# Creating a GPS GSM Network Rover Profile for the Leica GS15 Receiver and Connecting to a GPS Network Data Correction Service Using FieldGenius



## **Creating a GPS GSM Network Rover Profile**

#### Introduction

This guide describes how to create a GPS GSM network rover profile for the Leica GS15 receiver.

**Important Note**: You only need to create a particular profile once. After that FieldGenius will preserve and use this already-created profile. You are also welcome to create more profiles such as for a UHF radio GPS profile, but in this guide we explain how to create a GSM Network GPS profile.

## **Current Version**

This guide was written using FieldGenius Version 5.0.4.2 installed on a Viva CS10. If you are using a different version, your screens may look differently than what is displayed in this guide.

### Before you begin

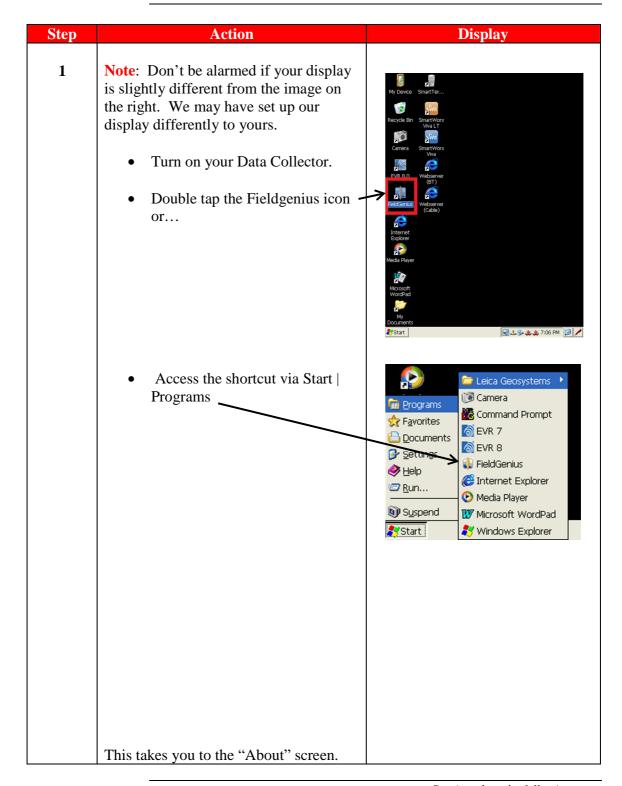
Have your GS15, data collector with FieldGenius installed, and a SIM card close by. You will need them to complete this guide.

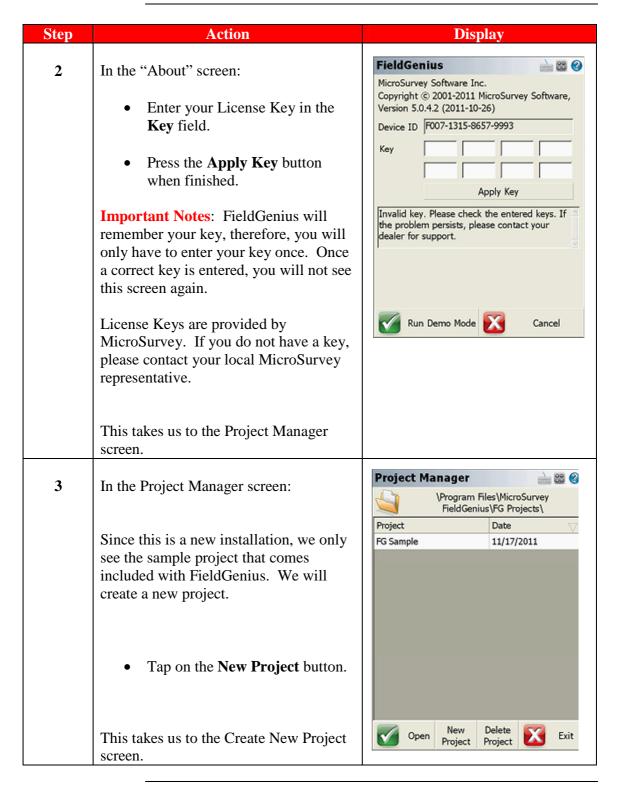
FieldGenius builds 6.0.1.6 or newer do NOT require "Extended OWI" to be enabled.

