



Location Intelligence

GeoTAX[®] Matrix

6.1.4.5 Release

Technical Notes



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Introduction

Pitney Bowes is pleased to announce the release of GeoTAX Matrix 6.1.4.5. This release is available for Internet download from the Pitney Bowes Software eStore and Technical Support Web site, www.g1.com/support.

Listed below is an overview of the release documentation, release highlights and database compatibility for this release.

Although we will continue to provide Level 1 technical support for GeoTAX Matrix 6.1.4.4, any future product updates will only be provided for the 6.1.4.5 version of this product.

Release Documentation

The technical notes and installation guides for GeoTAX Matrix 6.1.4.5 are available for viewing and download from the Pitney Bowes Technical Support Web site, <http://www.g1.com/support>. To access these documents, log into the Support site and select **Documentation**. Then, select **Technical Product Info** for the technical notes, or **Installation Guides** for the installation documentation.

Highlights and General Enhancements

- **Single-line Address Matching Improvements**

Significant improvements have been made to matching when using single-line address input. On average, single-line matching achieves a 3.5% match rate lift compared to using parsed address input, and a 1.0% increase in match rate compared with the prior release of single-line.

- **Address Point Interpolation Improvements**

Significant performance improvements have been realized when using address point interpolation. Performance improvements vary widely and are dependent on a number of factors, including: the number of points datasets loaded, the quality of the input data, and the closeness of available points (typically rural versus urban). Improvements have also been made to the placement of some interpolated address points, which results in better locations as well as associated data returns.

- **Improved Centerline Projection with New Fallback**

Additional refinements have been made to improve matching of the street segment to a point geocode in centerline matching. These improvements better determine when a matched street segment is not optimally positioned from the matched point. In cases where the matched street segment and point geocode are not near one another, a new fallback mechanism is automatically invoked. The fallback operation will search along the entire length of the matched street and return the street segment that is closest to the matched point.

- **Improved Resolution of Matches when using Multiple Point Datasets**

Enhancements have been made to provide the single, best, point-level match when identical, point-level matches are returned from multiple datasets.

Fixed Change Requests and Known Issues

Fixed Change Requests

The list below represents all of the change requests and software defects addressed in this release. Please review this list carefully to determine whether the following corrections apply to your situation.

Item Number	Change Request	Description
CENTRUS-9711		Fixed crash in GeoTAX Matrix that was occurring when the .gsu file was not loaded.
CENTRUS-9796		Corrected the handling of address point interpolation on curved roads.
CENTRUS-9799	Case 03475561, 03493311, 03507350	Resolved an issue where identical matches to a single point were being returned when points were returned from multiple datasets. These multi-matches now correctly resolve to a single point from the highest-priority dataset.
CENTRUS-9800		Modified address point interpolation to ensure the results are in the same ZIP Code.
CENTRUS-9803		Modified address point interpolation to ensure interpolation within a reasonable proximity to the street segment.
CENTRUS-9823		Corrected a caching problem where the output city contained previous results when the input city was malformed.
CENTRUS-9828		Single line address processing is not available in CASS mode. Error return codes have been updated to more accurately reflect this.
CENTRUS-9834		Improved memory handling in matching logic.
CENTRUS-9844		Enhancement to allow better centerline projection when there are differences in the street name of the point address and the street names of the surrounding street segments.
CENTRUS-9919		Fixed an issue when using multiple DLD files that have identical field names, which occurs when multiple field names contain an underscore character.
CENTRUS-10048	Case 04260280	Corrected a problem where the searching and matching logic used for processing addresses in an Auxiliary (.gax) file rejected matches that had over 100 matching Soundex candidates
MM-2057	Case 03507259, MMCUSTSUP-657	Improved error reporting when processing an address in single-line with CASS mode enabled to return a lastline not found error (GS_LASTLINE_NOT_FOUND with E010) rather than a generic error message (GS_ERROR with E000). Single-line matching is not available when using CASS match mode.

Known Issues

- For Windows users only - After the installation of GeoTAX Matrix completes, when attempting to start the application, the following error may display:

C:\Program Files\Centrus\GeoTAXMatrix\bin\TaxServiceManager.exe

The application has failed to start because its side-by-side configuration is incorrect. Please see the application event log or use the command-line sxstrace.exe tool for more detail. This error means that your system needs additional runtime libraries that Microsoft provides.

To resolve the error:

- Download and install the redistributable package available from the Microsoft Download Center via this link based on whether GeoTAX Matrix is 32-bit or 64-bit:
 - 32-bit: <http://www.microsoft.com/en-us/download/details.aspx?id=5582>
 - 64-bit: <http://www.microsoft.com/en-us/download/details.aspx?id=2092>
- It may be necessary to uninstall and reinstall GeoTAX Matrix if TaxServiceManager.exe fails to start.
- For Windows users only - After the installation of GeoTAX Matrix completes, when attempting to start the application, the following error may display:

TaxServer.exe – Unable to Locate Component

The application has failed to start because MSVCR110.dll was not found. Re-installing the application may fix this problem.

To resolve the error:

- Download and install the redistributable package (x86 or x64) available from the Microsoft Download Center via this link for GeoTAX Matrix 32-bit or 64-bit:
<http://www.microsoft.com/en-us/download/details.aspx?id=30679>
- It may be necessary to uninstall and reinstall GeoTAX Matrix if TaxServiceManager.exe fails to start.
- Placing tabs in InitList causes the GeoTAX Matrix server to stop.
- The GeoTAX Matrix batch application does not allow spaces in path names.

Database Compatibility

NOTE: There are no data format changes to the street and point data sets for this release.

Platform-Specific Changes

New Platforms

For this Centrus software release, the following additional platform is supported:

- Linux 7.1

Retired Platforms

Please note that we are no longer supporting:

- Solaris 9
- SUSE 9

Minimum Supported Levels

The minimum supported level for JAVA is now 1.7.

For Further Assistance

If you have any questions about this release, please contact us via the web, email, or phone for further assistance:

- Create a case in our [Online Case Management System](#),
- Send an email to software.support@pb.com, or
- Call our toll-free number, +1 800.367.6950.

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Fax: +1 518 285 7060
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