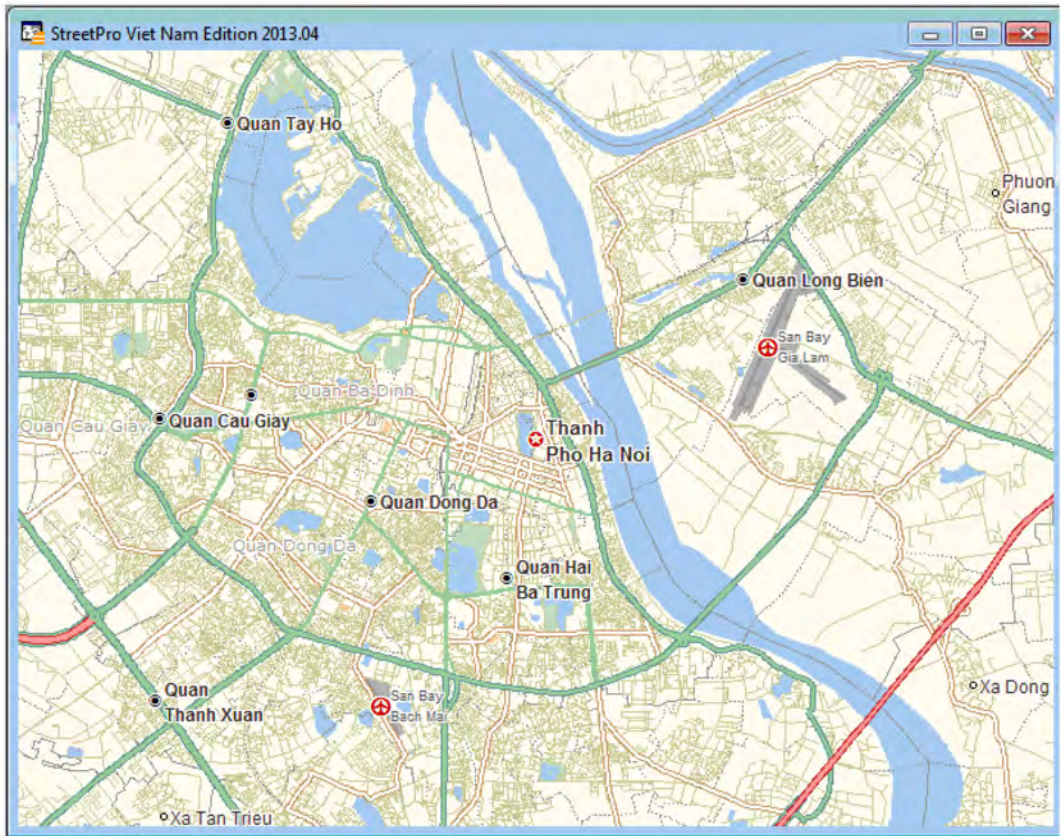
Table	StreetPro <sup>®</sup>	Postcodes & Administrative Boundaries <sup>®</sup>
Address Ranges	x	
Street Names	x	
Street Intersections	x	

## Workspaces

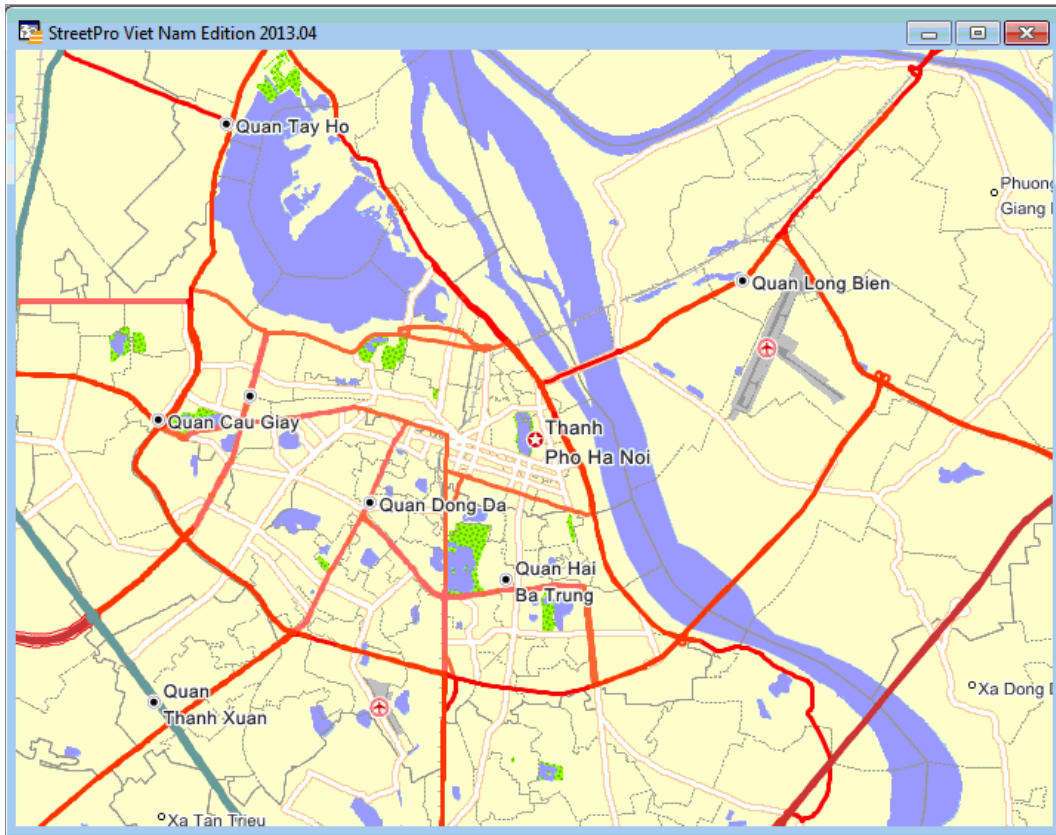
StreetPro makes available to all customers an international look-and-feel via its international workspace, whilst, in addition, providing an increasing number of countries with 'localised' workspaces, tailored to specific geographies.



## International Workspace Example



## Local Workspace Example



# StreetPro<sup>®</sup> Installation

## In this chapter:

- ◆ [Workspace File Names](#) .....12
- ◆ [Uninstalling StreetPro<sup>®</sup>](#).....12

## Workspace File Names

StreetPro is supplied with c [ different types of workspace:

Type	International Workspace File Name	Local Workspace File Name	Example Mapping Application
T Y ù	çāc āndē , •	Ái^c{ , • /~~~~~T æ Ýd^ { ^Á [ !\• ] æ&^	T æager
Mapinfo Professional Workspace	çī^c_ī} çē [ !	çāc, [ !	MapQ { Ú! [ ^••ā } æ

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

## Uninstalling StreetPro®

StreetPro 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 **StreetPro J]YiBUa** , followed by **Remove**.