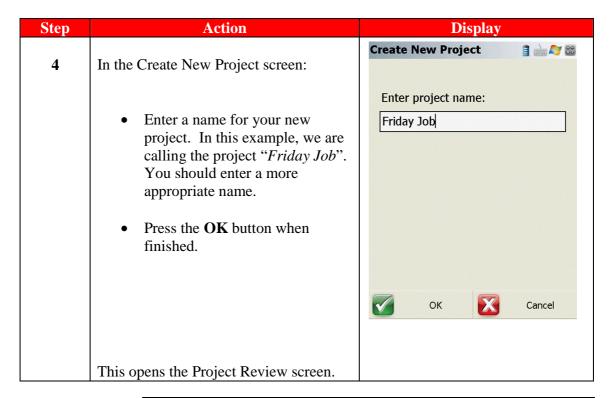
SIM Card

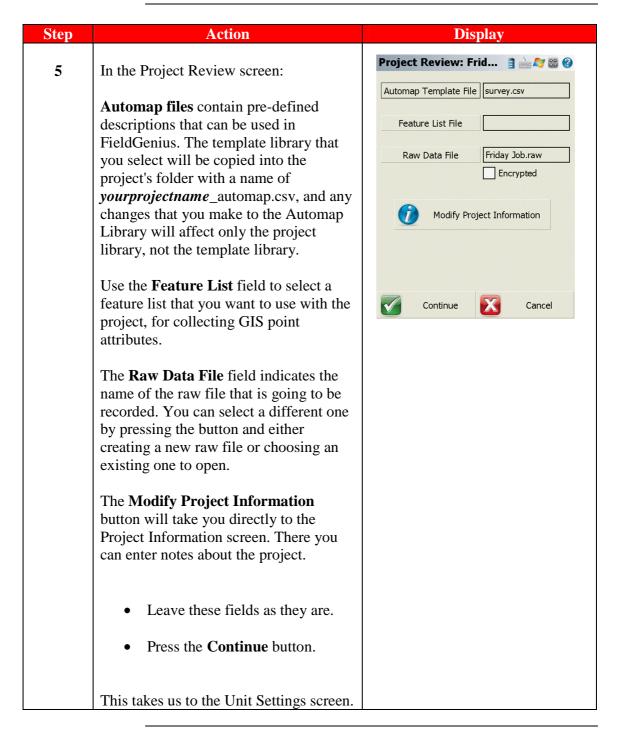
The sim card is inserted in a "drawer" in the GSM module as shown below:

