

# Layout 2.2.12.6

## Release Notes

January 15th, 2015

### New Features

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- **RTCM 3.1 Transformation Messages** are now supported for both horizontal and vertical systems.
- **Multiple LandXML** files can now be loaded at the same time.
- **Station Equations** on alignments are now supported in Roads Manager.
- **Label Element** option has been added to roading menu for displaying station labels along alignments.
- **New DXF Entity Support** – Added Lwpolyline support, improved 3dpolyline and circle.
- **Point Database and DXF Memory optimization** has been completed to allow more points and DXF files to be loaded on Windows Mobile Devices.
- **Station and Offset for Active Alignment** is now displayed in both Staking Results dialog and Staking Information dialog.
- Antenna Height has been added to the measurement toolbar for convenience.
- The Inverse result screen will now also display the calculated Vertical Direction angle.
- Added a new stakeout option to allow staking a point with respect to a line.
- Several places in the stakeout window have received icon updates.
- Start Station and Start Point for alignments have been relocated to prevent accidental editing.
- Added leveling dialog if the instrument is out of level when starting a scan.

### New Coordinate Systems and Geoids

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- **Africa** – Added UTM coordinate systems for Angola, Botswana, Francistown, Uganda, Zambia, Zimbabwe
- **Canada** – Added a new Canadian GNSS Systems group
- **Dominican Republic & Haiti** – Added EGM08 geoid file
- **Finland** – Added ETRS89-GKn and ETRS-TM35FIN coordinate systems
- **Indonesia** – Added Indonesia95 TM03 coordinate system
- **Libya** – Updated LGD2006 coordinate system zone names for better clarification
- **Russia** – Updated GK42 and GK95 coordinate systems (currently in BETA category)
- **Russia** – Added EGM08 geoid file
- **Swiss** – Added Swiss geoid 2004
- **United States** – Added new GNSS system groups for State Planes and UTM (NAD83 and HARN)

### Hardware Specific Updates

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- **Altus**
  - APS-3 – Improved Beidou signal tracking
  - APS-3 – The antenna list has been updated

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- **ComNav**
  - T300 – Added RTCMv3BD correction format
  - T300 – Improvements to the UHF radio module
  - T300 – Added battery status indication
  - T300 – Enabled NTRIP Caster server
- **FOIF**
  - A30 – Added Beidou Support and sCMRx correction format
  - RTS-350 – Fixed an issue with bubble direction in the leveling dialog
- **geo-FENNEL**
  - FGS1 – Added support for FGS1 GNSS receiver
  - FTD 02 – Added support for FTD 02 Total Station
- **GeoMax**
  - Zenith 25 Pro – Added support for Zenith 25 Pro GNSS receiver
  - Zenith 25 – Large source tables can now be properly loaded
- **Hi-Target**
  - QStar 6 – Added support for QStar 6 data collectors
  - QStar 8 – Added support for QStar 8 data collectors
- **Handheld**
  - Nautiz X8 – Added support for Nautiz X8 data collectors
- **Horizon**
  - K300 – Added Data Collector Internet option through Bluetooth connection
- **Juniper**
  - Archer 2 – Internal GNSS profile now shows up for all models
  - Archer 2 – GNSS satellite plot will now display properly when using internal GNSS profile
- **Kolida**
  - KTS-440 – Resolved a plate angle issue when Gon unit is selected
  - K96T – Added Data Collector Internet option through Bluetooth connection
- **Leica**
  - iCON robot60 – Fixed the communication issues with power search and IR tracking
  - 1100 Series – The driver for 1100 series of Total Stations has been separated out into its own category
  - 1100 Series – Users are now able to define up to 3 custom target profiles
  - Nova MS50 – Can now recognize if the side cover is open
  - Nova MS50 – Now notifies to update the firmware if GeoCom scanning and video licenses are not found
  - Nova MS50 – Messages for video streaming have been added throughout the scanning workflow to provide guidance.
  - General – Prism constant for User-Defined prisms will now accurate to a tenth of a millimeter