Confirming removal will delete all installed StreetPro files for the country from the system.

---

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

---

# Data Descriptions

The reference and geocoding tables included with StreetPro are also documented here.

## In This Chapter

- ◆ [Spatial Referencing](#) .....14
- ◆ [StreetPro Layer Tables](#).....14

## 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

## StreetPro Layer Tables

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

### Administrative Layers



### Vieta0.\* – Vieta3.\*

The Viet Nam Administration Boundary layers include three levels of boundaries.


- Provinces (Tinh and Thanh) Boundaries: Viet Nam is divided into 58 provinces (Tinh) and 5 municipalities (Thanh) existing at the same level as provinces (Ha Noi, Hai Phong, Da Nang, Can Tho and Ho Chi Minh City).
- Districts (Huyen, Quan, Thanh and Thi Xa) Boundaries: In Viet Nam, the provinces are divided into districts (Huyen), urban districts (Quan), provincial cities (Thanh) and country-level towns (Thi Xa).
- Commune (Thi Tran, Xa and Phuong) Boundaries: In Viet Nam, the districts are further sub-divided into commune-level towns (Thi Tran), communes (Xa) and wards (Phuong).

micode	Administrative Boundary	StreetPro Nomenclature
50010101	Provinces (Tinh and Thanh)	Vieta1
50010102	Districts (Huyen, Quan, Thanh and Thi Xa)	Vieta2
50010103	Commune (Thi Tran, Xa and Phuong)	Vieta3


**Administrative 0****Vieta0.\*****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****Vieta1.\*****micode and Display Characteristics**

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

**Administrative 2****Vieta2.\*****micode and Display Characteristics**

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

**Administrative 3****Vieta3.\*****micode and Display Characteristics**

miCode	Features	Graphic Object Details	
50010103	Administrative 3 - Tambon/Khwaeng		Brush(1,0,16777215) Pen(1,3,10000002)

**Table Structure**

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of administrative boundary	Character (100)	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 (100)	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (16)	Yes


**Address Areas**

**Vietaa.\***

The Address Areas table contains address features that cannot be related to the name of the street that passes by or through the area.

*Not available in this region*

**micode and Display Characteristics**

miCode	Features	Graphic Object Details	
50040200	Address Areas		Brush (2, 12632256, 16777215) Pen (1, 2, 12632256)

**Table Structure**

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of address area	Character (100)	Yes
<i>Name_Lng</i>	Language of address area name or "UND" for undefined	Character (3)	No
<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 (16)	Yes



## Additional Details for Point Features

**Vietzp.\***

The Address Details for Point Features table provides address and geocoding source information for the point features in the layers such as Business, Frontier Crossings, Public Locations, Parking, Recreation Places and Stations.

### Table Structure

<b>Field</b>	<b>Description</b>	<b>Type (width)</b>	<b>Indexed</b>
<i>Table</i>	Name of the feature table that contains the feature for which the address details are provided	Character (6)	Yes
<i>Brand_Nm</i>	Brand name (available for car dealers, hotels, motels, petrol stations, car rental facilities, and restaurants only.)	Character (70)	No
<i>House_No</i>	House number	Character (10)	No
<i>Street_Nm</i>	Street Name	Character (100)	No
<i>Place_Nm</i>	Place Name	Character (100)	No
<i>Postcode</i>	Postcode	Character (10)	No
<i>Tel</i>	Telephone number	Character (25)	No
<i>Fax</i>	Fax number	Character (25)	No
<i>Email</i>	Email address	Character (70)	No
<i>Internet</i>	Internet address	Character (70)	No

## Data Descriptions

Field	Description	Type (width)	Indexed
<i>PF_Loc_Src</i>	<p>Indicator value representing method and information by which the point feature was positioned:</p> <p><b>1</b> Location of point feature that has an entry point</p> <p><b>2</b> Location of point feature without entry point (closest road segment established by algorithm), e.g. mountain peak</p> <p><b>3</b> Location on a predefined place on the transportation network</p> <p><b>11</b> Exact location of the entrance of the point feature</p> <p><b>12</b> Nearest location on the transportation network with the correct address (point feature location is known)</p> <p><b>13</b> Interpolated location part way along the correct side of the road segment along which the point feature is located</p> <p><b>14</b> Location on the correct side of the correct road segment along which the point feature is located</p> <p><b>15</b> Location on the correct road segment along which the point feature is located</p> <p><b>16</b> Location on the correct road along which the point feature is located</p> <p><b>17</b> Location on the corresponding gazetteer point</p> <p><b>18</b> Location on other corresponding service</p> <p><b>99</b> No geocoding source information</p>	Character (2)	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (16)	Yes

### Additional Name

**Vietzl.\***

The Additional Names table contains alternative names and names in different languages for some features.

## Table Structure








Field	Description	Type (width)	Indexed
<i>Table</i>	Name of the table that contains the feature for which the additional name is provided	Character (6)	Yes
<i>Name</i>	Name	Character (150)	No
<i>Name_Lng</i>	Language	Character (3)	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (16)	Yes

## Airports

**Vietap.\***

The Airports table contains airports.

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
10310000	Airport, undefined		Symbol(87,167,16,"MapInfo Transportation",256,0)
10310010	Check-in/check-out facility at airport, undefined		Symbol(34,167,7,"MapInfo Cartographic",256,0)
10310011	Check-in facility at airport, departures		Symbol(34,167,7,"MapInfo Cartographic",256,0)
10310012	Check-out facility at airport, arrivals		Symbol(34,167,7,"MapInfo Cartographic",256,0)
10310013	Check-in/check-out facility at airport, departures and arrivals		Symbol(34,167,7,"MapInfo Cartographic",256,0)
10310100	Airport, civil		Symbol(72,13697024,12,"MapInfo Real Estate",257,0)
10310200	Airport, military		Symbol(72,5263360,12,"MapInfo Real Estate",257,0)

## Table Structure











Field	Description	Type (width)	Indexed
<i>Name</i>	Name of airport	Character (100)	Yes
<i>Name_Lng</i>	Language of airport name or "UND" for undefined	Character (3)	No
<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 (16)	Yes













## Business Locations

**Vietb.\***

The Business Locations table contains business locations, such as hotels, motels, restaurants, petrol stations, car dealers, car repair facilities, car rental offices, cash dispensers, companies, pharmacies, shops, factory outlets, wineries, and shopping centres.

