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Release Notes

Version OCT23 / 2023Q4

This document details the changes that will be made to the Trillium Geolocation Cloud Service in the OCT23 / 2023Q4 update.

Contents:

Introduction

This document details the changes that will be made to the Trillium Geolocation Cloud Service in the OCT23 / 2023Q4 update.

The Trillium Geolocation Cloud deployment(s) will be updated to the Trillium Geolocation OCT23 / 2023Q4 release on the previously scheduled date(s). These updates will be applied automatically and no customer action is required.

Software Update Overview

The Trillium Geolocation software used within theTrillium Geolocation Cloud Services 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

Note: This document describes changes to all available Trillium Geolocation countries and tables. Your license agreement may not include all countries and tables.

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 forAlgeria, 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. These data updates will be applied to your Trillium Geolocation Cloud Service deployment(s) automatically using the previously agreed update schedule.

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 / ニホン (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 *Kampong*/*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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