LTI MapSmart (for Android) Interface to

Trimble.

GNSS Receivers

Quick Reference Guide

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Overview

LTI's MapSmart is an application serving the mapping and GIS industry. In addition to a full interface to LTI's laser products/systems, it also easily supports input from Trimble GPS receivers through the use of Android Location Services*.

Compatible Trimble products
- R Series: 1,2,8,10
- Catalyst

Software used
- GNSS Status ver 3.0.x
- Mobile Manager ver 1.2.x
- MapSmart ver 4.x

Basic Steps

- Setup Android Device

- Connect Receiver to Device
  - R Series
  - Catalyst

- Configure MapSmart

*only position and basic satellite information is available

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Setup Android Device

Instead of routing the GPS data to a Bluetooth Serial Port, it can be sent to Location Services in an Android device. This makes it easily accessible to MapSmart's GPS interface.

1. Navigate to **Settings / About tablet** and locate the *Build number* option (Figure 1)
2. Repeatedly tap the value until you see the **Developer** message (Figure 2)
3. From the **Developer Options** screen, tap **Select mock location app** and pick the
   a) *GNSS Status* app from the list for the R Series products (Figure 3)
   b) *Trimble Mobile Manager* app for the Catalyst product
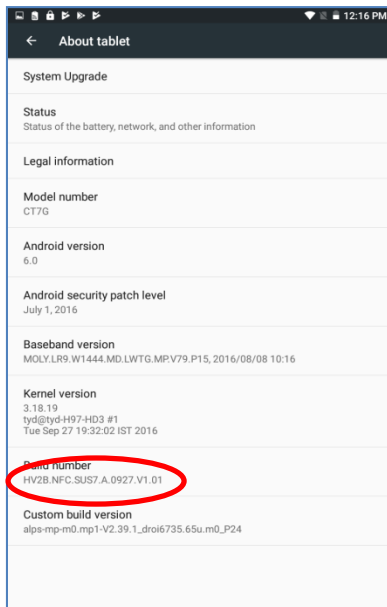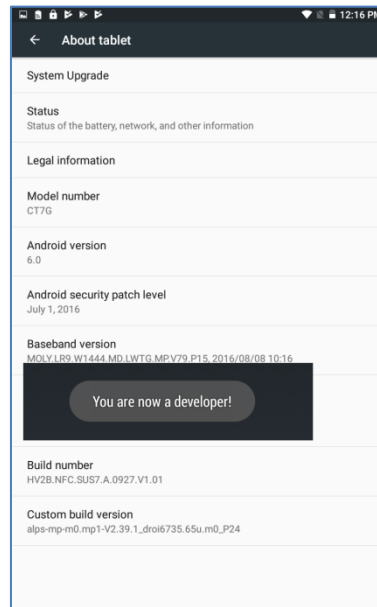4. Confirm the selection and then back out of the **Settings** menu (Figure 4)
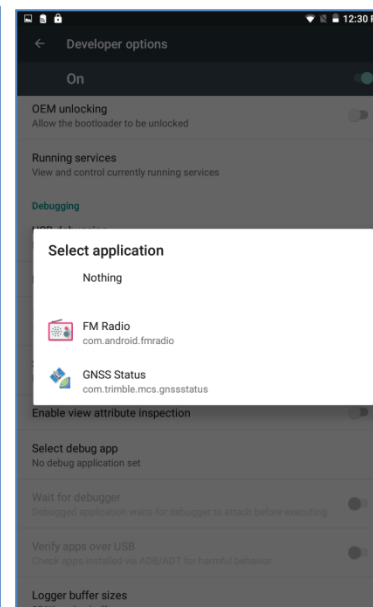

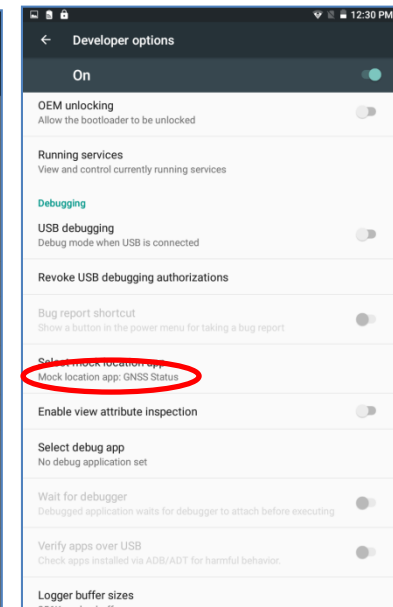| Figure 1 | Figure 2 | Figure 3 | Figure 4 |

Connect R Series Receiver to Device

The first time you use a Trimble GNSS receiver, you must pair it with your device.
Make sure you have a compatible Trimble receiver paired with your device before continuing.

