RELEASE NOTES

Trimble Positions ArcPad extension

These release notes provide important information about the Trimble® Positions™ ArcPad extension version 10.2.0.1. Please read these release notes carefully.

Introduction

Welcome to version 10.2.0.1 of the Trimble Positions ArcPad extension. The Trimble Positions software suite adds support for Trimble high-accuracy GNSS receivers using Esri ArcGIS for Windows Mobile and ArcPad technology.

The Trimble Positions ArcPad extension is an extension for the Esri ArcPad field data collection application on both the Windows® and Windows Mobile® platforms. The Trimble Positions ArcPad extension is used to control supported Trimble GNSS receivers and to collect high-accuracy Trimble geometry.

For detailed information on installing, configuring, and using the Trimble Positions ArcPad extension, see the *Trimble Positions ArcPad Extension Administrator's Guide* and the *Trimble Positions ArcPad Extension User Guide*.

New in this release

This section describes what's new in the Trimble Positions ArcPad extension version 10.2.0.1:

- **Esri ArcPad 10.2 support.** The Trimble Positions ArcPad extension now supports Esri ArcPad 10.2 (in addition to versions previously supported) using the traditional desktop-based check-out and check-in workflow (including QuickProjects).

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- **Support for the Trimble GeoExplorer® Geo 7 series and the Geo 7 rangefinder module**.
  - The Geo 7 series' orientation sensors are used to rotate the Skyplot, and to show the current heading in the Navigation section, even when stationary.
  - The Geo 7 rangefinder module, together with the orientation sensors, can be used to collect position offsets and record attribute information for distance and angle measurements.
- **Updated Skyplot screen**.
  - Each GNSS constellation being tracked and used is shown in a different color, with support for GPS, GLONASS, Galileo, Beidou, and QZSS.
  - The SNR graph on the Skyplot screen now also uses colors to represent each GNSS constellation, and only shows satellites that are being used to calculate positions.
- **The Plan screen has been removed**.
- **Improved connection handling for NTRIP-based real-time corrections**. The new version introduces a fixed number of retries to establish the connection to an NTRIP correction source. This applies when the connection is lost.

Issues addressed

This section describes issues that have been addressed in the Trimble Positions ArcPad extension version 10.2.0.1.

- **Missing prerequisite in Windows installation package**. The Windows installer for the Trimble Positions ArcPad extension now includes the necessary Microsoft Visual C++ Runtime prerequisite.

Installation and configuration

- You must install Esri ArcPad version 10.x before you install the Trimble Positions ArcPad extension version 10.2.0.1.
- You must install the Esri ArcPad Data Manager extension to Esri ArcGIS for Desktop before you can use Trimble Positions Desktop add-in in an ArcPad workflow.

Known issues

This section describes known issues with the Trimble Positions ArcPad extension version 10.2.0.1.

Localized Antenna.ini file

- Only the English language version of the Antenna.ini configuration file is included with Trimble Positions ArcPad extension. Download the translations of Antenna.ini from http://trl.trimble.com/dscgi/ds.py/Get/File-243622/TRANSLATED%20ANTENNA.zip and follow the included installation instructions.

Localized antenna height

- In regions and locales where the decimal separator is a comma, ArcPad still uses a decimal point to represent values, such as the antenna height, when displaying and storing values in the ArcPadPrefs.apx file. Localized versions of Trimble Positions ArcPad extension honor the decimal separator for such locales, leading to mismatched data. For instance, entering the antenna height in ArcPad as 1.66 m in a locale that uses the decimal comma results in Trimble Positions ArcPad extension interpreting the value as 166,00 m. Conversely, entering the antenna height in ArcPad as 1,66 m results in ArcPad interpreting and storing the value as 1 m.

Checking-in ArcPad files from network drives

- Trimble Positions Desktop add-in may fail to make a backup copy of an AXF file if the backup folder is located on a network drive. If this situation occurs, a record is added to the log file but the user is not notified.

Coordinate systems and spatial reference

- If you are using a real-time correction stream, preserve consistency between ArcPad and Trimble Positions ArcPad extension positions by making sure the GPS datum setting in the ArcPad GPS Preferences screen is set to the datum of the correction stream. If required, define the default datum transformation using the Esri Datum Configuration Tool installed on the desktop computer when ArcPad was installed.
- Define the correct datum and transformation in the Trimble Positions Desktop add-in to allow Trimble Positions and Esri feature positions to be properly aligned in the Esri ArcGIS for Desktop map document and the geodatabase.
- To avoid geospatial transformation issues, all active feature layers in an ArcPad project should be in the same geospatial reference frame.

Offsets

- Two-point offsets should have both of their reference positions recorded using the same method: GNSS or manual (map digitization). Each successive two-point offset should record new reference positions.

Counter-clockwise polygon features

- To reduce problems when working with enterprise geodatabases in Esri ArcGIS for Desktop, collect polygon features in a clockwise direction, whenever possible.

Memory usage

- Applications running on supported Windows Mobile and Windows Embedded Handheld platforms are provided a limited amount of the total run-time memory available on a device.
- The amount of free device memory is adversely affected by large coded value domains.
- As the Esri ArcPad software and the Trimble Positions ArcPad extension are both high consumers of memory during run-time, Trimble advises certain steps should be taken to avoid running of out memory:

- Only include as much data (including background data and raster files) as necessary in your project definitions.
- Reduce the spatial extent of your project to what is required.
- Use the WGS-84 coordinate system wherever possible.

Serial cable connections to external GNSS receivers

- If you use a Juno® 5 series handheld with a USB to serial adapter to connect to a Pro 6 series or GPS Pathfinder® ProXRT receiver, the connection is not reliable and may be lost completely.

  The following work-arounds are advised:

  - Use a Bluetooth® connection to connect the Juno 5 series handheld to the Pro 6 or ProXRT receiver.
  - If a wired serial connection must be used, use version 10.0.0.2 of the Trimble Positions ArcPad extension.

Technical assistance and documentation

If you have problems using the Trimble Positions ArcPad extension, the following documentation should be your first point of reference:

- The Trimble Positions ArcPad Extension Administrator's Guide.
- The Trimble Positions ArcPad Extension User Guide.

If you still cannot find a solution to the problem, contact your Trimble reseller.

Legal notices

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Release Notice

This is the November 2013 release (Revision A) of the *Release Notes*. It applies to the Trimble Positions ArcPad extension version 10.2.0.1.

For a complete list of all relevant legal notices regarding this product, refer to the Trimble Positions ArcPad extension End User License Agreement.