Using the GLRM Receiver with GIS Surveyor

GIS Surveyor is a GIS application meant for GIS survey, GIS Data handling, data collection, analysis, and planning before execution of a project. This guide explains how to use the GLRM receiver in combination with the GL Connect app to provide precise positioning to QField on Android devices. GL Connect acts as a mock location provider, streaming corrected GNSS positions from the GLRM receiver and making them available to other apps. To use it with QField, you'll need to configure GL Connect with your NTRIP credentials and set it as the mock location app in Android system settings.

After installing and launching the GIS Surveyor app, the main map view will open immediately. When you tap the satellite icon, you will see the precise position data. At this point, GIS Surveyor is ready to receive location data. However, to use the high-precision GNSS positions from your GLRM receiver, you need to set up GL Connect as a mock location provider, as described in the following steps.



To ensure proper communication between the GLRM GNSS receiver and QField, configure the GL Connect app as follows:

- 1. Open the GL Connect app.
- 2. Navigate to the "Connection" tab.
- 3. Enable the following options:
 - **Background Execution** Allows the app to run continuously in the background.
 - NTRIP Client Activates real-time correction data streaming via an NTRIP connection. Please note: this option becomes available only after completing the NTRIP configuration in GL Connect.
 - Mock Location Enables the app to provide corrected GNSS coordinates to other applications by overriding the internal GPS location. Please note: this option becomes available only after selecting GL Connect as the mock location app in your Android device's developer settings.



Adding an NTRIP Profile in GL Connect From the GL Connect main screen, navigate to the NTRIP section. Enter the required connection details, including the server address, port, username, and password. Then, select the appropriate mount point from the list. Once all fields are completed, initiate the connection by tapping Connect to NTRIP Client.	State
Enabling Developer Options on Your Android Device	
To allow the use of Mock Location with external GNSS receivers, you first need to unlock the Developer Options on your Android device:	Conc Ul version
1. Open your device's Settings.	11 Google Play system update April 1,2025
 Scroll down and select About Phone (or About Device, depending on your Android version). 	Baseband version Antelevatuoxid2 Kernel version 4,14190-0468283-abA78571400050002 42 Wed April 194-028 49J 2023
3. Locate the Build Number entry.	Build number RPTA 200720.012 A705FNIXXU50X02
 Tap the Build Number repeatedly (approximately 7 times) until you see a message confirming that Developer Options have been unlocked. Return to the main Settings menu, where you will now find a new section called Developer Options. 	SE for Anchoid status Edward BEPP, SM Anceset, 11, 0010 Week Apr 11 Stat27 20124 Nock 27 Stat2 20124 Nock 27 Stat2 2012 Not 2012 Stat2 2012 Sta
To allow your device to use corrected GNSS data from an external NTRIP client, follow these steps:	C Developer options Q
1. Navigate to Developer Options (previously unlocked).	Bug report shortcut Bug report shortcut Bug report shortcut Bug report shortcut
2. Tap on Select mock location app.	Verbose vendor logging make additional device genericity windler togs in bigging products which may command reads additionality, use marke battering, et use marke additionality
3. From the list of available apps, select GL Connect.	Select mock location app Terror full (INSS) measurements Time A (0XS) constraintions and traumoistic Time A (0XS) constraintions and traumoistic Enable view attribute inspection Select debuig app Mainting exploration test Waint for debuigger and applied pairs are said for analogies test Verific annee round (ISE)
Once the mock location app is selected and active, all applications on your Android device that use location services will automatically receive the high-accuracy positional data streamed from the GLRM GNSS receiver. You can now open QField and begin surveying without any	CL Connect
additional configuration. The app will use the corrected coordinates provided by the external receiver instead of the internal GPS.	The Compensation Status compensations with due to an average status of the grant has a two index and a status of the grant has a two index and a status of the status of the status index and a status of the status of the status index and a status of the status of the status of the status index and a status of the status of the status

v1.0

