Technical Note
(tcpgps_android_en_v15_001_emlid_configuration)

Configuration of EMLID receivers

Update Date

24/09/2019

Requirements

Hardware:
> **Android device**

Software:
> **Android OS**

Objective

Configure EMLID receivers using *Reach View* and start working with *TcpGPS Android*.

Details

In TcpGPS Android are supported the models REACH RS, REACH RS+ and REACH RS2. These models can be used as they are configured by EMLID software activating NMEA.
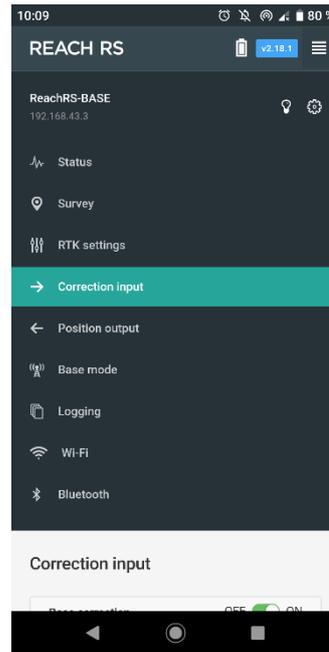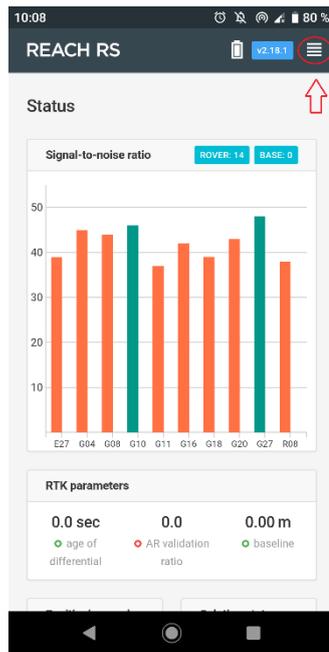
EMLID Reach View configuration

In this section are described the steps for configuring EMLID devices using *Reach View* application.
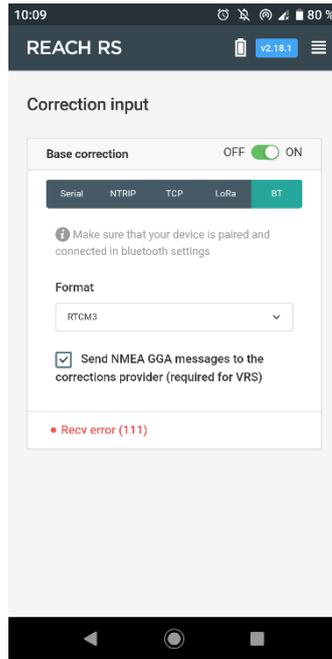1. Open **ReachView** app and select the **EMLID** receiver.
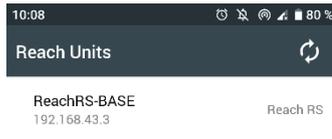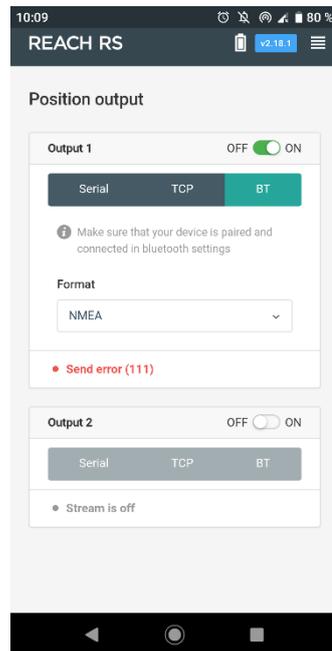
2. Open **ReachView** menu and select **Correction Input**

3. Select **BT** option, set the corrections **Format** of the mountpoint you are going to connect with and check **Send NMEA…,** if the mountpoint need it

4. Open **ReachView** menu and select **Position Output**

5. Select **BT**, switch on **Output 1** and set **NMEA** as **Format** output

1. Close **ReachView** app and open **TcpGPS**

Connection to EMLID GNSS receiver in TcpGPS

From the *receiver assistant* at the start of the application clicking on the button
or the option *Menu > Receiver > Connection* at the main screen, the user accesses the section for connecting to the receiver via Bluetooth.

