

GPS Pathfinder® Office: New Features

October 15, 2015

This document describes the new features included in versions of the Trimble® GPS Pathfinder® Office software since version 2.9 was released. The new features are reported relative to the previous version. *Note – You cannot have two versions of the Pathfinder Office software installed at the same time. For more information, please see the [Pathfinder Office User Guide](#), [Release Notes](#), or the [User Guide for your GPS device](#).*

Version 5.80 (September 2015)

Enhancements:

- Support for the Trimble R2 GNSS receiver.
- Support for the Trimble Nomad® 1050 series.
- Updated postprocessing engine.
- Leap second adjustment.
- Improved KML import for reference data. You can bring in and display some of the feature label information from the KML file.
- Updated Export Utility now includes:
 - Attribute concatenation on export. You can use a configuration file to create a new attribute that contains the concatenated strings in selected attributes with a selected optional delimiter.
 - The ability to increase the Menu attribute code value character length from 10 to 40 using a look-up table.
 - The ability to omit an attribute on export. Use the configuration file to specify which attributes you want to omit from the export. This is useful if you only want to export a certain subset of the data collected and/or you do not want to define a new DDF schema for the reduced attribute set.
 - The option to export to a Microsoft® Access 2007 database (.accdb format).
 - Image file management enhancements:
 - the option to specify how the filename and/or path for files (for example, images), is exported. You can also set a custom folder for images to be exported to.
 - the option to rename a file (for example, an image) based on the name of the attribute it was collected in. This makes it easier for you to move image data around a file system.

Version 5.70 (February 2015)

Enhancements:

- Support for the Trimble R1 GNSS receiver.
- The Trimble SSF/DDF extension has been updated to be compatible with FME 2013/2014.
- Base File vs. Base List (Provider) selection for postprocessing: if you have previously selected Base File Position, the selection is cleared and you must re-select the correct base file. This ensures that you do not default to an incorrect option in the postprocessing workflow.
- Option to incorporate the date and time into an image name.

Version 5.65 (January 2015)

Enhancements:

- Support for Trimble RTX™ correction services (data collected on a Trimble Geo 7X handheld only, for Trimble CenterPoint™, RangePoint™, and ViewPoint RTX correction services). In the *Position Properties* window, RTX carrier corrected positions now show as *RTX Real-time Carrier*, and RTX code corrected positions now show as *RTX Real-time Code*. The Trimble GPS Pathfinder Office Configuration Manager has also been updated to support setting up RTX real-time configurations for the TerraSync™ software.



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Version 5.60 (November 2013)

Enhancements:

- Support for Trimble GeoExplorer 7
- Expanded GNSS constellation support. The *Position Properties / DOPs* tab now displays the satellites used to calculate positions grouped by GNSS constellation, with support for GPS, GLONASS, Galileo, Beidou, and QZSS.
- Support for Windows® 8 and 8.1 operating systems.
- Miscellaneous usability improvements

Version 5.40 (October 2012)

Enhancements:

- Support for the following receivers
 - Trimble Geo 5T handheld,
 - Juno® 5 series
 - Juno 3E
- When the License Manager is installed on a computer running the Windows® 7 operating system, it requires the Microsoft Chart Controls for MS . NET framework 3.5 to be installed. This is now downloaded automatically if required.
- Links to photo attributes are now maintained when exporting files to KML and viewing them in Google Earth, and image thumbnails are also now displayed in the placemark balloons within Google Earth. To enable image links from placemark balloons, you must enable *Allow access to local files and personal data in Tools / Google Earth Options / General / Placemark balloons*.
- Geoid12 models are now in the Coordinate System Manager, and are associated with the NAD83 (and so forth) coordinate systems.
- Miscellaneous usability improvements

Version 5.30 (February 2012)

Enhancements:

- Support for the Trimble
 - Juno series 3B/D
 - GeoXH™ Centimeter edition handheld.
- Support for the Esri® File Geodatabase format in the Import and Export utilities.
- SSF Record Editor display improvements.
- Floating License Manager improvements (including support for borrowed licenses, usage reporting, and proxy support).
- Miscellaneous usability improvements.
- Language selection must now be made during installation, unlike previous versions where the software was installed in English, and language selection was made by applying a language update. In version 5.30, language updates are only used for the purpose of improving translations. If you install in one language and later want to run it in another language, you must uninstall the software, reinstall it and make a new language selection during the installation.

Version 5.20 (August 2011)

Enhancements:

- The display of the features list has been improved to show the assigned symbols for features.
- The use of graphical picklists has been improved—the image files are associated with the data dictionary and are automatically transferred to a handheld device using the Data Transfer utility when the data dictionary is transferred.
- You can import from and export to ASCII data dictionaries, for the Trimble TerraSync™ software version 5.00 and later. Print and Print Preview are also supported.
- You can type or paste menu options into a form, which significantly speeds up creation of menus with many options, in particular when importing menus from a database.

