



VLS Mobile Tablet Configuration Guide

OCTOBER 2021

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MN007817A01-AB

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- Tel: 925-398-2079
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Read Me First

Notations Used in This Manual

Throughout the text in this publication, you notice the use of **Warning**, **Caution**, and **Notice**. These notations are used to emphasize that safety hazards exist, and the care that must be taken or observed.



WARNING: An operational procedure, practice, or condition, and so on, which may result in injury or death if not carefully observed.



CAUTION: An operational procedure, practice, or condition, and so on, which may result in damage to the equipment if not carefully observed.



NOTE: An operational procedure, practice, or condition, and so on, which is essential to emphasize.

Special Notations

The following special notations are used throughout the text to highlight certain information or items:

Table 1: Special Notations

| Example | Description |
|--|---|
| Menu key or Camera button | Bold words indicate a name of a key, button, or soft menu item. |
| The display shows <code>Settings Applied</code> . | Typewriter words indicate the MMI strings or messages displayed. |
| <code><required ID></code> | The courier, bold, italic, and angle brackets indicate user input. |
| Setup → Settings → All Settings | Bold words with the arrow in between indicate the navigation structure in the menu items. |

Related Publication

The following list contains part numbers and titles of related publications. To find and download the publications, visit <https://learning.motorolasolutions.com>.

| Part Number | Title |
|-------------|---|
| MN008501A01 | <i>Vigilant PlateSearch User Guide</i> |
| MN007806A01 | <i>Vigilant ClientPortal User Guide</i> |

| Part Number | Title |
|--------------------|--|
| MN007809A01 | <i>Target Alert Service User Guide</i> |

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Chapter 1

VLS Mobile Tablet

The VLS Mobile Tablet is an all-in-one compute solution for LPR enabled speed trailers and vehicles equipped with Vigilant Mobile LPR systems using Vigilant Car Detector Mobile.

The VLS Mobile Tablet comes equipped with:

- An Intel 8th Gen i7 processor
- Wi-Fi/Bluetooth/GPS/4G Connectivity
- A 1920x1200 touch screen
- A 60 W Battery
- A rear CMOS Camera

Chapter 2

VLS Mobile Tablet Setup

An unconfigured tablet received directly from the vendor (DT Research) requires additional driver installation and Windows 10 configuration to be performed before operation in a Vigilant LPR Trailer or Mobile LPR vehicle deployment.

A pre-configured VLS Mobile Tablet requires the following:

- A carrier provisioned 4FF-size Nano-SIM card (ATT or Verizon) and driver installation.
- A CDMP IP license key and software installation.
- An active LEARN account



NOTE: Contact a LEARN Agency Manager to obtain a LEARN account and connection file.

2.1

Installing a SIM Card

Procedure:

- 1 Remove the tablet, PSU, and power cable from its packaging.


Figure 1: Tablet Computer Package



- 2 Place the tablet with the screen side face down.

Figure 2: Tablet Screen Face Down



 **NOTE:** Place the tablet on top of a smooth surface to protect the screen.

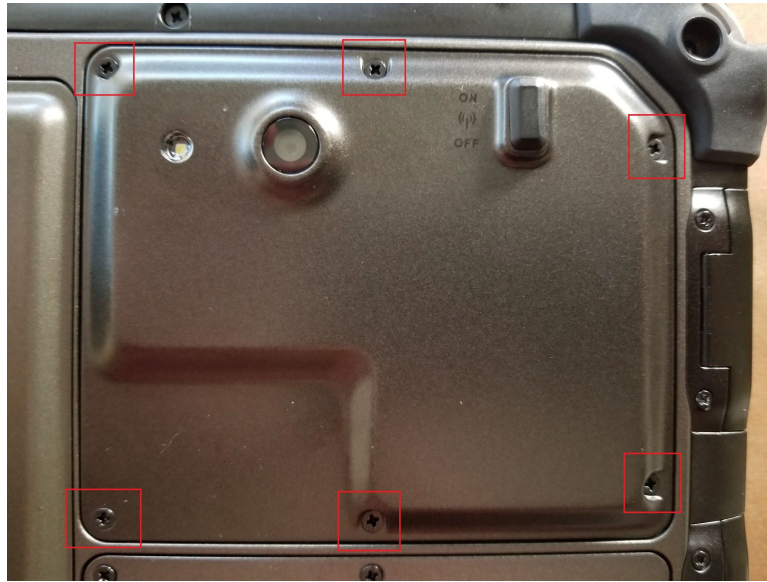
- 3 Unlatch the top of the rear silicone harness by sliding the top right and top-left eye-latches up towards the handle of the tablet, and pulling the eye-latches up and off of the screws.
- 4 Fold the silicone harness down and under the tablet to hold the harness out of the way.

Figure 3: Tablet Handle



- 5 Remove the six small screws that border the panel of the SIM card bay. The SIM card bay is located under the panel with the camera lens on it.

Figure 4: Back Panel Screws



NOTE: Temporarily set the screws aside somewhere they will not be lost.

- 6 Gently lift the SIM card bay panel.

