



Release Notes

Version OCT23 / 2023Q4

This document describes the changes that will be made to Trillium Geolocation Online Services in the OCT23 / 2023Q4 update. This includes the Trillium Geolocation Web Service (REST and SOAP) and Trillium Geolocation Hosted Servers.

Contents:

Introduction.....	2
Software Update Overview.....	2
Data Update Overview.....	2
Postal Reference Data Tables.....	3
Geocode (Latitude / Longitude) Tables.....	8
Enhancement Tables.....	12
Knowledge Base.....	13

Introduction

This document describes the changes that will be made to Trillium Geolocation Online Services in the OCT23 / 2023Q4 update.

This includes the Trillium Geolocation Web Service (REST and SOAP) and Trillium Geolocation Hosted Servers.

This includes the Trillium Geolocation Web Service (REST and SOAP) and Trillium Geolocation Hosted Servers. The Trillium Geolocation Online Services environment will be updated to the Trillium Geolocation OCT2023 / 2023Q4 release on Wednesday, November 15th 2023. These updates will be applied automatically, and no customer action is required.

Software Update Overview

The Trillium Geolocation software used within the Trillium Geolocation Web Service and Trillium Geolocation Hosted Servers will be updated to the latest version as part of this update.

The changes include updates to several third-party software components to improve application security and stability.

There are no API changes in this release.

Data Update Overview

The OCT23 / 2023Q4 data update includes updated postal reference data tables for 100+ countries and territories and updated geocode (latitude / longitude) reference data tables for 100+ countries and territories.

This update includes changes to the suppliers of Postal Reference Data for Algeria, Armenia, Azerbaijan, Bahamas, Bahrain, Bangladesh, Barbados, Bhutan, Brunei Darussalam, Cayman Islands, Comoros, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, Faroe Islands, Fiji, Ghana, Grenada, Guatemala, Haiti, Indonesia, Israel, Jamaica, Peru, Türkiye (Turkey) and Venezuela, as well as the suppliers of Geocode Reference Data for Armenia, Azerbaijan, Bangladesh, Barbados, Bermuda, Bhutan, Cabo Verde, China (Latin and Simplified Chinese), Comoros, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, Faroe Islands, Fiji, Ghana, Greenland, Grenada, Guatemala,

Haiti, Israel, Jamaica, and Japan (Latin and Japanese/Kanji). The new data includes street level coverage for Faroe Islands, Israel, Peru and Türkiye (Turkey), and new 7-digit postal codes for Israel.

This update also includes improved geocode (latitude / longitude) coverage for Guam, Puerto Rico and United States Virgin Islands. The changes include 'address point' coordinates where available (house / property level coordinates specific to an address rather than derived by interpolation), generally improved coverage, and the addition of building names. These changes use improved data from the existing data supplier.

For further details of these changes please see the remainder of this document. The data updates will be applied to the Trillium Geolocation Web Service and Trillium Geolocation Hosted Servers automatically.

Any technical queries about Trillium Geolocation should be directed to the support team through the [Precisely Support Website](#).

Postal Reference Data Tables

Trillium Geolocation uses postal reference data tables for address verification, correction and searching.

Updates

The Trillium Geolocation OCT23 / 2023Q4 Data Update contains updated postal reference data tables for the following countries and territories:

Afghanistan
Albania
Algeria
American Samoa
Angola
Armenia
Australia
Austria
Azerbaijan
Bahamas
Bahrain
Bangladesh

Barbados
Belarus
Belgium
Belize
Bermuda
Bhutan
Bolivia
Bosnia and Herzegovina
Brazil
Brunei Darussalam
Bulgaria (Latin)
Bulgaria / България (Cyrillic)
Burkina Faso
Cameroon
Canada
Cayman Islands
Chad
Chile
Colombia
Comoros
Costa Rica
Croatia
Cuba
Cyprus
Czech Republic
Côte d'Ivoire
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador

Egypt
Estonia
Faroe Islands
Fiji
Finland
France
French Guiana
Gabon
Germany
Ghana
Greece (Latin)
Greece / ΕΛΛΑΣ (Hellenic)
Greenland
Grenada
Guadeloupe
Guam
Guatemala
Guernsey
Guinea
Guyana
Haiti
Heard Island and McDonald Islands
Hong Kong (Latin)
Hong Kong / 香港 (Chinese)
Hungary
Iceland
India
Indonesia
Iran
Iraq
Ireland

Isle of Man
Israel
Italy
Jamaica
Japan (Latin)
Japan / コホソ (Katakana)
Japan / 日本 (Kanji)
Jersey
Kazakhstan
Latvia
Lebanon
Libya
Liechtenstein
Lithuania
Luxembourg
Macao (Latin)
Macao / 澳門 (Chinese)
Malta
Martinique
Mauritania
Mayotte
Mexico
Micronesia
Monaco
Myanmar
Namibia
Netherlands
New Zealand
Niger
North Korea
North Macedonia

Norway
Paraguay
Peru
Poland
Portugal
Puerto Rico
Reunion
Romania
Russian Federation (Latin)
Russian Federation / Российская Федерация (Cyrillic)
Saint Martin
Saint Pierre and Miquelon
San Marino
Serbia
Singapore
Slovakia
Slovenia
South Africa
South Korea (Latin)
South Korea / 대한민국 (Hangul)
Spain
Sudan
Sweden
Switzerland
Syria
Thailand (Latin)
Thailand / ไทย (Thai)
Turkey
United Arab Emirates
United Kingdom
United Kingdom

United States

Venezuela

Virgin Islands

Yemen

Geocode (Latitude / Longitude) Tables

Trillium Geolocation uses geocode (latitude / longitude) tables to append co-ordinates to addresses.

