Using the GLRM Receiver with QField

QField supports high-accuracy positioning by connecting to external GNSS receivers through NMEA streams over Bluetooth, TCP, or UDP. 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.



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:	Software information One UI version 3.3 Android version
1. Open your device's Settings.	Google Play system update
 Scroll down and select About Phone (or About Device, depending on your Android version). 	Applit 1:
3. Locate the Build Number entry.	Build number RP1A.200720.012.A705FHXXU50X02
 Tap the Build Number repeatedly (approximately 7 times) until you see a message confirming that Developer Options have been unlocked. 	SE for Android status Enforces SEP_SIA Anosen_11_core was An 11 across Naca 257 2024 Naca 257 2024 Naca 257 2024 Naca 257 2024 Service provider software version
Return to the main Settings menu, where you will now find a new section called Developer Options.	SAGNO: SMA 7076FR, OML ATO, BR, 0009 ATO/ATO/ATO/ATO
To allow your device to use corrected GNSS data from an external NTRIP client, follow these steps:	Developer options Q On On On On On On On On
1. Navigate to Developer Options (previously unlocked).	Bug report shortcut Show a builton in the power memory for taking a bug report
2. Tap on Select mock location app.	Verbose vendor logging mataka diskonse diverso-spacenci ovnaka loga ni bagi reporti, akich may coman private elformation.
3. From the list of available apps, select GL Connect.	Select mock location app No mock location app att Force full CNSS measurements Task all dVS1 operations and branches Enable view attribute inspection Select debug app No differ debugger Select debugger
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 GField and begin surveying without any additional configuration. The app will use the corrected coordinates provided by the external receiver instead of the internal GPS.	CL Connect De Con
Once GL Connect is configured and set as the mock location provider, return to the QField app. If everything has been set up correctly, QField will now receive position data from the GLRM receiver. You should notice an improvement in the displayed positioning accuracy in the map view's status bar. The vertical and horizontal accuracy should reflect the enhanced precision provided by the GLRM receiver. This confirms that QField is successfully using the corrected GNSS stream for georeferenced data collection.	