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## Features and Benefits

FieldGenius for Android v1.5

19 May 2020

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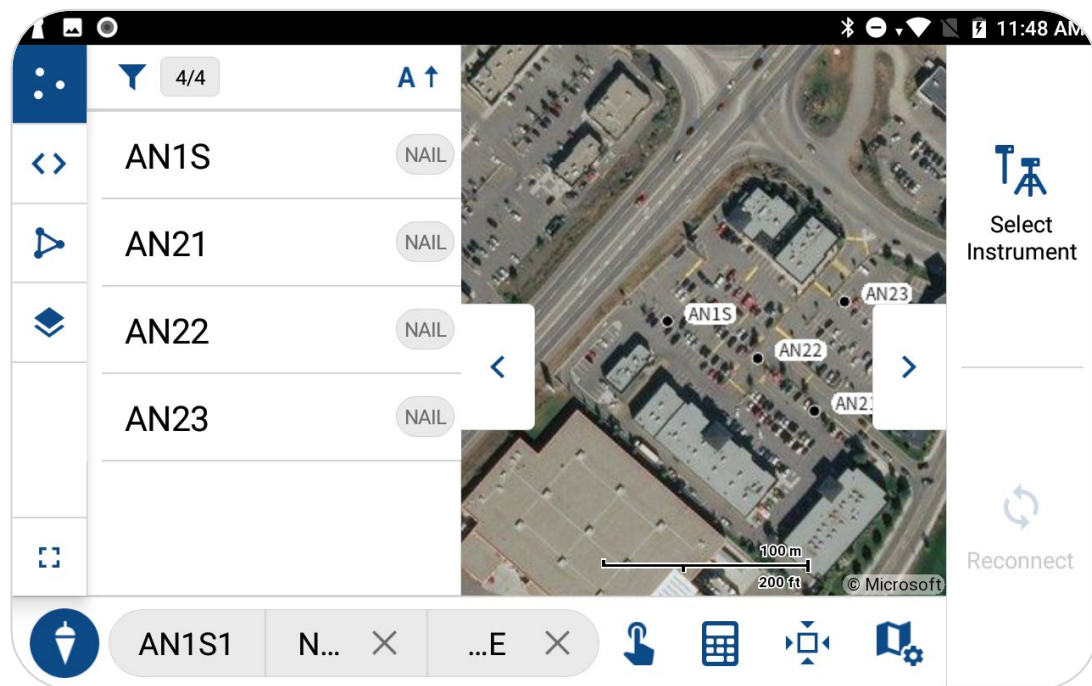
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# MicroSurvey FieldGenius for Android v1.5

Release Date: May 15, 2020

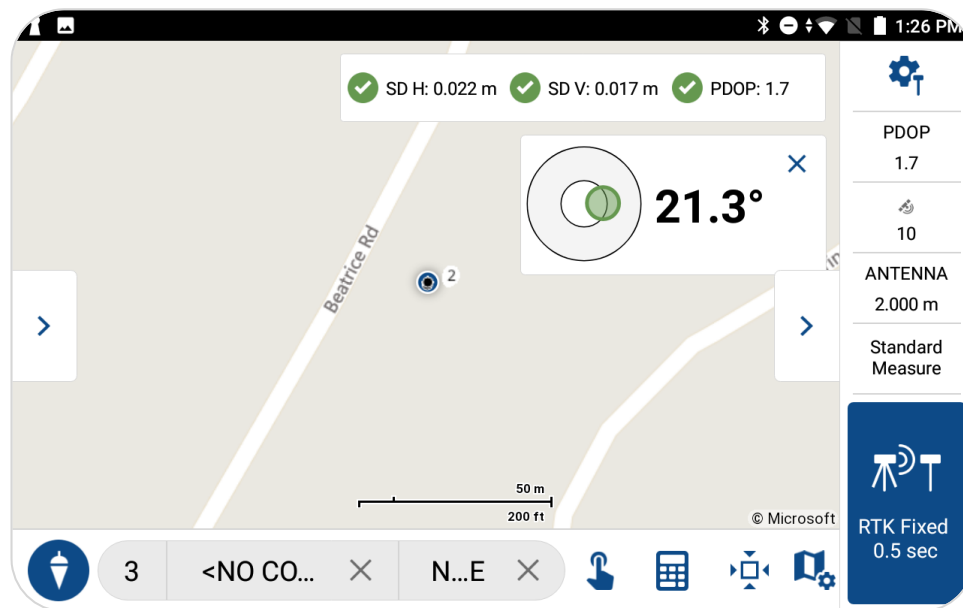
FieldGenius for Android v1.5 is a maintenance release that provides new features such as: Alphanumeric point numbering, tilt support for selected receivers using IMU technology and import of CAD DXF file as a background layer plus selection of DXF elements for adding to the project database. Program improvements have been made to: manual draw mode, new supported coordinate systems, new supported GNSS receivers and more. Visit [microsurvey.com/license](https://microsurvey.com/license) to download and receive the latest features.