Figure 5: SIM Card Bay Panel



CAUTION: Do not pull the panel completely away. The panel is attached to the tablet by two internal wires.

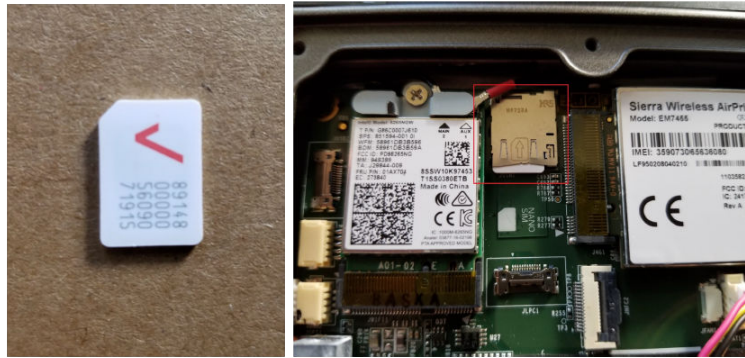
- 7 Gently slide the panel down and away.



NOTE: When removing the panel, it may help to tilt the tablet up on its side and carefully let the panel tilt out.

- 8 Insert the Nano-SIM card into the SIM card slot and press in until a click is felt.

Figure 6: Insert the SIM Card



- 9 Close the SIM card bay panel.
- 10 Gently tighten the six small panel screws.

2.2

Turning On the Tablet

Procedure:

- 1 Locate the USB door on the left side of the tablet. Flip the switch to the left to unlatch the door and expose the USB-C charging port.

Figure 7: USB Door



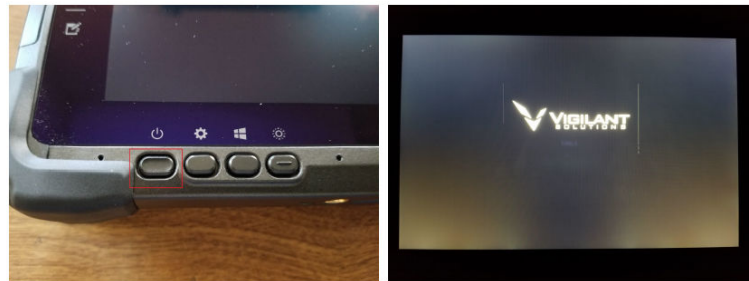
- 2 Plug the included USB-C cable from the Power Supply Unit (PSU) into the charging port.

Figure 8: USB-C Charging Port



- 3 Plug in the PSU.
- 4 Once powered, the tablet will boot up in several seconds.
- 5 If it does not, press and hold the power button for a few seconds until the touch screen lights up and the Vigilant logo displays.

Figure 9: Power On Indicator



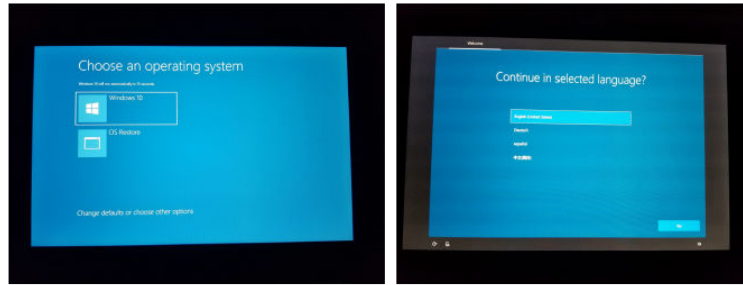
2.3

Performing Initial Windows Setup

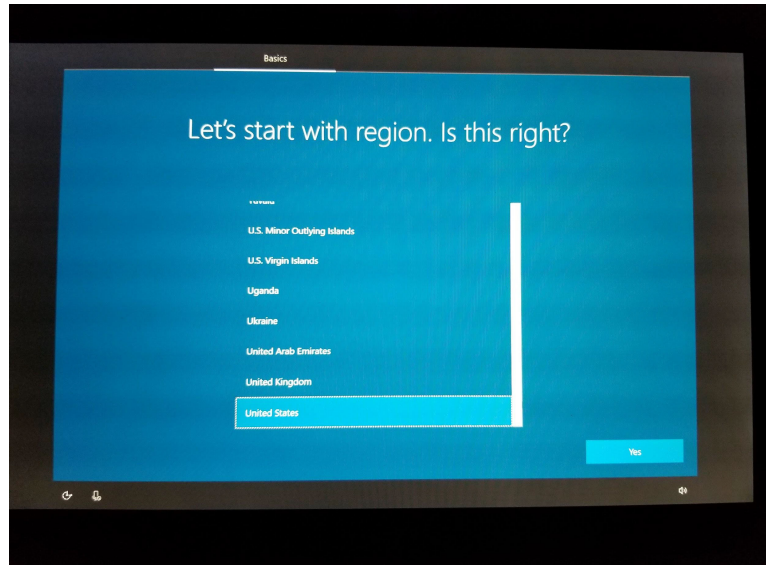
When and where to use: When the tablet computer is received directly from the manufacturer in its OEM packaging, initial Windows 10 setup will be performed upon the first boot up. If initial setup has already been performed, the Windows 10 login screen will display instead.

