

Using iG8 with ESRI® Collector on Android

Date: 5 June 2018

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Thesis

Using an iG8 with ESRI® Collector is easy to setup. Once setup once, for future use you just turn on the receiver and select it in Collector.

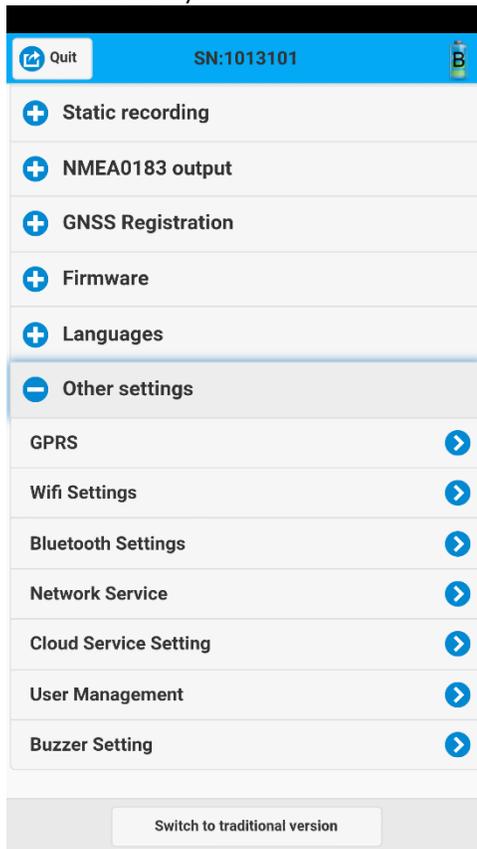
1

Prerequisites

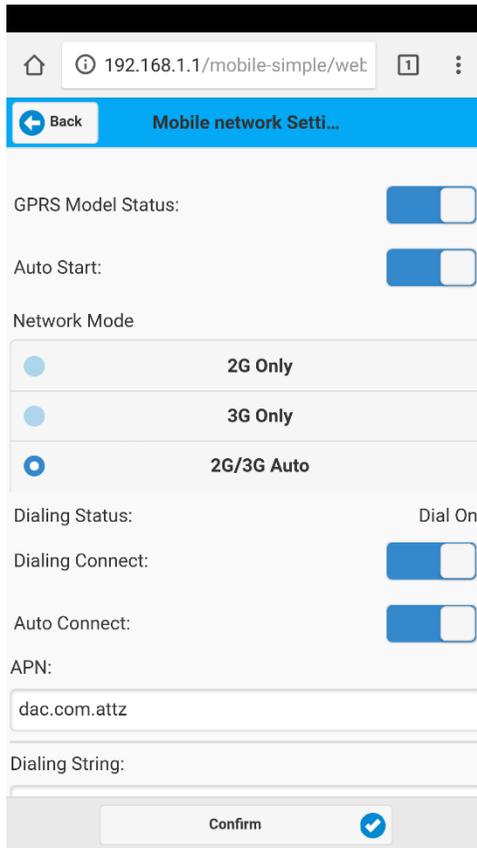
iG8, Internal GSM Sim Card or UHF Correction Source, Collector running on Android (iOS is not compatible because of Bluetooth issues.)

Initial Setup

There are a few settings on the iG8 to establish a network connection automatically when you turn on the receiver. The following settings only need to be done once. These screen shots are from Chrome, but you can also set it up on a PC (the connection for this is via Wi-Fi, connection details are in the iG8 User Manual):



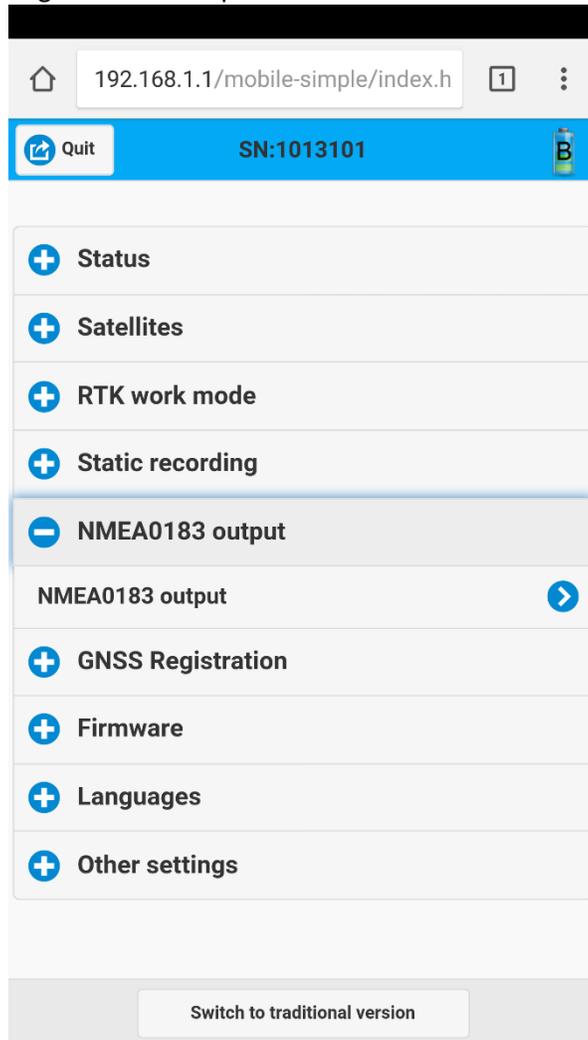
Click on GPRS:



