

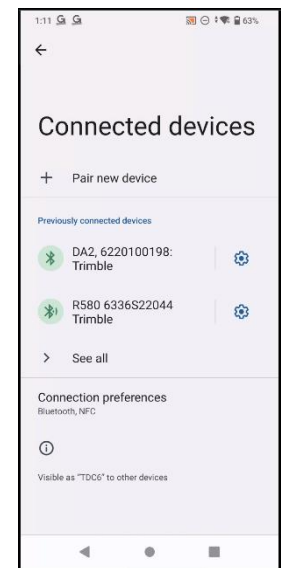
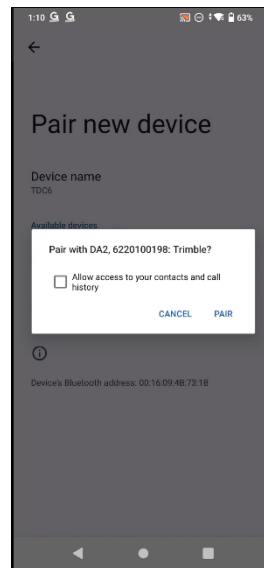
Configure Trimble DA2 in Trimble Mobile Manager on Android for Esri Survey123 for data in WGS84 (Current) Datum and MSL (2/2025)

Download App

- Connect your mobile device to an internet source using either integrated cellular or through Wi-Fi. This is found under the Settings/Network & Internet menu
- Go to App store
- Install the Trimble Mobile Manager (TMM) and esri Survey123 apps

Connecting the Trimble DA2 GNSS receiver to Mobile Device via Bluetooth

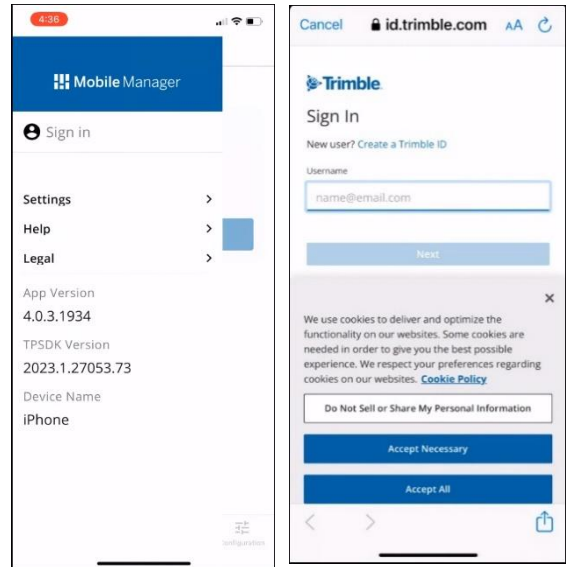
- Power up the Trimble DA2
- Go into the mobile device Bluetooth settings (*Settings/Connected Devices*).
- Choose ***Pair new device***
- Select the DA2 under ***Available devices***, Choose ***PAIR*** when the window pops up
- The Trimble DA2 should show up under ***“Previously connected devices.”***



Configure Trimble Mobile Manger (TMM)

