MicroSurvey

MicroSurvey FieldGenius 3.3

Release Notes

MicroSurvey FieldGenius 3.3 (v 3.3.10953)

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FieldGenius 3.3 introduces major stability and performance improvements, faster Bluetooth connectivity, streamlined field workflows, and expanded GNSS hardware support. This release also adds new productivity features, improves compatibility with FieldGenius Legacy workflows, and delivers numerous usability enhancements across the platform.

New Features

Platform Updates

Significant platform updates have been implemented to improve performance and stability. These fixes reduced the most common FieldGenius crashes when opening pop-ups (point list, line list, or other list selections) and context menus (three-dot menu items).

Productivity Improvements

- **Bluetooth refactoring** – connection time reduced by approximately **50–60%**
- **Reconnect pop-up for RTK corrections** – quickly re-establish the previous RTK stream [video]
- **Batch Export** – export multiple formats simultaneously with a single click [video]

Additional Features

- **Input field calculations** – perform simple math calculations and unit conversions directly in COGO input fields [video]
  Input filed entries variations can be found here:
  - **Distance** values: FieldGenius Help - Inline Calculations - Distance
  - **Angular** values**:** FieldGenius Help - Inline Calculations - Direction
- **FGARCHIVE project backups now include XREF files**, ensuring external references are preserved when sharing projects [video]
- **DXF import improvements** – DXF/DWG entity colour are now preserved during DXF/DWG import and export (previously only layer colours were supported) [video]
- **Stake Surface** – users can now stake project surfaces directly, with a new “Outside of

Surface" visual indicator added to the map view (previously, only XREF surfaces could be staked). The stake surface function works with blank map tiles and cannot be used with a background map
- **Improved Snapping** [video]
    - Snap to **line intersections** with the option to select the elevation of the line
    - **Perpendicular snap** now calculates the elevation of the snap point
- **Next available point number** is automatically set to the first available point in the series when reopening a project [video]
- **Added persistence for "Map – Follow current position"** setting; user preference is now retained across sessions once changed (default remains OFF)
- **GNSS Reports: Default settings updated** — all columns are now selected by default to prevent empty reports
- **Point Export: Labels now follow Units and Scale settings** (X–Y–Z applied when configured)
- **New Code** – users can now create codes containing characters unsupported by DXF layer naming rules; unsupported characters are automatically removed from the default layer name
- **FieldGenius Windows** now starts in full screen mode

FieldGenius Legacy Compatibility

- **LOC file import support** - allows to read GNSS local transformation parameters from Legacy to new FieldGenius [video]
- FieldGenius can import point text files containing a space before the point number, matching the Legacy implementation

Driver Updates

- Added support for Leica GS05/GS05 CE [requires the 4.3 Zeno Connect Application]
- Instruments that use the Leica 4.3 Zeno Connect Application can now enable and disable tilt within the FieldGenius application
- Added new Emlid drivers - RS4, RS4 Pro with tilt, RX2 (no tilt yet)
- Added support for Leica PPP service
- Added support for Toknav PPP service

Defects Fixed

- **Leica GS18**: Fixed connection issues with GNSS Mobile, including NTRIP validation errors when using Mobile Data
- **Leica GS18**: Resolved intermittent crash when using Data Collector Internet (e.g., during mountpoint selection)
- **Leica GS18**: Fixed Extended OWI error preventing corrections after reconnection (no longer requires device reboot
- Fixed Communication issues of the non-robotic total station **GeoMeasure GM52**
- Fixed incorrect labelling for averaged points in the Observation List (now displays N/E/H instead of ΔN/ΔE/ΔH)
- Fixed an issue where the COGO Traverse result panel did not display calculated values on Windows (both TL and MP forms); results now appear correctly as expected
- Fixed an issue in the **Leica FlexLine driver** where the target icon did not update after changing the target type; the icon and observation details now correctly reflect the currently selected target
- Fixed RAW export issue where distance values included commas, causing invalid format and STAR*NET import errors
- Fixed an issue where users could not create a custom coordinate system from the coordinate selection menu during new project setup
- Improved performance when adding points to the stake list from the Point List; operation time is now consistent with import workflow (reduced from ~1min to a few seconds)
- Fixed an issue where the map did not follow the current prism position
- Fixed issue where Total Station F2 setup caused incorrect results
- Fixed an issue where Map View did not refresh after applying a GNSS Local Transformation; point positions now update immediately without requiring project reopen
- Fixed an issue where filters were not cleared after deleting filtered points in the Point List; filters now reset automatically after deletion
- Resorted Area calculation functionality as implemented in 2.3 version

Known Issues

- **Leica GS16** - UHF internal radio module may report “Incompatible Radio Settings” despite correct configuration, preventing RTK operation
- **GeoMax Zoom80** with **ZRT81 radio handle** does not work
- **FOIF A90** – “Invalid GNSS message” error may occur when using NTRIP corrections
- **FOIF A90** – IMU calibration and initialization are currently not functioning correctly
- **PinPoint Nano 7**: GNSS Mobile internet connection may fail on Archer 4 devices running while the same configuration works correctly on Mesa 4 and BMT8 controllers.
- On **some Leica robotic** total stations, the prism lock state may not be retained after storing a point, requiring the lock to be manually re-established
- **GeoMeasure GM52**: sometimes not taking distance measurement
- **GeoMeasure GM52**: does not recognize F2 observation
- FG may crash when switching between portrait and landscape orientations during measurements on the Survey screen.
- **Stonex R20** - Unable to change targets
- **Leica CSX8 tablet** - Configuration Files Reset to 0 KB [After upgrade to Android 14]
- **Leica CSX8 tablet** - Unable to use internal antenna
- **Juniper Archer 4**, the Change Prism button only respond when pressed in bottom left corner
- **Mesa 3 tablet** may freeze after ~30 minutes of surveying when map lock and linework are enabled, potentially causing an Android Abort crash on the Measure page; Recovery requires a full power cycle of the Mesa 3 device.
- **GIS Attributes** - Default True/False is reversed
- **GIS Attributes** – averaging a point that contains GIS attributes may fail with a “Repository Operation has failed” error message
- **Raw file issues** with Star*NET import: Raw file export is written differently than FieldGenius Legacy when storing Totals station Backsight direction and point simultaneously (Workaround: Observe Angle only then take side shot separately)
- **Rotate/Translate/Scale**
    - When observed points are transformed, the Observation Detail page and GNSS report display the observed Cartesian coordinates, while the point list displays the transformed coordinates
    - Points containing GIS features cannot be translated, rotated, or scaled

- **CHC drivers** available only on the Android platform
- **Auto-recording** - delay in storing points when collected in 1sec paste
- **Import DXF/DWG** – various issues while importing CAD drawings
- **Septentrio NR3** - Issue with receiving corrections
- **Spectra Precision 60** – Issue with configuring UHF radio
- **3D View** - Is only available on Android. Windows users can only view in a 2D top-down view
- On some Android devices, FieldGenius does not automatically launch after installation. However, it is installed; the Application must be started manually
- **Czech S-JTSK Issue**: Coordinate conversion error when adding from external reference between Quadrant 1 and Quadrant 3, and vice versa