2

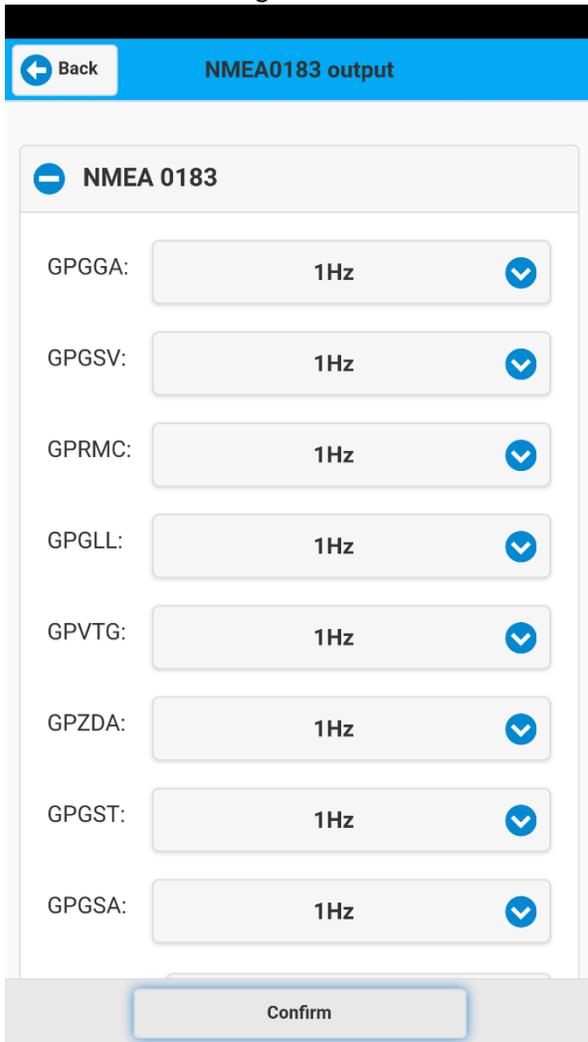
Set to auto dial, with correct APN. Values above are for the cards we include with the device.

Then configure NMEA output



Click on 'NMEA0183 output', then click on the arrow to right.

The NMEA0183 configuration screen is shown:

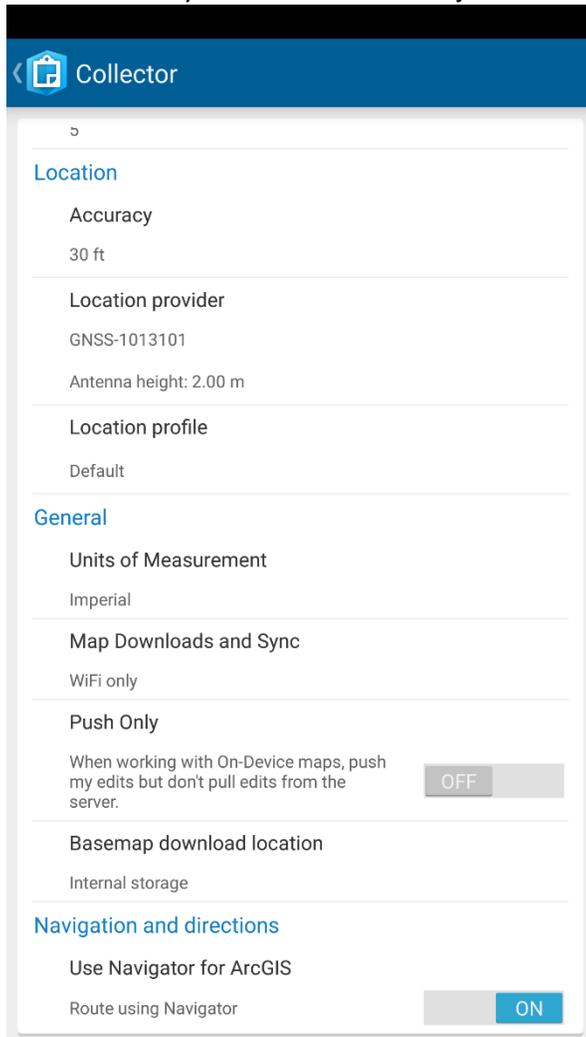


Label	Frequency
GPXDR:	1Hz
GPXDR:	1Hz
GPRMC:	1Hz
GPGLL:	1Hz
GPVTG:	1Hz
GPZDA:	1Hz
GPGST:	1Hz
GPGSA:	1Hz