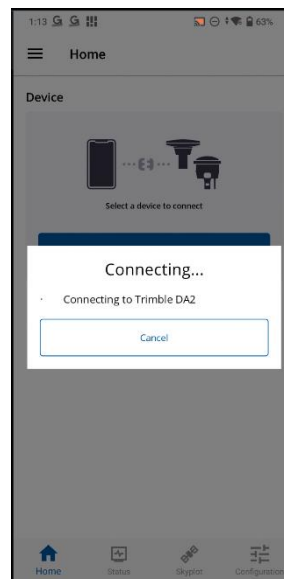
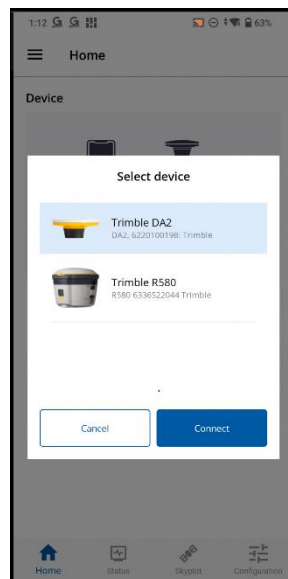
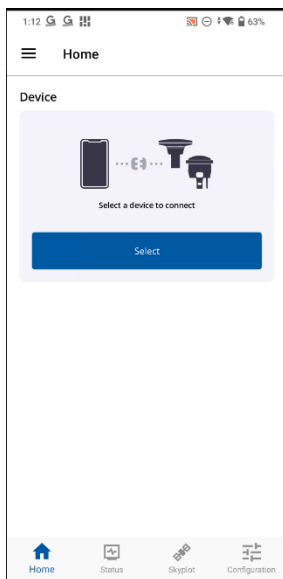
Sign into TMM

- Run TMM
- On Home Screen, click on the 3 horizontal lines icon in the top left corner of the application.
- **Click on Sign in.** This will bring you to a web browser. Sign in with your Trimble ID that has the Trimble Catalyst License Assigned to it.
- *If you want to check your catalyst license, then choose the License Tab. This will display your Catalyst license level and expiration date*

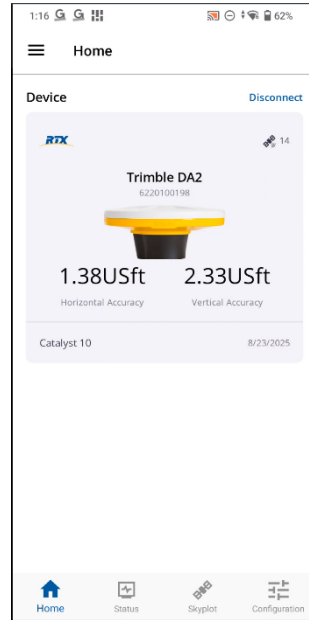


Connect to Trimble DA2 in Trimble Mobile Manager (TMM)

- On the TMM Home Screen, choose **Select** under Select a Device
- **Choose your Trimble DA2** to highlight it, then click on **Connect**



- Once connected the application will show Device Name, battery life, number of satellites, horizontal & vertical accuracy, and real-time type along with the expiration date.

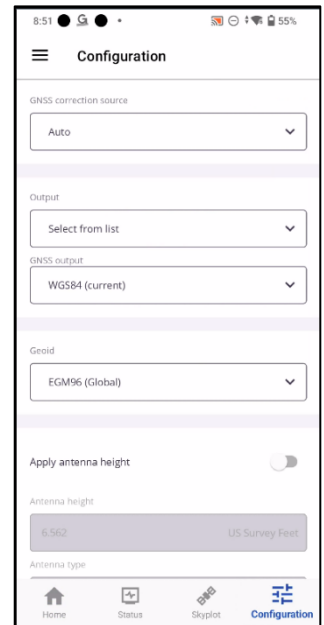


Configuring real-time and output in TMM

The **Configuration** menu is located at the bottom righthand corner of the application screen

- GNSS Correction Source:** There are 2 options, **Auto** or **Custom local**
 - Use Auto for Catalyst Trimble Correction Hub (TCH).** The TCH can include SBAS, RTX satellite or RTX Internet, and Trimble VRSnow real-time corrections. TCH real-time type used depends on connection type, license type and location.
 - Alternatively, you can Use **Custom local** when inputting your own base station or a local Real-time Network.
- Output.** Options are **Auto** or **Select from list**. Choose Select from list.
- GNSS Output.** Set it to **WGS1984 Current**
- Geoid.** Set the Geoid to **EGM96 (Global)**

