Leica GNSS Receiver Configuration with Zeno Connect

(tcpgps_android_en_v20_leica_gnss_receiver_configuration_with_zeno_connect)

Update date

2021 / 02 / 19

Objetive

Configure Leica **GG02**, **GG03**, **GG04, GG04 PLUS** or **FLX100** GNSS receivers to work in RTK mode using **Zeno Connect**, and connect with **TcpGPS**.

Requirements

Hardware:

Android device (tablet or smartphone)

GNSS receiver

GG02
GG03
GG04
GG04 PLUS
FLX100

Software:

TcpGPS v2.0+

Leica Zeno Connect v3.3.1.1.1647+

Operating system:

Android

Details

Zeno Connect app allows one to configure **Leica GG02**, **GG03**, **GG04, GG04 PLUS** and **FLX100** GNSS receivers to work in RTK mode using virtual networks. The app must be installed on a device with Internet connection.

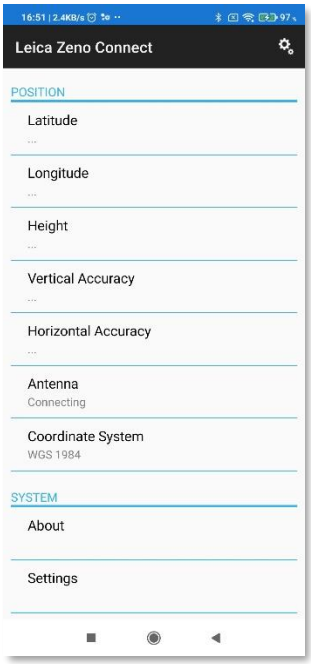
The following link allows one to download it from Google Play:

https://play.google.com/store/apps/details?id=com.leica.zenoconnect

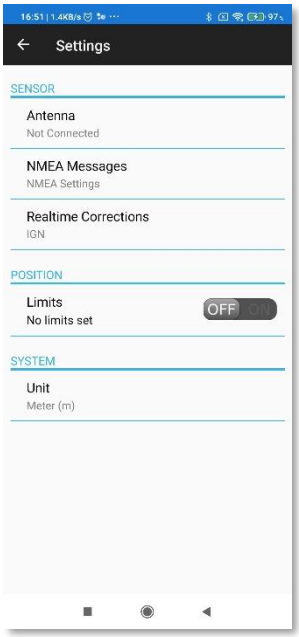
After configuring this app, just run **TcpGPS** and connect, using Bluetooth or internal GNSS, to receive coordinates in real time with centimeters-level accuracy.

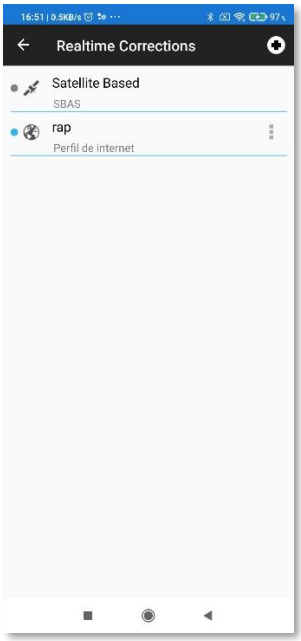
The steps to follow are detailed below:

- Run **Zeno connect** on smartphone or tablet.

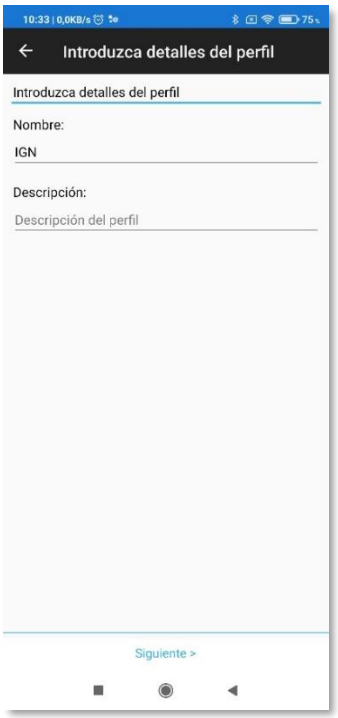


- Go to **Settings > Realtime Corrections** and click **+** button, on top right screen corner, to create a new profile.