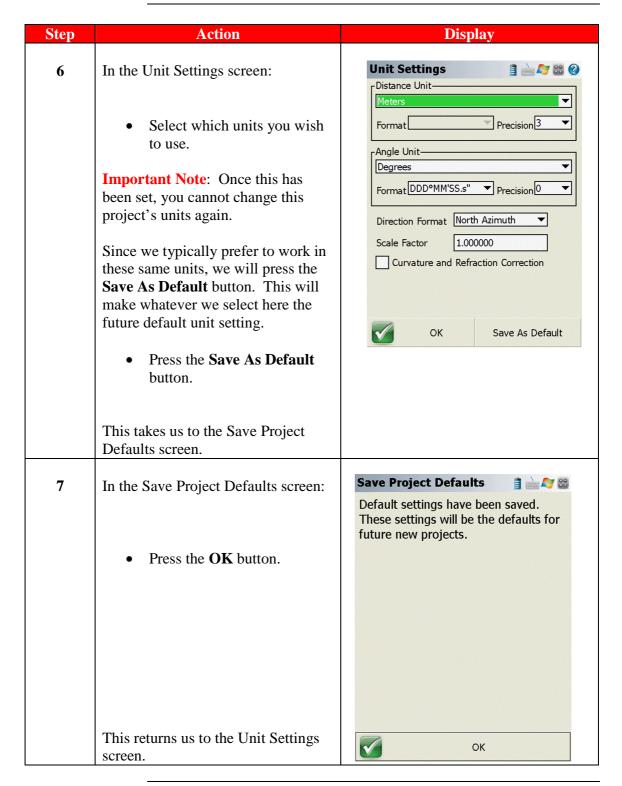


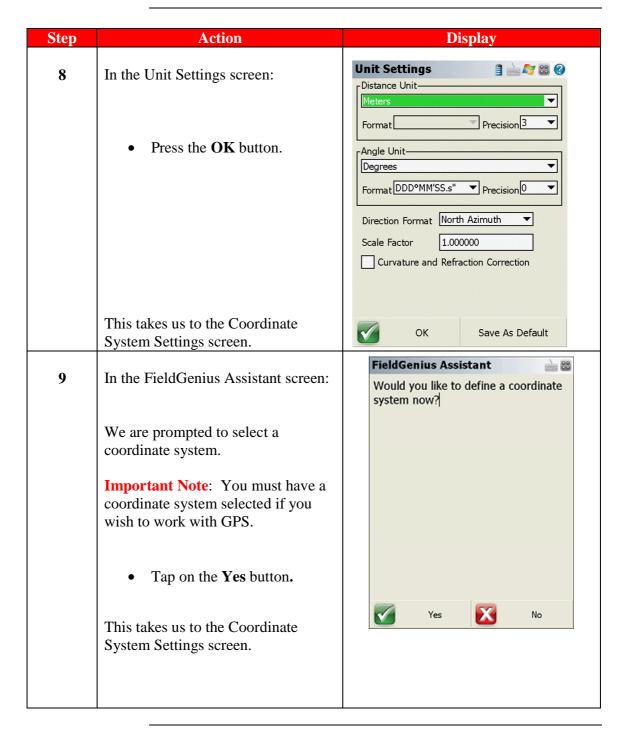


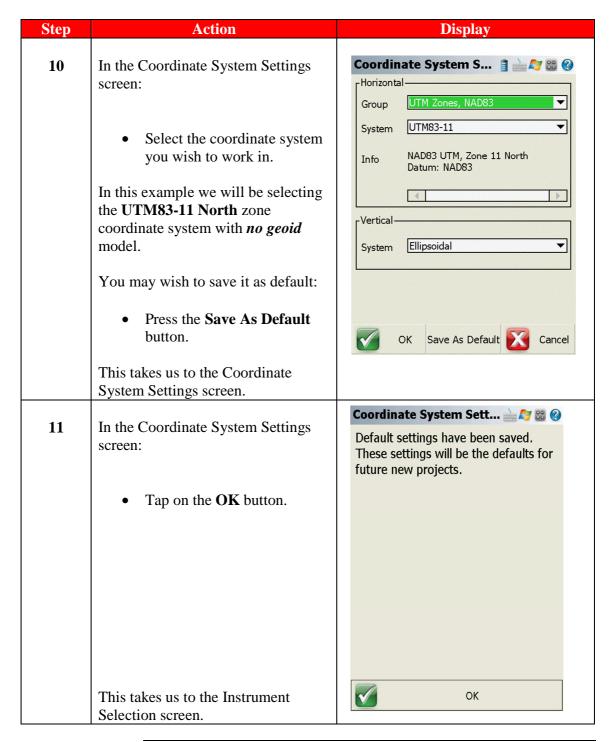


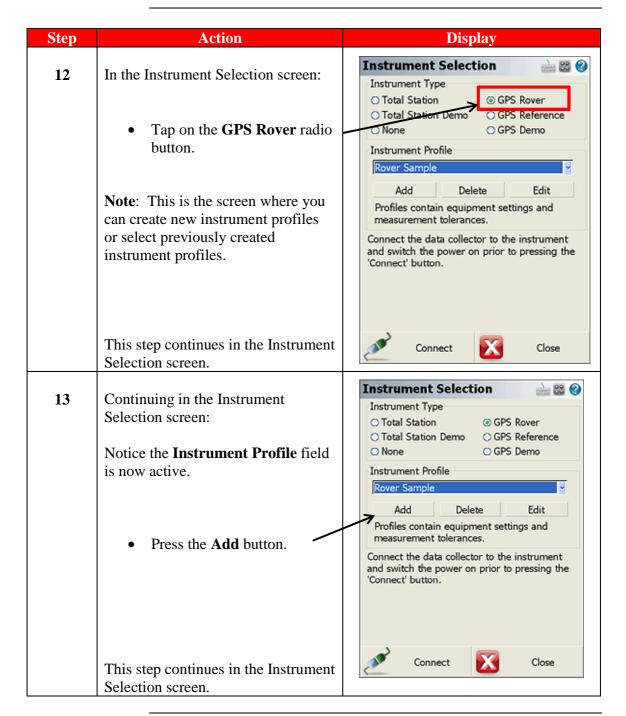


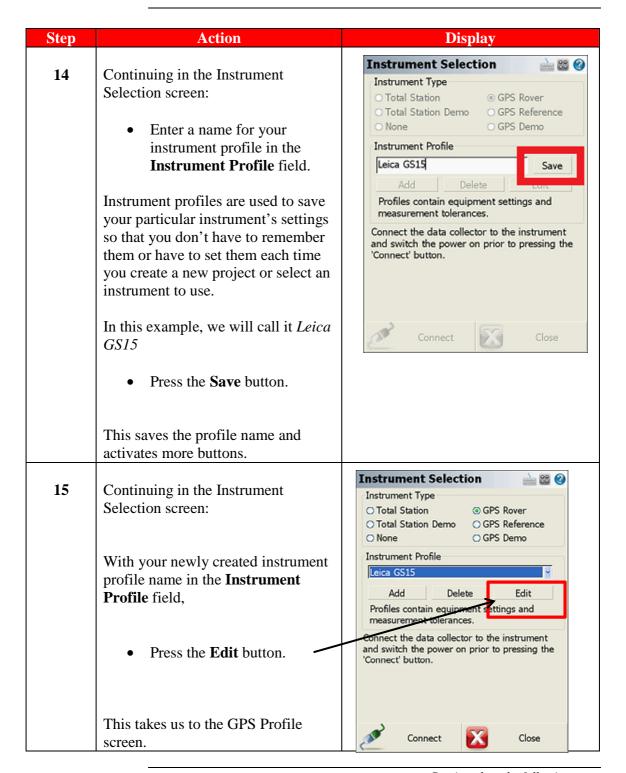