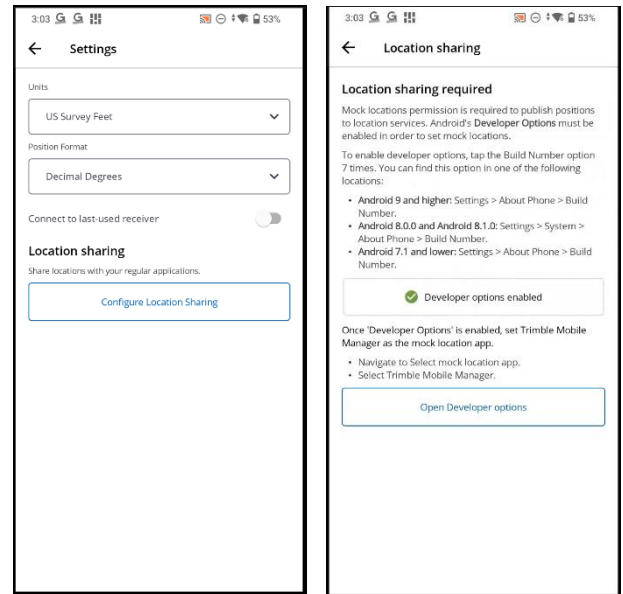
(Real time correction may require an internet connection/cell signal) If you are not connected to an internet source, select Auto and your unit should revert to SBAS or RTX Satellite (if purchased)



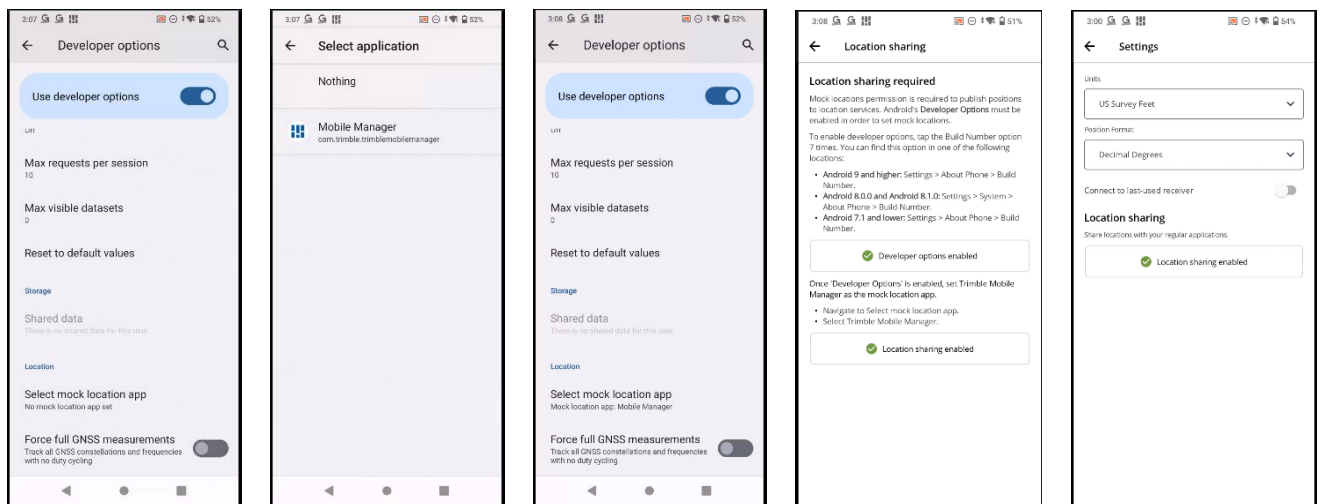
- Apply Antenna Height.**
 - Only turn this on if you are using apps that don't have the option for you to enter an antenna height.
 - Setup units and antenna height as needed.