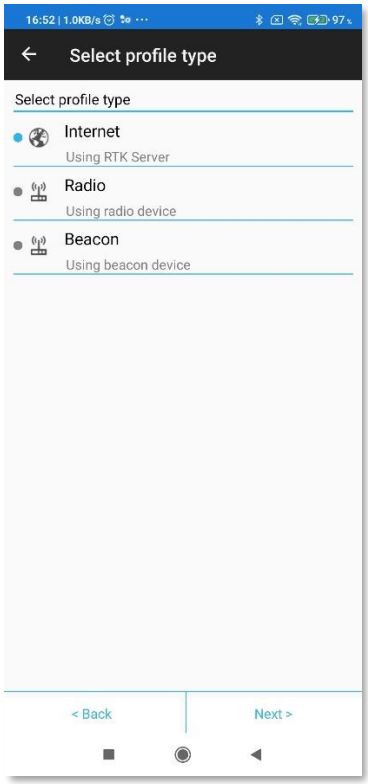




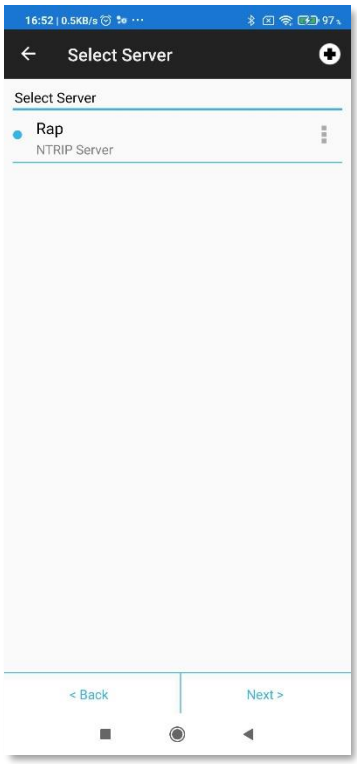
- Enter **Name** and **Description** and click **Next**.



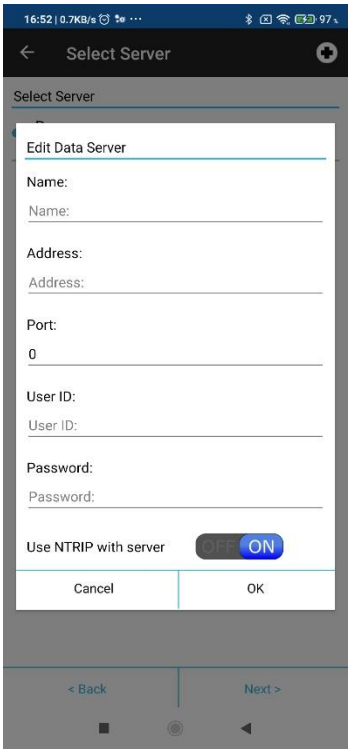
- Select **Internet** as profile type and click **Next**.



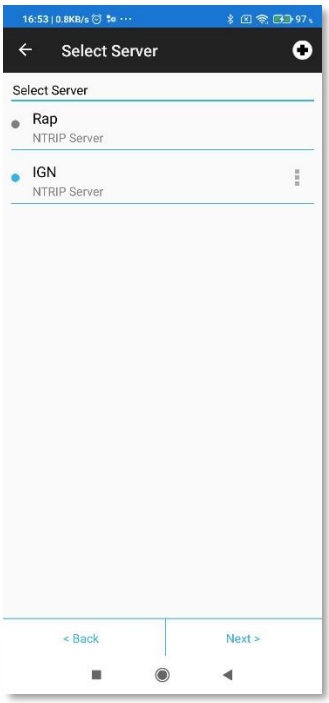
- Click + button, on top right screen corner, to create a new server.



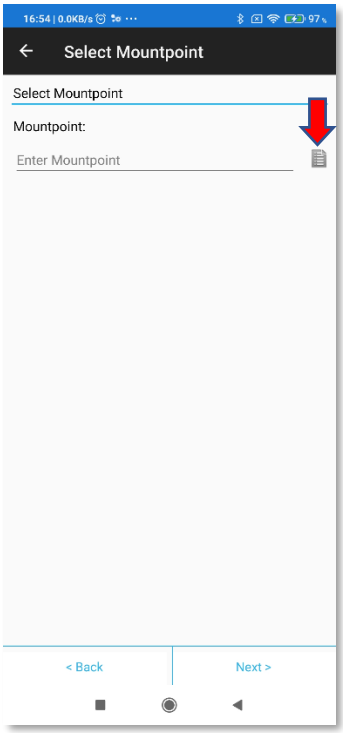
- Enter the data required for the server. Activate **Use NTRIP with server** in case NTRIP caster.