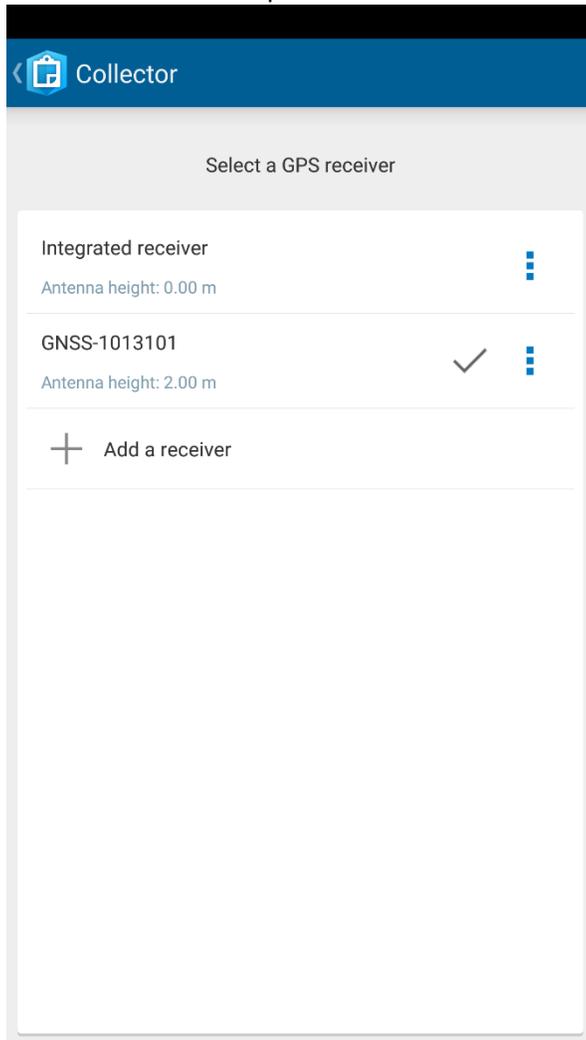
I just turn everything on however ESRI has a document that describes which sentences are needed at a minimum.

Click on Confirm and you are good to go on the receiver. The settings changes will survive a power cycle and remain in effect until disabled.

If the receiver is already bonded to Bluetooth just selected it in Settings under location provider:

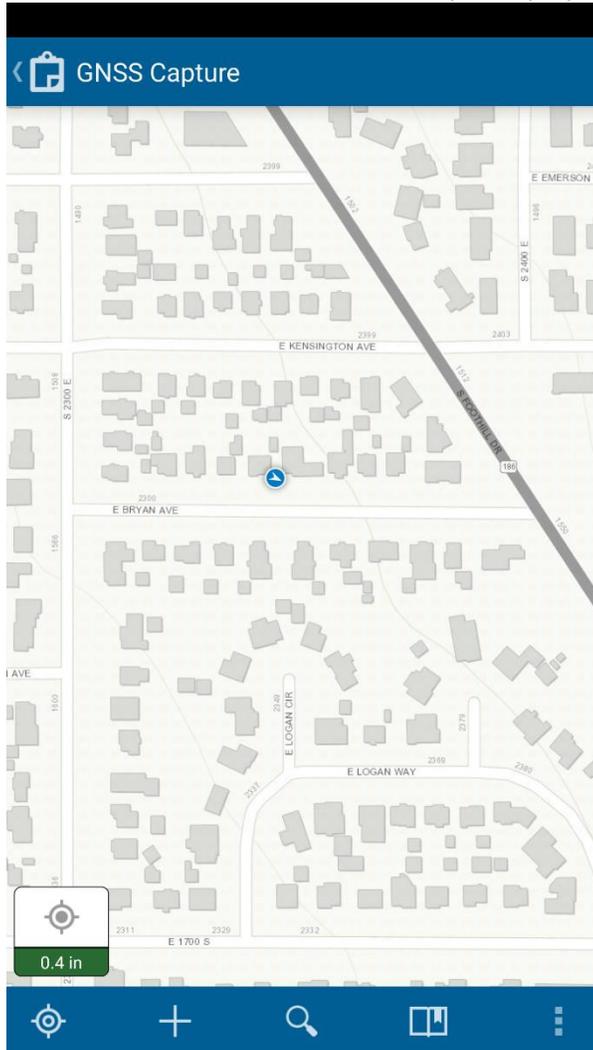


Click on the 'Location provider' section:



Choose the desired receiver.

For a quick demo, choose the demo 'GNSS Capture' project:



And your current position will be shown on the default map.

Once configured, you literally turn on the head. It will automatically:

- wait for a valid position
- connect to the selected cellular network
- connect to the selected RTK network source (NTRIP or DIP)

Once the right-hand LED on the iG8 is blinking once per second the head is ready to go (this takes about 30 to 60 seconds.)

Once corrections are being received, you can start Collector on your Android device. Collector will automatically use the last device, Bluetooth is automatically bonded and setup.