Procedure:

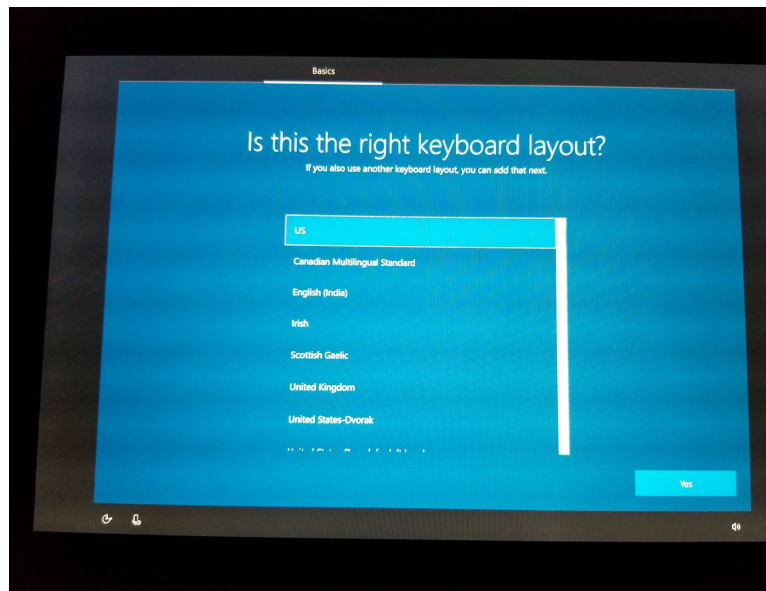
- 1 Perform one of the following actions:
 - For initial windows setup, skip to [step 2](#).
 - For subsequent logins, swipe up on the login screen and enter the Windows password.
- 2 Under **Choose an operating system**, select **Windows 10**→**English**→**OK**.



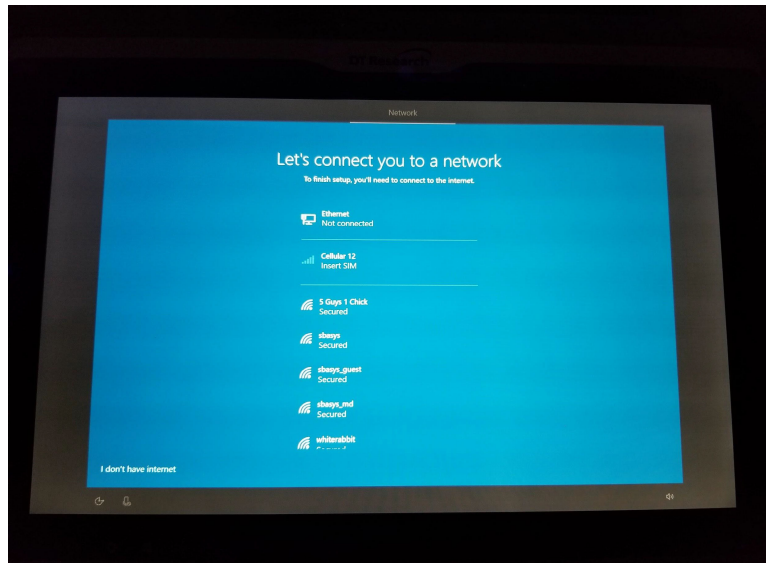
3 Select **United States** as the region.



4 Select **US** as the keyboard layout.



5 Select a Wi-Fi network to connect to and enter a password if necessary.



- 6 If there are no Wi-Fi networks available, select **I don't have internet** and tap **OK** to accept the Windows 10 license agreement.

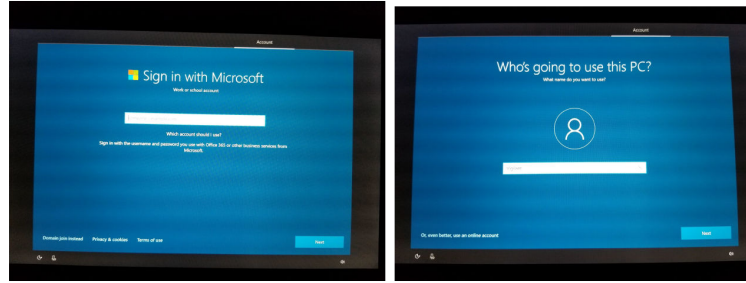
Figure 10: Windows 10 License Agreement



- 7 If no Microsoft account has been supplied, tap **Domain join**.
- 8 Enter a desired username.
- 9 Set the desired account password.



NOTE: If desired, a customer provided name and password can be used instead.



10 Tap **No**→**Decline**.

11 Wait for the Windows 10 desktop to appear.

2.4

Obtaining Tablet Software

Procedure:

1 Use the Microsoft Edge web browser on the tablet to download the VLS Mobile Tablet drivers and CDMP IP software:

- <https://get.vaasfiles.com/VLSDrivers>
- <https://get.vaasfiles.com/CDMSIP>



NOTE: If the tablet cannot be provided with Internet access, the drivers and software can be downloaded on a separate computer and moved to the tablet with a USB flash drive.