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
10010000	Commercial building		Symbol(57,0,12, "MapInfo Real Estate",256,0)
10010100	Shop		Symbol(57,24672,12, "MapInfo Real Estate",256,0)
10010205	Drive-through bottleshop		Symbol(57,10506240,12, "MapInfo Real Estate",256,0)
10010400	Car dealer, undefined		Symbol(70,8388608,18, "MapInfo Transportation",256,0)
10010401	Car dealer, sales facility		Symbol(70,8388608,18, "MapInfo Transportation",256,0)
10010402	Car dealer, repair facility		Symbol(70,8388608,18, "MapInfo Transportation",256,0)
10010403	Car dealer, sales and repair facility		Symbol(70,8388608,18, "MapInfo Transportation",256,0)
10010404	Car repair facility		Symbol(70,8388608,18, "MapInfo Transportation",256,0)
10010405	Car rental office		Symbol(73,167,18, "MapInfo Transportation",256,0)
10010500	Petrol station		Symbol(42,13697024,12, "MapInfo Transportation",256,0)

miCode	Features	Graphic Object Details	
10011000	Shopping centre		Symbol(57,24672,12, "MapInfo Real Estate",256,0)
10020000	Restaurant		Symbol(54,11556864,10, "MapInfo Real Estate",256,0)
10020700	Café/Pub		Symbol(54,11556864,10, "MapInfo Real Estate",256,0)
10020800	Area of high concentration of restaurants		Symbol(54,11556864,10, "MapInfo Real Estate",256,0)
10030000	Company		Symbol(55,0,16, "MapInfo Real Estate",256,0)
10030310	Bank		Symbol (49,0,14, "MapInfo Real Estate",256,0)
10030311	Cash dispenser		Symbol(40,0,12, "MapInfo Cartographic",1,0)
10030600	Business facility		Symbol (34,0,18, "MapInfo Real Estate",256,0)
10060000	Industrial building		Symbol (37,0,16, "MapInfo Real Estate",256,0)
10070200	Hotel/motel*		Symbol(64,13697024,16, "MapInfo Real Estate",256,0)
10110601	Winery		Symbol(60,7340256,16, "MapInfo Real Estate",256,0)
10230030	Pharmacy		Symbol(70,40960,10, "MapInfo Cartographic",256,0)

### Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of business location	Character (100)	Yes
<i>Name_Lng</i>	Language of business location name or "UND" for undefined	Character (3)	No
<i>micode</i>	MapInfo global feature code	Integer	No

## Data Descriptions

Field	Description	Type (width)	Indexed
<i>SmartLabel</i>	Same as Name with added carriage returns	Character (100)	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (16)	Yes

## Cross Roads

**Vietcr.\***

The crossroad layer contains street intersection point objects.

### Table Structure

Field	Description	Type (width)	Indexed
<i>ID</i>	ID of features	Character (16)	No
<i>Street1</i>	Street name of 1st logical street that makes up intersection	Character (150)	No
<i>Street2</i>	Street name of 1st logical street that makes up intersection	Character (150)	No
<i>Street4</i>	Street name of 3rd logical street that makes up intersection	Character (150)	No
<i>Street4 (optional)</i>	Street name of 4th logical street that makes up intersection	Character (150)	No
<i>Street5 (optional)</i>	Street name of 5th logical street that makes up intersection	Character (150)	No

## Ferry Routes

**Vietf.\***

The Ferry Routes table contains ferry connections classified by mode of operation.

### miocode and Display Characteristics

miCode	Features	Graphic Object Details	
70010100	Ferry, operated by ship/hovercraft		Pen (1,9,4227327)
70020100	Ferry, operated by train		Pen (1,9,0)

### Table Structure





Field	Description	Type (width)	Indexed
<i>Name</i>	Name of ferry route	Character (100)	Yes
<i>Name_Lng</i>	Language of ferry route name or "UND" for undefined	Character (3)	No
<i>micode</i>	MapInfo global feature code	Integer	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (16)	Yes

### Freeway Interchanges

**Vietfi.\***

The Freeway Interchanges table contains interchanges on all road classes.

#### micode and Display Characteristics

miCode	Features	Graphic Object Details	
10340100	Motorway exit/access		Symbol(59,16750640,8)
10340200	Motorway interchange		Symbol(59,16711680,8)
10340300	Freeway interchange, other		Symbol(59,8421504,8)
10340500	Toll gate		Symbol(34,0,7, "MapInfo Symbols",256,0)


### Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of freeway interchange	Character (100)	Yes
<i>Name_Lng</i>	Language of freeway interchange name or "UND" for undefined	Character (3)	No
<i>micode</i>	MapInfo global feature code	Integer	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (16)	Yes

**Frontier Crossings****Vietfr.\***

The Frontier Crossings table contains points at which international borders may be crossed.

**micode and Display Characteristics**

miCode	Features	Graphic Object Details	
10240104	Frontier crossing		Symbol(61,13697024,9,"MapInfo Transportation",256,0)


**Table Structure**

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of Frontier crossings	Character (100)	Yes
<i>Name_Lng</i>	Language of frontier crossings name or "UND" for undefined	Character (3)	No
<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 (16)	Yes


**Gazetteer Layers****Vietg1.\* – Vietg6.\***

The gazetteer layers contain points for country capitals through to small settlements.

**Gazetteer Level 1****Vietg1.\*****micode and Display Characteristics**

miCode	Features	Graphic Object Details	
80010200	National capital		Symbol(61,13697024,10,"MapInfo Cartographic",256,0)

**Gazetteer Level 2****Vietg2.\*****micode and Display Characteristics**


miCode	Features	Graphic Object Details	
80010101	Major City		Symbol (47,0,10,"MapInfo Cartographic",256,0)



**Gazetteer Level 3**

Vietg3.\*


**micode and Display Characteristics**

miCode	Features	Graphic Object Details	
80010102	City or major town		Symbol (46,0,8, "MapInfo Cartographic",256,0)

**Gazetteer Level 4**

Vietg4.\*


**micode and Display Characteristics**

miCode	Features	Graphic Object Details	
80010103	Town		Symbol (34,16777215,8)

**Gazetteer Level 5**

Vietg5.\*


**micode and Display Characteristics**

miCode	Features	Graphic Object Details	
80010104	Small Town		Symbol (34,16777215,6)

**Gazetteer Level 6**

Vietg6.\*

**micode and Display Characteristics**

miCode	Features	Graphic Object Details	
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>Name_Lng</i>	Language of settlement name or "UND" for undefined	Character (3)	No
<i>Alt_Name</i>	Alternative name of settlement	Character (150)	No

Field	Description	Type (width)	Indexed
<i>Alt_Nm_Lng</i>	Language of alternative name of settlement or "UND" for undefined	Character (3)	No
<i>Category</i>	Population category code	Character (3)	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 (16)	Yes




## Land Cover

**Vietlc.\***

The Land Cover table contains region objects representing beaches, dunes, moorlands, heathlands, and woodlands.

