

FieldGenius For Android Release Notes - Version: 1.7.2.5002

Release Date: 2020-10-30

Major Features:

Rotate Translate Scale

Rotate, translate, scale (RTS) functionality has been added to the COGO options in the survey mode. This allow the user to select points using individually selection or the filter option and then move the selected points. The user can apply the rotate, translate or scale function independently or together to move the selected project points. The COGO data panel allows for input of the RTS move parameters and the adjustment of the selected points can be seen in real time in the map view. When satisfied the user can save the points and they will be displayed in the new location for the remaining project work.

Auto-Recording

Auto-record has been added as a measurement mode option in the Instrument toolbar for point measurement. This allow a user to specify either a time or distance interval to auto store a GNSS measurement. When the auto-record option is selected and configured the measurements will be taken and stored to the points database on the selected interval. In auto-record mode the point review and save screens are disabled and the points are automatically stored when the set interval is reached. The survey map view screen observation panel will still show all the different GNSS receiver status values in real time.

Media-Pictures

The ability to take pictures with the device camera and assign them to either the project or a specific point has been added. A media tab has been added to the New point screen so that you can quickly save a picture as part of the point observation workflow. A new icon has been added to the map display so you can see if pictures are associated with a point. The Point Media icon can be toggled on or off on the map display setting screen located on the bottom toolbar. A Media data panel has been added to allow a user to quickly see the images assigned to points and to Remove a point link, assign a point link or delete a photo. Project images are stored with the project data and are included in the project archive feature making it easy to send them back to the office.

Quadrant Bearing

Quadrant bearing support for COGO angle values has been added. In the Settings page Units section you can now turn on the Quadrant Bearing option. With the Quadrant bearing option checked the angle fields in the COGO functions will now be displayed in quadrant bearing reducing the possibility of conversion errors and rework.

Point Annotation

An annotation field has been added to the store point screen. You can now input point notes as part of the store point workflow. Just add a note and tap the SAVE button. The annotation field uses the Android device input options so depending on your tablet you can use a keyboard, set-up handwriting recognition or use the voice to text option to quickly add notes to a point before moving on.

Area Calculation

Calculated areas information has been added to the line information screen. Area information is available when the user selects a closed figure on the map view screen and then the information option from the quick action popup.

GNSS Device Drivers

Added support for new GNSS devices and driver improvements:

- Kolida K1Pro
- Kolida K20S
- Stonex S980
- Stonex S990A
- Pentax G6J2
- EOS Arrow
- Bad Elf Survey
- Bad Elf Pro/Pro+

Coordinate System Updates

- No Coordinate system updates.

Refinements:

The following refinements to existing features have been added.

- Bluetooth search is now dynamic so you can select your GNSS device as soon as it is listed.
- Import Coordinate files header and columns can now be defined as part of the import process allowing more flexibility on the supported import file layouts.
- Map tile refinement have been made to support better pan and zoom functionality with WMS maps and blank map backgrounds.
- Staking improvements were made including adding a define a line by points on the staking map view.
- Various refinements to the application UI were made including performance improvements and dark mode display on phones.
- Improved point number format to include support for using a hyphen and underscore in the point number.

Known Issue:

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

- On some small screens, the COGO Station/Offset Store Point button is hidden.
- Pentax SMT 888 3G- Issue configuring digital UHF radio.
- South Galaxy G1 Linux version UHF radio configuration issue.
- South G1+ tilt position issue.