

# Evidence Recorder 10.3.14.3

## Release Notes

2015-07-28

### New Features and Changes

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- **Redesigned GNSS Local Transformation**
  - All new easy-to-use interface
  - Ability to export/import localization files
  - Added 7 parameter Helmert transformation
  - Ability to delete or reuse control points
  - Improved scaling and many other options
- **DXF Enhancements**
  - DXF Blocks are now supported
  - Extrusion vectors on various entities are now supported
  - Improvements to circles and other entities types
  - Layer visibility settings from CAD programs will now be honored
  - Added a dialog to show entities being during import
- **Electronic Bubble Support** – Tilt compensation/Rejection is now available on supported GNSS receivers that enables tilted surveying at corners or edges of walls.
- **GIS Attributes for Figures**
  - GIS Attributes are now supported for figures
  - Users can quickly select Default/Previous attribute values for both points and figures.
- **Unicode Encoding Support** - Unicode is now supported throughout the program, which includes point descriptions, profiles, settings, exported files, and more.
- **ASCII Export Improvements**
  - Added the ability to sort points by either time or point ID
  - Post-processing time markers can be exported in either GPS time or UTC time
  - The encoding of the export file can be either ANSI or Unicode
  - Added an option to export all measurements used for averaged points
  - More options are available for custom ASCII export formats
- **Basic Measure Mode** – a new measure screen has been added for total Station onboard version that allows quick measurements without even creating a project.
- **Total Station Target and Measurement Improvements** – Target and EDM updates are now more consistent between FieldGenius and total stations. Each measurement is noticeably faster.
- **Dynamic Screen Rotation** – FieldGenius now dynamically rotations between landscape and portrait mode on Windows 8.1+ tablets.
- **Total Station Angular Precision Control** – Angular measurements from total stations can now be rounded to different level of precisions.
- **More Serial Ports** – Choosing <COMXX> option during connection setup will allow user-definable COM port from 1 to 99.

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- GNSS Auto Store mode prompts for interval selection automatically
- Decimal feet has been replaced by feet and inches throughout the program
- Entering licensing key should be easier now with cursor auto-advancing
- Added CST ASCII output format for compatibility with Leica ECLIPSE Neo
- Special supports have been added for Japanese JENOBA network
- Post-Processing Tagging option is now always enabled
- Observation toolbar state now persistent between sessions
- Stakeout viewing modes are now persistent between sessions
- Show ToolTips option is now persistent between sessions
- Standard deviation values have been added to the averaging screen in point database.
- Grid view has been enabled on the PC/Tablet version
- Improved the resolution on certain icon images
- Headers for ASCII export is now defaulted to be OFF
- Improved screen focuses on various button during connection process
- Improved various error messages in the ASCII Import

### Hardware Specific Updates

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- **Altus**  
APS-NR2 – Added support for APS-NR2 GNSS receivers
- **ComNav**  
T300 – Correction messages will no longer be outputted when switching from Base to Rover mode  
T300 – Fixed an issue with Averaged Position in the base mode always stay the same
- **FOIF**  
A30 – Electronic Bubble/Tilt Sensor support has been added for this instrument  
A30 – Fixed a problem with GSM module when requesting source table  
A30 – Updated antenna calibration values and add hook offsets  
RTS-350 – Added an option to enable/disable laser dot in the instrument settings
- **GeoMax**  
Zenith 04 – Added support for Zenith04 data collectors  
Zenith 10/20 – Fixed a cosmetic issue with satellite plot where satellites are showing as not used in solution. (This fix requires ME firmware v6.600 or newer)  
Zenith 25 – Fixed a compatibility issue with Quebec network RTK service  
All Total Stations – Improved target list in Target Manager
- **geo-FENNEL**  
FGS 1 – Correction messages will no longer be outputted when switching from Base to Rover mode

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FGS 1 – Fixed an issue with Averaged Position in the base mode always stay the same

