



MaxGo

MaxGo RTK

CHANGELOG

Date	Author	Changes
10.10.2024	Tobias Freinberger	V1.4.1 supports Android 13
15.04.2024	Tobias Freinberger	v1.4.0 added receiver configuration
22.03.2023	Tobias Freinberger	v1.3.0 added snapshot & track feature
08.08.2023	Tobias Freinberger	V1.2.0 TCP/IP Server feature
12.06.2023	Tobias Freinberger	v.1.1.0 show satellite information

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General

The MaxGo RTK app helps to achieve submeter accuracy in your GIS environment in combination with our RTK supported devices.

GNSS Receiver

Ublox ZED-F9P

<https://www.u-blox.com/en/product/zed-f9p-module>

Supported Devices

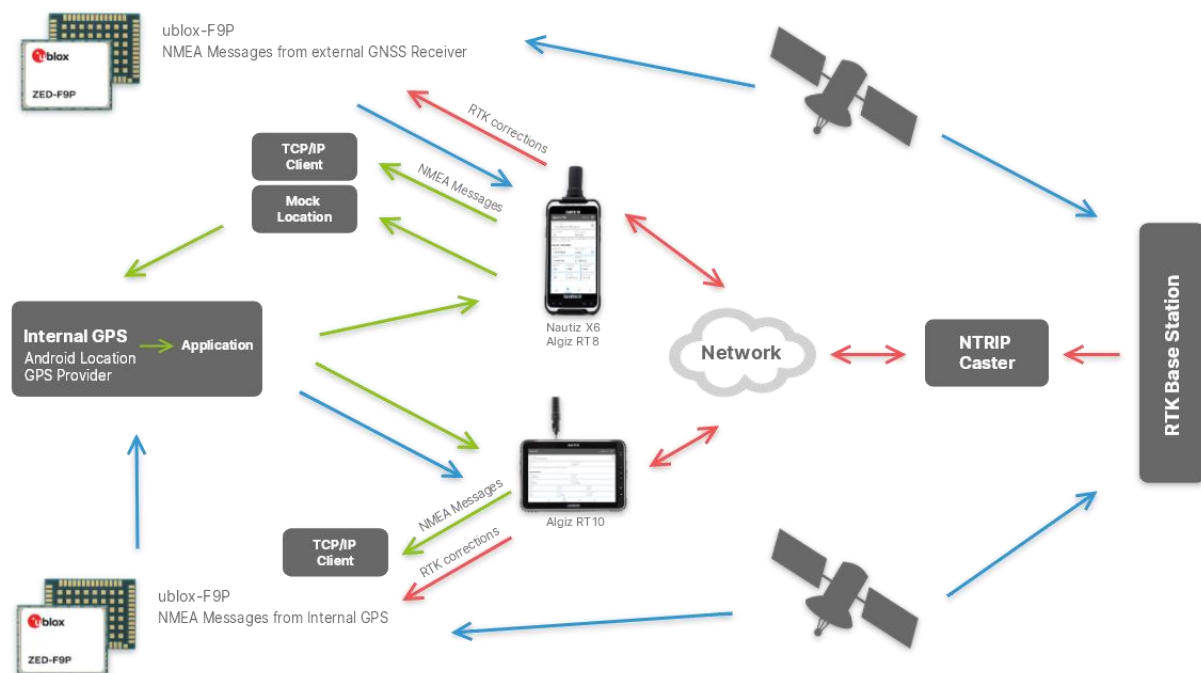
- Algiz RT10 RTK, Android 11
- Nautiz X6, Android 11
- Algiz RT8, Android 11

Device	GNSS Receiver	Receiver Communication	Configurable
Algiz RT10 RTK	Internal	Android Location / UDP	Yes
Nautiz X6	External (Add on)	UART RX/TX	Yes
Algiz RT8	External (Add on)	USB	Yes

MaxGo RTK Workflow

Device	Input	Correction	Output
Algiz RT10 RTK	Android Location, Nmea Messages	Ntrip, RTCM	<ul style="list-style-type: none"> - Android Location (GPS Provider) - TCP/IP server (Nmea Messages)
Nautiz X6	Nmea Messages	Ntrip, RTCM	<ul style="list-style-type: none"> - Mock Location (GPS Provider) - TCP/IP server (Nmea Messages)
Algiz RT8	Nmea Messages	Ntrip, RTCM	<ul style="list-style-type: none"> - Mock Location (GPS Provider) - TCP/IP server (Nmea Messages)

RTK Workflow



Usage

MaxGo RTK app is designed to act as a liaison app between the high precision receiver and your end user application. It handles communication with the receiver and provides other applications with accurate location data.

App Instruction

The app offers settings like configuring the ublox F9P receiver and connecting to an Ntrip correction data service. It displays GNSS information and a simple map view. Further, you are able to perform simple snap & track exports.

To use a professional end user application, the app runs fully functional in the background.