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- **Linertec**  
LGP-302 Series - Added support for LGP-302 Series of WinCE onboard Total Station
- **NavCom**  
SF-3040 – Radio will be turned off during StarFire navigation to save battery power  
SF-3040 – Baseline information now show up in all scenarios  
SF-3040 – Updated default frequency value for User-Defined StarFire channel to prevent error messages  
SF-3040 – Added 30s mount point SFGNSS.30 for StarFire Over IP
- **Pentax**  
SMT888-3G Rev 3 – Added support for SMT888-3G Rev 3 GNSS receiver  
G3100-R2 – Added support for G3100-R2 GNSS receiver  
W-1500 Series - Added support for W-1500 Series of WinCE onboard Total Station  
SMT888-3G – Resolved an issue with GSM modem initialization
- **Prexiso**  
G4/G5 – Provides better compatibility with firmware version 2.12+
- **Stonex**  
R2W – Fixed an issue with bubble direction in the leveling dialog
- **South**  
NTS-370R – Added support for NTS-370R Series of WinCE onboard Total Station  
NTS-360 Series – Resolved an issue when displaying Gon unit on a data collector  
S82-2013 – Added Data Collector Internet option through Bluetooth connection  
S86-2013 – Added Data Collector Internet option through Bluetooth connection  
S82-N – Improved the driver for S82-N GNSS receiver  
General – If the GNSS receiver does not support raw data logging, the dialog will not incorrectly show up if OnPoz tagging is checked

### Defects Fixed

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- Projects on Windows Mobile based data collectors can now be deleted.
- Renamed the option “Robotic Staking” to “Robotic Prism Tracking”. (Disable this option to enable Auto-Rotate to staking point).
- Fixed an issue where reverse line operation on a spline will cause the exported linework to not match with data collector.
- Fixed an issue with Splined Polyline – spline control vertices should not appear as part of the polyline.
- Resolved an invalid coordinate system error when switching between MTM and UTM.
- Canadian NAD83/Original systems will now have appropriate description text.
- Corrected an error when using WGS84 and CSRS coordinate systems
- Fixed an issue where the target height is not persistent through application restarts.

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- Fixed an issue where plate reading cannot be set at the end of the multiple backsight routine.
- Updated the default angular value for partial dome scan so it will not return an error.
- Fixed an issue where road manager will not load vertical parameters of an alignment.
- Relaxed the tolerance level when Force Tangential option is checked to reduce false alarms.
- Fixed an issue that caused backsight observations from face 2 to be normalized to face 1.
- Fixed an issue where the Total Station Icon is not displayed in Map View after reconnecting to the instrument.
- Software keyboard can now be used in the Scan Distance Filter tab.
- Scan sdb file handle will be properly released after transferring is done.
- Fixed a crash in stakeout map view due to graphical issues.
- Store Stake Point option is now defaulted to be ON.
- For Auto-Record Point function, fixed an issue where Standard Deviation tolerances are being ignored.
- Fixed a crash in ASCII export when selecting certain point range on Windows Mobile devices.
- Importing certain automap libraries will not create an extra row anymore.
- Exporting LandXML file with a modified point will no longer crash the program.
- Fixed an issue with certain R12 DXF files exported from Civil3D missing EOF marker.
- Fixed an importing issue with certain R13 DXF files that have extra sections.
- Error messages related to importing DXF files are now more specific.
- Fixed an issue where User-Defined coordinate systems cannot be created due to file access right.
- Coordinate system Details dialog should no longer prompt the user to restart the application.
- Scan Definition and Resolution should now be written dependent on the unit definition of the HeXML
- Having scan resolution smaller than the scan area is no longer an option
- Users can no long define scan area using the reverse side the scope
- Fixed an issue with draw tool that does not store point properly
- Fixed an issue with scan meta data where type does not match correctly
- Fixed an issue with loading automap template file if the project is in a non-default location
- ASCII export Angular Format option should properly set LLH values
- ASCII export on windows mobile devices no longer requires manually input extension name.