

Setting Up Mock Location on Android

GLRM supports a wide range of third-party integrations, enabling users to take full advantage of high-precision GNSS data across different applications. To facilitate this, the GL Connect app runs seamlessly in the background, forwarding location data from the receiver to the Android system. The following guide outlines the necessary steps to configure your Android device for mock location using GL Connect. Please note: These instructions apply to Android devices only, iOS devices currently do not support this functionality.

The Mock Location provider replaces the default location data from the internal GPS sensor of the device with high-accuracy, corrected coordinates from the external GLRM GNSS receiver. This allows any location-based application, to receive and display these enhanced coordinates without requiring additional configuration within the app.

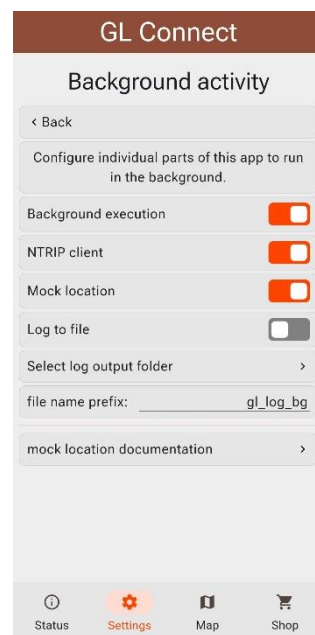
Connecting to the GLRM

Navigate to Status > Connected device > Scan for devices >GLRM-xxxxx > Connect



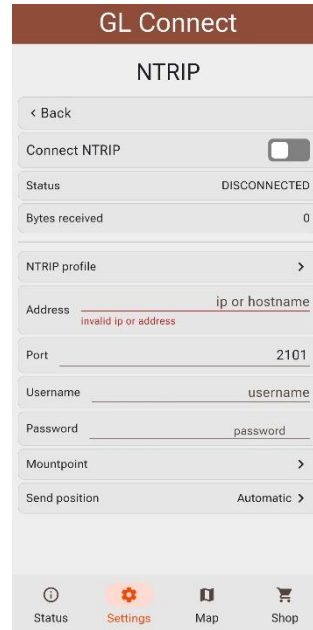
Enabling Mock location in GL-Connect

1. Open the GL Connect app.
2. Navigate to the "Settings" tab and click "Background activity".
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.



Adding an NTRIP Profile in GL Connect

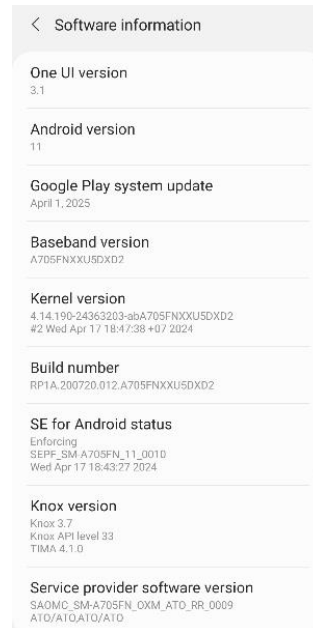
Navigate to “Settings” and tap “NTRIP”. Enter the required connection details, including the server address, port, username, and password. Then, select the appropriate mount point from the list. Once all fields are completed, initiate the connection by tapping Connect to NTRIP Client.



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:

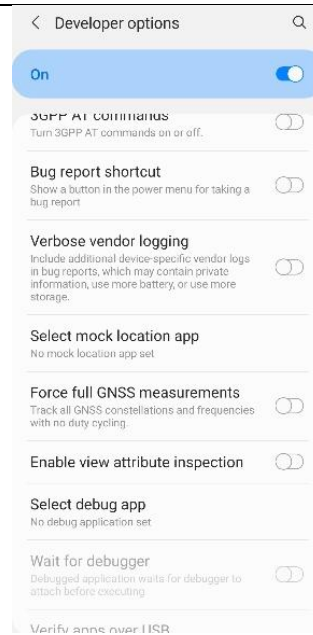
1. Open your device’s Settings.
2. Scroll down and select About Phone (or About Device, depending on your Android version).
3. Locate the Build Number entry.
4. Tap the Build Number repeatedly (approximately 7 times) until you see a message confirming that Developer Options have been unlocked.
5. Return to the main Settings menu, where you will now find a new section called Developer Options.



To allow your device to use corrected GNSS data from an external NTRIP client, follow these steps:

1. Navigate to Developer Options (previously unlocked).
2. Tap on Select mock location app.

From the list of available apps, select GL Connect.



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 your preferred survey or GIS application and begin surveying without any additional configuration. The app will use the corrected coordinates provided by the external receiver instead of the internal GPS.