Receiver Configuration

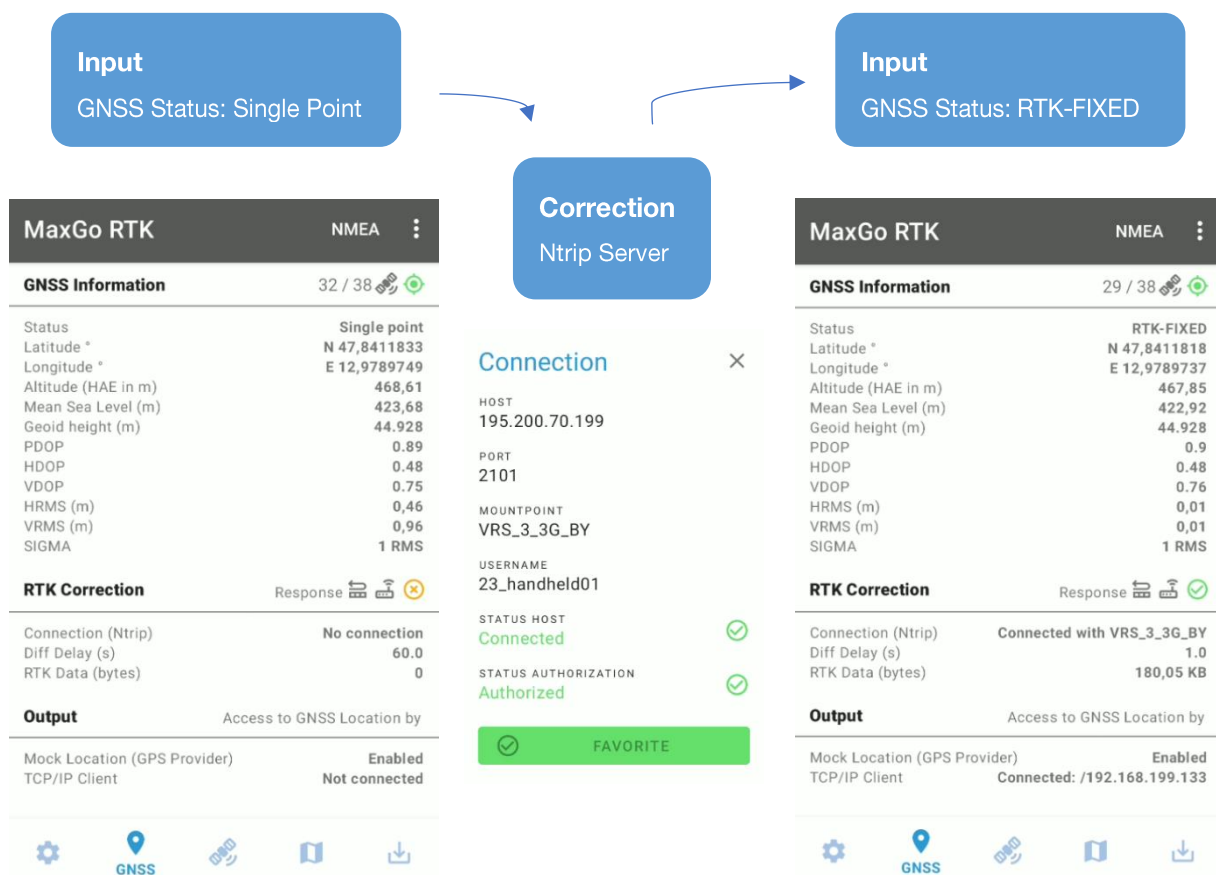
The ublox receiver can be configured with UBX Commands (hex).
Settings → Configure Receiver → Open Terminal

- Input
- TCP/IP client (requires network connection)

Example with u-center & TCP/IP client:

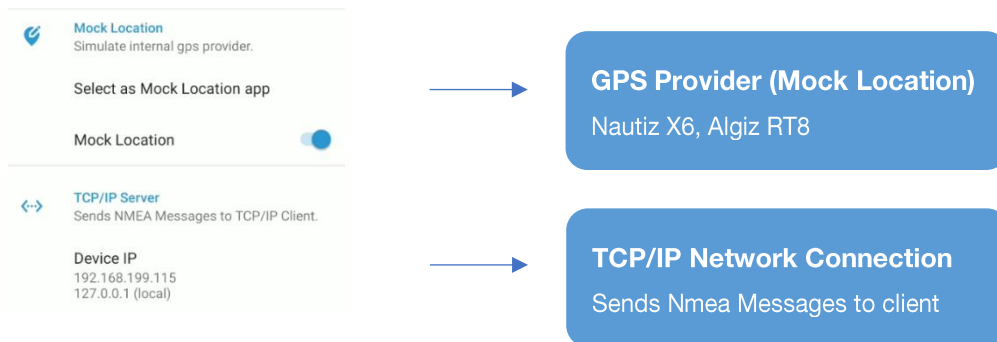
1. Open Terminal and start the server.
2. Open u-center on your PC and connect to the server address.
3. Send Command from u-center and see received Command in app.
4. Click SEND button in app.

