

Settings

This iPhone is supervised and managed by Dudek. [Learn more about device supervision...](#)

 **Mackie Forgey** >
Apple ID, iCloud, iTunes & App Store


Apple ID Suggestions 2 >

 Airplane Mode

 Wi-Fi Not Connected >

 Bluetooth On >

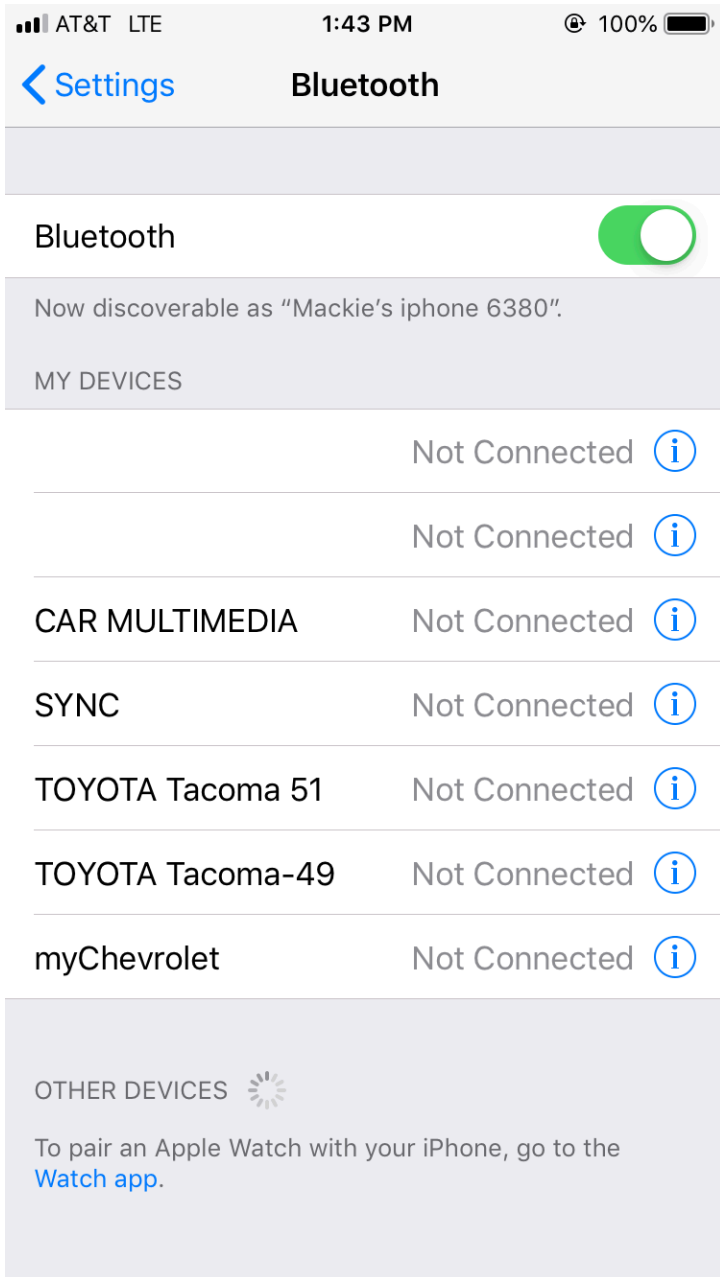
 Cellular >

 Personal Hotspot Off >

 Notifications >

The following instructions will work for any IOS Device, including iPhone and iPad.

Navigate to the home page and open Settings. Then navigate to the Bluetooth tab.



Make sure your Bluetooth is turned on. Turn your Trimble R2 device on by clicking the large power button once. The power button should light up green when on. Then wait for the Trimble R2 to show up in the "Other Devices" row.

Bluetooth



Now discoverable as "Mackie's iphone 6380".

