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Technical Note

(tcpgps_android_en_v10_001_connect_with_leica_gg04_gnss_receiver)

Connect with Leica GG04 GNSS receiver

Update Date

15/09/2017

Requirements

Hardware:

Leica GG04 GNSS receiver Mobile device with Android OS **v4.0.3**+ and internal GNSS receiver.

Software:

Leica Zeno Connect v2.5.0.1141+ for Android TcpGPS v1.0.0+ for Android

Objetive

Conectar TcpGPS para Android con el receptor GNSS Leica GG04 a través de Leica Zeno Connect.

Details

For connecting **TcpGPS** with the **Leica GG04** GNSS receiver, **Leica Zeno Connect** must be set up previously, which works as location provider for third party apps.

These steps must be followed for setting up both programs:

• Go to **Settings > Developer Options** within the mobile device.



• Select Leica Zeno Connect in the section Select mock location app.



- Go to the main menu.
- Turn on the internal GNSS receiver of the mobile device.

- Run Leica Zeno Connect.
- Bound and select the Leica GG04 GNSS receiver in the Antenna section.

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😫 LEICA Zeno Connect	¢,
POSITION	
Latitude 36° 43' 56.75809" N	
Longitude 4° 28' 05.24084" W	
Height 151.502 m	
Vertical Accuracy 2 cm	
Horizontal Accuracy 2 cm	
Antenna GG04 20Hz (Connected)	
SYSTEM	
About	
Settings	

• Create and set up a profile for receiving real time corrections.

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🛠 Settings	
SENSOR	
Antenna GG04 20Hz (Connected)	
Realtime Corrections	
SYSTEM	
Unit Meter (m)	

- Close Leica Zeno Connect.
- Run TcpGPS.

• Go to **Application > Settings** and select **Internal GNSS receiver** in the **Communications** section.

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Setting Out Mode Movement	Movement
Horizontal Tolerance 0.03	Horizontal Tolerance 0.03
Vertical Tolerance 0.04	Connect with
Target Mode Distance	T O GNSS Internal Receiver
2.0	GNSS Internal Receiver (NMEA)
Next point	N GNSS External Receiver (Bluetooth)
Sincronization	S GNSS Simulator Receiver
Accounts	A CANCEL
Commnunications	Communications
Connect with GNSS Internal Receiver	Connect with GNSS Internal Receiver
Simulation File	Simulation File

• Check that **TcpGPS** is receiving the desired accuracy on the GNSS receiver status screen. This accuracy must match with the accuracy shown by **Leica Zeno Connect** on the notification screen of the mobile device.

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≡ TcpGPS [De 15 🗞 <
Surveying	
UTC Time	16:18:56
Satellites	15
Position Type	N/A
Latitude	36° 43' 56.76721" N
Longitude	4° 28' 05.17421" W
Ellipsoidal Height	152.215
H. Prec.	0.022
V. Prec.	0.0
PDOP	N/A
ETRS89 / UTM zone 30N	
+ EGM2008 REDNAP (Spain-Peninsula/ Balearic islands)	
Easting	368913.487
Northing	4066195.781
Orthometric Height	104.309