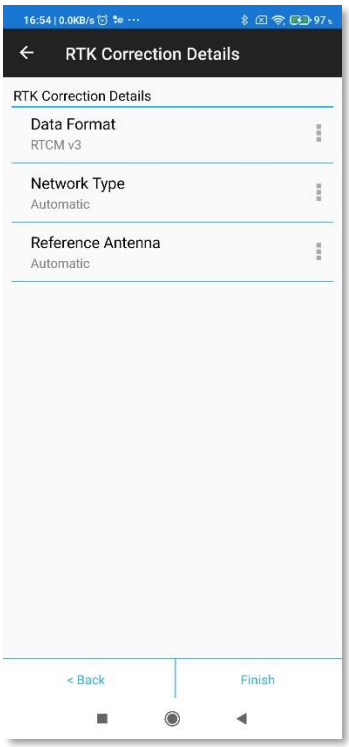
- Select the server created and click **Next**.



- In case NTRIP server, select the mountpoint and click **Next**. To access to mountpoint list, click button on the right.

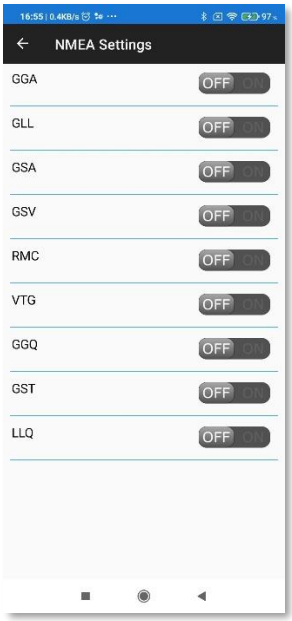


- Select RTK format and leave **Automatic** option in **Network Type** and **Reference Antenna**.

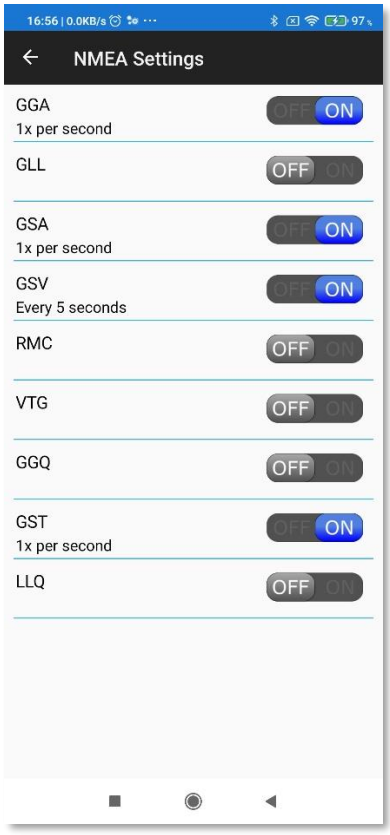


- After clicking **Finish** button, existing profiles will be shown and the latest one created will be activated.

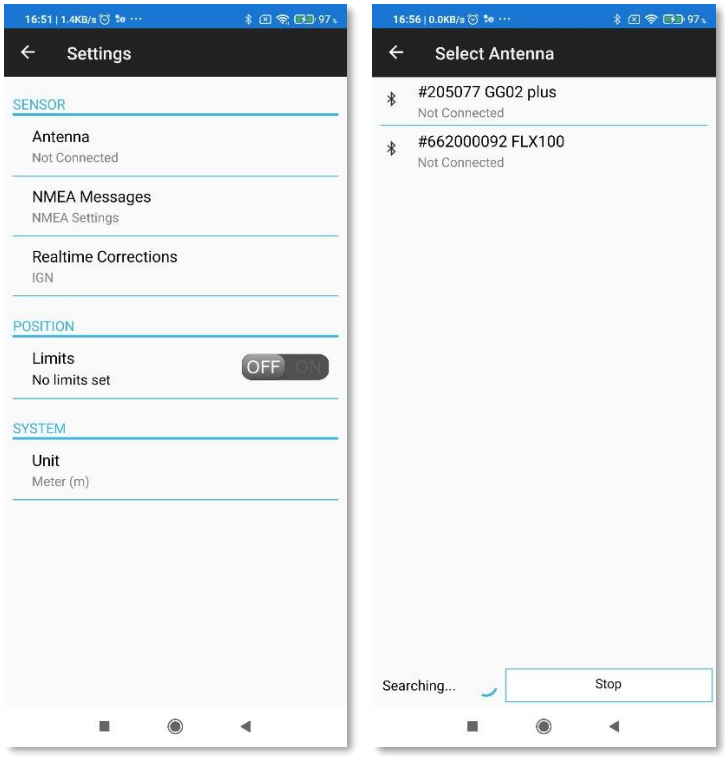
- ***(Only GG04 PLUS and FLX100)*** Go back to previous menu and select **NMEA Settings**.