MY DEVICES

Not Connected ⓘ

Not Connected ⓘ

CAR MULTIMEDIA Not Connected ⓘ

SYNC Not Connected ⓘ

TOYOTA Tacoma 51 Not Connected ⓘ

TOYOTA Tacoma-49 Not Connected ⓘ

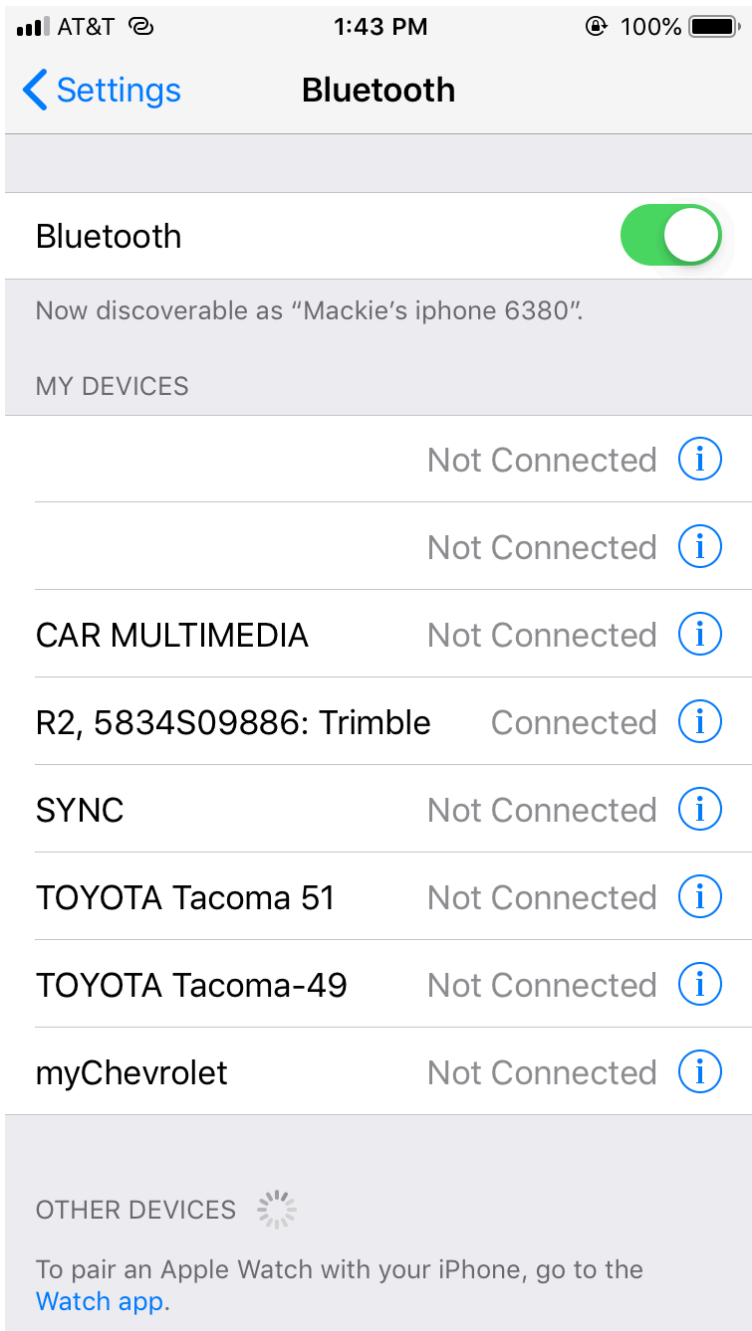
myChevrolet Not Connected ⓘ

OTHER DEVICES 

R2, 5834S09886: Trimble

To pair an Apple Watch with your iPhone, go to the [Watch app](#).

Once the Trimble R2 shows up in the "Other Devices" row, select it.



Once selected, the Trimble R2 will show up within the "My Devices" section displayed as Connected.

AT&T

1:44 PM

100%



Maps

Search

Current



BioCapture

Oct 9, 2019



Groups



Dudek Apps

10 Maps



Dudek Basemaps

1 Map



Dudek Bio

40 Maps



After you've connected your device to the Trimble R2 via Bluetooth, navigate to Collector. Once in the Collector app, click on the Profile symbol in the top-left corner of your screen.