2.5

Tablet Driver Software Installation

There is ONE of two driver files that must be installed on a pre-configured VLS Mobile Tablet depending on the cellular carrier being used:

- 9999999_9904594_SWI9X30C_02.32.11.00_00_ATT_002.070_002.exe (ATT), or
- 9999999_9904780_SWI9X30C_02.33.03.00_00_VERIZON_002.079_001.exe (VERIZON)

There are FIVE driver installation files that must be installed on an unconfigured tablet when it has come directly from the vendor (DT Research):

- 9999999_9904594_SWI9X30C_02.32.11.00_00_ATT_002.070_002.exe (ATT), or
- 9999999_9904780_SWI9X30C_02.33.03.00_00_VERIZON_002.079_001.exe (VERIZON)
- USBDrivers_2312.exe
- ubloxGnss_sensorDeviceDriver_windows_3264_v2.40.exe
- ubloxGnss_vcpDeviceDriver_windows_3264_v3.10.exe
- ubloxGnss_usbcdc_windows_3264_v1.2.0.8.exe

2.5.1

Installing the AirPrime EM7455 4G/LTE Modem Firmware

Prerequisites:The tablet is equipped with a Sierra Wireless EM7455 4G/LTE Modem for cellular Internet access. The modem supports AT&T or Verizon cellular carriers, and a specific firmware version must be installed to support which carrier-specific SIM card that the customer is supplying.

Procedure:

- 1 Perform one of the following actions:
 - If the cell carrier is AT&T, double-tap the following file to run the AT&T firmware installer:
9999999_9904594_SWI9X30C_02.32.11.00_00_ATT_002.070_002.exe
 - If the cell carrier is Verizon, double-tap the following file to run the Verizon firmware installer:
9999999_9904780_SWI9X30C_02.33.03.00_00_VERIZON_002.079_001.exe



NOTE: Only run one file. Do not run both files.

- 2 Wait for the installation to complete.
- 3 In the command prompt window, wait for the **Press enter to continue...** message to appear.

Figure 11: Command Prompt Window

```
C:\Users\Vigilant\AppData\Local\Temp\FDT\fdt2.exe
Flashing image /
Awaiting adapter ...
Checking update status ...
Enabling selective suspend ...
Firmware image download succeeded.
Final Firmware update succeeded.

Preexisting images information:
  Current:
    Firmware:
      ImageId: 002.026_000
      BuildId: 02.24.05.06_GENERIC
    Configuration:
      ImageId: 002.026_000
      BuildId: 02.24.05.06_GENERIC
Final images information:
  Current:
    Firmware:
      ImageId: 002.079_001
      BuildId: 02.33.03.00_VERIZON
    Configuration:
      ImageId: 002.079_001
      BuildId: 02.33.03.00_VERIZON

OEM PRI: 9907469 001.000 Generic-M2M
IMEI: 359073065636080

Total time elapsed: 112922 ms.

Time to switch to boot mode: 18688 ms.

Images downloaded:
  Image ID: ?_?
  Build ID: 02.33.03.00_?
    write time: 4672 ms
    additional flash time: 60797 ms
  Image ID: 002.079_001
  Build ID: 02.33.03.00_VERIZON
    write time: 0 ms
    additional flash time: 47 ms

Time to reset to application mode: 27781 ms.

Press Enter to continue ...
```

- 4 Close the command prompt window.

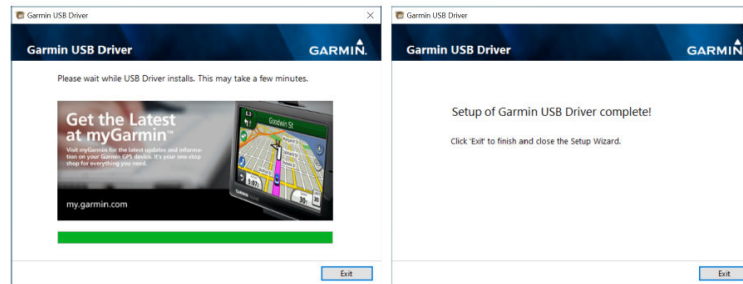
2.5.2 Installing the Garmin USB GPS Driver

When and where to use:The Mobile LPR software uses the Garmin USB GPS driver to activate the GPS light in the software. Without the **USBDrivers_2312.exe** driver, the GPS light will always stay red.

Procedure:

- 1 Double-tap on the .exe file to start the installation.
- 2 Follow the on-screen instructions to complete the installation.
- 3 Tap **Exit** to close the window when setup is complete.

Figure 12: Command Prompt Window



2.5.3 Installing the u-blox M8 GNSS/GPS Module Drivers

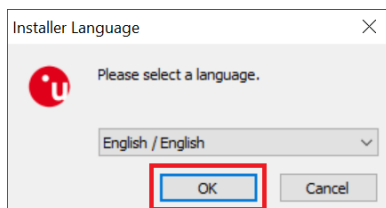
When and where to use:There are three u-blox M8 GNSS Module drivers that must be installed. These drivers allow the Mobile LPR software to communicate with the GNSS/GPS module and receive GPS signals.