5. Start the *GNSS Status* utility (version 3.x) and from the **Home** screen, tap the ***Menu*** icon (Figure 5a)
6. Select ***Source*** (Figure 6a)
7. Confirm your GNSS receiver is listed under ***Recent*** connections; and under the ***Position Source*** tab, select **Location Services**. Tap **Select** (Figure 7a)
8. From the **Home** screen, wait for positions to update from the receiver (Figure 8a)
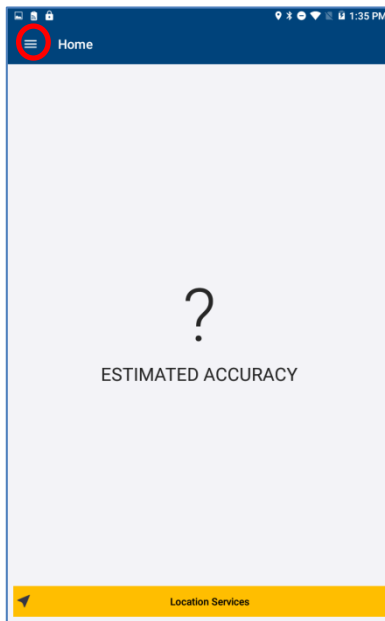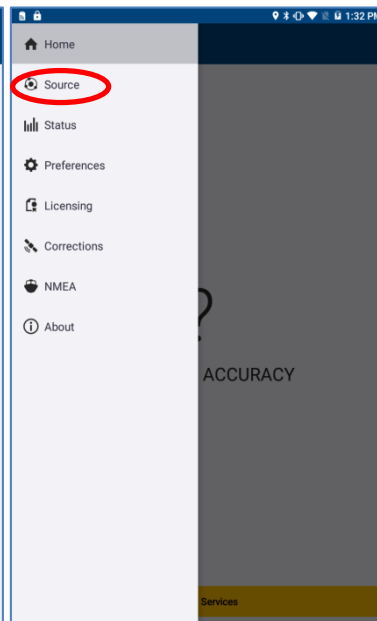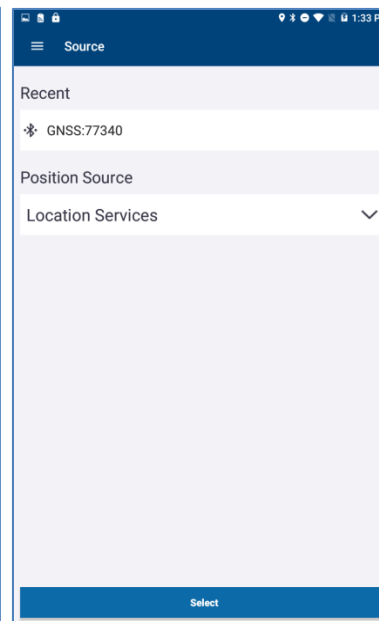
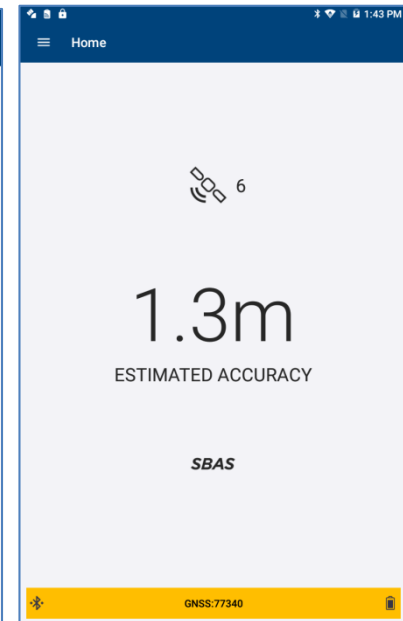| Figure 5a	Figure 6a	Figure 7a	Figure 8a

Connect Catalyst Receiver to Device

The first time you use a Trimble GNSS receiver, you must pair it with your device.
Make sure you have a compatible Trimble receiver paired with your device before continuing.