- **Hi-Target**  
V30 – Resolved a compatibility issue with CORS-TR network
- **Handheld**  
Nautiz X8 – Splash screen now display correctly  
Nautiz X8 – Fixed an issue that stakeout screen causes memory issue  
Algiz 10X – Added support for Algiz 10X tablets
- **Hemisphere**  
S320 – Added support for S320 GNSS receivers
- **KOLIDA**  
K96T – Driver updated as instructed by KOLIDA
- **KQ GEO**  
M8 – Added support for M8 GNSS receivers  
K8 – Added support for K8 data collectors
- **Leica**  
Viva TS16 – Added support for Viva TS16 total stations  
Nova TS60 – Added support for Nova TS60 total stations  
Nova MS60 – Added support for Nova MS16 multi stations  
CS20 – Added support for CS20 data collectors  
CS35 – Added support for CS35 data collectors  
GS14 – Resolved an GSM module compatibility issue with firmware 5.61  
1100 TCRA – Significantly reduced measurement time and improved target management  
iCON robot 60 – Improved power search and tracking  
ZenoConnect – Added support for ZenoConnect series of GIS devices with improved antenna profiles
- **Linertec**  
LGP-300 Series – Added an option to enable/disable laser dot in the instrument settings  
LGP-300 Series – Can now be connected through data collectors
- **NavCom**  
SF-3040 – Added support for FEC control for SF-3040  
SF-3040 – Fixed an issue with auto-store function in time internal mode
- **Pentax**  
W-1500 Series – Can now be connected through data collectors  
W-1500 Series – Added an option to enable/disable laser dot in the instrument settings  
W-1500 Series – Level of angular precision has been improved  
W-1500 Series – Added Battery indicator

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W-1500 Series – Fixed an issue where switching between No Prism modes will stop measurement updates

W-1500 Series – Tilt correction check is now set to 3'20"

W-1500 Series – Added a warning message for class 3R laser

W-1500 Series – ESC button will cancel/stop loop measurement mode

G3100-R2 – Antenna calibration values have been updated

P7H – Added support for P7H data collectors

All GNSS receivers – Antenna definitions have been updated (requires latest firmware)

- **Prexiso**

G4/G5 – Direct dial (CSD) option has been added

- **Spectral Precision**

SP80 – Added support for SP80 GNSS receivers

- **Stonex**

W-R2W Plus Series – Added an option to enable/disable laser dot in the instrument settings

- **South**

S650/S660 – Added support for S650/S660 GNSS receivers

GALAXY G1 – Added support for GALAXY G1 GNSS receivers (Electronic Bubble supported)

NTS-36R0 – Fixed an angular issue when using gradient unit on data collectors

- **Topcon**

Hiper – Fixed an issue where Arwest radio is not responding quick enough to driver's request

## Coordinate Systems and Geoids

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- **Various Geoid and Grid Shift files have been added, check Help Desk on MicroSurvey.com for details.**
- South Africa Harebeekthoek94 has been changed to South orientated
- Using Japanese JDG2K coordinate system will no longer display Invalid Projection messages
- Switzerland CH1903.LV03 3 parameter system has been added to work with SWIPOS

## Defects Fixed

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- Fixed an issue that deleted point still showing up in the ASCII exported files
- Fixed a problem in determination of geoid undulation for orthometric heights when using RTCM transformation
- Fixed an issue where Stored survey role will cause missing reference information
- "Fade out Laid out point" option should now work if Layout List is not used
- Fixed a memory issue with staking routine

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- Fixed an issue with finding the next nearest point during stakeout
- RTCM Transformation field in Link information screen now display “Not Applicable” if not used
- Click on Back button in the RTCM option window will no longer reset the messages timer
- Add points to staking list should no longer reset survey role for the points already staked out
- Adjust point for localization will now adjust more than 250 points
- Automap name can no longer be edited if a template is used
- Show/Hide All Project Data will now be properly deactivated when existing from line staking mode
- The last connected receiver information is now appropriately saved to address reconnect button issue
- Fixed an issue where measurement observation averaging is too fast in when DCI with RTCM is used
- Translations should not affect the visibility of default ASCII export formats anymore
- Automap template file location is now properly saved so the software will not ask for it every time
- Cancel out of orientation setup will no longer continue to measure backsight
- Fixed an issue where ASCII export does not process all point range
- In Automap editor, point size will now be saved if color is changed
- Reopen a project with custom raw file name will no longer load default name instead
- Standard format in ASCII export will once again include Note in the Description separated by a colon
- Localization adjusting point will no longer crashes the program if no instrument is connected
- Fixed an issue with NETWORK option when acquiring RTK corrections
- Specially characters are now being handled correctly in the LandXML export
- Resolved a crash from reading Chain element in the LandXML surface file
- Non-ASCII characters in the settings.xml should no longer cause device profile saving issues
- Having ‘+’ sign in height will not cause ASCII import to ignore the field
- Fixed a special parsing issue with RTCM transformation
- Cancel out of the staking/layout list after finding 0 points will no longer crash the application
- Fixed an issue where exceptionally small DXF arcs and circles will cause application to crash
- Fixed an issue where dropdown list does not showing up occasionally
- Fixed various issues related to point scanning
- Edit Staking List should no longer causes layering issue
- Measurement toolbar will stay in staking mode after disconnect during stakeout and reconnect