

# MI Route Finder Networks

Version 2019.06.0

# Release Notes

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## Overview

This document outlines what's new in the datasets, the data statistics, and the known issues, if any, for the current data release. For the latest product features and other details, see the Route Finder Product Guide, which is available at:

<http://www.pbinsight.com/support/product-documentation/details/routefinder>

## Product Variants

**MI RouteFinder Networks** suite consists of two variants:

### *MI RouteFinder Networks Standard*

It comprises of digital road networks at a nominal 1:10000 scale, with a link structure. The networks include motorways, principal highways, important regional and local roads, other roads and ferries. The networks have been further enhanced by including signposted travel speeds (where available).

### *MI RouteFinder Networks Premium*

It combines all the features of the MI RouteFinder Networks Standard product along with premium navigational information that adds the ability to calculate the most precise, efficient route taking average speed profiles for the time of day and vehicle height, width, and weight restrictions into account (where available).

**Note:** These networks have been developed for use with MapInfo RouteFinder V5 (or higher) software.

For more information, please refer to the product guide available here:

<http://www.pbinsight.com/support/product-documentation/details/routefinder>

For more information on other Pitney Bowes Streets and Routing data offerings, please visit:

<https://www.pitneybowes.com/us/data/street-data.html>

## What's New

This data refresh includes the following key updates in addition to the updated statistics mentioned in the [Product Metrics](#) chapter below:

### Austria

- House Number Ranges were updated for 3076 km of road geometry.
- Approximately 650 km of new roads have been added across the country.
- Approximately 975 traffic restrictions have been updated.

### Belgium

- Approximately 180 km of new roads have been added across the country.
- Approximately 680 traffic restrictions have been updated.
- Speed Restriction updates for almost 13000 km of roads; mainly for two highest Net 2 Classes.

### Brazil

- Updated House Number Ranges on 14511 km of streets using Address Points to calibrate these ranges.
- Updated Street Names on 863 km of roads to match newly seeded Address Points.
- Street Names updated for 41298 km of road geometry based on official sources.
- Updated 817 km of House Numbers based on official sources.

### Canada

- Ordinance U-turn restrictions have been implemented on dual carriageways for the whole country. This has led to the addition of 12686 implicit turn restrictions to prevent U-turns in 73 counties and cities.
- More than 500 traffic restrictions have been updated (ordinance U-turns not included).
- To reflect the real-world situation, 23593 km of coastline has been updated.
- Updated House Number Ranges on 30638 km of streets using Address Points to calibrate these ranges.
- Street Names updated for 599 km of road geometry.

### Singapore

- More than 120 restrictions have been updated.

### Switzerland

- House Number Ranges were updated for 4881 km of road geometry.
- Approximately 2600 km of new roads have been added across the country.
- Approximately 560 traffic restrictions have been updated.

### **Thailand**

- To reflect the real-world situation, the last 135 km of coastline has been updated.
- Around 350 traffic restrictions have been updated.

### **USA**

- Ordinance U-turn restrictions have been implemented on dual carriageways for the whole country: 8 state-wide ordinances and 220 county ordinances have been implemented, resulting in the addition of 54856 implicit turn restrictions in 367 cities and counties to prevent U-turns.
- More than 8500 traffic restrictions have been updated (ordinance U-turns not included).
- Approximately 38000 km of extra road geometry has been added: mainly local roads and parking geometry, but also 187 changed or new high-road-class roads.
- Updated House Number Ranges on 471229 km of streets in the USA using Address Points to calibrate these ranges.
- Street Names updated for 34670 km of road geometry.

## Known Issues

There are no known issues in the data for the current release.

# Product Metrics

## Overview

This section provides the key statistics related to the feature counts and street length for all the countries covered in this release.

**Note:** The MAX\_HEIGHT, MAX\_WEIGHT and MAX\_WIDTH attributes are only available with the Premium variant of the product.

## Austria

### Streets Feature Count Table

Value/Description	Feature Counts 2019.06.0
MAX_HEIGHT - Street objects with restrictions on Maximum Vehicle Height	8314
MAX_WIDTH - Street objects with restrictions on Maximum Vehicle Width	831
MAX_WEIGHT - Street objects with restrictions on Maximum Vehicle Weight	46611

### Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>264532.47</b>
A	Local (minor) road, toll	1476.15
C	Local connecting road, non-toll	35739.57

Road Class	Description	Street Length 2019.06.0 (in km)
D	Local road , non-toll	17155.88
E	Local road, toll	8.51
F	Local connecting road, toll	102.70
G	Major road, toll	41.14
H	Ferry	13.13
I	Major road, non-toll	1543.85
L	Local (important) road, non-toll	1462.59
M	Motorway, non-toll	3959.44
N	Motorway, toll	224.35
P	Other major road, non-toll	7735.19
Q	Other major road, toll	14.80
R	Local (minor) road, non-toll	156841.70
S	Secondary road, non-toll	6313.92
T	Secondary road, toll	64.60
U	Other road, non-toll	18.87
W	Local (important) road, toll	0.10
Z	Pedestrian	31815.96