Profile

Done



Bio User
biology

Sign Out

COLLECTION

Accuracy 26.24671916 ft >

GPS Averaging Off >

Streaming Time 1 sec >

Photo Size Large >

Related Types Filtered >

LOCATION

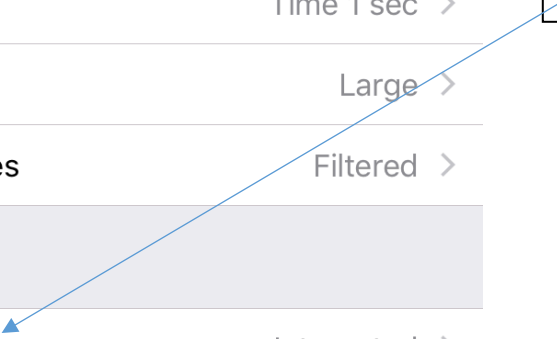
Provider Integrated >

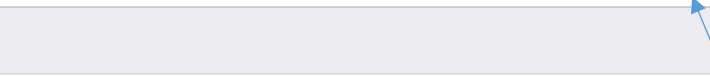
Profile Default >

GENERAL

Units >

Once within the Profile window in the Collector app, navigate to Provider under Location.





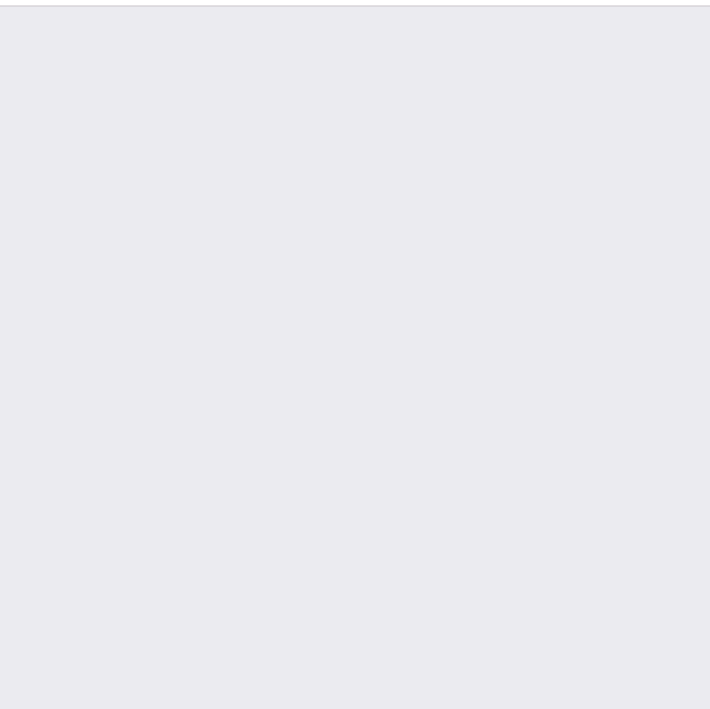
✓ Integrated
Antenna ht 0 m



Geneq #14022iR024
Not Connected · Antenna ht 1.5 m



Geneq #14022iR025
Not Connected · Antenna ht 1 m



Note that the Default Location Provider is called Integrated. This is the standard GPS Collector typically relies on. To switch this to relying on the Trimble R2, click Add in the top-right corner.

Cancel

Add Provider

R2, 5834S09886: Trimble

Add

To pair a new receiver to your device, go to Bluetooth Settings.

You should see the Trimble R2 device available in this window. Click Add to use it as a Location Provider.

< Back

Source

Direct IP

NTRIP

RTX

SBAS

After clicking Add, you'll automatically be sent to this window. Select SBAS as the Source.

If during mapping you find your accuracy is unreliable, try switching to RTX.

✓ Integrated
Antenna ht 0 m



Geneq #14022iR024
Not Connected · Antenna ht 1.5 m







Geneq #14022iR025
Not Connected · Antenna ht 1 m



R2, 5834S09886: Trimble
Connected · Antenna ht 1.75 m



Now that you have configured the Trimble R2 as a Location Provider, click the Info tab to set the Antenna height (typically your approximate height in meters). Note that this Info tab is where you may change the Source from SBAS to RTX.

Integrated	
Antenna ht 0 m	
Geneq #14022iR024	
Not Connected · Antenna ht 1.5 m	
Geneq #14022iR025	
Not Connected · Antenna ht 1 m	
<input checked="" type="checkbox"/> R2, 5834S09886: Trimble	
Connected · Antenna ht 1.75 m	

After inputting your Antenna Height, simply select the Trimble R2 in this menu and you will be fully connected within Collector.