*Not available in this region*

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
60020100	Forest/Sanctuary		Brush(2,13364181,16777215) Pen(1,2, 13364181)
60020300	Beach/dune		Brush(49,16760832,16777215) Pen(1,3,16764992)
60020400	Moor/heathland		Brush(16,12560301,16777215) Pen(1,3, 12560301)















### Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of land cover area	Character (100)	Yes
<i>Name_Lng</i>	Language of land cover area name or "UND" for undefined	Character (3)	No
<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 (16)	Yes

















**Land Use****Vietlu.\***

















The Land Use table contains region objects representing city parks, national and regional parks, industrial areas, industrial harbour areas, cemetery ground, military territory, building grounds and building footprints.




**micode and Display Characteristics**

<b>miCode</b>	<b>Features</b>	<b>Graphic Object Details</b>	
60010110	Regional park		Brush(2,11592127,16777215) Pen(1,2, 11592127)
60010111	National park		Brush(2,11592127,16777215) Pen(1,2, 11592127)
60010112	State or province park		Brush(2,11592127,16777215) Pen(1,2, 11592127)
60010113	County park		Brush(2,11592127,16777215) Pen(1,2, 11592127)
60010114	City park		Brush(2,11592127,16777215) Pen(1,2, 11592127)
60010120	National/regional marine park		Brush(2,11592127,16777215) Pen(1,2, 11592127)
60010140	Lighthouse ground		Brush(2,16767650,16777215) Pen(1,1, 0)
60010150	Rest area ground		Brush(2,16767650,16777215) Pen(1,1, 0)
60010200	Industrial area		Brush(2,15132387,16777215) Pen(1,1, 0)
60010210	Company ground		Brush(2,16770513,16777215) Pen(1,1, 0)
60010220	Industrial harbour area		Brush(2,15132387,16777215) Pen(1,1, 0)
60010230	Institutions		Brush(2,16770513,16777215) Pen(1,1, 0)
60010240	Water mill ground		Brush(2,16770513,16777215) Pen(1,1, 0)
60010250	Windmill ground		Brush(2,16770513,16777215) Pen(1,1, 0)

## Data Descriptions

miCode	Features	Graphic Object Details	
60010300	Recreational area ground		Brush(2,13696976,16777215) Pen(1,1, 0)
60010311	Amusement park ground		Brush(2,13696976,16777215) Pen(1,1, 0)
60010312	Zoo ground		Brush(2,13696976,16777215) Pen(1,1, 0)
60010313	Golf course ground		Brush(2,13429701,16777215) Pen(1,1, 0)
60010314	Stadium ground		Brush(2,16767650,16777215) Pen(1,1, 0)
60010321	Castle (not to visit) ground		Brush(2,16770033,16777215) Pen(1,1, 0)
60010322	Castle (to visit) ground		Brush(2,16770033,16777215) Pen(1,1, 0)
60010323	Place of interest ground		Brush(2,16770033,16777215) Pen(1,1, 0)
60010324	Sports hall ground		Brush(2,16770033,16777215) Pen(1,1, 0)
60010331	Arts centre ground		Brush(2,16770033,16777215) Pen(1,1, 0)
60010332	Theatre ground		Brush(2,16770033,16777215) Pen(1,1, 0)
60010333	Museum ground		Brush(2,16770033,16777215) Pen(1,1, 0)
60010400	Cemetery Ground		Brush(2,15654399,16777215) Pen(1,1, 0)
60010511	University ground		Brush(2,16495801,16777215) Pen(1,1, 0)
60010512	Library ground		Brush(2,16495801,16777215) Pen(1,1, 0)
60010521	Church ground		Brush(2,15654399,16777215) Pen(1,1, 0)

miCode	Features	Graphic Object Details	
60010522	Monastery ground		Brush(2,15654399,16777215) Pen(1,1, 0)
60010523	Abbey ground		Brush(2,15654399,16777215) Pen(1,1, 0)
60010601	Hospital ground		Brush(2,16748688,16777215) Pen(1,1, 0)
60010611	Prison ground		Brush(2,9474192,16777215) Pen(1,1, 0)
60010700	Government building ground		Brush(2,16767650,16777215) Pen(1,1, 0)
60010710	City hall ground		Brush(2,16760960,16777215) Pen(1,1, 0)
60010711	Courthouse ground		Brush(2,16760960,16777215) Pen(1,1, 0)
60010712	Fire station ground		Brush(2,16760960,16777215) Pen(1,1, 0)
60010713	Police office ground		Brush(2,16760960,16777215) Pen(1,1, 0)
60010714	State police office ground		Brush(2,16760960,16777215) Pen(1,1, 0)
60010715	Post office ground		Brush(2,16760960,16777215) Pen(1,1, 0)
60010720	Military Territory		Brush(2,15790320,16777215) Pen(1,1, 0)
60010726	Fortress ground		Brush(2,16770033,16777215) Pen (1,1,0)
60010801	Shopping centre ground		Brush(2,16767650,16777215) Pen(1,1, 0)
60010802	Airport ground/ School Grounds		Brush(2,11579568,16777215) Pen(1,1, 0)
60010803	Runway ground		Brush(2,9474192,16777215) Pen(1,1, 0)

miCode	Features	Graphic Object Details	
60010804	Railway station ground		Brush(2,10526880,16777215) Pen(1,1, 0)
60010900	Building footprint		Brush(2,12632256,16777215) Pen(1,1, 0)
60010920	Parking area ground		Brush(2,16767650,16777215) Pen(1,1, 0)

### Table Structure






Field	Description	Type (width)	Indexed
<i>Name</i>	Name of land use area	Character (100)	Yes
<i>Name_Lng</i>	Language of land use area name or "UND" for undefined	Character (3)	No
<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 (16)	Yes

### Natural Features

Vietnf.\*

The Natural Features table contains beaches, mountain passes, mountain peaks, forest area points and scenic and panoramic views.

