



# MapInfo RouteFinder

2014

PRODUCT GUIDE

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# Introduction

Welcome to the product guide for MapInfo RouteFinder. This chapter provides an overview of the product, the documentation, and how to contact us.

Following [Chapter 2: Getting Started on page 8](#), the information relating to the product's file sets is given in [Chapter 3: Database Description on page 11](#), which will be of particular use if you have the Editable version of MapInfo RouteFinder.

The guide assumes that you are familiar with your MapInfo RouteFinder software. For information about MapInfo RouteFinder, consult the RouteFinder documentation set.

## In this chapter:

- ◆ [Overview . . . . .7](#)
- ◆ [Contacting Technical Support . . . . .7](#)
- ◆ [Data Vintage . . . . .7](#)

## Overview

MapInfo RouteFinder comprise digital road networks at a nominal 1:10 000 scale, with a link structure. The networks include motorways, principal highways, important regional and local roads, other roads and ferries.

Pitney Bowes Software has enhanced the networks by including the signposted travel speeds, weight limits (where available), and other road and area attributes for each road link. The networks were developed for use with MapInfo RouteFinder software.

## Contacting Technical Support

In the unlikely event that you encounter problems working with MapInfo RouteFinder, our technical support specialists can help - refer to [Further Information on page 4](#).

Technical support for RouteFinder includes referrals to documentation, assistance with error messages and suggestions for causes of error messages.

A Technical Support contract can be obtained through your sales representative.

## Data Vintage

Pitney Bowes Software Data Products explicitly show the 'vintage' of the source data in unambiguous terms. 'Vintage' refers to the currency of the data as of a specific date and does not correspond exactly to the time of product release, because of data-to-product production time, or reflect the actual ship date.

All product media, product documentation, and product metadata prominently display the data vintage using the following notation:

```
YYYY.MM { (Month Year) }
```

where:

YYYY is the four-digit year

MM is the data vintage's calendar month (01–12)

and optionally:

Month is the three character abbreviation of the month name

Year is the four-digit year

For current data vintage information, see the [Data Vintage Chart](#) on the product web site.

# Getting Started

This chapter explains the file names used, and provides you with instructions for installing the data.

## In this chapter:

- ♦ **File Names** .....9
- ♦ **Copying Files Onto Your System** .....10



## File Names

MapInfo RouteFinder includes the following file sets:

- **Links:** These MapInfo format-mappable file sets are used for network editing (provided that you have the Editable version of MapInfo RouteFinder).
- **Copying Files Onto Your System:** The MapInfo RouteFinder file set is built from the Links files and is used to calculate driving regions and routes.

**Note** In order to use the data correctly, you must have access to all of the files in the file set. All the files for each file set must be located in the same directory.

## Links

The Links file sets contain five different file types:

Filename		File Type
Standard Network	Premium Network	
xxx_links.DAT	xxx_links_pro.DAT	Data file
xxx_links.ID	xxx_links_pro.ID	Identification file
xxx_links.IND	xxx_links_pro.IND	Index file
xxx_links.MAP	xxx_links_pro.MAP	Map file
xxx_links.TAB	xxx_links_pro.TAB	Tabular file

In the above table, xxx represents the country / group three-letter code:

Three Letter Code	Country / Group	Three Letter Code	Country / Group
AUT	Austria	ITA	Italy, Vatican City, and San Marino
BEL	Belgium and Luxembourg	NLD	The Netherlands
CHE	Switzerland	NOR	Norway
DEU	Germany	SWE	Sweden
DNK	Denmark	FIN	Finland
FRA	France	GBR	United Kingdom
ESP	Spain, Andorra, and Gibralta	GBR_ITN	ITN network for the United Kingdom
AUS*	Australia	SGP	Singapore
MYS	Malaysia	CHN	China
JPN	Japan	NZL	New Zealand
CAN	Canada	USA*	United States of America

\* State networks are available for these countries.

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## Copying Files Onto Your System

The data is supplied on disk to ISO 9660 standard and must be copied to your hard drive. It is recommended that the data be installed into a data directory separate from any program or application directories. Make sure that you choose a disk with enough space.

