

# Layout 2.1.11.2 Release Notes

September 4, 2014

## Release Notes

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This new version will require a new license key.

Please backup previous Software License key, any custom coordinate files, MSurvey.ini file, and Setting.xml file when applicable.

## New Features

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- **Improved Stakeout Workflow and Graphics** – Significantly improved stakeout graphics and workflows. In addition to the traditional map view, you can now choose Compass view or Grid view. Different viewing directions can be selected to suit your preferences, and our new “Next Point” routine provides you with a variety of options to select next point to layout.
- **Video Points Scanning** – Point scanning routine has been greatly improved to allow user to define complex scan areas using total station onboard cameras, and transfer/export scan data with one simple click. Full dome and manual modes are also added to easily scan large areas.
- **Automatic Instrument Reconnection** – Users will now have the option to automatically reconnect to the previous instrument. This will happen in 3 scenarios, when application start-up, when instrument resumes from hibernation, or when device comes back in range after connection was dropped. If the “always auto-reconnect” option is checked, the instruments will be automatically reconnected without user intervention
- **New Project Creation Workflow** – Project creation workflow has been revamped. All project settings have been centralized in one location, and can be saved as default for future use. This combined with instrument reconnection allows you to create a new project and go to map view with only 2 clicks, and greatly improves work efficiency.
- **User-Defined ASCII Export** – User will now have the ability to define unlimited fields and formats in our ASCII export screen.
- **Multiple Points Backsight** – New Multi-Backsight routine can be utilized to combine multiple control points/directions and calculate a more accurate backsight orientation.
- **Bluetooth Device Manager** – Added a new Bluetooth Device Manager to store Bluetooth devices. When switching equipment, a user do not need to perform a new search, and the profile can be transferred to other data collectors easily.
- **NTRIP Caster Manager** – Users can now save all of the NTRIP settings in the caster manager, and can switch between and connect to NTRIP casters without entering the settings again. NTRIP profile file can also be copied to other devices directly.
- **GNSS Tolerance Override** – Users will now have an option to store GNSS measurements even when position tolerance is exceeded. Warning icons will be displayed when storing points with inadequate status.
- **Target Shortcuts improvements** – You can now set keyboard shortcuts for the first 12 targets in your Target Manager. Each shortcut will set target type, EDM mode, and target height automatically.
- **Audio Feedback** – Your data collector will now beep when GNSS Receiver loses RTK Fixed position.
- An option has been added to display used/free memory on the map screen for WinCE based versions.
- “Correction Age”, “Auto Skip Measurement statistics” and “Auto Store Measurement” settings has been moved to GNSS Tolerance Profile setting screen for easier management.

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- Added support for Columbia geoid GEOCOL2004
- Added support for Korea geoid KNGeoid2013
- Added support for New Zealand datum NZGD2000
- Added support for Norway geoid NN2000
- Added support for Poland geoid PL2011/PL2014
- Added support for Qatar geoids
- Added support for Finland coordinate systems ETRS-TM35FIN and ETRS89-GKn (central meridians n=19-31)
- Added RTS Commands in Calculate menu in MicroSurvey Layout

## Hardware Specific Updates

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- **Altus**
  - [F2499] – Added support for Satel SATELLINE-M3-TR3 radio on APS-3 based instruments
  - [F2483] – Added support for Telit H24 modem module
- **CHC**
  - [F2477] – Added BDS constellation support for CHC X91+ GNSS receiver
  - [D6955] – Two additional radio protocol has been added for the internal SATEL UHF module
- **ComNav**
  - [F2554] – Added support for ComNav T300 GNSS receiver
- **GeoMax**
  - [F1750] – Zenith 10/20 – Added support of mixed static/kinematic raw data logging on receivers.
  - [F1750] – Zenith 10/20 – Now supports BeiDou Constellation. BDS tracking is only available with Zenith20.
  - [F2363] – Zenith 25 – Added an ability to stream NMEA messages via serial port of the receiver to a third-party device
  - [F2364] – Rinex logging can now be enabled via field controllers. BDS is only possible with RINEX 3
  - [D2365] – Add support for Zipp20 total station
- **Kolida**
  - [F2407] – Added support for KTS-440 series of total stations
  - [F2576] – Added support for Kolida K9TX GNSS receiver
  - [F2552] – Added support for Kolida K96T GNSS receiver
- **Laser Technology**
  - [F2559] – Added support for TruPulse 360 Series of laser range finder
- **Leica**
  - [F2501] – iCR60/iCB60 – Added support for iCON 60 Robot and Builder total stations
  - [F2475] – Now record covariance and baseline information in raw file
  - [F2488] – Nova MS50 - Added Full Dome & Partial Dome scanning options