#### micode and Display Characteristics

miCode	Features	Graphic Object Details	
10110401	Scenic/panoramic view		Symbol (50,8388608,12, "MapInfo Miscellaneous",256,0)
10110402	Beach, represented by a point		Symbol (140,8388608,16, "MapInfo Miscellaneous",256,0)
10110403	Mountain peak		Symbol (95,8388608,12, "MapInfo Cartographic",256,0)
10110405	Mountain pass		Symbol (74,8388608,12, "MapInfo Cartographic",257,0)
10110406	Forest area, represented by a point		Symbol (64,32896,16, "MapInfo Miscellaneous",256,0)

## Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of natural feature	Character (100)	Yes
<i>Name_Lng</i>	Language of natural feature name or "UND" for undefined	Character (3)	No
<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 (16)	Yes

## Oneways

**Vietow.\***

The Oneway table contains arrows indicating the direction of travel on one-way streets. The table does not contain one-way arrows for roundabouts, slip roads, motorways or dual carriageways. These road classes are assumed to be one-way by default. This table is meant for display only and therefore may not contain a point for every one-way street.

## Table Structure




Field	Description	Type (width)	Indexed
<i>Obj_rotation</i>	Rotation value of the point in degrees	Float	No
<i>micode</i>	MapInfo Standard Feature Code	Integer	No

## Parking

**Vietp.\***

The Parking table contains parking areas, parking garages, and rent-a-car parking areas.

## micode and Display Characteristics

miCode	Features	Graphic Object Details	
10330200	Open parking area		Symbol(44,13697024,12,"MapInfo Transportation",257,0)
10330300	Rent-a-car parking		Symbol(62,13697024,12,"MapInfo Transportation",257,0)
10330100	Parking garage		Symbol(43,13697024,12,"MapInfo Transportation",257,0)

## Table Structure











Field	Description	Type (width)	Indexed
<i>Name</i>	Name of parking area	Character (100)	Yes
<i>Name_Lng</i>	Language of parking area name or "UND" for undefined	Character (3)	No
<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 (16)	Yes

## Public Locations


















**Vietpu.\***



The Public Locations table contains public buildings such as post offices, hospitals, colleges, universities, convention and exhibition centres, courthouses, doctors, embassies, libraries, places of worship, tourist attractions, and government buildings.

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
10110100	Tourist attraction, undefined		Symbol(58,8388608,10,"MapInfo Cartographic",256,0)
10110200	Tourist attraction, building		Symbol(48,8388608,16,"MapInfo Real Estate",0,0)
10110300	Tourist attraction, monument		Symbol(117,8388608,12,"MapInfo Miscellaneous",256,0)
10110400	Tourist attraction, natural attraction		Symbol(95,40960,12,"MapInfo Cartographic",256,0)
10110700	Tourist information centre		Symbol(47,8388608,12,"MapInfo Transportation",256,0)
10110800	Rest area		Symbol(68,8388608,12,"MapInfo Miscellaneous",257,0)
10130300	Convention centre		Symbol(51,32896,16,"MapInfo Real Estate",256,0)
10130301	Exhibition centre		Symbol(51,32896,16,"MapInfo Real Estate",256,0)
10210300	College/university		Symbol(39,13697024,16,"MapInfo Real Estate",256,0)
10210600	Library		Symbol(41,0,12,"MapInfo Miscellaneous",256,0)



miCode	Features	Graphic Object Details	
10220000	Place of worship, undefined		Symbol(41,0,12, "MapInfo Real Estate",257,0)
10220100	Place of worship, church		Symbol(41,0,12, "MapInfo Real Estate",256,0)
10220200	Place of worship, mosque		Symbol(42,0,16, "MapInfo Real Estate",256,0)
10220300	Place of worship, synagogue		Symbol(43,0,16, "MapInfo Real Estate",256,0)
10220600	Place of worship, other		Symbol(66,0,12, "MapInfo Symbols",256,0)
10230100	Hospital/polyclinic		Symbol(70,14680064,12, "MapInfo Cartographic",256,0)
10230300	Doctor		Symbol(70,128,10, "MapInfo Cartographic",256,0)
10230400	Dentist		Symbol(70,16777215,10, "MapInfo Cartographic",16,0)
10230700	Vet		Symbol(89,0,16, "MapInfo Miscellaneous",256,0)
10240100	Government office		Symbol(59,0,12, "MapInfo Real Estate",256,0)
10240102	Courthouse		Symbol(59,0,12, "MapInfo Real Estate",256,0)
10240103	Embassy		Symbol(59,13697024,12, "MapInfo Real Estate",256,0)
10240300	Police station		Symbol(61,255,12, "MapInfo Cartographic",0,0)
10090121	Fire station		Symbol (78,16711680,18, "MapInfo Transportation",0,0)
10240400	School		Symbol (38,255,12, "MapInfo Real Estate",0,0)
10240500	Post office, undefined		Symbol(45,128,12, "MapInfo Miscellaneous",257,0)
10240501	Post office, main		Symbol(45,128,12, "MapInfo Miscellaneous",257,0)

miCode	Features	Graphic Object Details	
10240502	Post office, minor		Symbol(45,8421504,12, "MapInfo Miscellaneous",257,0)
10240800	Cemetery		Symbol(67,5263440,10, "MapInfo Real Estate",257,0)

### Table Structure


Field	Description	Type (width)	Indexed
<i>Name</i>	Name of public facility	Character (100)	Yes
<i>Name_Lng</i>	Language of public facility name or "UND" for undefined	Character (3)	No
<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 (16)	Yes

## Railways

Vietr.\*

The Railways table contains railway lines.

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
40010100	Railway Line		Pen (1, 27, 8421504)

### Table Structure
















Field	Description	Type (width)	Indexed
<i>Name</i>	Name of Railway	Character (200)	Yes
<i>Name_Lng</i>	Language of Name or "UND" for undefined	Character (3)	No
<i>micode</i>	MapInfo global feature code	Integer	No

## Recreation Places












Vietre.\*

The Recreation Places table includes sports stadiums, theatres, museums, amusement parks, cinemas, cultural centres, ice skating rinks, opera houses, swimming pools, yacht basins, zoos, and casinos.