- ASCII import now correctly handles the character length of values depending on the version of the data dictionary. Values are no longer truncated to 20 characters in data dictionaries for the TerraSync software version 5.00 and later. Import from Microsoft® Access® databases (MDB). MDB files now correctly handle the number of menu items and their length.
- *Note – Version 6 is the current version of the data dictionary format for the TerraSync software version 5.00 and later.*
- **Additional Updates:**
- Updates to TerraSync Studio, and to the Configuration Manager to support the new version of the TerraSync software, including the new Trimble QuickPoint™ data collection mode
- Support for Web Map Service (WMS) 1.1.1 and 1.3.0 making it possible to use a wider selection of map providers.
- The ability to select/deselect all backgrounds in the Load Background Files window.
- The ability to add an alias in the Web Map Wizard to easily identify a URL for a background Web map.
- New options have been added to the Data menu:
 - *Confirm Feature Save* and *Confirm Feature Delete* options let you control whether every feature change or deletion must be confirmed.
 - *Make All Attributes Editable* lets you control whether all attributes in a feature can be edited even if they are conditional or visible.
- New coordinate systems have been added for Australia and Portugal.
- Windows XP 64-bit Edition is no longer supported. Windows XP Professional x64 Edition is supported.

Version 5.10 (February 2011)

Enhancements:

- Support for the GeoExplorer® 6000 series handheld.
- The Export utility has been updated; in *Export Setup Properties / Position Filter*, the *Filter by GNSS Position Info* field *Minimum Satellites* has been replaced by the new field *Minimum Geometry*.
- The Configuration Manager has been updated:
- Support has been added for Smart Settings. Smart Settings enable the receiver to use all available GNSS information to determine which combination of satellites to use to generate the best possible position for any given environment, without the need for you to adjust receiver settings to match the conditions. For more information, see the *GeoExplorer 6000 Series User Guide*, or the *TerraSync Software User Guide* (version 5.10). *Note – Smart Settings are only supported on the GeoExplorer 6000 series handhelds.*
- Velocity Filtering has been removed.

Version 5.00 (October 2010)

Enhancements:

- An updated Data Dictionary Editor utility to support the new TerraSync software version 5.00 data capture controls and conditional attributes.
- An entirely new TerraSync Studio utility that, in association with the TerraSync software version 5.00, allows the TerraSync software user interface to be configured.
- Support for the new Data Dictionary Format records associated with the TerraSync software version 5.00.
- Additions have been made to the Differential Correction interface, ITGA Properties, and so the existing interfaces have been made obsolete and now return E_FAIL. This means that any applications that intend to use the new capabilities of the Differential Correction libraries, or currently use the obsolete interfaces and don't handle error returns, must be rebuilt. For more information, refer to the *GPS Pathfinder Office Software Developer Help*.

Version 4.20 (December 2009)

Enhancements:

- An entirely new post-processing engine with the following upgrades:
 - H-Star™ receivers are post-processed to decimeter accuracy in tougher environments and at longer ranges from the base station.
 - GeoXT™ and ProXT™ receivers now achieve 50-cm accuracy, improved from submeter.
 - Juno™ series handhelds now achieve post-processed accuracy of 1-3 meters, improved from 2-5 meters.
 - Accuracy estimates for both code and carrier data are more precise and consistent.
 - GLONASS data logged using a GPS Pathfinder ProXRT receiver (with the GLONASS option installed) can now be post-processed.
 - Carrier data logged by the GeoXT and ProXT over a period of 45 minutes can now be processed to achieve 1 cm accuracy with a base station within 10 km.
 - Support for post-processing with L1-only base station measurements has been re-added.
- Direct export of data to KML/KMZ formats for use in Google Earth.
- Support for Windows® 7
- Text attribute fields length increased to 230 characters in the SSF file.

Additional Changes:

- Windows 2000 is no longer supported.

Version 4.10 (March 2008)

Enhancements:

- Support for the following receivers:
 - GPS Pathfinder ProXRT receiver
 - Trimble Nomad® series handhelds
- Support for the use and display of positions collected using GLONASS satellites.
Note – This version of GPS Pathfinder Office software cannot post-process GLONASS measurements.
- The Differential Correction wizard now supports the following:
 - Fixed carrier processing
 - Simple, single-base H-Star processing
- A projection file can now be specified when exporting to ESRI Shapefile format.

Version 4.00 (March 2007)

Enhancements:

- Support for Windows Vista and for 64-bit Windows XP and Vista operating systems.
- Support for concurrent license management: by installing the Mapping and GIS License Manager software on a network server, you can manage multiple licenses for the Pathfinder Office software. Using the GPS Pathfinder Office License Administrator software, users of the GPS Pathfinder Office software can choose either a single use or a floating license.
- Full support for version 3.00 of the TerraSync™ software.
- Enhanced support for importing ASCII waypoint files.
- Support for the following types of background files:
 - ECW files
 - MrSID v3 files
 - JPEG 2000 files
- Changes to the Data Transfer utility to support the following:
 - Transfer of ECW, Shapefile, MrSID, and JPEG 2000 background files to a device or computer running the TerraSync Professional software
 - Transfer of waypoint files to or from TerraSync

Additional Changes:

- The *GPS Pathfinder Office Software Help* is now provided as HTML help.
- Windows NT is no longer a supported operating system.
- The following utilities are no longer provided with the GPS Pathfinder Office software:
 - Quick Plan™ utility
 - Text Conversion utility
 - Stand-alone DOS utilities
- The default setup for the Data Transfer utility is now GIS Datalogger on Windows Mobile.
- Client-server installations are no longer supported.

