

Evidence Recorder – 7.1.0 Release Notes

Released on: August 20, 2010

Important Notes

- We will be dropping support for several older builds of Evidence Recorder including: Allegro CE, Toughbook, Recon.Net, Ranger.Net, Ranger CE, and the FC-100.
- The GPSPROF.DBF and GPSFUNC.DBF file will no longer be used by Evidence Recorder. All GPS related settings and profiles are now saved in the msurvey.ini file.
- Demo mode is now limited to a run time of 15 minutes. Also projects with more than 10 points cannot be opened with handheld devices running Evidence Recorder in demo mode.

Backup Important Files

We suggest you backup several import files before you proceed with the upgrade.

- **MSURVEY.INI** – This file contains program defaults and your instrument profiles. This file is located in the “MicroSurvey EVR7\Programs” directory.
- **GPSPROF5.DBF** – This file contains your GPS receiver settings. This file is located in the “MicroSurvey EVR7\Programs” directory.
- **AutoMap Files** – Any custom AutoMap files that you might have created should be backed up. These files usually reside in the “MicroSurvey EVR7\EVR Scenes” directory.

New Features

GPS Tolerances – Friendly names can be saved for GPS Tolerances.

GPS Profile and Function Files – Starting with the 4.3.0 version, the GPSFUNC.DBF and GPSPROF.DBF files are no longer used. All GPS profile settings are now saved in the msurvey.ini.

Observation Toolbar – A new observation toolbar is now available. New features include:

- Multi page options lets you see different data views
- Easy text resize option lets you increase font size
- Current angles and distance from total station is displayed
- Current position Lat and Long, or Cartesian coordinates are displayed when connected to GPS receivers.
- RMS values and DOP value can be viewed
- Devices with continuous data updates such as robotic instruments and GPS receivers will display live updates of positions and measurements.
- Stakeout information now displayed in the toolbar
- Display direction and distance to stake point for easier navigation with GPS

GPS Bluetooth Manager – You can now control and setup your Bluetooth connection directly inside of Evidence Recorder.

GPS Disconnect - We added a “Instrument Disconnect” to the GPS Task menu so you can easily disconnect from your GPS receivers.

GPS Profile Changes - You can now change settings in your GPS profile without disconnecting from the receiver first.

Bluetooth – Added a 5 second delay to ensure that the Bluetooth radio has had sufficient time to initialize before Evidence Recorder tries to connect.

Bluetooth Power – Evidence Recorder will always turn off the Bluetooth radio when you exit Evidence Recorder. It will also turn it on automatically when you initiate a Bluetooth connection from Evidence Recorder.

Bluetooth Persist – Added an option that forces Evidence Recorder to not turn off the Bluetooth radio when exiting the program. The setting is found in Options | System.

Inverse Toolbar – Inverse toolbar has been improved to fix focus issues when selecting points from the screen.

Inverse Toolbar – More intuitive controls with a consistent look and feel to other recently updated toolbars.

Netherlands Grid and Geoid – Added support for the Netherlands RD-NAP grid and geoid.

Toolbar Help – Added an option to get help on toolbars in Evidence Recorder. On the second level of the top toolbar you will see a new help button. Pressing it will display a list of toolbars that help can be displayed for.

Nearest Point – A new option is now available in the Stake Point screen. At least one measurement has to have been made before this option is available.

ASCII Import - Assigned Role feature now available in the ASCII import screen. Lets the user import a set of points and assign them to the staking list, as control points, user defined, or other.

ASCII Import - SP (Store Point) records can be omitted from the raw file when importing an ASCII file.

Fixed

Altus Receiver – Many changes and improvement for the Altus APS-3 receiver including:

- **External Antenna** – Added antenna offsets for the Septentrio PolaNt* GG antenna
- **APS-3 Internal Antenna** – changed default offset from 104mm to 114mm.
- **APS-3 Internal Antenna** – added slant option for the internal antenna
- **Battery Status** – Can now see the battery state for the internal batteries
- **Logging Rate** – Added option for 15 seconds
- **RTK Float** – added option to define RTK Float in tolerance settings
- **Trimble Protocol** – added ability to use Trimble Trimtalk protocol with the internal radio.
- **CMR and CMR+** - Glonass corrections now work with these message protocols.
- **Raw Data Logging** – antenna height saved in SBF file.
- **Raw Data Logging** – point id now saved in SBF file.
- **Raw Data Logging** – file warning if user tries to start logging in a previous file.

