

# GeoTagZ v4.6.2 Release Notes

© Copyright 2003-2020 Septentrio NV/SA, Belgium. All rights reserved.

This document is the Release Notes of Septentrio GeoTagZ which includes the Command Line and Graphical User Interface version of GeoTagZ.

## Release References

Release Date:	March 06, 2020
GeoTagZ:	4.6.2
GeoTagZ library:	4.6.2
GeoTagZ CL:	4.6.2
GeoTagZ GUI:	4.6.2
BaseFinder CL:	4.6.2
BaseFinder GUI:	4.6.2
GeoTagZ SDK for C++:	4.6.2
Qt (LGPL) Version:	5.12.3-msvc2017

## Deliverables

1. GeoTagZ\_RelNote.pdf, the Release Notes (this document)
2. GeoTagZ\_Manual.pdf, the GeoTagZ 4.6.2 Manual (an Adobe PDF document)
3. geotagz\_4\_6\_2\_installer.exe, the GeoTagZ installer for Windows

## Legal Notice

Septentrio does not authorize the use of its products as critical components in devices or systems intended for safety-of-life applications or in devices or systems, the failure of which may endanger life or cause injuries, without express written approval. All the software, firmware and documentation delivered with the Septentrio package is licensed, as explained in the `License.txt`, `Copyright.txt`, and `gpl.txt` files which are part of the Software Package provided with the product delivery.

The GeoTagZ Graphical User Interface makes use of OpenStreetMap (see OpenStreetMap contributors, <https://www.openstreetmap.org/copyright>).

## A note about compatibility

The GeoTagZ software is compatible with:

1. SBF files from Septentrio AsteRx, Altus and PolaRx family of receivers
2. RINEX observation and navigation files versions 2.1x and 3.0x
3. JPG, TIFF and DNG picture formats

## Recommended System Requirements

The following operating systems are supported:

- Windows 7®
- Windows 8®
- Windows 10®

The minimal system requirements are:

- 1 GHz processor
- 1 GB RAM
- 1024×768 or higher resolution

## Installation

To install GeoTagZ on your PC, launch the installer `geotagz_4_6_2_installer.exe`. This installer is provided with the product delivery, or can alternatively be downloaded from [www.septentrio.com](http://www.septentrio.com): please navigate to the Support page. The installers can be found under the Software/GeoTagZ section.

Upon startup, GeoTagZ checks for a newer version. If a newer version is available the user can choose to download and install it.

The GeoTagZ 4.6.2 package provides both the Command Line and Graphical User Interface version of GeoTagZ, as well as the required libraries. By default, the installer installs all components. Users may choose a Custom installation and decide which applications to install. Follow the instructions in the installer for running a Custom setup.

During installation, you will be prompted to input the location of the license file for the GeoTagZ dongle (.bin). Select the location of this file then click 'Apply'. If the license file is the correct one for the connected dongle, the message, 'License matches the found dongle' will appear. You can then click 'Exit' to finish off the installation.

## GeoTagZ installer v4.6.2

### GeoTagZ installer differences to previous versions

#### GeoTagZ installer differences introduced in GeoTagZ v4.6.2

No differences

#### GeoTagZ installer differences introduced in GeoTagZ v4.6.1

No differences

#### GeoTagZ installer differences introduced in GeoTagZ v4.6.0

Issues resolved in GeoTagZ installer:

1. BaseFinder is a new application to automate the retrieval of reference station data. BaseFinder optimizes the use of public data for best GNSS performance and is an optional feature.

#### GeoTagZ installer differences introduced in GeoTagZ v4.1.8

Issues resolved in GeoTagZ installer:

1. A troubleshooting section has been added to the manual.

## GeoTagZ common components v4.6.2

### GeoTagZ common components differences to previous versions

#### GeoTagZ common components differences introduced in GeoTagZ v4.6.2

Issues resolved in GeoTagZ common components:

1. When both the reference position and antenna offset specified set, the antenna offset is no longer rejected.

#### GeoTagZ common components differences introduced in GeoTagZ v4.6.1

No differences

### **GeoTagZ common components differences introduced in GeoTagZ v4.6.0**

New features in GeoTagZ common components:

1. The PVT engine now also supports Beidou and Galileo constellations in RTK.
2. It is now possible to select which columns are in the CSV file as well as the order of the columns.
3. A time filtering window was added to GeoTagZ.