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
10110201	Museum		Symbol(50,8388608,12, "MapInfo Real Estate",256,0)
10110202	Arts Centre		Symbol(124,8388608,12, "MapInfo Miscellaneous",256,0)
10120000	Sports centre		Symbol(70,0,10, "MapInfo Real Estate",256,0)
10120100	Stadium		Symbol(70,0,10, "MapInfo Real Estate",256,0)
10120101	Tennis court		Symbol(93,13697024,16, "MapInfo Miscellaneous",257,0)
10120105	Ice skating rink		Symbol(70,255,10, "MapInfo Real Estate",256,0)
10120108	Golf course		Symbol(33,32768,18, "MapInfo Miscellaneous",256,0)
10120113	Car Race track		Symbol(70,8388608,10, "MapInfo Real Estate",256,0)
10120300	Water sports facility		Symbol(94,167,12, "MapInfo Cartographic",1,0)
10120310	Swimming pool		Symbol(100,167,16, "MapInfo Miscellaneous",256,0)
10120320	Yacht basin		Symbol(100,167,12, "MapInfo Transportation",256,0)
10130000	Entertainment Location		Symbol (116,24672, 12, "MapInfo Miscellaneous", 256, 0)
10130100	Cultural centre		Symbol(50,32896,12, "MapInfo Real Estate",256,0)
10130110	Theatre		Symbol(116,24672,12, "MapInfo Miscellaneous",256,0)
10130120	Opera		Symbol(116,24672,12, "MapInfo Miscellaneous",256,0)

## Data Descriptions

miCode	Features	Graphic Object Details	
10130130	Concert hall		Symbol(50,32896,12,"MapInfo Real Estate",256,0)
10130140	Music centre		Symbol(50,32896,12,"MapInfo Real Estate",256,0)
10130150	Cinema		Symbol(102,32896,16,"MapInfo Miscellaneous",256,0)
10130200	Leisure centre		Symbol(40,32896,16,"MapInfo Real Estate",256,0)
10130210	Park and recreation area, represented by a point		Symbol(64,32896,16,"MapInfo Miscellaneous",256,0)
10130220	Zoo		Symbol(137,32896,12,"MapInfo Miscellaneous",256,0)
10130230	Amusement park		Symbol(133,24672,16,"MapInfo Miscellaneous",256,0)
10130240	Camping ground		Symbol(66,32896,16,"MapInfo Miscellaneous",256,0)
10130260	Nightlife		Symbol(65,32896,16,"MapInfo Real Estate",256,0)
10130270	Casino		Symbol(94,32896,16,"MapInfo Miscellaneous",256,0)
10130400	Residential Accommodation		Symbol (35,8388608,12,"MapInfo Real Estate",0,0)

## Table Structure










Field	Description	Type (width)	Indexed
<i>Name</i>	Name of recreational facility	Character (100)	Yes
<i>Name_Lng</i>	Language of recreational facility name or "UND" for undefined	Character (3)	No
<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 (16)	Yes

## Stations

Vietst.\*

The Stations table is a point file of bus stations, railway stations and ferry terminals.

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
10320102	Ferry terminal, train		Symbol(109,167,16,"MapInfo Transportation",256,0)
10320203	Railway station, national		Symbol(110,0,18,"MapInfo Transportation",256,0)
10320201	Railway station, underground/metro		Symbol(64,16742656,10,"MapInfo Transportation",256,0)
10320202	Railway station, international		Symbol(110,6316128,18,"MapInfo Transportation",256,0)
10320200	Railway station, undefined		Symbol(110,6316128,18,"MapInfo Transportation",256,0)
10320204	Railway station, (sub) urban		Symbol(110,6316128,18,"MapInfo Transportation",256,0)
10320300	Bus station		Symbol(111,0,18,"MapInfo Transportation",256,0)
10320205	Railway station, light rail		Symbol(110,9437184,16,"MapInfo Transportation",256,0)
10320101	Ferry terminal, ship/hovercraft		Symbol(98,22015,14,"MapInfo Transportation",256,0)

### Table Structure














Field	Description	Type (width)	Indexed
<i>Name</i>	Name of station or terminal	Character (100)	Yes
<i>Name_Lng</i>	Language of station or terminal name or "UND" for undefined	Character (3)	No
<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 (16)	Yes

















## Street Layers

## Viets1.\* – Viets6.\*












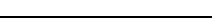

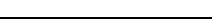
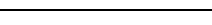
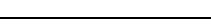
The street layers contain motorways, major, minor and local roads, paths and trails. Roads of major network importance are held in the Street 1 layer, with subsequent layers containing streets in decreasing order of importance.

### micode and Display Characteristics
















miCode	Features	Graphic Object Details	
20010100	Motorway, part of a motorway, non toll		Pen(40,130,13777980)
20010100	Motorway, part of a multi-carriageway not a motorway, non toll		Pen(40,130,13777980)
20010200	Motorway, single carriageway, non toll		Pen(40,130,13777980)
20010300	Motorway, part of a roundabout, non toll		Pen(40,130,13777980)
20010301	Motorway, special traffic figure, non toll		Pen(40,130,13777980)
20010400	Motorway, part of a slip road, non toll		Pen(30,130,13777980)
20010410	Motorway, part of a slip road, toll		Pen(30,130,13777980)
20020100	Major road, part of a multi-carriageway not a motorway, non toll		Pen(40,130,7116418)
20020110	Major road, part of a multi-carriageway not a motorway, toll		Pen(40,130,7116418)
20020200	Major road, single carriageway, non toll		Pen(40,130,7116418)
20020210	Major road, single carriageway, toll		Pen(40,130,7116418)
20020300	Major road, part of a roundabout, non toll		Pen(40,130,7116418)
20020301	Major road, special traffic figure, non toll		Pen(40,130,7116418)

miCode	Features	Graphic Object Details	
20020310	Major road, part of a roundabout, toll		Pen(40,130,7116418)
20020400	Major road, part of a slip road, non toll		Pen(30,130,7116418)
20020410	Major road, part of a slip road, toll		Pen(30,130,7116418)
20020500	Major road, part of a service road, non toll		Pen(30,130,7116418)
20020700	Major road, part of a pedestrian zone, non toll		Pen (1, 4, 14401683)
20030100	Other major road, part of a multi-carriageway not a motorway, non toll		Pen(40,130,7116418)
20030110	Other major road, part of a multi-carriageway not a motorway, toll		Pen(40,130,7116418)
20030200	Other major road, single carriageway, non toll		Pen(40,130,7116418)
20030210	Other major road, single carriageway, toll		Pen(40,130,7116418)
20030300	Other major road, part of a roundabout, non toll		Pen(40,130,7116418)
20030301	Other major road, special traffic figure, non toll		Pen(40,130,7116418)
20030310	Other major road, part of a roundabout, toll		Pen(40,130,7116418)
20030400	Other major road, part of a slip road, non toll		Pen(30,130,7116418)
20030401	Other major road, part of an enclosed traffic area, non toll		Pen(30,130,7116418)
20030410	Other major road, part of a slip road, toll		Pen(30,130,7116418)
20030500	Other major road, part of a service road, non toll		Pen(30,130,7116418)
















