Geocoder API

Release Notes

Version 6.2.108

Contents

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Chapter

1

Overview

Topics:

- *D66 Highlights*

The scope of this document is to provide the release notes for the Geocoder API for a particular release version. It also includes the issues resolved and issues remaining in this release.

D66 Highlights

- Improved accuracy in Australia by matching single house numbers to number ranges. For example: Match "30 Chapel St" to Point Address "30-32 Chapel St" instead of interpolating based on address range or falling back to next available house number.
- Match rate and match precision improvements with addressline-only support in Australia. Users can search for addresses with house number and street name without any locality indication.
- Other enhancements and bug fixes.

Chapter

2

Release Major Changes

Topics:

- *API Changes*
- *Map Data Version*

This section documents major changes to the release that may require users to change their applications and/or associated map data.

API Changes

There are no API changes in this release.

Map Data Version

The Geocoder provides weekly map updates based on Stable Baseline. The baseline for the map schema is currently Q1/2015. Weekly map data updates are based on Q1/2016 data releases.

The exceptions are as follows:

- Hong Kong and Macau remain at Q3/2015. Not updated weekly.

China mainland and Macau maps in the Geocoder API

- For International users the navigable map is an entry level map with major city coverage.
- The China mainland map and the Macau map use un-shifted coordinates.

Here is what "shifted" and "un-shifted" means:

- Shifted: GCJ-02 coordinates. GCJ-02 is a coordinate system that follows Chinese regulations where coordinates based on WGS-84 standard are offset by a few hundred meters using a special shifting algorithm.
- Un-shifted: GPS coordinates expressed using WGS-84 standard.

All maps for China mainland, Macau, and Hong Kong that are provided to International users are un-shifted in the Geocoder API.

Geocoder results contain map version information in the `MapReference` section if requested via `locationattributes=mapReference`.

`MapVersion`: Version of the **map schema**. Format: `QQ/YYYY`, e.g. `Q1/2015`

`MapId`: Version of the **map data**. Map version details containing the baseline for the map schema and an identifier for the weekly update. Format: <4-letter region>`YYQ`<weekly update>. Example: `NAAM15163` (region: North America (NAAM), map schema: Q1/2015 (151), weekly update 63)

Chapter

3

D66 Issues

Topics:

- *Resolved Issues*
- *Enhancements*
- *Known Issues*

This section lists resolved issues and enhancements in the current release. It also lists known issues in the current release.

Resolved Issues

The following table contains resolved issues. The list summarizes major resolved issues relevant for a broad audience.

Enhancements

The following table contains enhancements.

#	Description
1	Improved accuracy in Australia by matching single house numbers to number ranges.

In Australia house numbers may include a number range. The range is then separated by a hyphen (-). For example, 30-32 Chapel St. The Geocoder was always able to match the number range if the query contained exactly the range. But if the query only contained a single number and this number was not in the data, then the Geocoder either fell back to the nearest known house number or it interpolated the location based on address ranges. Now, the Geocoder tries to match the single number also to a number range. This provides more accurate results.

Examples:

Query:

```
searchtext=30 Chapel St Windsor 3181
```

Previous result:

Fallback to nearest known house number 28.

```
label: 28 Chapel St, Windsor VIC 3181, Australia"
...
```

Current result:

Point Address match to the number range 30-32.

```
label: 30-32 Chapel St, Windsor VIC 3181, Australia"
...
```

Query:

```
searchtext=24 South St South Kempsey NSW 2440
```

Previous result:

Interpolated result.

```
label: 24 South St, South Kempsey NSW 2440, Australia"
...
```

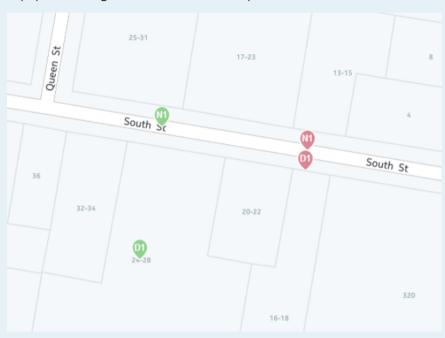**Current result**:

