

## Using iG8 with ESRI® Collector on Android

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## Thesis

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

## 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:

	3 192.168.1.1/mobile-simple/web	1	:
G Bac	Mobile network Setti		
GPRS Model Status:			
Auto Start:			
Networ	Mode		
	2G Only		
	3G Only		
0	2G/3G Auto		
Dialing Status:		Di	al On
Dialing Connect:			
Auto Connect:			
APN:			
dac.co	m.attz		
Dialing	String:		
	Confirm		

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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.

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#### The NMEA0183 configuration screen is shown:

Back	NMEA0183 output	
	A 0183	
GPGGA:	1Hz	♥
GPGSV:	1Hz	$\bigcirc$
GPRMC:	1Hz	
GPGLL:	1Hz	♥
GPVTG:	1Hz	0
GPZDA:	1Hz	0
GPGST:	1Hz	0
GPGSA:	1Hz	$\bigcirc$
	Confirm	

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.

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

Collector				
5				
Location				
Accuracy				
30 ft				
Location provider				
GNSS-1013101				
Antenna height: 2.00 m				
Location profile				
Default				
General				
Units of Measurement				
Imperial				
Map Downloads and Sync				
WiFi only				
Push Only				
When working with On-Device maps, push my edits but don't pull edits from the server.				
Basemap download location				
Internal storage				
Navigation and directions				
Use Navigator for ArcGIS				
Route using Navigator ON				

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# Gage

### Click on the 'Location provider' section:



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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 uses the last device, Bluetooth is automatically bonded and setup.