Note that when not using the Trimble R2 in future mapping efforts, you'll have to manually switch back to the Integrated location provider in this window.

Profile

Done



Bio User
biology

Sign Out

COLLECTION

Accuracy 26.24671916 ft >

GPS Averaging Off >

Streaming Time 1 sec >

Photo Size Large >

Related Types Filtered >

LOCATION

Provider R2, 5834S09886: Trimble >

Profile Default >

GENERAL

Units >

Note that the Provider now displays the Trimble R2. Now that Collector has the capability to map in sub-meter accuracy, you'll want to change around some Collection settings. Navigate to the streaming tab.



Time



Distance

1 sec



2 sec

5 sec

15 sec

30 sec

1 min

Set how often to collect a new point while streaming.

Options are available to set Streaming while mapping to Time or Distance controlled point intervals. When mapping for sub-meter accuracy, it is recommended to use the Time controlled point intervals to be set at 1 second. This way, a point is dropped every second you start streaming, which should maximize polygon accuracy in the field.

Profile

Done



Bio User
biology

Sign Out

COLLECTION

Accuracy 15 ft >

GPS Averaging Off >

Streaming Time 1 sec >

Photo Size Large >

Related Types Filtered >

LOCATION

Provider Integrated >

Profile Default >

GENERAL

Units >

Now that Streaming is set to Time 1 sec, navigate to the Accuracy tab.

Distance (feet) 15

Set required location accuracy for data collection.

Inches

Feet

95% Confidence

Report horizontal and vertical accuracy at a higher confidence level.

As it is currently configured, Collector will allow you to map with 15ft accuracy. For mapping in sub-meter accuracy, it is recommended to change this 15ft to 3ft, so that you ensure every point mapped in collector meets required accuracy.

Profile

Done



Bio User
biology

Sign Out

COLLECTION

Accuracy 15 ft >

GPS Averaging Off >

Streaming Time 1 sec >

Photo Size Large >

Related Types Filtered >

LOCATION

Provider Integrated >

Profile Default >

GENERAL

Units >

Note that you may change the units within Collector from Standard US units to Metric units. Navigate to the Units tab within the main Profile window.



Measurement Units US Standard >

Coordinates Automatic >

Distance Automatic >

Area Automatic >

Here you may change the Measurement Units system and set specific units for Distance and Area.

US Standard

Metric



Once within the Measurement Units tab, select Metric.

Distance (meters) 1

Set required location accuracy for data collection.

Centimeters

Meters

95% Confidence

Report horizontal and vertical accuracy at a higher confidence level.

Once you change your units to Metric, navigate back to the Accuracy window and change the Distance to 1m. This way your units match up and any points dropped will be mapped with sub-meter accuracy.