## New: Alphanumeric Point numbering



| Feature                      | Benefit  |
|------------------------------|--|
| Alphanumeric Point numbering | Users can now use alphanumeric point numbering to provide more meaningful identification of the observed points. The points can have letters before and after a point number. This can help users in the field identify different types on points by the number alone. The user can change the point number ID on the map screen by selecting the next point field and then typing in the alphanumeric point they wish to use. Once selected the next point number will be applied to the next observation. The subsequent next point number will increment by one. The point filter and list sorting will now handle alphanumeric point numbers |

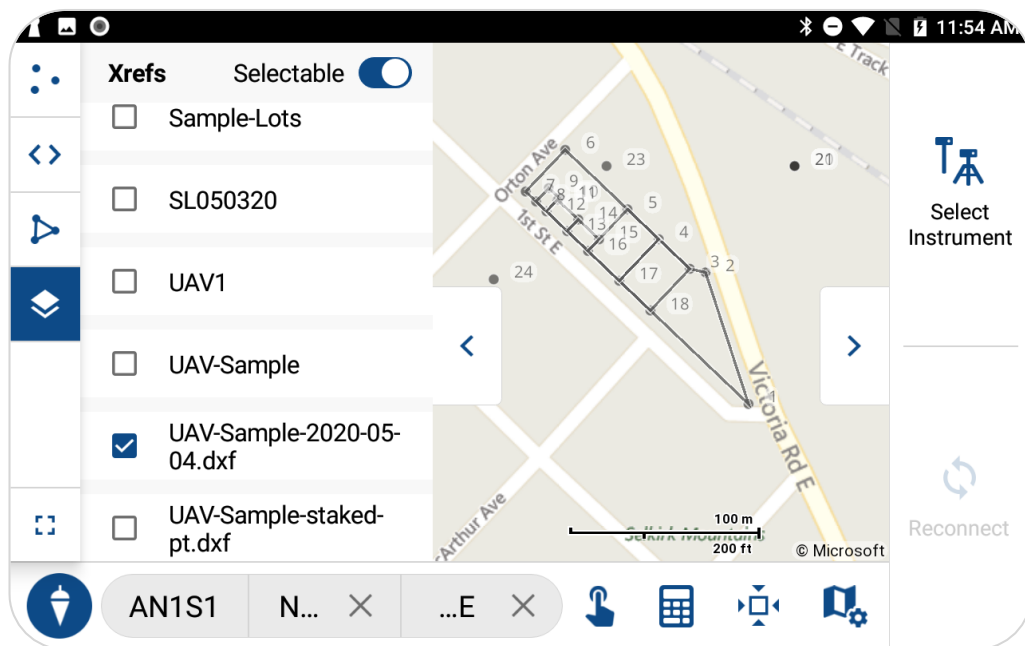
## New: Tilt Measurement support



| Feature  | Benefit  |
|----------|--|
| Tilt     | <p>Support for the tilt measurement feature on select GNSS receivers that utilize the IMU tilt technology. Supported GNSS receivers with IMU tilt functionality enabled include:</p> <ul style="list-style-type: none"> <li>• Leica GS18</li> <li>• Stonex S900</li> <li>• Stonex S900A</li> <li>• South G6</li> <li>• CHC i90</li> <li>• eGPS eGPS20T</li> <li>• IGAGE iG9</li> </ul> |
| Disabled | Tilt is disabled and measurements need to be vertical over the observed point  |
| Enabled  | Tilt is enabled and the measurement can be taken at any tilt angle and the position at the bottom of the rod is calculated and stored.   |