Configure Mock Locations in TMM for use in Survey123 field application

- Click on 3 horizontal lines in the top left corner and choose settings
- Under **Location Sharing**, click on **Configure Location Sharing**
- A screen will appear that describes why and how to set up Location Sharing
- Configure the Android OS to enable Developer Options if needed



- Once completed, Click on **Open Developer options** to setup Mobile Manager as the Mock Location application
- Scroll to the bottom of the screen, choose **Select mock location app**, and choose Mobile Manager

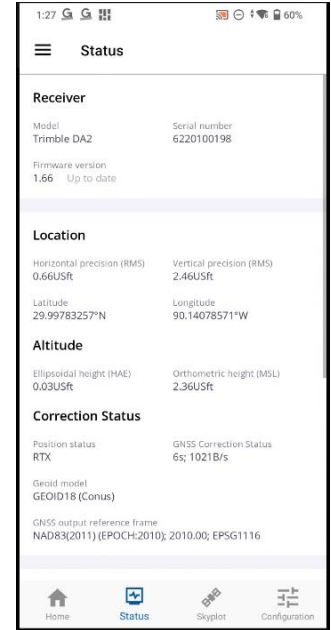


- Return to the Home Screen in the Trimble Mobile Manager application

Test the Trimble DA2 and real-time corrections in Trimble Mobile Manager

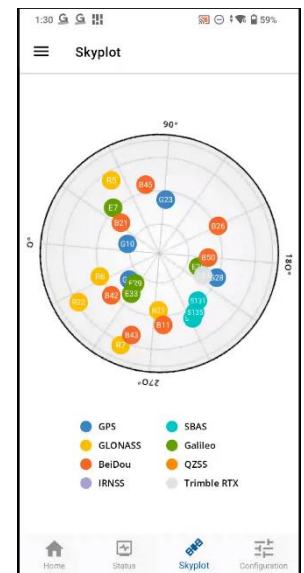
- Take the Trimble DA2 outside in an open sky location
- Run the Trimble Mobile Manager app.
 - On the TMM home screen ensure that your Trimble DA2 is connected
 - Verify that you are tracking satellites.
 - You will need at least 4 satellites to display a position.
 - Note, some real-time corrections may require access to the internet

- Choose the **Status icon** in the bottom middle of the application screen
 - **Receiver**
 - This will show you Model, Serial Number and Firmware version
 - **Location**
 - This will display horizontal & vertical accuracies along with Latitude/Longitude Coordinates
 - Horizontal and Vertical precisions will depend upon the Trimble Receiver and Accuracy option that you have
 - These precisions will depend on # of satellites, dop values, antenna field of view, etc.
 - **Altitude**
 - This will display HAE and MSL heights depending on your Geoid Model settings configured previously



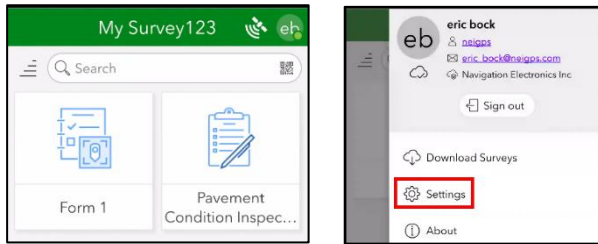
- **Correction Status**
 - This will display Position Status, GNSS Correction Status, Geoid model in use, and GNSS Output Reference frame.
- **Satellites**
 - This displays the GNSS constellations your are tracking and ones that your GNSS receiver is currently using

- Once the accuracy hits the spec of your Catalyst subscription, you are ready to collect data. Press the Home screen button to minimize TMM and keep the DA2 GNSS receiver running in the background. Note that you must **not** disconnect the DA2 GNSS receiver or close TMM if you want to run Survey123 field application to collect high accuracy GNSS data with the Trimble DA2.

