

Version: 1.6.2.4308

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Major Features:

Custom Coordinate System

Support for defining custom coordinate systems has been added. Users can now define a custom coordinate system and it will be saved to the CSMAP file in the configuration folder. The custom coordinate system parameters will also be archive with the project. If a user archives a project on one device and then restores it on another the custom coordinate system will be available for use on the new device.

Web Map Services Access

The ability to select publicly available web map services (WMS) had been added to the Map Tile page in settings. The user can input the URL for a publicly available WMS server and then select a map to be added to the configure panel. A WMS map can then be selected for display from the Map Display Configuration Panel.

Three Point Tilt Solution

Tilt support for GNSS devices with an inclinometer can use a three point solution to obtain a location. Currently supported devices are limited to the Stonex S900A, S850A, GeoMax Zenith 35 and Pentax G6.

Note: FieldGenius for Android does not support many legacy devices that use a magnet compass and an inclinometer to determine the tilt of a GNSS receiver. These devices typically require calibration using the OEM software which typically only run on the windows operating system and the Android OS. As a result, the user would not be able to calibrate the GNSS magnet compass for use in FieldGenius for Android.

Project Archive and Restore

The ability to backup projects has been added to the application. On the Projects page select a project and then the three-dot menu and the backup option to archive the project. Archived projects are store in the FieldGenius Archive folder. The projects can be shared and imported to other devices and then restored if a user wants to switch devices when working on a project. Use the three-dot menu next to New Projects to restore an archived project.

Line Staking

Improved the line staking function to add support for staking polylines with support for displaying station offsets. Line segment can easily be cycled through on the map view screen by selecting a line and then using the navigation arrows on the bottom toolbar to select the line segment you want to stake.

GNSS Device Drivers

Added support for new GNSS devices:

- Howay P97 RTK tablet
- CHC LT700H RTK tablet
- Hemisphere S631
- GenEQ F100
- GINTEC CY F100
- Topcon HiPer II
- Topcon HiPer V
- e-Survey e300PRO
- eSurvey e800H
- eSurvey e800T

Coordinate System Updates

- Added support for the US 2018 Geoid.

Refinements:

The following refinements to existing features have been added.

- Updated user interface for point and line user options by adding a popup selection window from the map view and data panels. This new feature will improve navigation to frequently used point and line options.
- The ability to use spaces in code names.
- An “X” now indicates the active end of a selected line that points will be appended to in the map view.
- Point can now be filtered when defining a Coordinate File export report.
- Right and left navigation arrows to move to the next or previous observations have been included on the Observations Details page.
- A details option is now available on the three-dot menu for Observation Points in the points list to see the complete list stored observation information.
- The ability to turn off the sound on the startup splash screen sound is available on the Sounds & Vibrations setting page.
- Updated the NTRIP address field to accept a web URL address in addition to the IP address.
- Optimized page loading time on various pages with reported issues.
- A disconnect option is now available on the communication tab when the internal GNSS profile is selected.
- Users can now search for a code in the code list dynamically when typing in the code letters. If no code is found use the add button to add a new code to the list. Use the line checkbox to make the new code a line code.
- In staking mode a user can now switch staking direction on a selected line.
- Improved workflow when selecting a coordinate system that requires a geoid or grid shift file. A warning that the required file is not available on the device is now displayed and the required file is downloaded from MircoSurvey’s website if the user is connected to the internet.
- Added support to Emlid receivers for the ERB protocol output format. The ERB protocol provides more GNSS information than the NMEA format. Customers will need to select the ERB output format option when configuring the Emlid GNSS receiver.

- If a user has changed the application display theme it is now saved and will be the default theme when FieldGenius for Android is next launched.
- Grid values for an inverse between two points can now be viewed from the inverse calculation pop up by selecting the drop down icon.

Known Issue:

The following are known issues that have been reported but not yet resolved in the 1.6 release:

- Pentax SMT 888 3G- Issue configuring digital UHF radio.
- South Galaxy G1 Linux version UHF radio configuration issue.
- South G1+ tilt position issue.