GNSS Information



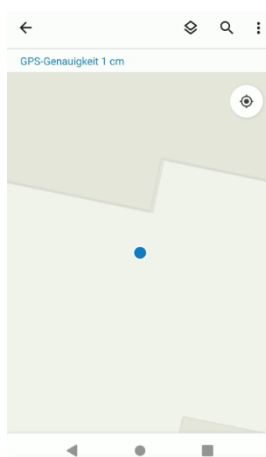
Output

- Android Location GPS Provider.
Mock Location needs to be enabled when using external gnss receiver (add on). See [here](#) [Location extras](#) added.
- TCP/IP Network connection.
Start the server, connect to and receive Nmea Messages.

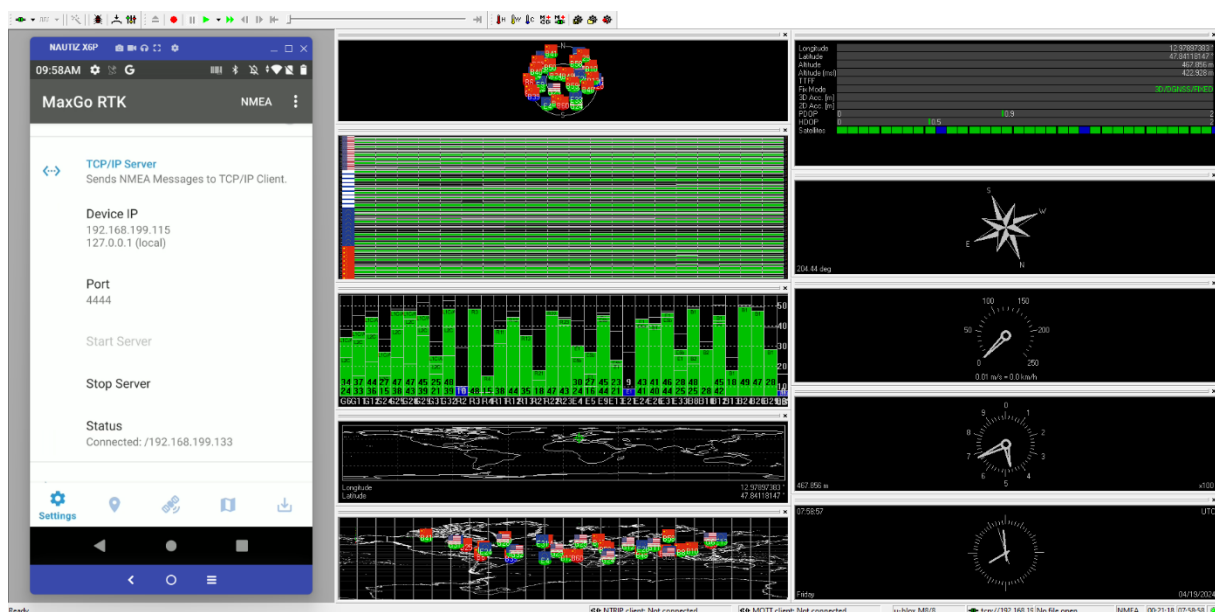
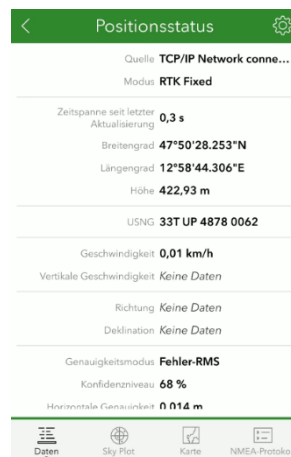


Examples

GPS Provider – FiledMaps (ESRI)



TCP/IP Conenction – Survey123 (ESRI) & u-center



For Developers

Instruction on how to integrate and communicate with the gnss receivers.

Integration

The integration manuals provide dev subscriptions and communication handling between the device and the receiver. (Written in Java)

Algiz RT10 RTK

Instruction:

<https://download.handheldgroup.com/apps/rtk/app/Docs/RT10%20RTK%20Workflow.pdf>

Nautiz X6

Serial Port Lib:

<https://download.handheldgroup.com/apps/rtk/app/Docs/Expansion%20Setup%20NX6%20%26%20ART8.pdf>

Lib Implementation:

<https://www.handheldgroup.com/knowledge-base/accessing-the-serial-port-on-the-back-connector/>

Setup:

<https://download.handheldgroup.com/apps/rtk/app/Docs/Expansion%20Setup%20NX6%20%26%20ART8.pdf>

Algiz RT8

Serial Port Lib:

<https://download.handheldgroup.com/apps/rtk/app/Docs/Expansion%20Setup%20NX6%20%26%20ART8.pdf>

Lib Implementation:

<https://www.handheldgroup.com/knowledge-base/accessing-the-serial-port-on-the-back-connector/>

Setup:

<https://download.handheldgroup.com/apps/rtk/app/Docs/Expansion%20Setup%20NX6%20%26%20ART8.pdf>

Support

If you have any questions or problems regarding the app or integration, please contact our support team by creating a support case on page https://www.handheldgroup.com/support-rugged-computers/contact-support/#av_section_3. Attach crash reports if necessary.

Report

Crash reports are saved in the internal storage app folder.