Updates

The Trillium Geolocation OCT23 / 2023Q4 Data Update contains updated geocode (latitude / longitude) data tables for the following countries and territories:

Albania

Algeria

Argentina

Armenia

Australia

Austria

Azerbaijan

Bahamas

Bahrain

Bangladesh

Barbados

Belarus

Belgium

Bermuda

Bhutan

Bosnia and Herzegovina

Botswana

Brazil

Brunei Darussalam
Bulgaria (Latin)
Bulgaria / България (Cyrillic)
Cabo Verde
Canada
Cayman Islands
Chile
China (Latin)
China / 中国 (Simplified Chinese)
Colombia
Comoros
Costa Rica
Croatia
Cuba
Cyprus
Czech Republic
Denmark
Dominica
Dominican Republic
Ecuador
Egypt
Estonia
Eswatini
Faroe Islands
Fiji
Finland
France
Germany
Ghana
Greece (Latin)
Greece / ΕΛΛΑΣ (Hellenic)

Greenland
Grenada
Guadeloupe
Guam
Guatemala
Guernsey
Haiti
Hong Kong (Latin)
Hong Kong / 香港 (Chinese)
Hungary
Iceland
India
Indonesia
Ireland
Isle of Man
Israel
Italy
Jamaica
Japan (Latin)
Japan / 日本 (Kanji)
Jersey
Jordan
Kazakhstan
Kosovo
Kuwait
Latvia
Lebanon
Lesotho
Liechtenstein
Lithuania
Luxembourg

Macao (Latin)
Macao / 澳門 (Chinese)
Malaysia
Malta
Martinique
Mauritius
Mexico
Moldova
Monaco
Montenegro
Morocco
Mozambique
Namibia
Netherlands
New Zealand
Nigeria
North Macedonia
Norway
Oman
Peru
Poland
Portugal
Puerto Rico
Qatar
Reunion
Romania
Russian Federation (Latin)
Russian Federation / Российская Федерация (Cyrillic)
San Marino
Saudi Arabia
Serbia

Singapore
Slovakia
Slovenia
South Africa
Spain
Sweden
Switzerland
Taiwan (Latin)
Taiwan / 臺灣 (Traditional Chinese)
Thailand (Latin)
Thailand / ไทย (Thai)
Tunisia
Turkey
Ukraine
United Arab Emirates
United Kingdom
United States
United States Virgin Islands
Uruguay
Vatican City
Venezuela

Enhancement Tables

Trillium Geolocation uses enhancement tables to append other address-related information to addresses.

Updates

The Trillium Geolocation OCT23 / 2023Q4 Data Update contains updates for the following enhancement tables:

France INSEE Codes (FRAinsee)

United Kingdom DPS (GBRdps)

Knowledge Base

Trillium Geolocation uses the Knowledge Base to parse input addresses, identify address components, validate address components, perform address searching, correctly format output addresses, and assign geocodes (latitude / longitude coordinates), and other enhancements to addresses.

The Trillium Geolocation OCT23 / 2023Q4 Data Update contains Knowledge Base improvements for the following countries and territories:

Armenia

The output address format rule for Armenia is updated to align with the current postal standard. Street addresses for Armenia will now be formatted as follows:

```
<Company>
<Sub Building> |
<Building> |
<Department> |
<Street> <Premise (house number)> |
<Sub Street> |
<PO Box>
<Sub City>
<Postcode> <City>
<Country>
```

Only populated components will be used to build the address lines, and blank lines will not be included in the output address.

Bangladesh

The output address format rule for Bangladesh is updated to align with the current postal standard. Street addresses for Bangladesh will now be formatted as follows:

```
<Company> |
<Sub Building> |
<Building> |
<Department> |
<Street> <Premise (house number)> |
<Sub Street> |
<PO Box>
<Sub City>
```

```
<City> - <Postcode>  
<Country>
```

Only populated components will be used to build the address lines, and blank lines will not be included in the output address.

Brunei Darussalam

The parsing process for Brunei Darussalam has been updated to improve the recognition of *Kampung/Kampung* in city/sub-city names.

Guam

The geocode (latitude/ longitude) table for Guam has been improved by the addition of building names, address point data where available (house / property level coordinates specific to an address rather than derived by interpolation), and generally improved coverage.

Hungary

The parsing process for Hungary has been updated to improve the recognition of additional PO Box identifiers (for example, 'P.F. 45').

Israel

The parsing process for Israel has been updated to improve the recognition of additional city transliteration variants (for example, 'Kesaria', 'Nes Tsiyuna', 'Moshav Ben Shemen'). The parsing will correctly recognize and format the 7-digit postal codes now included in the postal reference data – see the 'Data Update Overview' section of this document for more details.

Puerto Rico

The geocode (latitude/ longitude) tables for Puerto Rico have been improved by the addition of address point data where available (house / property level coordinates specific to an address rather than derived by interpolation), and generally improved coverage.

Türkiye (Turkey)

The parsing of certain street types for Türkiye has been updated to align more closely with the postal standard (for example, 'Bul.' to 'Blv.').

United States Virgin Islands

The geocode (latitude/ longitude) table for US Virgin Islands has been improved by the addition of building names, address point data where available (house / property level coordinates specific to an address rather than derived by interpolation), and generally improved coverage.

United Kingdom

The parsing process for the United Kingdom has been updated to correctly standardize the names of postal towns, dependent and double dependent localities with hyphens (for example: *Weston-super-Mare*, *Berwick-upon-Tweed*).

Additionally, the parsing process has been updated to improve the recognition of certain building names (*Southcourt Close*, *Harcourt Mews*) and certain complex sub-buildings ('Flat 1-1 to 1-4').

Venezuela

The parsing process for Venezuela has been updated to correctly standardize the state name 'Distrito Capital' in the postal table.



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