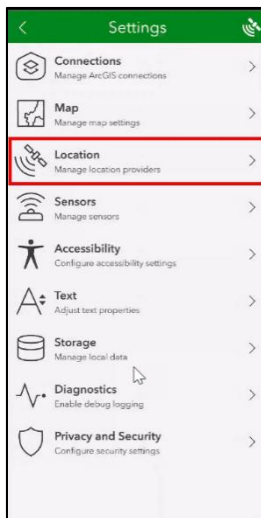


Configure the esri Survey123 field application

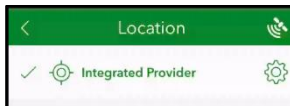
- Open esri Survey123 and **sign in** with your esri credentials.
- Click on your **Profile Icon** in the top right corner and choose **Settings**



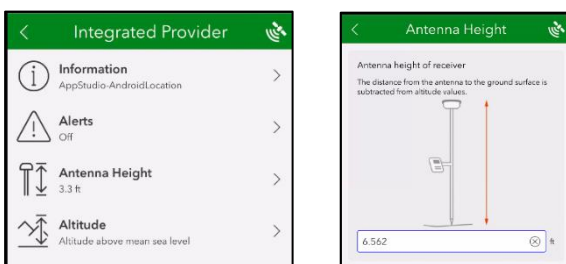
- Select the **arrow** next to **Location**.



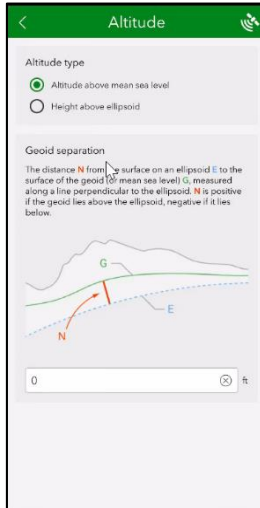
- Click on the **Gear Icon** next to **Integrated Provider**.



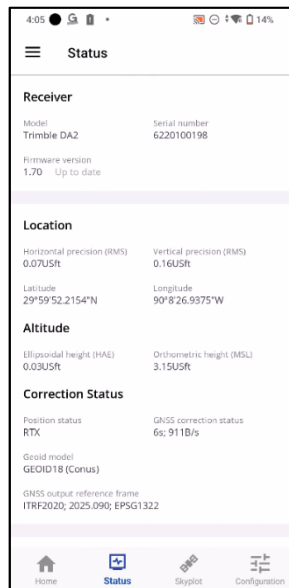
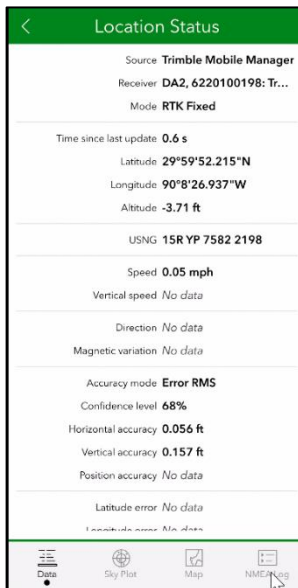
- You will see four options to view and configure.
- Click **arrow** next to **Antenna Height**. Set your **Antenna Height** as needed. Click on the back arrow when finished.



- Click on **arrow** next to **Altitude** and make sure the **Altitude type** is set to **Altitude above mean sea level**. Click on the back arrow when finished.



- You are now ready to collect data but first verify your accuracy via clicking on the GPS icon in the top right.
- Once the accuracy gets down to what you want then you are ready to collect data. If you want you can click on the minimize application button and open Mobile Manager to compare.



Normal Receiver – 3rd party app workflow once configured

- Power on the Trimble DA2 and the Mobile Device
- You should start all projects in the most wide-open area in your vicinity (no or limited overhead obstructions). This will ensure that your GPS unit can achieve its best accuracy.
- Run TMM and make sure the GPS tracks satellites and receives real-time corrections.
- Leave the DA2 connected and minimize Mobile Manager.
- Run Survey123 and select your project
- Collect data

Resources

- TMM Help: <https://help.trimblegeospatial.com/TMM/Home.htm>
- DA2 Firmware Update: <https://help.trimblegeospatial.com/TMM/Update-firmware.htm>
- Catalyst DA2 Help: <https://help.trimblegeospatial.com/Catalyst/DA2.htm>

If you have questions, please feel free to reach out to NEI at our Lafayette headquarters at 800-949-1446.