## Belgium

## Streets Feature Count Table

Value/Description	Feature Counts 2019.06.0
MAX_HEIGHT - Street objects with restrictions on Maximum Vehicle Height	4420
MAX_WIDTH - Street objects with restrictions on Maximum Vehicle Width	656
MAX_WEIGHT - Street objects with restrictions on Maximum Vehicle Weight	50672

## Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>148152.36</b>
A	Local (minor) road, toll	0.41
C	Local connecting road, non-toll	19825
D	Local road , non-toll	34013.09
F	Local connecting road, toll	1.15
H	Ferry	11.54
I	Major road, non-toll	1212.15
L	Local (important) road, non-toll	2503.88
M	Motorway, non-toll	3997.47
N	Motorway, toll	8.15

Road Class	Description	Street Length 2019.06.0 (in km)
P	Other major road, non-toll	6544.44
R	Local (minor) road, non-toll	60023.51
S	Secondary road, non-toll	7420.34
T	Secondary road, toll	0.83
U	Other road, non-toll	57.16
Z	Pedestrian	12533.22

## Brazil

### Streets Feature Count Table

Value/Description	Feature Counts 2019.06.0
MAX_HEIGHT - Street objects with restrictions on Maximum Vehicle Height	35191
MAX_WIDTH - Street objects with restrictions on Maximum Vehicle Width	1711
MAX_WEIGHT - Street objects with restrictions on Maximum Vehicle Weight	6148

### Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>2570700</b>
A	Local (minor) road, toll	271.45



Road Class	Description	Street Length 2019.06.0 (in km)
C	Local connecting road, non-toll	233460.40
D	Local road , non-toll	738169.80
E	Local road, toll	137.07
F	Local connecting road, toll	177.11
G	Major road, toll	2205.82
H	Ferry	14404.76
I	Major road, non-toll	51968.74
L	Local (important) road, non-toll	34056.67
M	Motorway, non-toll	500.80
N	Motorway, toll	374.99
P	Other major road, non-toll	46715.50
Q	Other major road, toll	432.21
R	Local (minor) road, non-toll	1352260
S	Secondary road, non-toll	88797.82
T	Secondary road, toll	208.07
U	Other road, non-toll	4.63
W	Local (important) road, toll	7.35
Z	Pedestrian	6546.59

## Canada

## Streets Feature Count Table

Value/Description	Feature Counts 2019.06.0
MAX_HEIGHT - Street objects with restrictions on Maximum Vehicle Height	27138
MAX_WIDTH - Street objects with restrictions on Maximum Vehicle Width	87
MAX_WEIGHT - Street objects with restrictions on Maximum Vehicle Weight	819601

## Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>1709208837</b>
A	Local (minor) road, toll	20218.30
C	Local connecting road, non-toll	66430098.60
D	Local road , non-toll	511434550.50
E	Local road, toll	16088.10
F	Local connecting road, toll	123999.30
G	Major road, toll	25935.20
H	Ferry	5840899.40
I	Major road, non-toll	19874619.30
L	Local (important) road, non-toll	72228995.20

Road Class	Description	Street Length 2019.06.0 (in km)
M	Motorway, non-toll	13327601
N	Motorway, toll	483945.60
P	Other major road, non-toll	22869898.20
Q	Other major road, toll	21902.10
R	Local (minor) road, non-toll	659781171.70
S	Secondary road, non-toll	46547314.40
T	Secondary road, toll	28683.80
U	Other road, non-toll	5380.70
W	Local (important) road, toll	9928.10
Z	Pedestrian	290137607.10

## Norway

### Streets Feature Count Table

Value/Description	Feature Counts 2019.06.0
MAX_HEIGHT - Street objects with restrictions on Maximum Vehicle Height	16379
MAX_WIDTH - Street objects with restrictions on Maximum Vehicle Width	1255
MAX_WEIGHT - Street objects with restrictions on Maximum Vehicle Weight	1737197

## Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>261355.2896</b>
A	Local (minor) road, toll	712.64
C	Local connecting road, non-toll	24603.80
D	Local road , non-toll	6348.11
E	Local road, toll	102.87
F	Local connecting road, toll	98.76
G	Major road, toll	149.88
H	Ferry	3490.85
I	Major road, non-toll	5744.60
L	Local (important) road, non-toll	347.80
M	Motorway, non-toll	766.81
N	Motorway, toll	239.03
P	Other major road, non-toll	10005.35
Q	Other major road, toll	90.26
R	Local (minor) road, non-toll	169103.10
S	Secondary road, non-toll	10283.52
T	Secondary road, toll	74.76
U	Other road, non-toll	0.06

Road Class	Description	Street Length 2019.06.0 (in km)
W	Local (important) road, toll	26.80
Z	Pedestrian	29166.22