Version 3.10 (April, 2005)

Enhancements:

- The new Differential Correction wizard replaces the Differential Correction utility for standard code processing or carrier processing for a float solution. You can also use the wizard to process data collected with a Trimble receiver using H-Star technology.
- The Differential Correction wizard produces an improved Differential Correction Report that shows a summary of the estimated accuracy ranges for the corrected positions.
- The Batch Processor utility has been updated with additional property pages for differential correction.
- The Base Provider list in the Differential Correction wizard has been updated to show different integrity index types, depending on the type of data collected at the base station. These types are:
 - Code
 - Single Frequency Carrier
 - Dual Frequency Carrier
- The WGS-84 reference frame has been updated and aligned with the global International Terrestrial Reference Frame (ITRF) definition. For GPS purposes, the WGS-84 and the ITRF-00 reference frames are the same. Reference frames for system-defined base providers in the base provider list are now provided using the ITRF reference frame.
- The real-time WAAS (Wide Area Augmentation System) correction option has been changed throughout the GPS Pathfinder Office software to real-time SBAS (Satellite Based Augmentation Systems). SBAS incorporates other regional systems, including WAAS, EGNOS (European Geostationary Navigation Overlay System), and MSAS (MTSAT Satellite Augmentation System). SBAS status is reported in the *Position Properties* dialog of the main program, the SSF Record Editor and the Export utility.
- The Configuration Manager utility has been updated so you can now create a configuration file for the TerraSync software, version 2.50 or later. You can configure which satellites the TerraSync software must track, or more easily configure Bluetooth® wireless connections using the expanded list of serial communication ports and Bluetooth Serial Ports.
- SNR values for TerraSync software files are now stored and displayed as Carrier-to-Noise ratio (C/No) values, measured in decibel-Hertz (dBHz). Previously, signal-to-noise ratio (SNR) values were stored and displayed as Amplitude Measurement Unit (AMU) values.
- The Data Transfer utility has been updated so that you can transfer some file types to any storage location on a GIS datalogger running the Microsoft Windows CE operating system and the TerraSync software version 2.50 and later.

NOTE: Due to a new satellite being launched, all customers with Pathfinder Office version 3.0 or lower are entitled to a free update to version 3.10. Please contact Electronic Data Solutions to obtain an install code.

Version 3.00 (September, 2003)

Enhancements:

- A Base Provider Integrity Index in the Differential Correction Utility displays quality indicator values for each entry in the differential correction base provider list. The values are used to determine which base stations will provide the best free base data.
- More detailed differential correction summary messages and a more detailed log appear in the *Differential Correction Completed* dialog.
- Trimble Virtual Reference Station (VRS™) systems are now supported. Single base and virtual base RINEX files can be accessed from a Trimble VRS system through the iGate Communication Protocol for post-processing.
- The base provider list includes an additional 700 base stations.
- A centimeter processing option allows carrier phase fixed position solutions to be generated in the Differential Correction module.
- ShapeCorrect is now a standard component of GPS Pathfinder Office software. Use ShapeCorrect to update ESRI Shapefiles with corrected GPS positions collected with GPSCorrect extension for ESRI ArcPad® software.
- The Data Transfer utility has been updated to support TIFF files sent to TerraSync software version 2.40 or later.
- Position Type reporting has been improved throughout GPS Pathfinder Office software to provide consistency. Position types are reported in the *Position Properties* dialog of the main program, and the SSF Record Editor and Export utilities.
- Support for the Windows XP Tablet PC Edition.

Version 2.90 (January, 2002)

Enhancements:

- Differential correction of SuperCorrect records logged using TerraSync software version 2.10 or later. SuperCorrect records provide increased accuracy and yield in positional data. This provides Differential Correction utility users with increased processing options, including filtering adjustments.
- Point symbols now use fonts for display in the *Map* window, rather than bitmap symbols.
- You can now assign a symbol to a feature in the Data Dictionary Editor and transfer it with the data dictionary to the TerraSync software version 2.10 or later.
- Complex offset support for point features recorded using TerraSync software version 2.10 or later provides support to display and edit multi-bearing and multi-distance based offsets. You can edit and view the offsets, and filter the offset information shown in the *Map* window.
- Nested line and area support allows you to view nested lines and areas on the Time Line.
- ASCII AutoCAD® DXF import provides support to import GIS data from DXF files.
- The differential correction base provider list now includes more than 300 additional base stations.
- Compressed RINEX (Hatanaka) base files are now directly supported by the Differential Correction utility.
- The new GPS Pathfinder Office Updater utility allows you to quickly and easily obtain software updates, language files, and documentation updates from the Trimble website.
- Support for the Windows XP operating system.