- **Raw Data Logging** – Evidence Recorder will no longer permanently change the recording method to file name.
- **Scrambling** – user can turn scrambling on for the internal radio
- **Pacific Crest PDL** – Added ability to set the radio as a repeater.
- **Pacific Crest PDL** – Added ability to set the Digi Squelch to low, medium or high.
- **Altus Playback** – Added support for playback of SBF files by including the necessary group definitions.
- **Altus** – Reset RTK Engine button added to GPS Tasks lists.
- **Altus / RINEX / LGO / TGO Support** – Better support for adding stop-and-go occupation records to the receiver raw data logging file. This allows LGO and TGO to process multiple occupations in a single RINEX file.
- **Marker Name** – Marker name in the SBF defaults to the name of the SBF file name specified by the user.
- **ANT# / TYPE** – Antenna type in SBF file now defaults to the NGS antenna name for the APS-3 which is “APS_APS-3 NONE”

Leica RX1250 – Bluetooth wasn’t working in the 4.2.0 release.

Topcon GR3, Ga and Gb – Digital UHF radio now compatible with this release.

Sokkia ISX 2700 – User can assign radio frequencies for the operation of the internal radio.

Desktop Version Descriptions – descriptions were not persistent.

Startup Wizard – Sometimes when starting a new project, the user would see the main menu instead of the occupy point dialog when using the new project setup prompts.

Stake Point On Line – The last point staked would be displayed on the “Turn To” dialog title.

Predetermined Area – Solution A or B text was not appearing in the map screen.

Offset Line – Descriptions are no longer copied from the points on the original line.

Offset Line – When offsetting a closed figure such as a box, the last figure would not appear when the project and closed and opened. This is now fixed.

Offset Line - Distances are now scaled according to the project input scale factor.

Station Point - Distances are now scaled according to the project input scale factor.

Offset Point - Distances are now scaled according to the project input scale factor.

Trimble R8 – issues configuring external Trimark radio are resolved.

Trimble R8 – the internal radio on base receiver would enable itself when configuring external radio port. This is now resolved.

Trimble R8/R7 – Fixed problem where users could connect to the receiver but couldn’t see any satellite, DOP or radio settings.

GPS Staking – GK record is now stored for point staked with GPS. This will allow cut sheets to function properly.

Base Receiver AH Record – The AH record is now recorded for the base position when using average position.

Bluetooth Search – Fixed an issue that could cause a crash if a found device was no longer available while Evidence Recorder was still searching for Bluetooth devices.

Resection Routine does not allow full screen keyboard input

Leica 500 radio link problem resolved

Javad Triumph - Radio connection / configuration issues with the Javad Triumph have been resolved.

Crash New Project – If you tried to create a new project while a project was already open and a figure was active, the program would crash.

File Names – Some parts of the program allowed the user to save a file even when no name was specified.

Invalid Characters – Invalid characters that can cause issues with file exports are now validated before storing. For example the “character would cause parsing issues with LandXML files.

Max & Min Point Range – User was allowed to store points outside the min and max point range if the “use next id” option was used.

Select Chain – The select chain options when building a road to stake was broken.

ASCII Import - Importing ASCII files that have incorrect delimiter will now display a warning message that the point was skipped.

ASCII Import – Default file format is now standard.

SRX Stakeout – IR Rapid mode now used instead of IR Tracking for real-time stakeout with the SRX robot.

Improved

Level Instrument – Increased the size of the visual graphic of the level bubbles and made the text font larger for easier viewing outside.

ISX 2700 – Evidence Recorder will now query and display the current frequency and transmit power.

East / Northing ASCII Files – If the user has the coordinate order set to East / North or X / Y, Evidence Recorder will assume that ASCII files imported or exported are also in this format.

Inverse Toolbar – The inverse toolbar sometimes had focus issues and wouldn't allow the user to pick the points from the map screen.

Inverse Toolbar – Organized options for arc inverse types from buttons to drop down lists.

GPS Antenna Manager – We updated the GPS antenna manager to conform more closely with the [NGS GPS Antenna Calibration Database](#). Antenna offsets used by Evidence Recorder can be easily cross referenced to the NGS website, or to existing antenna specifications documents.

GPS Position Information – When you select the Position Information from the GPS task list you will now see a detailed list of information relating to the current position being processed. You can see both Cartesian, Geodetic, RMS, PDOP, Baseline Length, horizontal & vertical datum, solution type, and satellites used in the solution all on one screen.

Visibility Settings – settings now saved to msurvey.ini file.

Visibility Settings – moved to Options Menu under “Point Labels”

Visibility Settings – Now accessed with a new button on the second level of the visibility toolbar.

Visibility Toolbar – Updated the second level of the visibility toolbar to include quick access to the Layer Manager, Surface Manager, Point Settings and a new help button.

Translated Versions – Non English versions of Evidence Recorder will now automatically detect localized resource files and automatically load them for the user.

New Raw File – The new raw file command will now default the new raw file name to the current project name, date and time.

Import / Export ASCII – both options now default the format to “standard”.