## Data Descriptions











miCode	Features	Graphic Object Details	
20030700	Other major road, part of a pedestrian zone, non toll		Pen (1, 4, 14401683)
20040100	Secondary road, part of a multi-carriageway not a motorway, non toll		Pen(30,2,8762781)
20040110	Secondary road, part of a multi-carriageway not a motorway, toll		Pen(30,2,8762781)
20040200	Secondary road, single carriageway, non toll		Pen(30,2,8762781)
20040210	Secondary road, single carriageway, toll		Pen(30,2,8762781)
20040300	Secondary road, part of a roundabout, non toll		Pen(30,2,8762781)
20040301	Secondary road, special traffic figure, non toll		Pen(30,2,8762781)
20040311	Secondary road, special traffic figure, toll		Pen(30,2,8762781)
20040400	Secondary road, part of a slip road, non toll		Pen(30,2,8762781)
20040401	Secondary road, part of an enclosed traffic area, non toll		Pen(30,2,8762781)
20040410	Secondary road, part of a slip road, toll		Pen(30,2,8762781)
20040500	Secondary road, part of a service road, non toll		Pen(30,2,8762781)
20040600	Secondary road, entrance to or exit from a car park, non toll		Pen(30,2,8762781)
20040610	Secondary road, entrance to or exit from a car park, toll		Pen(30,2,8762781)
20040700	Secondary road, part of a pedestrian zone, non toll		Pen (1, 4, 14401683)
20050100	Local/connecting road, part of a multi-carriageway not a motorway, non toll		Pen(30,130,14401683)



miCode	Features	Graphic Object Details	
20050110	Local/connecting road, part of a multi-carriageway not a motorway, toll		Pen(30,130,14401683)
20050200	Local/connecting road, single carriageway, non toll		Pen(30,130,14401683)
20050210	Local/connecting road, single carriageway, toll		Pen(30,130,14401683)
20050300	Local/connecting road, part of a roundabout, non toll		Pen(30,130,14401683)
20050301	Local/connecting road, special traffic figure, non toll		Pen(30,130,14401683)
20050310	Local/connecting road, part of a roundabout, toll		Pen(30,130,14401683)
20050400	Local/connecting road, part of a slip road, non toll		Pen(30,130,14401683)
20050401	Local/connecting road, part of an enclosed traffic area, non toll		Pen(30,130,14401683)
20050410	Local/connecting road, part of a slip road, toll		Pen(30,130,14401683)
20050500	Local/connecting road, part of a service road, non toll		Pen(30,130,14401683)
20050510	Local/connecting road, part of a service road, toll		Pen(30,130,14401683)
20050600	Local/connecting road, entrance to or exit from a car park, non toll		Pen(30,130,14401683)
20050700	Local/connecting road, part of a pedestrian zone, non toll		Pen(1,4,14401683)
20060100	Local road/high importance, part of a multi-carriageway not a motorway, non toll		Pen(1,2,14401683)
20060110	Local road/high importance, part of a multi-carriageway not a motorway, toll		Pen(1,2,14401683)

## Data Descriptions

miCode	Features	Graphic Object Details	
20060200	Local road/high importance, single carriageway, non toll		Pen(1,2,14401683)
20060210	Local road/high importance, single carriageway, toll		Pen(1,2,14401683)
20060300	Local road/high importance, part of a roundabout, non toll		Pen(1,2,14401683)
20060301	Local road/high importance, special traffic figure, non toll		Pen(1,2,14401683)
20060400	Local road/high importance, part of a slip road, non toll		Pen(1,2,14401683)
20060401	Local road/high importance, part of an enclosed traffic area, non toll		Pen(1,2,14401683)
20060410	Local road/high importance, part of a slip road, toll		Pen(1,2,14401683)
20060500	Local road/high importance, part of a service road, non toll		Pen(1,2,14401683)
20060600	Local road/high importance, entrance to or exit from a car park, non toll		Pen(1,2,14401683)
20060700	Local road/high importance, part of a pedestrian zone, non toll		Pen(1,4,14401683)
20070100	Local road, part of a multi-carriageway not a motorway, non toll		Pen(1,2,14401683)
20070110	Local road, part of a multi-carriageway not a motorway, toll		Pen(1,2,14401683)
20070200	Local road, single carriageway, non toll		Pen(1,2,14401683)
20070210	Local road, single carriageway, toll		Pen(1,2,14401683)
20070300	Local road, part of a roundabout, non toll		Pen(1,2,14401683)

miCode	Features	Graphic Object Details	
20070301	Local road, special traffic figure, non toll		Pen(1,2,14401683)
20070311	Local road, special traffic figure, toll		Pen(1,2,14401683)
20070400	Local road, part of a slip road, non toll		Pen(1,2,14401683)
20070401	Local road, part of an enclosed traffic area, non toll		Pen(1,2,14401683)
20070410	Local road, part of a slip road, toll		Pen(1,2,14401683)
20070500	Local road, part of a service road, non toll		Pen(1,2,14401683)
20070500	Local road, road for authorities, non toll		Pen(1,2,14401683)
20070510	Local road, part of a service road, toll		Pen(1,2,14401683)
20070600	Local road, entrance to or exit from a car park, non toll		Pen(1,2,14401683)
20070610	Local road/minor importance, entrance to or exit from a car park, toll		Pen(1,2,14401683)

**Table Structure**

Field	Description	Type (width)	Indexed
<i>Road No</i> ‡	Road number	Character (15)	Yes
<i>Alt_Road_No</i>	Alternative road number	Character (50)	No
<i>E_Road_No</i>	European road number	Character (15)	No
<i>Road_Name</i> ‡‡	Road name	Character (100)	Yes
<i>Road_Nm_Lng</i>	Language of road name or "UND" for undefined	Character (3)	No
<i>Alt_Road_Nm</i>	Alternative road name	Character (100)	No
<i>Alt_Nm_Lng</i>	Language of alternative road name or "UND" for undefined	Character (3)	No
<i>micode</i>	MapInfo global feature code	Integer	No

‡ Label field for street layers 1–2; ‡‡Label field for street layers 2–6.