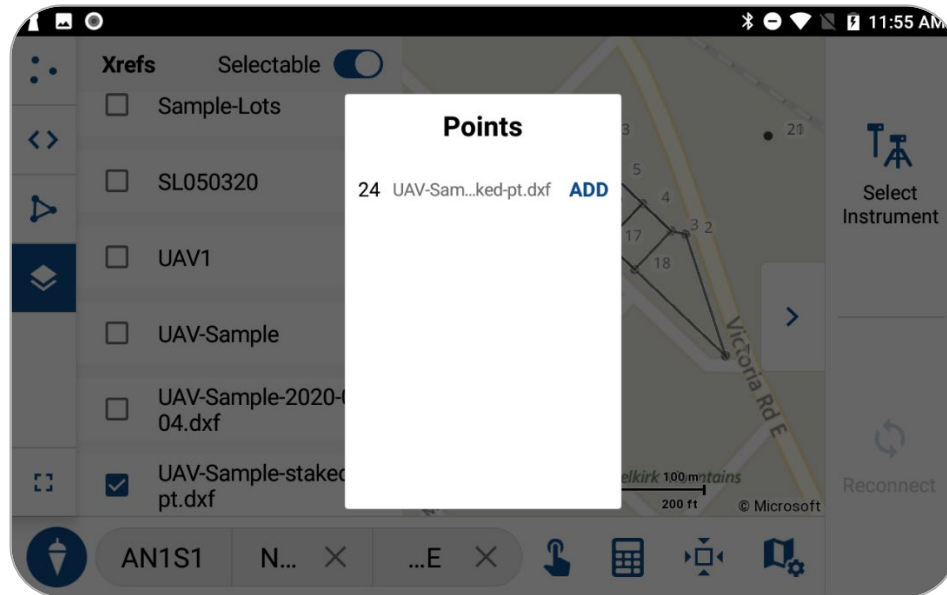
|                 |   |
|-----------------|---|
| Tilt Rejection  | User can set a rejection angle where if the tilt is greater than the set tolerance angle the measure bubble is red on the map view and the point will not store unless the rejection override button is used. |
| Rejection Angle | Set the tolerance angle from vertical above which the observation will not be stored.   |

### New: Import DXF files as xRef background layer



| Feature           | Benefit  |
|-------------------|--|
| DXF Import        | Allows a user to import a CAD DXF file from a desktop CAD program. The DXF file can be imported as either an import where all points and lines are added to the project database or as an xRef background image. |
| DXF xRef List     | Imported CAD .DXF files are listed in the xREF data panel and in the full page view with the .DXF extension.   |
| DXF Import/Export | The import and export has been expanded to support circular curves. At this time we do not support import of extruded entities.  |

New: Select DXF elements and add to project data



| Feature    | Benefit  |
|------------|--|
| Selectable | On the xREF data panel a Selectable toggle is now available for .dxf files. With the toggle on the user can tap a .dxf point or line element on the map and then choose to add it to the project database. A user can then stake the point or line or include the line segment as part of a line when editing. |

New: GNSS Drivers

| Feature            | Benefit  |
|--------------------|--|
| CHC GNSS Receivers | Added drivers to support the CHC line of receivers. Not all receivers are supported so check the supported devices list. |

New: Coordinate Systems

| Feature            | Benefit  |
|--------------------|--|
| Coordinate Systems | Added support for the Austrian M31 and M34 coordinate systems. |

### Enhanced: Line Improvements

| Feature                | Benefit  |
|------------------------|--|
| Line edit Improvements | Improvements to the edit line page (edit vertices page). You can toggle the active end of a line from one end to the other making adding new line segments to an existing line easier. A new button allows the user to close a line back to the line start point without having to remeasure the point or to edit it in the drawing ode. |

### Enhanced: Line Information Page

| Feature          | Benefit  |
|------------------|--|
| Line Information | In the edit line screen an information button “i” has been added to the bottom toolbar that will bring up information on the selected line including length and direction. The user can toggle though the different line segments to get information on each individual segment. |

### Enhanced: Curved Line support Drawing

| Feature             | Benefit  |
|---------------------|--|
| Curved Line Support | Added the ability to select a three point curved line option in the draw mode. |

### Enhanced: GNSS Driver and Coordinate System Updates

| Feature   | Benefit  |
|-----------|--|
| Bug fixes | Made various bug fixes for customer reported GNSS driver and coordinate system issues. |