#	Description

	Point Address match to the number range 30-32.
	
	```label: 24-28 South St, South Kempsey NSW 2440, Australia"```
	`...`
	
	The image below shows the previous match with navigation and display positions (red markers N1/D1) and the current match (green markers N2/D2). The two navigation positions are appr. 100 meters apart. The display coordinate (green D1) is now on the rooftop.

2   Australia: Match rate and match precision improvements with addressline-only support.

Addressline-only queries are now supported for Australia. Addresses from queries without locality (district,city) or postal code and without additional user context (map view) can now be found.

Example:

```
searchtext=466 collins street
```

Previous result: no match

Current result:

```
relevance:  1,
matchLevel:  "houseNumber",
matchQuality: {
    street: [1],
    houseNumber:  1
},
matchType:  "pointAddress",
...
    address: {
        label:  "464-466 Collins St, Melbourne VIC 3000, Australia",
        country:  "AUS",
        state:  "VIC",
        city:  "Melbourne",
```

#	Description

```
    street:  "Collins St",
    houseNumber:  "464-466",
    postalCode:  "3000",
...
```

Addressline-only queries are now supported for the following countries: Australia, Belgium, Canada, China, Estonia,Hong Kong, Latvia, Macao, Mexico, Russia, Spain, Turkey

3	Improved admin representation in suburbs of urban municipalities in Poland.

For urban municipalities such as Wroclaw or Lodz, the city field represents the municipality and the district field represents the locality. This was changed with the previous D65 release. But outside the built-up areas of those urban municipalities the district field was still left empty. The label used the municipality name. Starting from D66, these municipalities are adapted to have a locality (district) covering the complete municipality. The label uses the locality name.

Previous Result	Current Result
ulica Franciszka Plocka, 94-109 Lodz, Poland	ulica Franciszka Plocka, 94-109 Lodz, Poland
country: POL	country: POL
state: Woj. Łódzkie	state: Woj. Łódzkie
county: Lodz	county: Lodz
city: Lodz	city: Lodz
	district: Lodz
street: ulica Franciszka Plocka	street: ulica Franciszka Plocka
postalCode: 94-109	postalCode: 94-109

Known Issues

The following table lists issues known to be present in the current release of the Geocoder API.

#	Description
1	Taiwan Geocoding - Island Names are not able to be geocoded - Q2 2013 TWN Map improvements Islands to be considered as part of Taiwan.
2	Taiwan - Street Fallback - Returning the Best Candidate If an address is not in the map, either a house number fallback or up-hierarchy street level match is expected. But in some cases, the Geocoder returns an address in the wrong street or lane. **Example**: 彰化縣彰化市介壽北路1號 House number 1 is not in the map data. The result is therefore a fallback to house number 19:

#	Description
	No. 19, Jie Shou N. Rd., Changhua City, Changhua County 500, Taiwan
	But if a house number fallback is not accepted (parameter: `additionaldata=HouseNumberMode,Streetlevel`), then the result is expected to be a street level match:
	Jie Shou N. Rd., Changhua City, Changhua County 500, Taiwan
	The current response is an address match in a different – though close - street (South instead of North) and in a lane while the request did not specify a lane:
	No. 1, Lane 36, Jie Shou S. Rd., Changhua City, Changhua County 500, Taiwan
3	China: Reverse Geocoder `retrieveAreas` response not aligned with `mode=retrieveAddresses` The Reverse Geocoder `retrieveAreas` response is not aligned with the response from `retrieveAddresses` and Forward Geocoder. City and district names are only available in Chinese, the county information is incorrect and state is empty (should be Chinese provinces).
4	Labels for highway exits do not include the exit number. The label only contains the highway name. Workaround: Use highway name and exit number from the `name` field.
5	The navigation coordinate in the response for Hong Kong building name matches is not always correct. It is the same as the display coordinate. The navigation coordinate is correct only when the query matches a house number in addition to the building name (`MatchQuality` element `houseNumber` exists in the result). **Example:** The queries Shek Wu Shui Baptist Chapel, Hong Kong and Shek Wu Shui Baptist Chapel, 33 Fu Hing St, Hong Kong both match to the same address. But the navigation coordinate is correct for the latter query only.