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MI RouteFinder Networks Premium

Product Guide

Version 2020.06.0



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1 - Introduction

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Overview

MI RouteFinder Networks Premium consists of digital road networks with a link structure, at a nominal 1:10,000 scale. The network includes motorways, principal highways, important regional and local roads, other roads, and ferries. Enhancements include signposted travel speeds along with premium navigational information that adds the ability to calculate a precise, efficient routes that take average speed profiles, vehicle dimensions, and weight restrictions into account for road segments for which this information is available. The networks developed are compatible with the MapInfo RouteFinder v6 software.

Note: MI Routefinder Networks Standard product has now been discontinued.

Compatibility

The networks included in this release are compatible with MapInfo RouteFinder v6 software. Users of MapInfo RouteFinder v5 software can use the Create Network functionality of the app with this dataset, and the network will then be compatible with MapInfo RouteFinder v5 software as well.

2 - Getting Started

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Installing MI RouteFinder Networks Premium

MI RouteFinder Networks Premium products are released in the form of compressed files named as: **RF_V#_MMYYYY_XXX_PREM_NETWORK.zip** where:

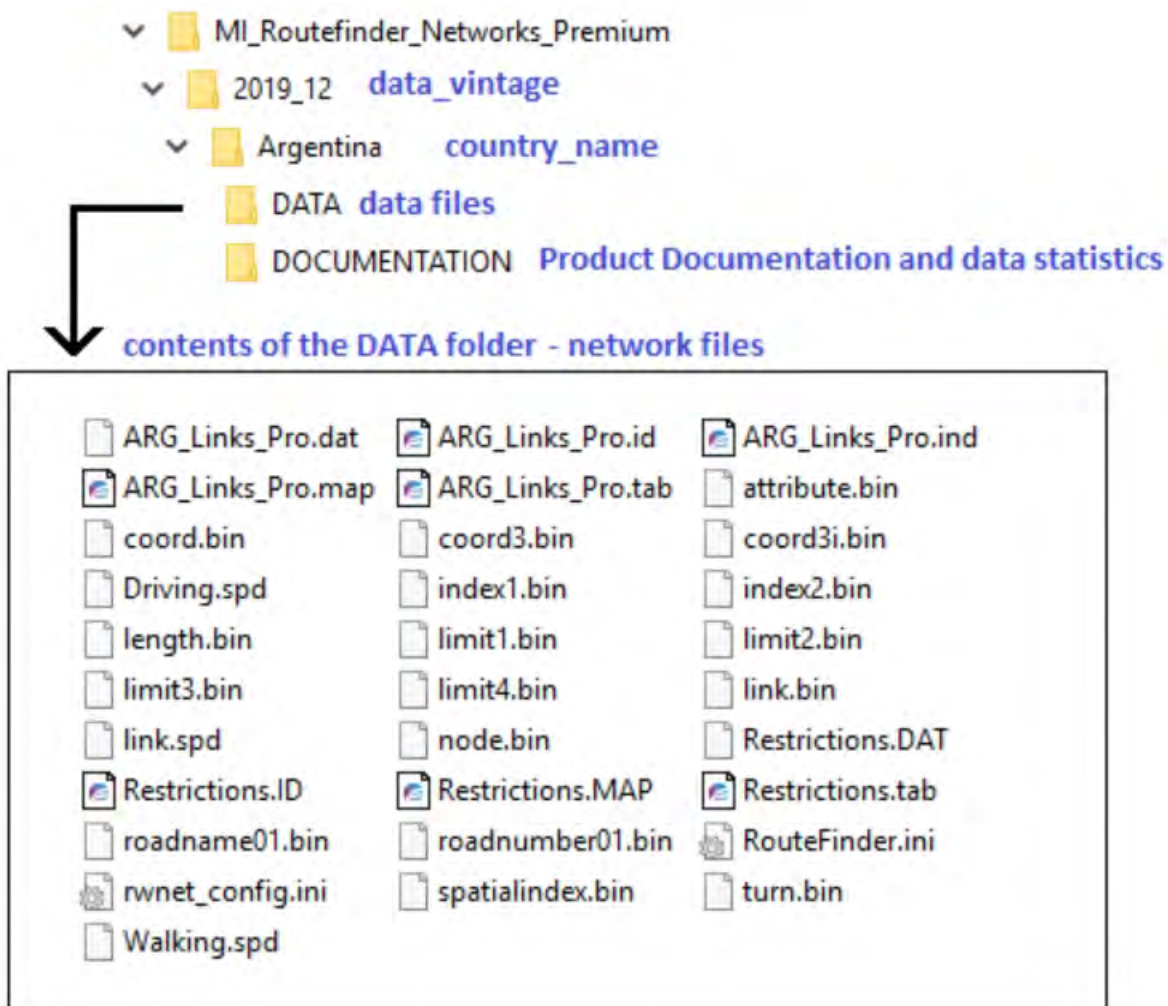
RF represents RouteFinder

V# represents the lowest version of the Routefinder application that supports this data. e.g. v6

XXX represents the ISO3 country code

MMYYYY indicates the product vintage month and year.