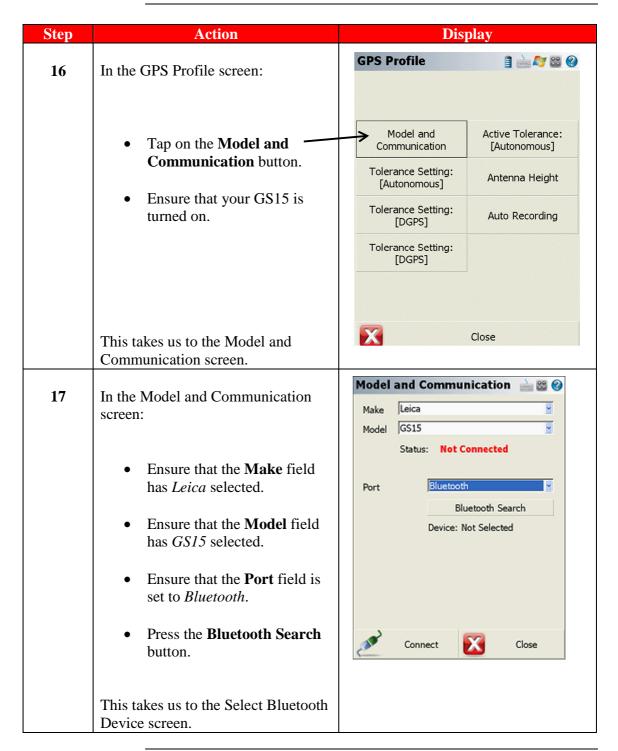


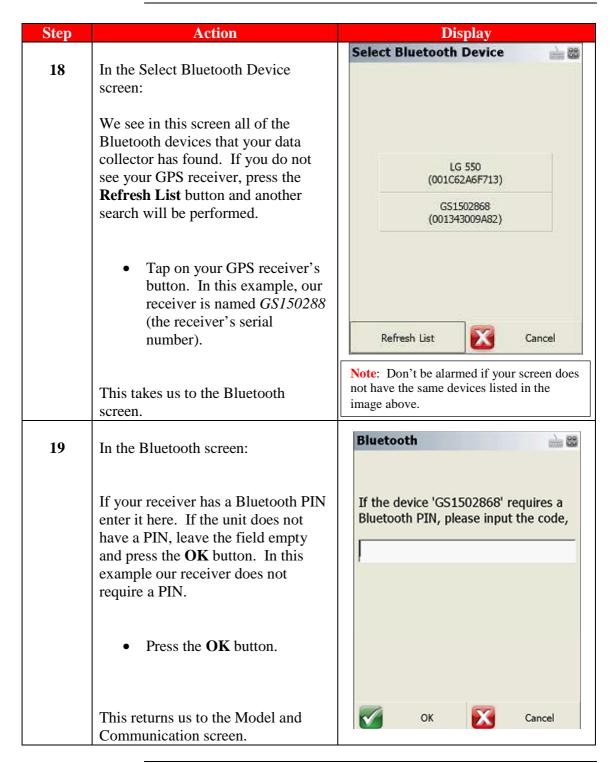


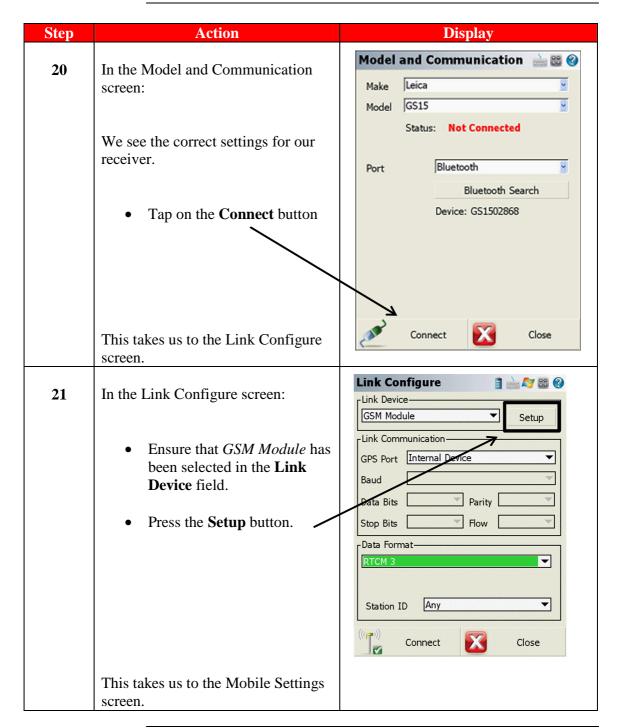






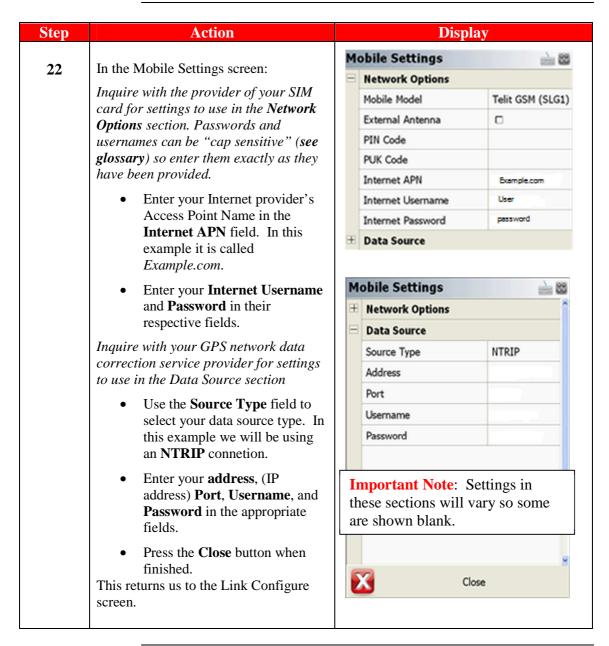


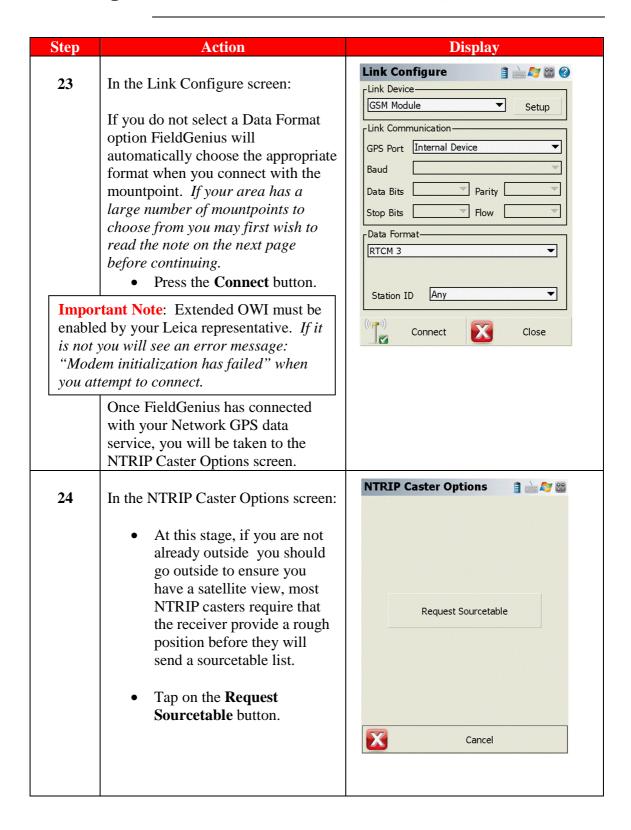