Issues resolved in GeoTagZ common components:

1. The antenna information file has been updated with the calibration data included in the NGS file of 12/07/2019.

### **GeoTagZ common components differences introduced in GeoTagZ v4.1.8**

Issues resolved in GeoTagZ common components:

1. RINEX v3.xx observation files with more than 26 observation types per constellation were incorrectly decoded. This is now fixed.
2. An issue where the multipath mitigation of weak GNSS signals could influence RTK availability has been solved.
3. In post processing, the preference for GLONASS L2CA phase measurements in RTK resulted in GLONASS not being used when only GLONASS L2P phase measurements were available in the base station RINEX data. This has now been rectified by fully implementing the GLONASS L2P phase measurements in the RINEX file.
4. The issue of low RTK availability caused by RINEX files containing a mix of either GPS L2P or GPS L2C measurements has been resolved.
5. The GeoTagZ library has been improved to have better RINEX compatibility.
6. The error "RINEX file contains data from constellations that are not supported" is now reported when using Galileo or BeiDou RINEX navigation files since those are not supported.
7. When using a RINEX reference file the Doppler is now automatically computed from the carrier phase measurements if not available in the RINEX file.

## **GeoTagZ Command Line Interface v4.6.2**

### **GeoTagZ Command Line Interface differences to previous versions**

#### **GeoTagZ Command Line Interface differences introduced in GeoTagZ v4.6.2**

Issues resolved in GeoTagZ Command Line Interface:

1. When both the reference position and antenna offset specified set, the antenna offset is no longer rejected.

#### **GeoTagZ Command Line Interface differences introduced in GeoTagZ v4.6.1**

No differences

#### **GeoTagZ Command Line Interface differences introduced in GeoTagZ v4.6.0**

New features in GeoTagZ Command Line Interface:

1. The PVT engine now also supports Beidou and Galileo constellations in RTK.
2. A time filtering window was added to GeoTagZ.

### **GeoTagZ Command Line Interface differences introduced in GeoTagZ v4.1.8**

Issues resolved in GeoTagZ Command Line Interface:

1. An entry has been added to the report telling if the positions were compensated for the base/rover antenna phase center offsets in case of RTK positions.
2. The error "RINEX file contains data from constellations that are not supported" is now reported when using Galileo or BeiDou RINEX navigation files since those are not supported.

## **GeoTagZ GUI v4.6.2**

### **GeoTagZ GUI differences to previous versions**

#### **GeoTagZ GUI differences introduced in GeoTagZ v4.6.2**

No differences

#### **GeoTagZ GUI differences introduced in GeoTagZ v4.6.1**

No differences

#### **GeoTagZ GUI differences introduced in GeoTagZ v4.6.0**

New features in GeoTagZ GUI:

1. A time filtering window was added to GeoTagZ.
2. A comment is now added to the EXIF properties when a picture is processed by GeoTagZ.

#### **GeoTagZ GUI differences introduced in GeoTagZ v4.1.8**

Issues resolved in GeoTagZ GUI:

1. An entry has been added to the report telling if the positions were compensated for the base/rover antenna phase center offsets in case of RTK positions.
2. The previous report in the output window is no longer cleared when changing settings unless an invalid setting is specified. After correcting the invalid setting the output window shows again the previous report.
3. The error "RINEX file contains data from constellations that are not supported" is now reported when using Galileo or BeiDou RINEX navigation files since those are not supported.

## **BaseFinder v4.6.2**

### **BaseFinder differences to previous versions**

### **BaseFinder differences introduced in GeoTagZ v4.6.2**

No differences

### **BaseFinder differences introduced in GeoTagZ v4.6.1**

No differences

### **BaseFinder differences introduced in GeoTagZ v4.6.0**

New features in BaseFinder:

1. BaseFinder is a new application and API component to automate the retrieval of reference station data. BaseFinder optimizes the use of public data for best GNSS performance and is an optional feature.

### **BaseFinder differences introduced in GeoTagZ v4.1.8**

No differences

## **BaseFinder GUI v4.6.2**

### **BaseFinder GUI differences to previous versions**

#### **BaseFinder GUI differences introduced in GeoTagZ v4.6.2**

No differences

#### **BaseFinder GUI differences introduced in GeoTagZ v4.6.1**

No differences

#### **BaseFinder GUI differences introduced in GeoTagZ v4.6.0**

New features in BaseFinder GUI:

1. BaseFinder is a new application and API component to automate the retrieval of reference station data. BaseFinder optimizes the use of public data for best GNSS performance and is an optional feature.

#### **BaseFinder GUI differences introduced in GeoTagZ v4.1.8**

No differences

### **BaseFinder GUI known issues and limitations**

1. BaseFinder uses "Open Street Maps" to show a map. When the servers of Open Street Maps are getting to many requests you might see the message "Server busy" on your map.

*Trademark information*

Adobe™ is a trademark of Adobe Systems Incorporated.

Microsoft® and Windows® are registered trademarks of Microsoft Corporation.

Google Maps™ and Google Earth™ mapping services are trademarks of Google Inc.

Qt is a registered trade mark of Digia Plc and/or its subsidiaries.

Copyright © 2020

## Contact

Go to Septentrio web site [www.septentrio.com](http://www.septentrio.com) or contact the Septentrio support team by email to [support@septentrio.com](mailto:support@septentrio.com).