**Note** Data copied will remain read-only unless the file attributes are reset. It has been compressed using WinZip compression software, and is supplied in a self-extracting executable file.

### To copy the files onto your system:

1. Place the disk into the appropriate drive.
2. Run Windows Explorer.
3. Double click on the drive icon to display the contents of the disk.
4. Open the **Data** Folder.
5. Double click on the self-extracting executable, **Data.exe**.
6. Use the **Browse** button in the dialog box that appears, in order to select the destination to which the data is to be extracte
7. Click **Unzip**.

# Database Description

This chapter describes the spatial referencing, display characteristics, and table structure, of the StreetPro database.

## In this chapter:

- ◆ [Spatial Referencing . . . . .12](#)
- ◆ [Display Characteristics and Table Structures . . . . .12](#)

## Spatial Referencing

The database for MapInfo RouteFinder uses, by default, the projection and coordinates given below:

<b>Coordinate System</b>	Longitude/Latitude(WGS84) Longitude/Latitude(GDA94) (Australia only)
<b>Coordinate Units</b>	Decimal Degrees
<b>Projection</b>	Longitude/Latitude

## Display Characteristics and Table Structures

### Links

The Links table contains road and ferry links.

#### Table Structure - Standard Network

Field	Description	Type (Width)	Indexed
Street1	Official Street name	Char(*)	No
Street2	Alternate Street name \ Official Street name in Local Language	Char(*)	No
Street3^	Alternate Street name 2 \ Official Street name in second Local Language	Char(*)	No
Street4^	Alternate Street name 3 \ Official Street name in third Local Language	Char(*)	No
Attribute	Routefinder Road Class value	Small Integer	No
Road_class	Road classification code (please refer to Road_class Specification table below)	Char(2)	No
Area_type	Code representing the Area type	Small Integer	No
FeatureID	Unique Feature Identifier	Char(14)	Yes
Speed	Speed limit for the segment	Integer	No
Start_Z	Value indicating the z-level at the start of the segment	Small Integer	No
End_Z	Value indicating the z-level at the end of the segment	Small Integer	No
Max_Height	Maximum Vehicle Height allowed along the segment	Small Integer	No

Field	Description	Type (Width)	Indexed
Max_Width	Maximum Vehicle Width allowed along the segment	Small Integer	No
Max_Weight	Maximum Vehicle Weight allowed along the segment	Small Integer	No

^ Country specific

### Table Structure - Premium Network

Field	Description	Type (Width)	Indexed
Street1	Official Street name	Char(*)	No
Street2	Alternate Street name \ Official Street name in Local Language	Char(*)	No
Street3^	Alternate Street name 2 \ Official Street name in second Local Language	Char(*)	No
Street4^	Alternate Street name 3 \ Official Street name in third Local Language	Char(*)	No
Attribute	Routefinder Road Class value	Small Integer	No
Road_class	Road classification code (please refer to Road_class Specification table below)	Char(2)	No
Area_type	Code representing the Area type	Small Integer	No
FeatureID	Unique Feature Identifier	Char(14)	Yes
Speed	Speed limit for the segment	Integer	No
Speed_AMPeak*	Average speed along segment during AM Peak times	Integer	No
Speed_PMPeak*	Average speed along segment during PM Peak times	Integer	No
Speed_OFT*	Speed value during the Office of Fair Trading preferred time	Integer	No
Speed_InterPeak*	Time between end of AM peak and beginning of PM peak	Integer	No
Speed_NightTime*	Average speed for Night	Integer	No
Start_Z	Value indicating the z-level at the start of the segment	Small Integer	No

Field	Description	Type (Width)	Indexed
End_Z	Value indicating the z-level at the end of the segment	Small Integer	No
Max_Height	Maximum Vehicle Height allowed along the segment	Small Integer	No
Max_Width	Maximum Vehicle Width allowed along the segment	Small Integer	No
Max_Weight	Maximum Vehicle Weight allowed along the segment	Small Integer	No

^ Country specific

\* Speed Profile data, all fields may not be available

The value quoted in the Speed column is derived differently depending on the Country and the source data provider. For any country built from the TomTom source data, the Speed value is the same as the value quoted in the source data. For New Zealand and Japan, the Speed value is equal to the sign-posted speed limit along the segment. For Australia, the Speed value is a combination of sign-posted speed limits and modelled speeds (based on data captured during field verification). For other countries, the Speed value is a modelled speed.