5. Start the *Trimble Mobile Manager (TMM)* utility (version1.x) and from the **Home** screen, make sure your Subscription is set properly (Figure 5b)
6. Tap the ***Connect*** icon or swipe left (Figure 6b)
7. Slide the **Connect** button On to start receiving data from the antenna (Figure 7b)
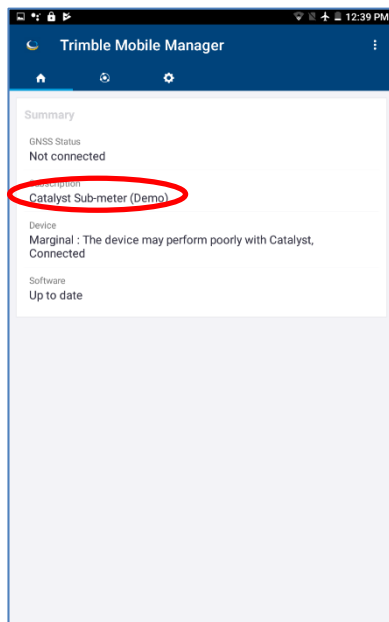8. Slide the **Share** button On and wait for positions to update from the receiver (Figure 8b)
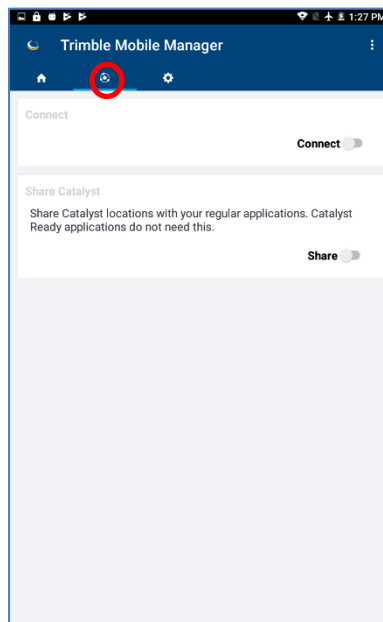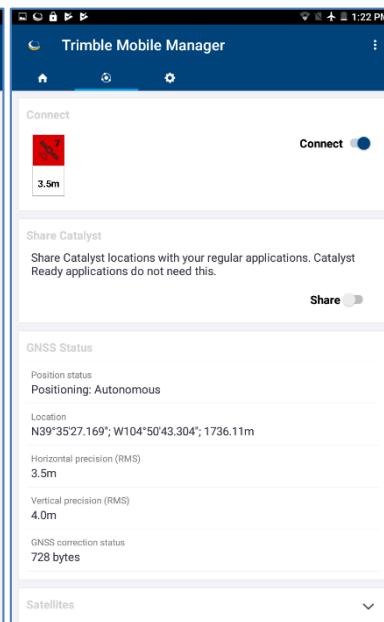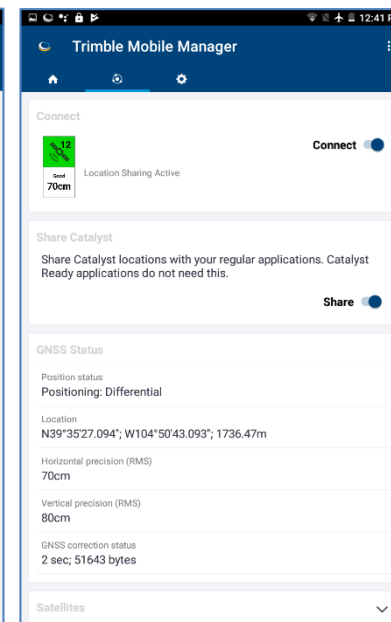

Figure 5b

Figure 6b

Figure 7b

Figure 8b

Configure MapSmart

If basic information such as number of satellites and HRMS is adequate, Android Location Services can provide the position from the Trimble Receiver to MapSmart.