Table 2: u-blox M8 GNSS/GPS Module Drivers

| Driver | Filename |
|---|---|
| GNSS/GPS module device driver | ubloxGnss_sensorDeviceDriver_windows_3264_v2.40.exe |
| Virtual Com Port driver for the GNSS/GPS module | ubloxGnss_vcpDeviceDriver_windows_3264_v3.10.exe |
| UART Serial Port emulator over USB | ubloxGnss_usbcdc_windows_3264_v1.2.0.8.exe |

Procedure:

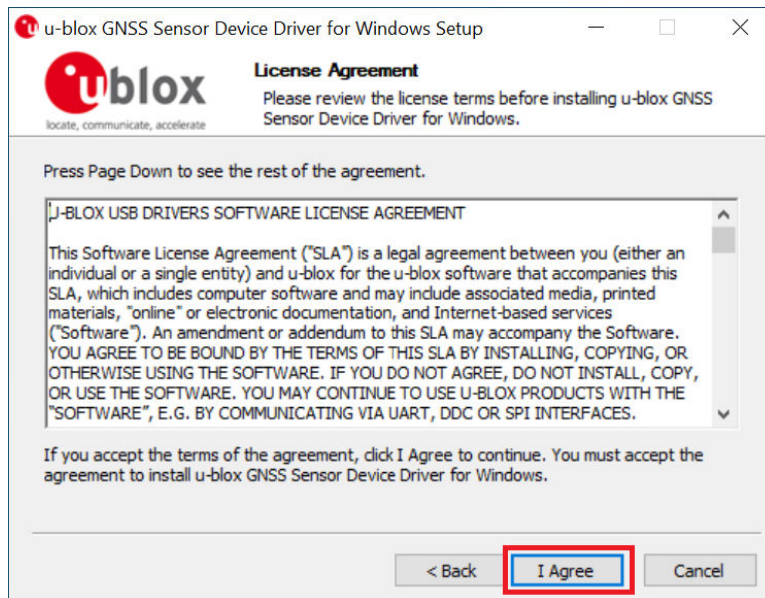
- 1 For each driver file, double-tap the file and follow the on-screen instructions to complete driver installation.
- 2 Select **English**→**OK**.



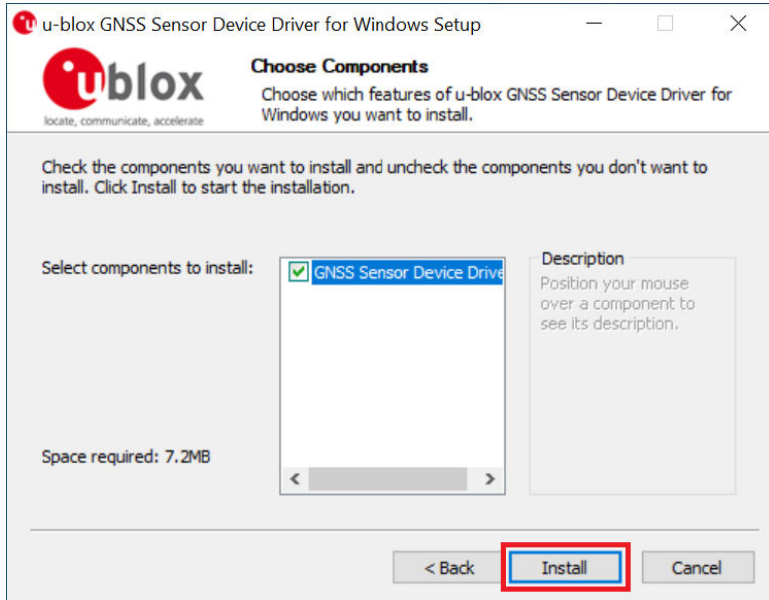
3 Click **Next**.



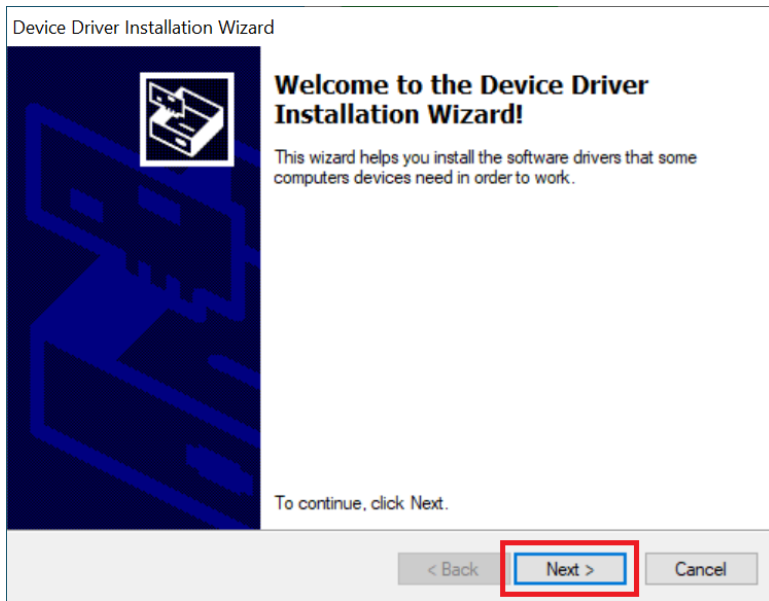
4 To agree to the license agreement, tap **I agree**.