Profile

Done



Bio User
biology

Sign Out

COLLECTION

Accuracy 3.280839895 ft >

GPS Averaging Off >

Streaming Time 1 sec >

Photo Size Large >

Related Types Filtered >

LOCATION

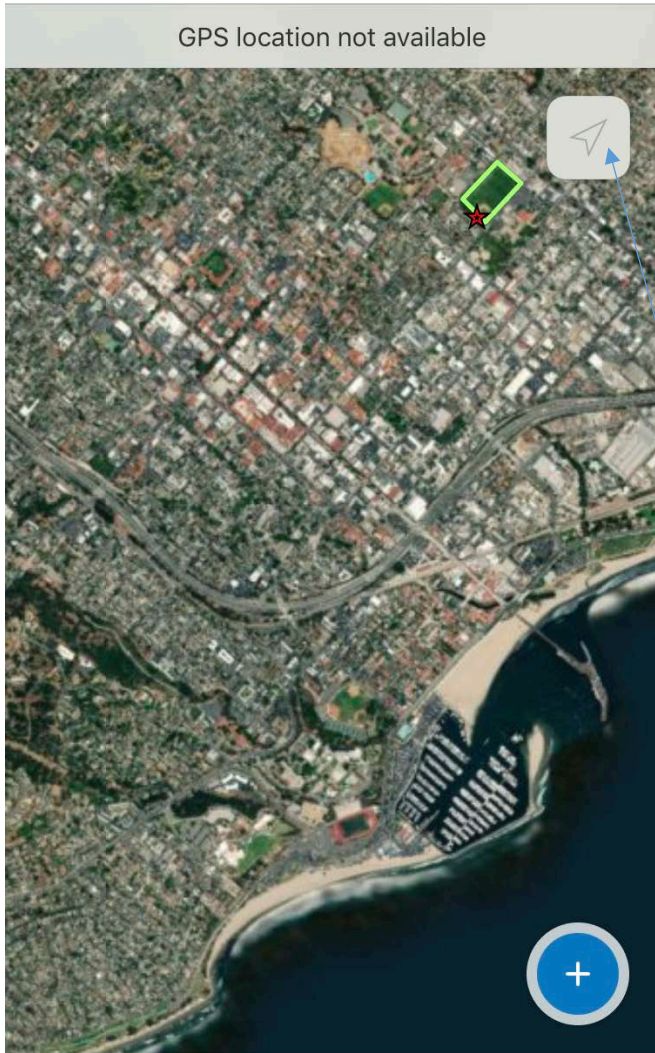
Provider Integrated >

Profile Default >

GENERAL

Units >

You may change your Units at any time within the Profile window. Note that since setting Accuracy to 1 meter, it has been switched again to the Standard US unit system and now displays in feet. This is especially useful if you need mapped polygon sizes to display in different units based on fieldwork needs, such as acres or square meters.



Now that your Trimble R2 is your Location Provider within Collector and your accuracy, unit, and streaming settings are fully configured, you'll navigate to your Collector project map to start mapping.

Since you've just changed your Location Provider, your map will show "GPS location not available". Just click the arrow in the top right-corner to refresh your new GPS connection, and your location and accuracy should be updated. If it doesn't work the first time, wait a little longer for your device to pick up an adequate amount of satellites, and try again until it fully connects.

AT&T

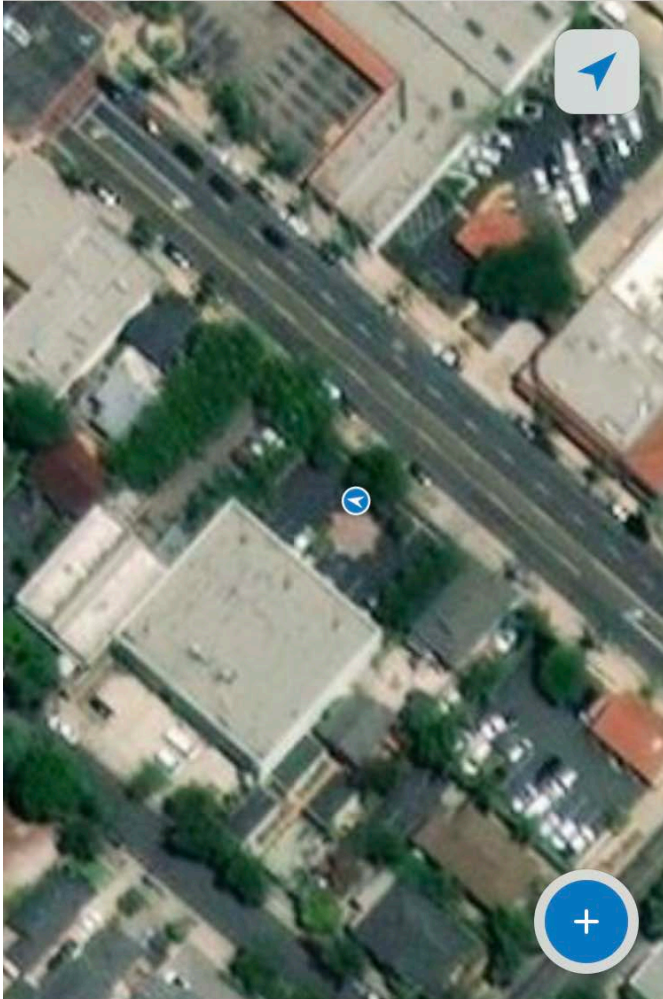
1:54 PM

98%

Maps



GPS accuracy 2.9 ft



Once the top banner displays your accuracy and the blue dot shows your location on the map, you're all set to map in the field with the Trimble R2!



These devices can greatly improve mapping in the field, with the capability to show real-time changes within collector and provide customizable feature attributes and instant polygon sizes across various units. Happy mapping!