9. Start the *MapSmart* app and tap the **Menu** options (Figure 9)
10. Select *GPS Settings* (Figure 10)
11. Under the Device pull-down list, select **Location Services**, then tap **Start Fix** (Figure 11)
12. Confirm the positions come in and update from the Trimble receiver. Tap **Submit** and the GPS is ready to use with MapSmart (Figure 12)
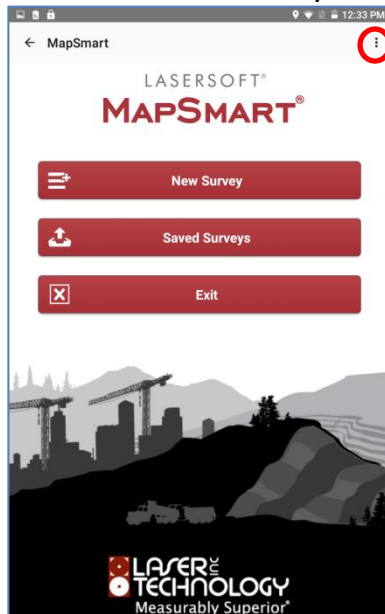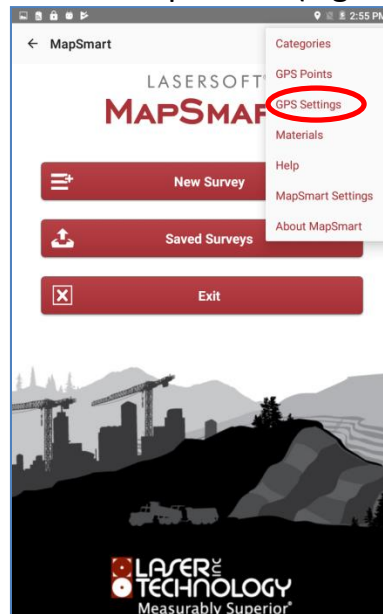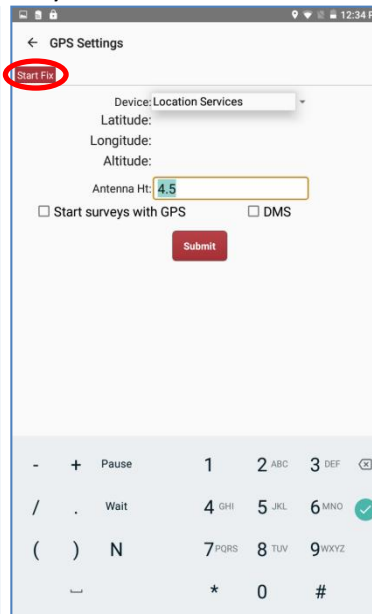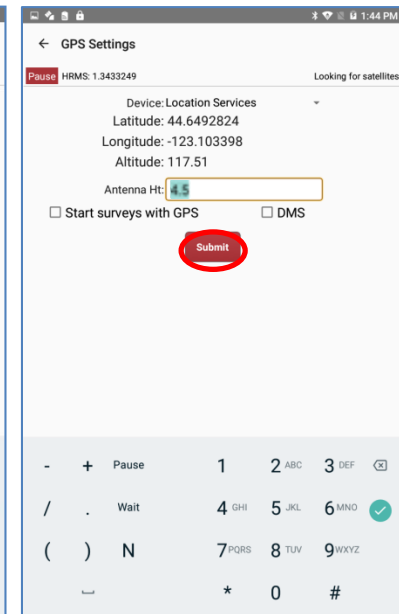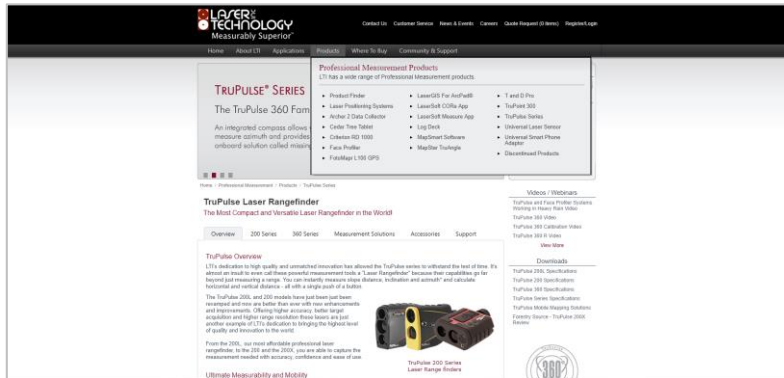