The product can be simply installed by uncompressing these **.zip** files on to a directory of your computer. The following image illustrates the typical contents of the uncompressed folder:



File Names

MI RouteFinder Networks Premium includes the following file sets:

- Links: These MapInfo format-mappable sets are used for network editing and display.
- Other essential files (.bin, .spd and .ini files): These files are all required for the successful running of the software with a network.

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:

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

Note: State or Province level products, wherever available, are named with state or province codes included in the file names. Such product bundles are named as **RF_V#_MMYYYY_XX_XX_PREM_NETWORK.zip** where **XX** is the 2 letter ISO code of the state/province. E.g. the product bundle for the Ohio (**OH**) state of the United States of America (**USA**) is named as **RF_V6_062020_USA_OH_PREM_NETWORK.zip** and the network files are named as **USA_OH_Links_Pro.tab** and so on. Presently, state or province level products are only offered for USA and Canada, on demand.

3 - Database Description

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Spatial Referencing

The database for MI RouteFinder Networks Premium uses the following default coordinates and projection:

Coordinate System	Longitude/Latitude(GDA94) - for Australia only Longitude/Latitude(WGS84) - for rest of the world
Coordinate Units	Decimal Degrees
Projection	GDA94 - for Australia only WGS84 - for rest of the world

Display Characteristics and Table Structures

Links

The Links table contains roads and ferries links.

Premium Networks

Table 1: Premium Networks

Field Name	Data Type (Length)	Index	Description
Street1	Char(*)	-	Official street name
Street2	Char(*)	-	Alternate street name or official street name in local language.
Street3^	Char(*)	-	Alternate street name 2 or official street name in second local language.
Street4^	Char(*)	-	Alternate street name 3 or official street name in second local language.
Attribute	Small Integer	-	Routefinder road class value
Avoid	Small Integer	-	Sum of Avoid1-Avoid8 values.
Road_Class	Char(2)	-	Road classification code (refer to Road_Class Specification table below)
Area_Type	Small Integer	-	Code representing the Area_Type (refer to Area_Type classification table below)
FeatureID	Char(36)	Yes	Unique feature identifier
Speed	Integer	-	Segment speed limit

Field Name	Data Type (Length)	Index	Description
Speed_AMPeak	Decimal(15,2)	-	Average segment speed during peak AM time.
Speed_PMPeak	Decimal(15,2)	-	Average segment speed during peak PM time.
Speed_InterPeak	Decimal(15,2)	-	Speed between end of AM Peak and beginning of PM Peak
Speed_Night	Decimal(15,2)	-	Average speed for night
Speed_SevenDay	Decimal(15,2)	-	Average speed over complete week
Start_Z	Small Integer	-	Value indicating the z-level at the start of the segment
End_Z	Small Integer	-	Value indicating the z-level at the end of the segment
Max_Height^^	Small Integer	-	Maximum vehicle height allowed along the segment
Max_Width^^	Small Integer	-	Maximum vehicle width allowed along the segment
Max_Weight^^	Small Integer	-	Maximum vehicle weight allowed along the segment
Avoid1	Small Integer	-	Pedestrian values only (1)
Avoid2	Small Integer	-	Vehicle values only (2)
Avoid3	Small Integer	-	Toll Roads values only (4)
Avoid4	Small Integer	-	Motorways values only (8)
Avoid5	Small Integer	-	Ferries values only (16)
Avoid6	Small Integer	-	Tunnel values only (32)
Avoid7	Small Integer	-	Four Wheel Drive (4WD) values only (64)
Avoid8	Small Integer	-	Bridges values only (128)

Note:

- The lengths of the street-name fields (Street1, Street2, Street3 and Street4) depend upon the longest street-name in the country. This varies from one country to another and hence the “Data Type (Length)” has been mentioned as “Char(*)” for these fields. For most cases this value is Char(70).
- Fields marked with “^” are country specific. Values and field lengths may vary from country to country.
- Fields marked with “^^” contain the Commercial Vehicle Restrictions (Logistics) data and are included for all the countries for which the relevant source data is available from data vendors.
- Table structure may vary from country to country due to extra reference fields. Core fields, listed above, are always included in the datasets.