**Urban Areas**

**Vietu.\***

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

*Not available in this region*

**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 (100)	Yes
<i>Name_Lng</i>	Language of urban area name or "UND" for undefined	Character (3)	No
<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 (16)	Yes

## Water Feature Layers

## Vietw.\* and Vietwm.\*

### Water

Vietw.\*




The Water Features table contains region objects and lines that represent water bodies such as lakes, rivers, and canals.

### Water Major

Vietwm.\*

The Water Features Major table is for small scale use. It contains water features based upon a scale of 1:2,500,000 and smaller.

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
30030100	Water feature, lake		Brush(2,11130623,16777215) Pen(1,2,11130623)
30040100	Water feature, ocean or sea		Brush(2,11130623,16777215) Pen(1,2,11130623)
30050800	Water feature, undefined		Brush(2,11130623,16777215) Pen(1,2,11130623)

### Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of water feature	Character (100)	Yes
<i>Name_Lng</i>	Language of water feature name or "UND" for undefined	Character (3)	No
<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 (16)	Yes



# Opening a Workspace

## In this chapter:

- ◆ Workspaces .....48
- ◆ Opening a StreetPro International Workspace using MapInfo Professional ..... 48

This chapter covers workspaces and the opening of a StreetPro international 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



**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**.

## International Workspace

The international workspace provides a common set of display settings for all StreetPro countries.

## Local Workspace

Local workspaces have been designed to display maps in a cartographic style that is more particularly related to a group of countries or an individual country.

## Opening a StreetPro International 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**.  
**Note:** Open the \*\_int\_mipro115.wor file for the required country if you are using MapInfo Professional 11.5, or the \*\_int.wor file if you are using an earlier version of MapInfo Professional.
3. Once the workspace is displayed, as per the [International 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.



# Language Settings and Special Characters

This chapter covers information about language setting and displaying special characters in StreetPro using MapInfo Professional:

## In this chapter:

- ♦ [Displaying Special Characters in MapInfo Professional . . . . .](#)52

## Displaying Special Characters in MapInfo Professional

If you are using an edition of StreetPro for which the country character set is not Latin-1, you must 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 StreetPro 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 Software metadata exists in two forms:

- Metadata for the complete product is included in the StreetPro\_Viet Nam\_2014\_04.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 Software 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.

## Understanding Metadata

---

- **Data Description:** product name and version.
- **Extent:** north and south bounding latitudes, east and west bounding longitudes.
- **Resource Constraints:** The Pitney Bowes Software 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.

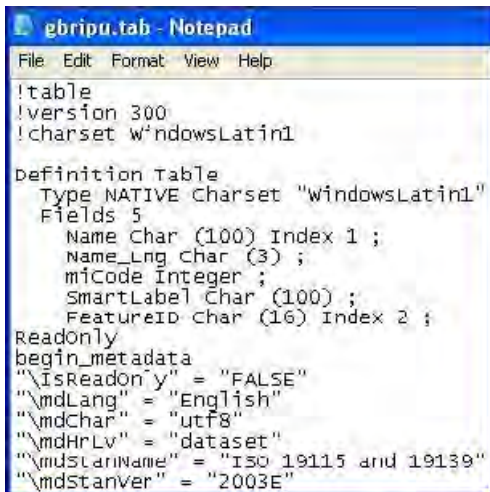
## Viewing Metadata

### 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 StreetPro product. The additional tables included are -

- Language Table (LNG.\*)
- micodemaster Table (micodemaster.\*)
- Viet Nam Gazetteer Full Table (vietGF.\*)
- Viet Nam Postcodes Boundary Table (vietPC.\*)
- Viet Nam Postcodes Points Table (vietPCP.\*)
- Viet Nam Postcodes Boundaries and Commune Index Table (VietPC\_COMMUNE\_INDEX.\*)

## Language Table

(LNG.\*)

The languages that are used in StreetPro with their abbreviations are included in the file LNG\*.

### Table Structure

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

## micodemaster Table

(micodemaster.\*)

StreetPro releases to date have incorporated feature type coding that is consistent but not necessarily related to a recognised standard. Pitney Bowes Software Pty Ltd, 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.

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

## Gazetteer Full

**Vietgf.\***

For analysis purposes, the full gazetteer table (vietgf.\*), consolidating all the gazetteer layers, is included in the Extra 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)
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)	No
<i>Name_Lng</i>	Language of settlement name or "UND" for undefined	Character (3)	No
<i>IndexName</i>	Name of settlement tagged with admin boundary	Character (150)	Yes
<i>Alt_Name</i>	Alternative name of settlement	Character (100)	No
<i>Alt_Nm_Lng</i>	Language of alternative name of settlement or "UND" for undefined	Character (3)	No
<i>Category</i>	Population category code	Character (3)	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 (16)	Yes


## Postcode Boundary

## Vietpc.\*

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

*Not available in this region*

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
-	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>Province</i>	Admin level 1	Character (40)	No


Field	Description	Type (width)	Indexed
<i>Commune</i>	Admin level 3	Character (40)	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (16)	No

## Postcode Points

## Vietpcp.\*

The Postcodes Point layer contains the locations of local post offices in Viet Nam. There are occurrences of multiple post offices being assigned the same postcode values.

### micode and Display Characteristics

miCode	Features	Graphic Object Details	
10240500	Post office		Symbol (34,128,10, "MapInfo 3.0 Compatible",0,0)

### Table Structure

Field	Description	Type (width)	Indexed
<i>Name</i>	Name of post office	Character (200)	Yes
<i>Name_Lng</i>	Language of post office name or "UND" for undefined	Character (3)	No
<i>Postcode</i>	Postcode value	Character (5)	No
<i>micode</i>	MapInfo global feature code	Integer	No
<i>FeatureID</i>	Unique feature identifier within this country	Character (16)	Yes

## Postcode and Commune Index Table VietPC\_COMMUNE\_INDEX.\*

The multiple Postcodes Point s are being assigned the same postcode values. Postcode points have been tagged with lower admin boundary (Commune) to segregate multiple post offices with same postcode value to create VietPC\_COMMUNE\_INDEX.\* table.

*Not available in this region*

**Table Structure**

<b>Field</b>	<b>Description</b>	<b>Type (width)</b>	<b>Indexed</b>
<i>POSTCODE</i>	Postcode value	Character (30)	Yes
<i>COMMUNE_INDEX</i>	Commune in which the post office lies	Character (100)	Yes

# Appendix C: Data Support and Feedback

Pitney Bowes Software Pty Ltd 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: [ozdata@mapinfo.com](mailto:ozdata@mapinfo.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 Business Insight, 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](mailto: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

**Send** 