

# FieldGenius 2012 – 6.0.0 Release Notes

March 13, 2012

## Release Notes

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This new version will require a new license key.

We have an entirely new software licensing system. [Please click here to go to our Licensing Instructions page and learn how to license your new version.](#)

### **What's new in FieldGenius 2012 Version 6.0.0?**

- Coordinate system editor – we now allow you to create your own coordinate systems or edit an existing one. You can also save a short list of your most commonly used coordinate systems for fast coordinate system selection.
- Staking Improvements – we put a lot of effort in making this more efficient. We elected to make the staking list the focus of our attention. We strongly suggest you start using the Staking List for stakeout. You will find the nearest point search is optimized for using a staking list. We also enabled the user to not display screens that they may not want to see during stakeout. This will greatly increase the amount of points you stakeout in the day because there are less buttons to press between points. We encourage you to try it and see how your staking productivity increases. Some of the staking improvements:
  - When you import an ASCII file of points and use the **To Be Staked** survey role, all of the imported points are automatically added to the staking list.
  - Already staked out points will never be presented as a point to stake out when using a staking list.
  - FieldGenius will always search for the next nearest point and present it as the point to stake next.
  - We made the Exceeded Tolerance warning message a lot more visible to prevent bad points from being stored. We wanted the user to not miss that they exceeded their staking tolerance.
  - We changed the “Point Staked” icon in the points database and staking list to be a green check mark. It was a stake icon but it looked too much like the To Be Staked icon.
  - A staked point now looks like an inverted triangle in the Map View. The user has the choice of using this display or not.
  - We created a new survey role called **Staked and Stored**. This new role is only for internal FieldGenius use. FieldGenius survey roles follow the LandXML schema. Since **Staked and Stored** is not part of that schema, when you export an ASCII file of points that have that survey role, the role is converted to **Staked Out** (and that is in line with the LandXML schema).

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- We enable the user to turn off 3 dialogs in the staking process. This will increase a user's productivity.
- If a user turns off the Point Staking dialog but has left an offset in the **Offset** fields, we will always display this dialog so that the user doesn't forget they have entered an offset. We want you to do the best job in the shortest amount of time with no mistakes.
- Added a new ASCII export format called GD-1. This came from a request to create a format that the government of India requires and accepts. This new format allows you to export latitude and longitude coordinates in degrees, minutes, and seconds.
- We added a GNSS NMEA driver to support GNSS corrections being applied to a hand-held GNSS unit such as the Ashtech ProMark 100.
- Added the ability for Altus receivers capable of receiving Veripos corrections to be able to connect to and receive these corrections.
- Added better handling of illegal characters used in a project name.
- We added a new dialog for creating a new project. It is now very easy to cancel out of creating a new project if you pressed this button by mistake.
- Logic has been added to prevent a user from creating two instrument profiles with the same name.
- We changed the Waiting for Data... text to be Waiting for Measurement. This is more meaningful.
- A wizard type of workflow has been added so that when you attempt to stake out a point without an instrument setup, in the past you just received a warning message that a setup was required but left you wondering what to do next. We now take you directly to the Instrument Selection screen so that you can choose the instrument you wish to use.
- AND immediately after that we take you to the setup screen so you can select a point to set up on and orient your backsight.
- We added the new OmniStar frequencies.
- We added a toggle to allow next-nearest point searches when staking from the Points database.

## Improvements and Bug Fixes

- Pentax Total Stations – we increased the precision displayed
- The ASCII file exporter and the Cut Sheet report generator wasn't adding a file extension to the exported file. It not only will automatically add an extension now but will also detect if one is present and not append an extension to a file name that already has one.
- Improved the error message when you are attempting to store alpha-numeric points IDs without having Use Alpha IDs activated. You can now activate using alpha-numeric points IDs straight from the error message.

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- When exporting an ASCII file and you changed the display settings from NEH to ENH, the header information didn't change. It now does to reflect which format you have selected.
- Changed the **Start** button text to **Start Reference** when starting a GNSS reference receiver. Before the button text conflicted with the message text.
- Fixed a bug where the staking tolerance wasn't acknowledging fractions of an inch when using feet as survey units.
- Topcon FC-2500 no longer crashes when viewing a sky plot.
- Scale bar turns off completely now.
- We added a new format for LM80 users. FieldGenius can now export a cut sheet report in the same format as LM80. If you are using software that expects this format, you can now use FieldGenius to collect this data.
- In certain specific situations the Measure Backsight button was disabled during a setup, this is now fixed.
- Fixed a bug where saving the default coordinate system did not work.
- Fixed a calculation error with the Offset Intersection routine.
- Fixed the Greek and Romanian coordinate systems as there were issues when using them with RTK.

## New Coordinate Systems and Geoid Models

- Malaysian coordinate systems
- Turkey coordinate systems
- Norwegian geoid model
- Guatemala coordinate systems
- German (EGM2008) geoid model
- Slovakia coordinate systems
- CSRS support
- GGM06 geoid model for Mexico

## New and/or Improved Device Drivers

- Added South Instrument drivers
- GNSS NMEA driver