### Area Type Classification

There are different Area\_Type classifications used globally and the table below details the Area Type values that are available within the networks and the classifications they represent.













Code	Description
<b>TomTom Source Data</b>	
0	Area classed as Rural or
1	Area classed as Urban
<b>Partner Source Data</b>	
1	Area classed as Dense Urban \ Central Business District
2	Area classed as Urban
3	Area classed as Rural Urban
4	Area classed as Rural

## Road\_class Classifications

Similar to the Area\_Type, there is different Road\_class classifications dependant on the source data used to build the network. The tables below details the Road\_class codes, the Features that the codes represent, and the graphic object details.













### Display Characteristics

The first table is for networks built using the TomTom source data.





Feature	Road Classification	Graphic Object Details	
Motorway	M (non-toll), N (toll)		Red, medium polyline Pen (3,2,16711680)
Major Road	I (non-toll), G (toll)		Red, medium polyline Pen (3,2,16711680)
Other Major Road	P (non-toll), Q (toll)		Red polyline Pen (2,2,16711680)
Secondary Road	S (non-toll), T (toll)		Dark yellow polyline Pen (2,2,15790080)
Local Connecting Road	C (non-toll), F (toll)		Saddle polyline Pen(30,130,14401683)
Local (Important) Road	L (non-toll), W (toll)		Saddle polyline Pen(30,130,14401683)
Local Road	D (non-toll), E (toll)		Saddle polyline Pen(30,130,14401683)
Local (Minor) Road	R (non-toll), A (toll)		Saddle polyline Pen(30,130,14401683)
Other Road	U (non-toll), V (toll)		Saddle polyline Pen(30,130,14401683)
Limited Access/Private Road	Z		Pen (1,5,16744448)
Ferry	H		Blue, dashed polyline Pen (1,9,255)
Pedestrian	Å		Pen (1,5,16744448)

## Display Characteristics and Table Structures

The second table is for networks built using source data from Data Partners.

Feature	Road Classification	Graphic Object Details	
Motorway	A (non-toll), B (toll)	Standard   Tunnel 	Pen (40,130,13777980) Pen (1,68,1377980) (Tunnel)
Highway	C (non-toll), D (toll)	Standard   Tunnel 	Pen (40,130,7116418) Pen (1,68,7116418) (Tunnel)
Main Road	G (non-toll), H (toll)	Standard   Tunnel 	Pen (30,130,8762781) Pen (1,68,8762781) (Tunnel)
Connector Road	I (non-toll), J (toll)	Standard   Tunnel 	Pen (30,130,14401683) Pen (1,68,15518117) (Tunnel)
Local Road	K (non-toll), L (toll)	Standard   Tunnel 	Pen (1,2,14401683) Pen (1,68,15518117) (Tunnel)
Minor Road	M	Standard 	Pen (1,5,16744448)
Four Wheel Drive Track	N	Standard 	Pen (1,12,14401683)



Feature	Road Classification	Graphic Object Details	
Limited Access	E	Standard 	Pen (1,2,14401683)
Restricted Access	PR	Standard 	Pen (1,2,14401683)
Intersection Construction Line	X	Standard	Invisible unless selected – Pen (1,1,0)
Passenger Ferry	Q	Standard	Pen (1,9,255)
Vehicle Ferry	F		
Pedestrian	P	Standard 	Pen (1,3,14401683)



# Notes

## Opening Multiple RouteFinder Networks

It is not possible to open more than one MapInfo RouteFinder network at a time.

## Maximum Height, Weight, and Width

Maximum limits for vehicle height, weight, and width can be specified for each link using the relevant fields within the network. A value of zero in these fields equates to No Limit specified. The maximum values that can be set are 25m for both Height and Width, and 100 tonnes for Weight. The limits for the Height, Weight, and Width can be set to 0.1 of the respective unit.

The values displayed in these fields will be the limit multiplied by 10. For example, if the segment has a Height limit of 3.2m, the value displayed in the Height\_limit field will be 32.