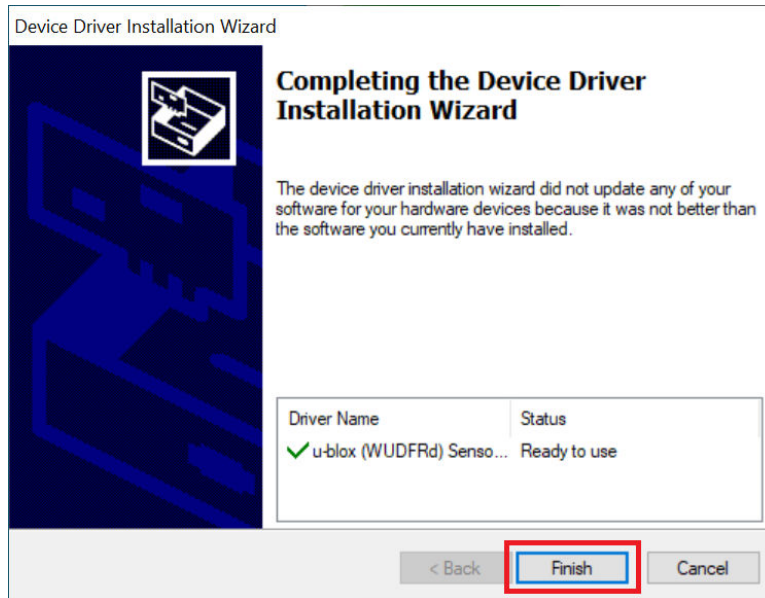
5 To start the installation, tap **Install**.



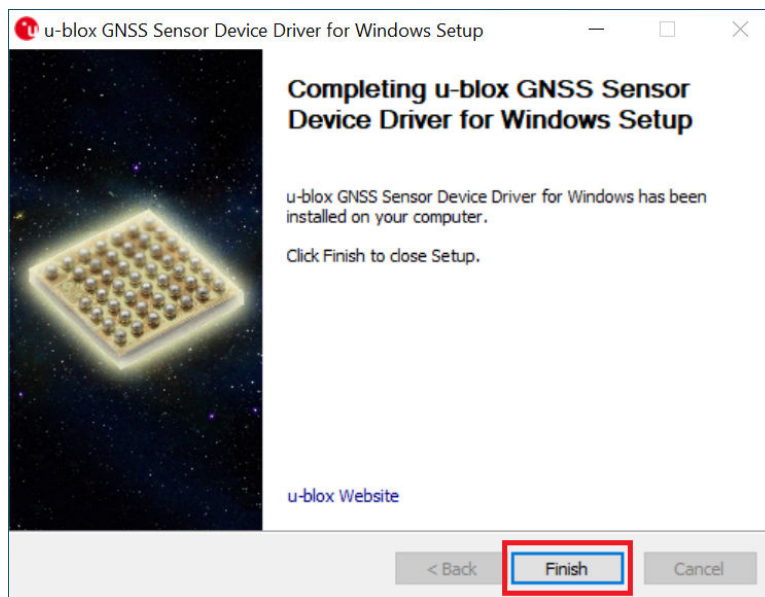
6 In the second Device Driver Installation Wizard window, tap **Next**.



7 When the installation completes, tap **Finish**.



- 8 To complete the installation, tap **Finish** in the first **u-blox GNSS Device Driver for Windows** window.



2.6

Windows Configuration

In order for the VLS Mobile Tablet to operate properly, Windows must be activated, a Windows 10 Setup Script must be run, and a few registry values must be modified.

2.6.1

Activating Windows

When and where to use: Windows activation will happen automatically when the tablet is connected to the Internet.

Procedure:

- 1 If Windows has not yet been activated, connect the tablet to a Wi-Fi access point.
- 2 Select **Activate Windows**.

2.6.2

Installing Windows 10 Setup Script

The Windows 10 Setup Script is a custom Windows PowerShell script that disables numerous Privacy, Security, Network, Services, and other Windows 10 features to optimize the OS environment for CarDetector Mobile system field operations.

Procedure:

- 1 Download the `Win10SetupScript.zip` file containing the script files at <https://get.vaasfiles.com/Win10Setup>.
- 2 Extract the **Win10 Setup Script** folder from the zipped file to the Windows desktop and open it.
- 3 Run the `Options.cmd` file.
- 4 Wait for the script to complete until the message `Press any key to continue...` appears.
- 5 Press any key to close the PowerShell script window and restart the computer.