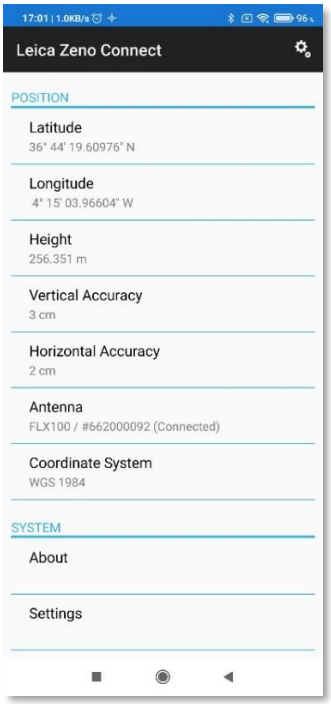
- ***(Only GG04 PLUS and FLX100)*** Activate the following messages with the frequency shown for each one.



- Go back to previous menu and click **Antenna** to select the GNSS receiver to connect with.

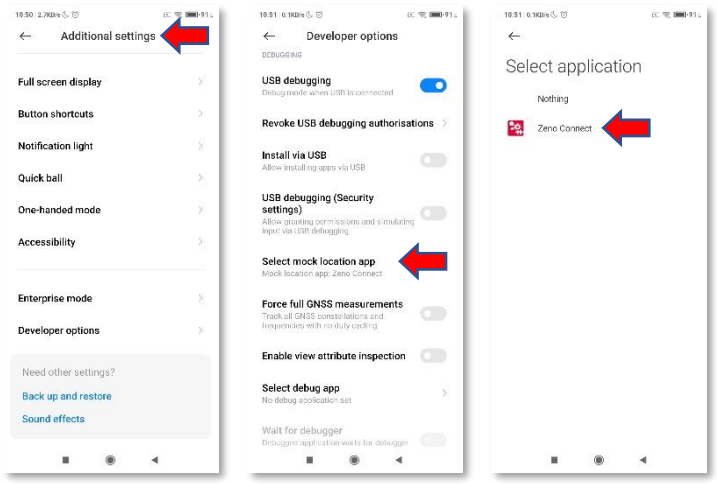


- Go to main screen and check that the accuracies are centimeters-level.



- Minimize **Zeno Connect** app

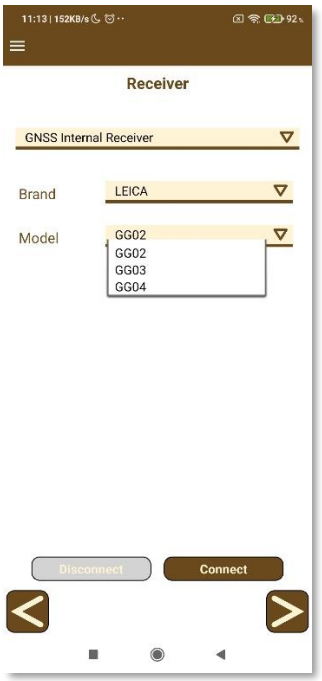
- ***(Only GG02, GG03 and GG04)*** Go to setting options and select **Zeno Connect** app within **Developer options > Select mock location app**.



- Run **TcpGPS**.

- ***(Only GG04 PLUS and FLX100)*** Select **External GNSS Receiver (Bluetooth)**, **LEICA** as **Brand** and **GG04 PLUS** or **FLX100** as **Model**. Then, select the GNSS receiver and click **Connect**.

- ***(Only GG02, GG03 and GG04)*** Select **Internal GNSS Receiver**, **LEICA** as **Brand** and **GG02, GG03** or **GG04** as **Model**. Then, click **Connect**.



- The status bar must show RTK Fix as position type and the accuracies must be centimeters-level.

Video

Watch video at https://youtu.be/XGTm3elTf9Q