In this screen the user must select the brand (EMLID) and the model he wants to connect. Then, by clicking on *Device* button, the Bluetooth searching section will be displayed. In this screen, a list with the devices available via Bluetooth will be shown and it can be updated by clicking in *Search* button if the identifier of the receiver is not listed.
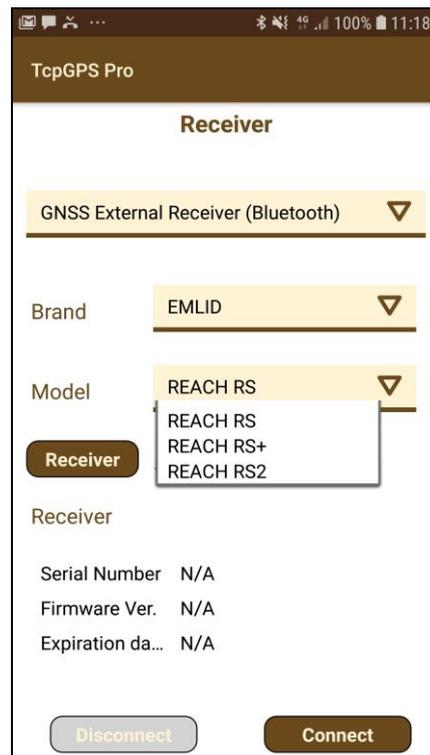

Figure 1. Connection screen

Rover NTRIP with data collector

In this case, TcpGPS will connect to an NTRIP server and send the corrections received to the GNSS device.

In this mode, the available parameters are:

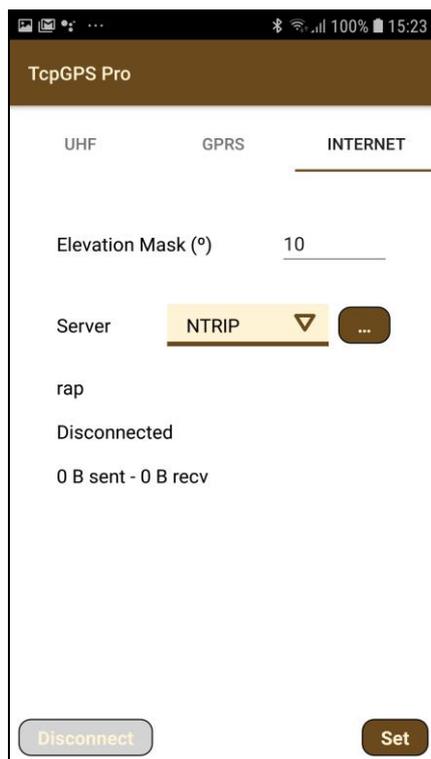| Parameter	Description
Elevation Mask	Value of elevation or zenith angle of the satellites below which they are not used, in sexagesimal degrees.
Server	NTRIP or iRTK server as source of corrections.

Figure 1. Rover Data Collector working mode

NTRIP server configuration

The **Networked Transport of RTCM via Internet Protocol** (**NTRIP**) is a protocol for streaming differential GPS (DGPS) data over the Internet in accordance with specification published by RTCM. NTRIP is a generic, stateless protocol based on the Hypertext Transfer Protocol HTTP/1.1 and is enhanced for GNSS data streams.

A dialogue allow the user to configure a NTRIP server, by adding a new one selecting the option **New** in the list or choosing a previously configured server in the same list.
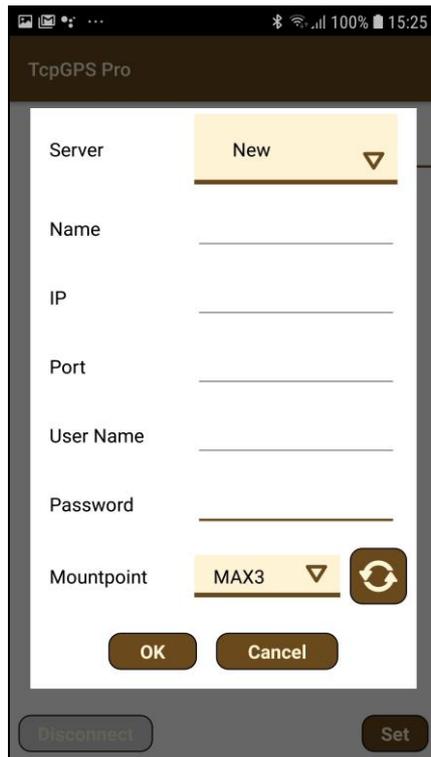
Figure 2. NTRIP configuration

For adding a new NTRIP server the user must introduce a **name** for the server configuration, the **IP** and **port** of the server, and the **user** and **password** for making the identification. Once these parameters are filled, pressing the button will request the list of **mountpoints** which provide different types of corrections.