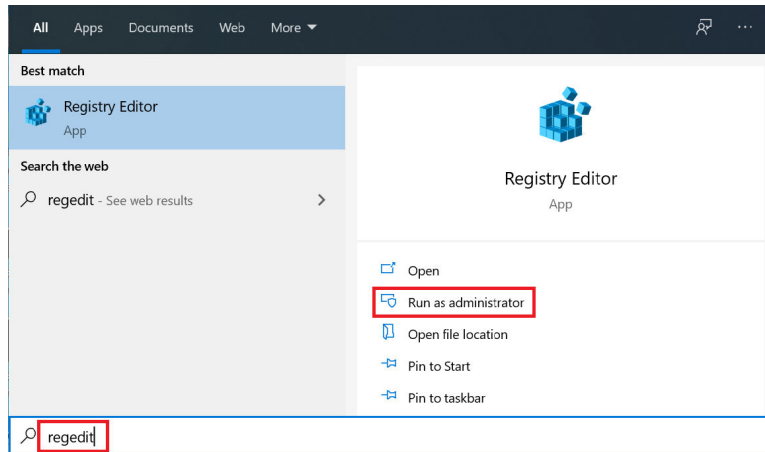
2.6.3

Editing Windows Registry

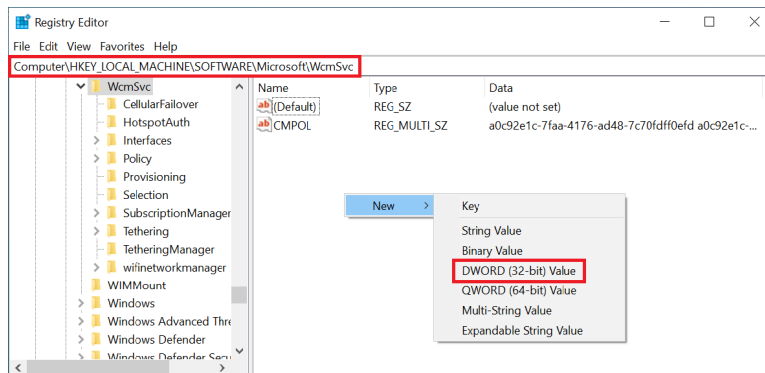
Prerequisites: Two Windows registry keys must be modified to allow the tablet to simultaneously use the 4G/LTE Cellular Modem and the Ethernet adapter.

Procedure:

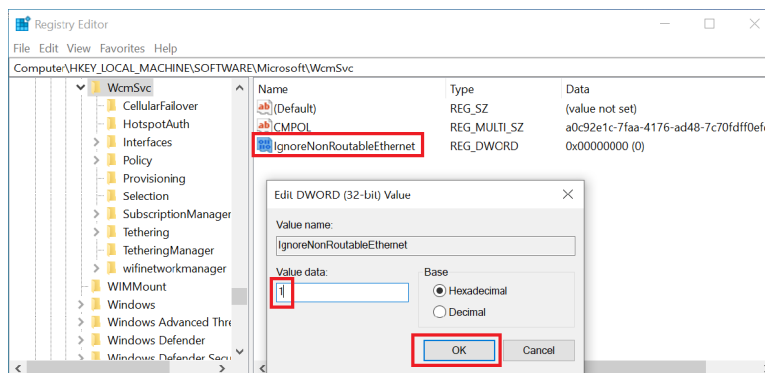
- 1 Tap the Windows Search Bar and type `regedit`.
- 2 Tap **Run as Administrator**.



- 3 In the left navigation pane, navigate to **Computer**→**HKEY_LOCAL_MACHINE**→**SOFTWARE**→**Microsoft**→**WcmSvc**.
- 4 Press and hold in the right pane to open the context menu.
- 5 Tap **New**→ **DWORD (32-bit) Value**.

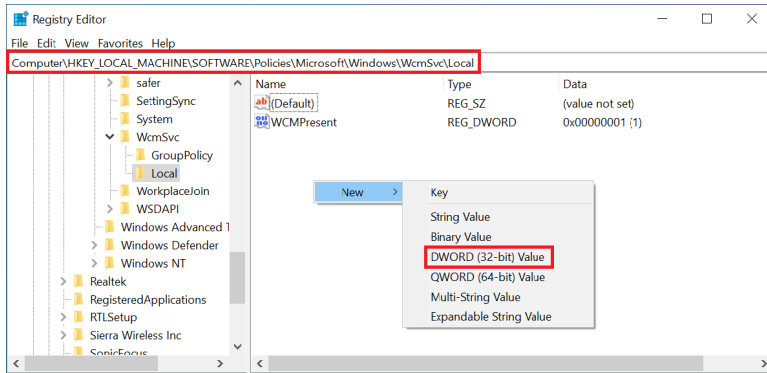


- 6 Name the new registry value **IgnoreNonRoutableEthernet**.
- 7 Double-tap the new registry value to edit it.
- 8 In the Value data text field, enter **1**.
- 9 Tap **OK**.



- 10 In the left navigation pane, navigate to **Computer**→**HKEY_LOCAL_MACHINE**→**SOFTWARE**→**Policies**→**Microsoft**→**Windows**→**WcmSvc**→**Local**.
- 11 Press and hold in the right pane to open the context menu.