## Singapore

**Note:** The MAX\_HEIGHT, MAX\_WIDTH and MAX\_WEIGHT information is not available for Singapore.

### Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>2570699.79</b>
A	Local (minor) road, toll	271.45
C	Local connecting road, non-toll	233460.40
D	Local road , non-toll	738169.80
E	Local road, toll	137.07
F	Local connecting road, toll	177.10
G	Major road, toll	2205.82
H	Ferry	14404.76
I	Major road, non-toll	51968.74
L	Local (important) road, non-toll	34056.67

Road Class	Description	Street Length 2019.06.0 (in km)
M	Motorway, non-toll	500.80
N	Motorway, toll	374.99
P	Other major road, non-toll	46715.50
Q	Other major road, toll	432.21
R	Local (minor) road, non-toll	1352260
S	Secondary road, non-toll	88797.82
T	Secondary road, toll	208.07
U	Other road, non-toll	4.62
W	Local (important) road, toll	7.35
Z	Pedestrian	6546.59

## Switzerland

### Streets Feature Count Table

Value/Description	Feature Counts 2019.06.0
MAX_HEIGHT - Street objects with restrictions on Maximum Vehicle Height	3122
MAX_WIDTH - Street objects with restrictions on Maximum Vehicle Width	1255
MAX_WEIGHT - Street objects with restrictions on Maximum Vehicle Weight	11295

## Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>120998.45</b>
A	Local (minor) road, toll	6.31
C	Local connecting road, non-toll	17830.38
D	Local road , non-toll	7196.79
F	Local connecting road, toll	4.11
G	Major road, toll	4.62
H	Ferry	174.81
I	Major road, non-toll	685.93
L	Local (important) road, non-toll	494.53
M	Motorway, non-toll	3333.24
P	Other major road, non-toll	5008.26
R	Local (minor) road, non-toll	75143.40
S	Secondary road, non-toll	3017.46
U	Other road, non-toll	17.13
Z	Pedestrian	8081.46

## Thailand

**Note:** The MAX\_HEIGHT, MAX\_WIDTH and MAX\_WEIGHT information is not available for Singapore.

### Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>821947.5</b>
A	Local (minor) road, toll	8.26
C	Local connecting road, non-toll	34475.10
D	Local road, non-toll	71905.34
E	Local road, toll	2.69
F	Local connecting road, toll	46.16
G	Major road, toll	29.27
H	Ferry	1057.94
I	Major road, non-toll	7719.20
L	Local (important) road, non-toll	9543.25
M	Motorway, non-toll	195.68
N	Motorway, toll	770.54
P	Other major road, non-toll	22447.32
Q	Other major road, toll	123.50



Road Class	Description	Street Length 2019.06.0 (in km)
R	Local (minor) road, non-toll	666228.70
S	Secondary road, non-toll	5326.77
T	Secondary road, toll	37.38
U	Other road, non-toll	5.10
W	Local (important) road, toll	14.56
Z	Pedestrian	2010.68

## USA

## Streets Feature Count Table

Value/Description	Feature Counts 2019.06.0
MAX_HEIGHT - Street objects with restrictions on Maximum Vehicle Height	300,452
MAX_WIDTH - Street objects with restrictions on Maximum Vehicle Width	163,677
MAX_WEIGHT - Street objects with restrictions on Maximum Vehicle Weight	4,862,403

## Streets Length Table

Road Class	Description	Street Length 2019.06.0 (in km)
	<b>Total length of the network</b>	<b>11044089.99</b>
A	Local (minor) road, toll	528.18

Road Class	Description	Street Length 2019.06.0 (in km)
C	Local connecting road, non-toll	503270.76
D	Local road , non-toll	3818723.58
E	Local road, toll	178.50
F	Local connecting road, toll	1434.64
G	Major road, toll	4575.18
H	Ferry	12927.44
I	Major road, non-toll	41801.77
L	Local (important) road, non-toll	660763.45
M	Motorway, non-toll	143468.60
N	Motorway, toll	11829.54
P	Other major road, non-toll	278259.38
Q	Other major road, toll	2286.70
R	Local (minor) road, non-toll	3119059.44
S	Secondary road, non-toll	238299.31
T	Secondary road, toll	1255.65
U	Other road, non-toll	30.90
W	Local (important) road, toll	462.11
Z	Pedestrian	2204934.82

# Notices and Product Support

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## Product Support

If you have any questions or concerns, you may contact our support or fulfillment team directly by phone or email:

### *Software Support*

Call: 1.800.367.6950

Email - [software.support@pb.com](mailto:software.support@pb.com)

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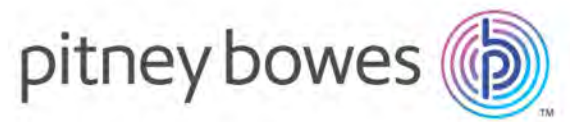
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