

# Features of GPS Analyst™, Pathfinder® Office, and TerraSync™

|   | GPS Analyst 2.40  | Pathfinder Office 5.20   | TerraSync 5.20  |
|---|---|--|---|
| <b>OS Compatibility</b>                             | Windows XP, XP Tablet, XP Pro x64, Vista, Windows 7   | Windows XP, XP Tablet PC Edition, XP Pro x64, Vista, Windows 7   | Windows Mobile 5, 6.x & Windows XP, Vista, 7 <sup>2</sup>   |
| <b>Minimum System Requirements</b>                  | <b>CPU Speed:</b> 2.2 GHz<br><b>Processor:</b> Intel Core Duo, Pentium 4 or Xeon; SSE2<br><b>Disk space:</b> 25 MB<br><b>ArcGIS:</b> Version 10 SP1<br><b>Internet:</b> Internet Explorer version 7.0/8.0 | <b>Processor:</b> Intel x86 architecture<br><b>Disk Space:</b> 300 MB plus additional space for geoid & data files<br><b>Internet:</b> Internet Explorer 6<br><b>Hardware:</b> USB serial port | <b>Mobile Device:</b> 32 MB RAM (at least 8 MB free memory), 200 MHz processor<br><b>Field Computer:</b> 64 MB RAM (at least 8 MB free memory), 500 MHz processor   |
| <b>Receiver Compatibility (data collection)</b>     | GPS Pathfinder Pro XT™/XH™, NMEA compliant-GNSS receivers <sup>1</sup>  | N/A  | Compatible only with Trimble GNSS receivers. Refer to MGIS compatibility chart: <a href="http://trl.trimble.com/docushare/dsweb/Get/Document-160913/">http://trl.trimble.com/docushare/dsweb/Get/Document-160913/</a> |
| <b>Native data format</b>                           | Esri ArcGIS® personal geodatabase (Microsoft® Access MDB only)  | Trimble SSF  | Trimble SSF   |
| <b>Rebuild features</b>                             | Yes <sup>3</sup>  | No   | N/A   |
| <b>Validation</b>                                   | Yes <sup>4</sup>  | No   | N/A   |
| <b>Batch Processor</b>                              | No  | Yes  | N/A   |
| <b>Differential Correction</b>                      | Yes   | Yes  | N/A   |
| <b>H-Star Collection</b>                            | Collection & Processing supported   | Processing supported   | Collection supported  |
| <b>Export<sup>5</sup></b>                           | Trimble SSF files   | 12 formats including SHP, DXF, KML/KMZ, etc.   | SHP   |
| <b>Data Dictionary Editor</b>                       | No <sup>6</sup>   | Yes  | No  |
| <b>QuickPlan</b>                                    | No  | No   | Yes <sup>7</sup>  |
| <b>Import</b>                                       | Esri Shapefiles from ArcPad® with Trimble SSF files from GPScorrect extension & Trimble SSF files <sup>8</sup>  | DXF, dBase, SHP, MIF, MDB  | SHP   |
| <b>SSF Record Editor</b>                            | No  | Yes  | N/A   |
| <b>Configurations</b>                               | No definition or use of configuration files   | Configuration files can be defined   | Configuration files can be used   |
| <b>Connection Manager</b>                           | No  | Yes  | N/A   |
| <b>Timeline Display</b>                             | No  | Yes  | N/A   |
| <b>Simultaneous Feature Collection</b>              | Yes   | N/A  | No  |
| <b>Check In/Check Out For ArcPad and GPScorrect</b> | Yes   | No   | N/A   |
| <b>Offset</b>                                       | Line, Area  | N/A  | Point, Line, Area   |
| <b>Segment</b>                                      | No (workaround)   | N/A  | Yes   |
| <b>Repeat</b>                                       | No  | N/A  | Yes   |
| <b>Continue</b>                                     | No  | N/A  | Yes   |
| <b>Laser Rangefinder</b>                            | No  | N/A  | Yes   |
| <b>External Sensor</b>                              | No  | N/A  | Yes   |
| <b>Navigation</b>                                   | Yes   | N/A  | Yes   |
| <b>Update features</b>                              | Yes   | N/A  | Yes   |
| <b>Logging Interval</b>                             | Time, Distance, Angle of deflection <sup>9</sup>  | N/A  | Time, Distance  |

Please see notations on reverse side.

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<sup>1</sup>GPS Analyst extension supports GNSS data collection using a NMEA compliant GNSS receiver. Any NMEA receiver that meets the following requirements is supported:

- Outputs both the GPGSA and GPGSV sentences
- Outputs one of the following sentences: GPGGA, GPGLL, GPRMC
- Outputs positions in the WGS-84 datum

GNSS data from NMEA receivers cannot be differentially corrected. The accuracy obtained with an NMEA GNSS receiver depends on the model of receiver and the method the receiver uses to calculate the GNSS position. For information about real-time correction capabilities and accuracy specifications, refer to the documentation for the NMEA GNSS receiver.

<sup>2</sup>The Windows Vista operating system, 32-bit and 64-bit are both supported. Windows Vista Starter edition is not supported. The Windows 7 operating system, 32-bit and 64-bit are both supported. The Windows 7 Professional operating system, 32-bit version, is the only version supported by the Trimble Yuma rugged tablet computer.

<sup>3</sup>Rebuild works hand in hand with validation to ensure that only certain GPS positions are used in the construction of features in the geodatabase. For example, a point feature that is made up of 12 positions may have one outlier. The feature can be rebuilt with an estimated GPS accuracy filter set. Less accurate positions will not be used in the construction of features.

<sup>4</sup>GPS feature validation allows you to check that any feature with a geometry derived from GPS data meets your estimated accuracy requirements. Features can then be reviewed, edited, rebuilt, or marked as exceptions.

<sup>5</sup>Data collected using GPSAnalyst is already part of a personal geodatabase, so there is no export step needed to make it useable in ArcGIS. Data collected by TerraSync however must be imported to the geodatabase.

<sup>6</sup>Data dictionaries can be exported out of GPSAnalyst or imported into a geodatabase, but not created or edited. Feature datasets with feature classes will become data dictionaries with features and attributes. Domains will become menu attribute values and/or numeric min/max values.

<sup>7</sup>The Plan module in TerraSync does not support planning for future dates or locations other than the present GPS position.

<sup>8</sup>Technically only SSF files collected in TerraSync 2.4 or greater or GPSCorrect™ 1.01 or greater are supported, although SSF files created by the latest Data Transfer Utility will work.

<sup>9</sup>Angle of deflection can be used in conjunction with time- or distance-based logging to record sinuosity of line or area features more smoothly. For example, if distance-based logging is set to 50 feet in conjunction with a 5 degree angle of deflection logging setting, when you start to go around a curve, every time your direction changes by 5 degrees, another GPS vertex is captured.



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