| Figure 9 | Figure 10 | Figure 11 | Figure 12 |

Product Resources

https://www.lasertech.com/TruPulse-Laser-Rangefinder.aspx

http://www.lasertech.com/MapSmart-Software.aspx

https://geospatial.trimble.com/products-and-solutions/gnss-systems

https://geospatial.trimble.com/products-and-solutions/trimble-catalyst

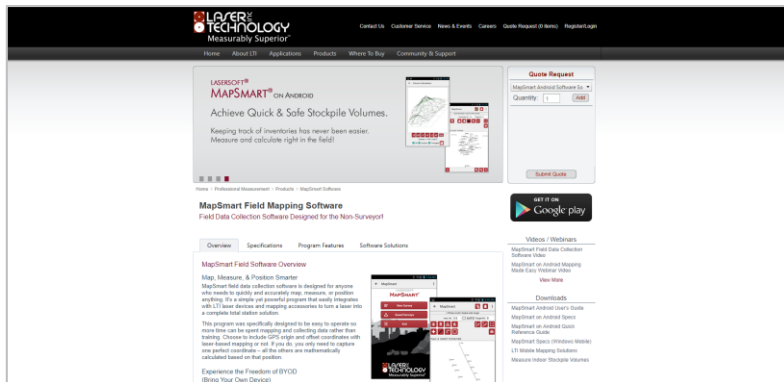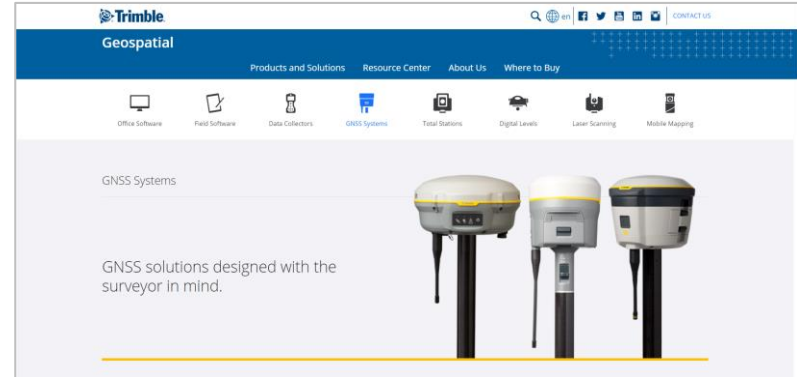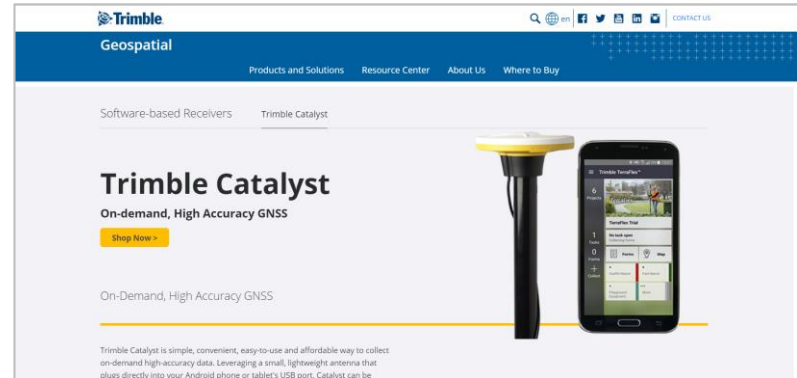**Stay informed!** Find out about
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Questions regarding the interface of Trimble GPS receivers to our laser products?

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