The value quoted in the **Speed** column is derived differently for different country datasets. For New Zealand, the **Speed** value is equal to the sign-posted speed limit as available in the source data. For Australia, the **Speed** value is a combination of sign-posted speed limits in the source data and modeled speeds (based on data captured during field verification). For all other countries, the **Speed** value is a combination of sign-posted speed limits in the source data and modeled speeds (based on various attributes of the road and it’s neighborhood).

Area_Type Classification








Different **Area_Type** classifications are used globally. The following table lists values and describes the classifications these values represent:







Code	Description
Australia	
1	Area classified as Dense Urban\Central Business District
2	Area classified as Urban
3	Area classified as Rural Urban
4	Area classified as Rural
New Zealand	
2	Area classified as Urban
4	Area classified as Rural
All other countries	
0	Area classified as Rural
1	Area classified as Urban

Road Class Classification




The tables below list the road classification codes for various countries, describe the features these codes represent, and also show graphic object details.










Display Characteristics - Australia and New Zealand

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)

Feature	Road Classification	Graphic Object Details	
Minor Road	M	Standard 	Pen (1,5,16744448)
Four Wheel Drive Track	N	Standard 	Pen (1,12,14401683)
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)

Display Characteristics - Rest of the world

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)

Feature	Road Classification	Graphic Object Details	
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	Z		Pen (1,5,16744448)

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Appendix A - Notes

Opening Multiple RouteFinder networks

It is not possible to open more than one RouteFinder networks 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 a limit is not specified. The maximum values that can be set are 25m for both Height and Width, and 100 tons for Weight.

Height restrictions are defined in tenths of a meter in 0.1 steps (i.e 73 = 7.3 meters) Width restrictions are defined in tenths of a meter in 0.1 steps (i.e 52 = 5.2 meters) Weight restrictions are defined in half - ton steps (i.e 19 = 9.5 tons).

Appendix B - Coverage

The MI Routefinder Networks Premium product is provided for the following countries/regions:

Country	Abbreviation
Albania	ALB
Argentina	ARG
Australia	AUS
Austria	AUT
Bahamas	BHS
Bahrain	BHR
Belarus	BLR
Belgium & Luxembourg	BEL

Country	Abbreviation
Bermuda	BMU
Bosnia and Herzegovina	BIH
Brazil	BRA
British Isles (Great Britain, Ireland and Northern Ireland)	BRIT_ISLE
Bulgaria	BGR
Canada	CAN
Chile	CHL
China	CHN
Croatia	HRV
Cuba	CUB
Czech Republic	CZE
Democratic Republic of Congo	COD
Denmark	DNK
Egypt	EGY
Estonia	EST
Finland	FIN
France	FRA
Germany	DEU
Ghana	GHA
Greece	GRC

Country	Abbreviation
Hong Kong	HKG
Hungary	HUN
India (International)	IND
India (Domestic)	INI
Indonesia	IDN
Ireland	IRL
Ireland and Northern Ireland	EIRE_NI
Israel	ISR
Italy, Vatican City and San Marino	ITA
Japan	JPN
Jordan	JOR
Kenya	KEN
Kosovo	RKS
Kuwait	KWT
Latvia	LVA
Lesotho	LSO
Lithuania	LTU
Macau	MAC
Malaysia	MYS
Malta	MLT

Country	Abbreviation
Mexico	MEX
Moldova	MDA
Morocco	MAR
Mozambique	MOZ
New Zealand	NZL
Nigeria	NGA
Norway	NOR
Oman	OMN
Philippines	PHL
Poland	POL
Portugal	POR
Qatar	QAT
Romania	ROU
Russia	RUS
Saudi Arabia	SAU
Serbia	SRB
Singapore	SGP
Slovakia	SVK
Slovenia	SVN
South Africa	ZAF

Country	Abbreviation
Spain, Andorra and Gibraltar	ESP
Sweden	SWE
Switzerland & Liechtenstein	CHE
Taiwan	TWN
Tanzania	TZA
Thailand	THA
The Netherlands	NLD
Turkey	TUR
Ukraine	UKR
United Arab Emirates	UAE
United Kingdom	GBR
United States of America	USA
Vietnam	VNM

Note: Presently, state or province level products are only offered for USA and Canada, on demand.

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Notices

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