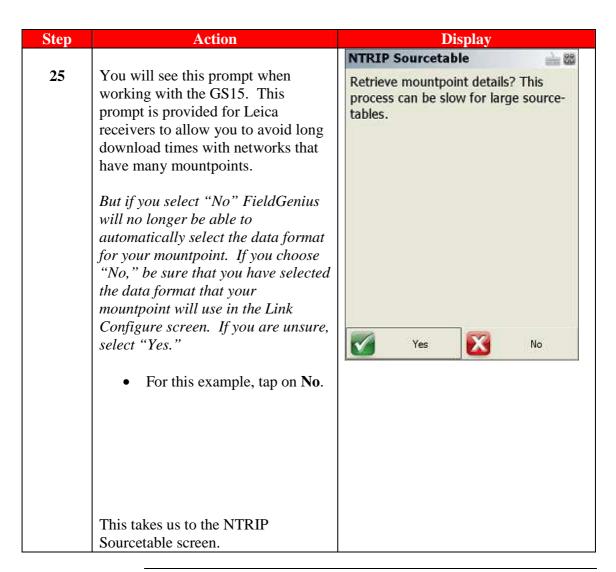


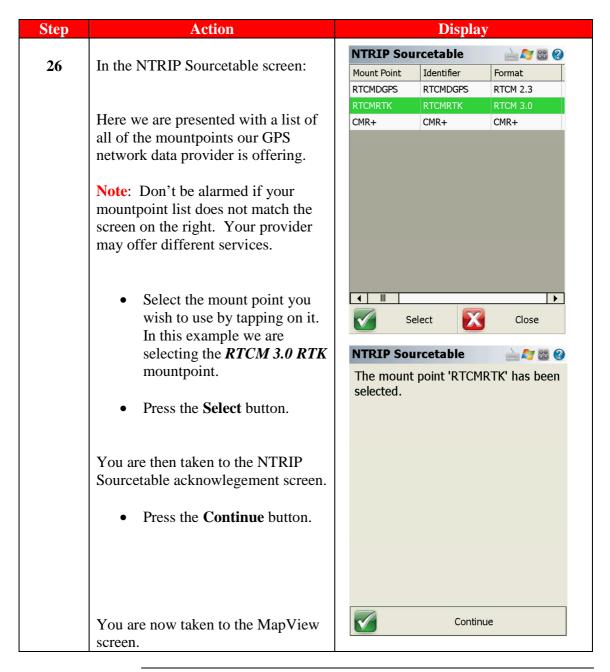
### Network vs. NTRIP

In the **Source Type** field, you have a choice of *NTRIP* or *Network*. [Note: You must tap on the field to activate the context menu to see the choices.] When using a data provider that uses an NTRIP connection, select **NTRIP**. If the data provider does not use NTRIP, then select **Network**.