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- **NavCom**
  - [F2478] – Added Solution types for RTK WL Fixed, RTK L1 Fixed, and RTK Dual Fixed.
  - [F2334] – StarFire – Added ETRS89 as one of predefined transformations.
  - [F2485] – Added "Source" option in the GLONASS RTK Bias screen and RTK-X (3<sup>rd</sup> party) option in the StarFire Setup screen. (E.g. supported 3rd party manufacturers are Novatel, Trimble, JAVAD, Topcon, and Leica)
- **Pentax**
  - [F2164] – Added instrument model names to Instrument Information dialog.
  - [F1980] – Added support for Pentax G2100 GNSS receiver
- **Prexiso**
  - [F1750] – G4/G5 – Added support of mixed static/kinematic raw data logging on receivers.
- **South**
  - [F2412] – S82N – Added support for S82N GNSS receiver.
  - [F2412] – S82-2013 – Added support for the new XDL radio option in the S82-2013 GNSS receiver.
  - [F2453] – S760 – Now supports high precision S760 data collector.
- **Stonex**
  - [F2408] – Drivers for Stonex GNSS receivers have been grouped as "S Series"
- **Linertec**
  - [F2496] – Added support for Linertec Total Stations.

## Defects Fixed - General

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- [D5927] – In point database, Average button will only be active when multiple points are selected.
- [D6051] – Cancelling staking now returns you to Stake Point screen instead of Point Toolbar.
- [D6298] – Shortcut "Select EDM Mode" has been renamed to "Target Manager".
- [D6684] – Fixed an issue with NAD27 - NAD83 conversion when using VERTCON datum.
- [D6856] – Rephrased an error message when the connection is lost between instrument and controller.
- [D6857] – Fixed a display issue when importing certain MSCAD projects.
- [D6929] – Fixed a Gradian unit typo in Units and Scales screen
- [D6915] – Fixed an issue where custom raw file or automap file name were not saved under certain scenarios
- [D7020] – Fixed a software crash when clicking on certain types of line in map view.
- [D7006] – Observe Again button in backsight routine will not crash the program.
- [D7019] – Observe Again button in resection routine will not crash the program.
- [D6997] – You will now be able to exit staking screen when "Display Point Layout Screen" option is unchecked
- [D6997] – The program will not display a large offset when staking list is empty and "Display Point Layout Screen" option is unchecked

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- [D7005] – When users select a point using point list in the Staking Elevation routine, the program will not retrieve elevation instead of point ID.
- [D7005] – When users select a point using map view in the Staking Elevation routine, the program will not lock up now.
- [D7002] – You can now select a point when “Station Point” is defaulted in the Perpendicular Offset to Point routine
- [D6986] – “ASCII Export BETA” routine has been merged into “ASCII Coordinate File Export” routine
- [D6985] – An issue with scroll bar blocking right side of point database has been addressed
- [D7033] – Fixed an issue where translations will cause ASCII Export routine fail to export points
- [D7029] – Fixed a transformation issue with Swiss projections
- [D7022] – Updated button text in Line Staking routine, to make it consistent between Landscape and Portrait mode
- [D7004] – The program will now warn user if the total station is not properly set up before entering point scanning routine
- [D6997] – Fixed a display issue that staking screen flashes repeatedly on larger resolution screens
- [D6652] – “Observe Again” button in Resection routine will take you back to resection dialog instead of map view.

### Defects Fixed – Device Specific

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- **Altus**
  - [D6435] – Antenna Reference Points (ARP) calculation has been corrected in Static Mode. Please check with Altus to download the latest APS firmware and antenna database.
  - [D6866] – Improved compatibility with Telit H24 modems
- **CHC**
  - [D6955] – The duplicate UHF radio module option has been removed.
- **GeoMax**
  - [D7018] – Fixed an instrument authentication issue with Juniper Mesa
  - [D7007] – The missing default prisms have been restored in the target manager
  - [D6956] – The program can now be re-launched on WinCE platform without the need to power cycle the device
  - [D6995] – Increased default time tolerance setting, the reflectorless shots can now go beyond 130m
- **Leica**
  - [D6767] – Fixed an issue where antenna height hook offset was applied twice.
  - [D6840] – GS10/14/15 should always show up in the Instrument Selection screen on Windows/Tablet
  - [D6923] – Nova MS50 – Fixed an issue where reflectorless shots cannot be taken in certain conditions
  - [D6931] – Flexline TS02/06/09 plus – Prism constant and target names should now properly displayed as Leica equipment
- **MicroSurvey**
  - [D6841] – DC5 controller – Internal GNSS is now a default profile under GNSS Rover instrument selection.

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- **NavCom**  
[D6947] – Increased default correction age settings for StarFire and RTK-X.  
[D7032] – Fixed the limits of frequency range in user-defined StarFire configuration dialog
- **Stonex**  
[D6714] – R2W Plus – Fixed and issue with Device ID generation.
- **South**  
[D7016] – When internal GSM module resets during source table retrieval, the program will now display what has been retrieved rather than displaying an error message.