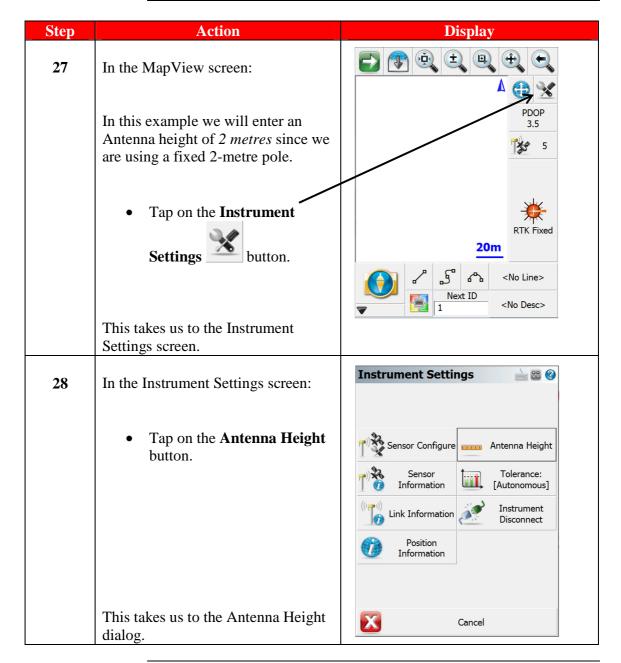




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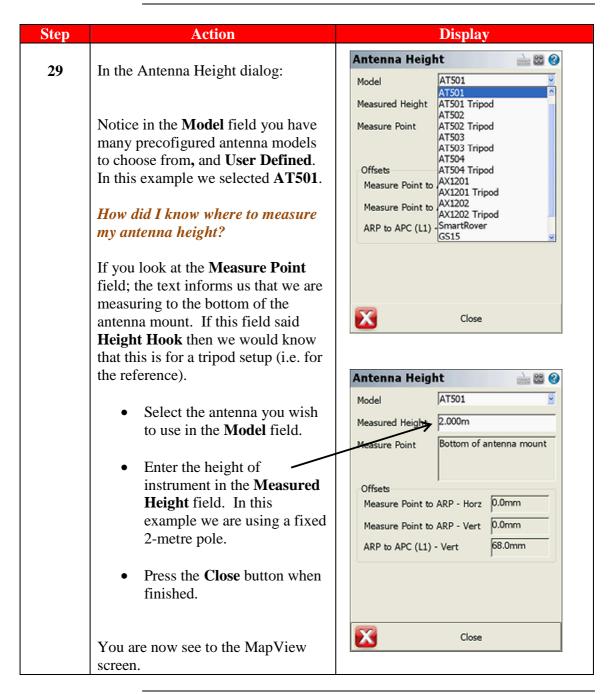
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Correct Antenna It is wise to ensure that you have the correct antenna height entered and proper antenna model selected before measuring with GPS.



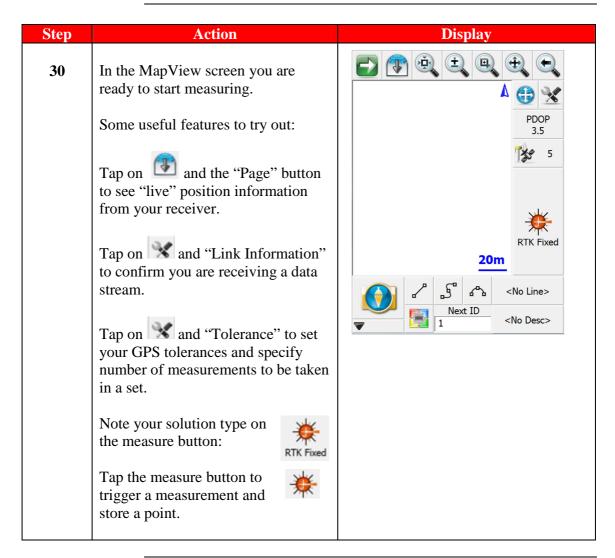
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#### **Congratulations**

You have successfully created a GPS GSM rover profile.

You then made a connection to your GPS receiver via Bluetooth.

From there you connected to your GPS network correction provider and started receiving network data.

You then entered the correct antenna height and selected the correct antenna model and are ready to start measuring.

#### Remember

- FieldGenius will preserve these settings in your instrument profile. You only have to create this profile once. In other words, you don't have to follow these steps each and every time you want to survey using the GPS receiver and the Internet.
- If you have multiple data collectors running FieldGenius you can copy instrument profiles for all instruments between them by transferring the file msurvey.ini which is found in: \Program Files\MicroSurvey FieldGenius\Programs
- If a Bluetooth connection fails it is sometimes useful to repeat steps 17 and 18 from this guide.

### Glossary

GPS – Global Positioning System

PIN – Personal Identification Number

GSM – Global System for Mobile Communications

CDMA – Code Division Multiple Access

ISP - Internet Service Provider

NTRIP – Networked Transport of RTCM via Internet Protocol NTRIP Caster – an HTTP server that accepts request-messages on a single port and then decides where there is streaming data to receive or to send. The caster offers a list of mountpoints that is called a source list or source table.

HTTP: Hypertext Transfer Protocol

SIM - Subscriber Identity Module

RTCM - Radio Technical Commision for Martitime

RTK – Real Time Kinematic

Cap Sensitive – Capitalization Sensitive. Some ISPs or data correction services will not accept a username or password unless it is entered with the letter case exactly as specified (ie: "Password" would not be accepted unless it was entered as "password")