12 Tap New→ DWORD (32-bit) Value.

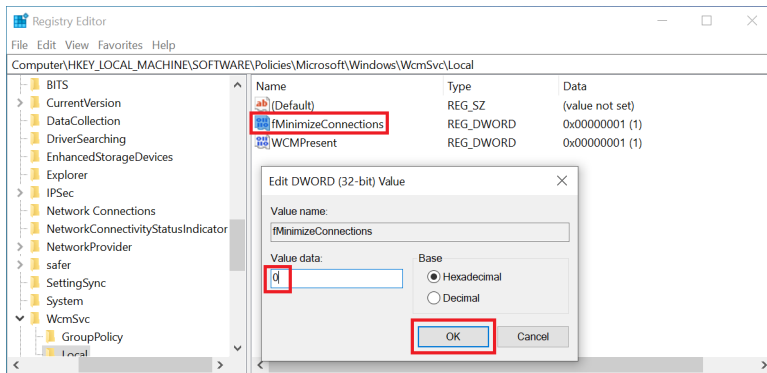


13 Name the new registry value fMinimizeConnections.

14 Double-tap the new registry value to edit it.

15 In the Value data text field, enter 0.

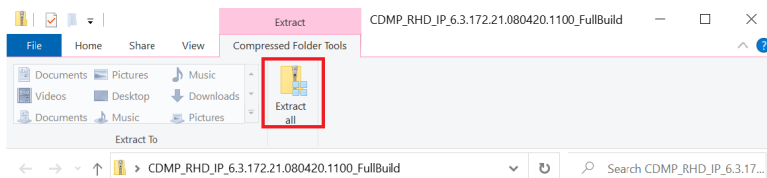
16 Tap OK.



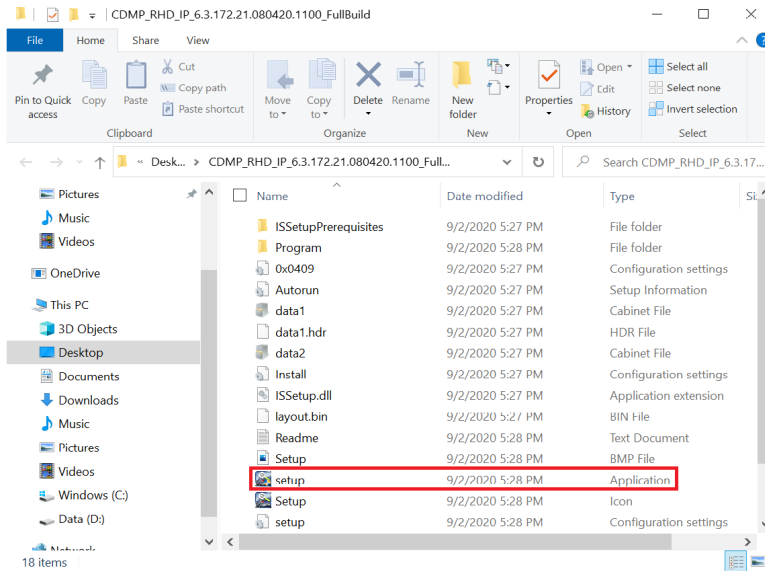
2.7 Installing Mobile LPR Software

Procedure:

- 1 Double-tap the CDMF_RHD_IP_6.3.172.21.080420.1100_FullBuild archive to open it.**
- 2 Tap Extract all and wait for the extraction to complete.**

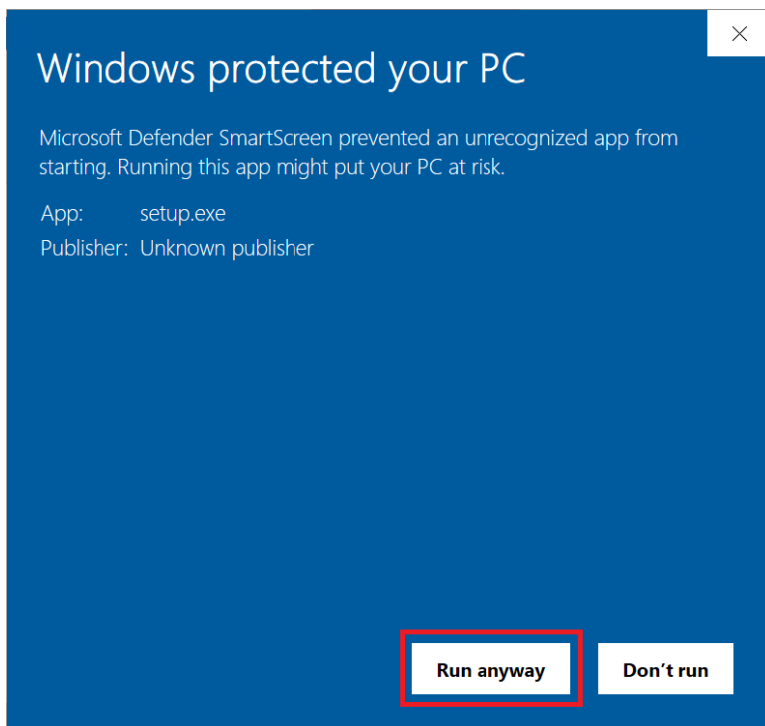


- 3 In the new extracted folder, double-tap the setup.exe application file.**

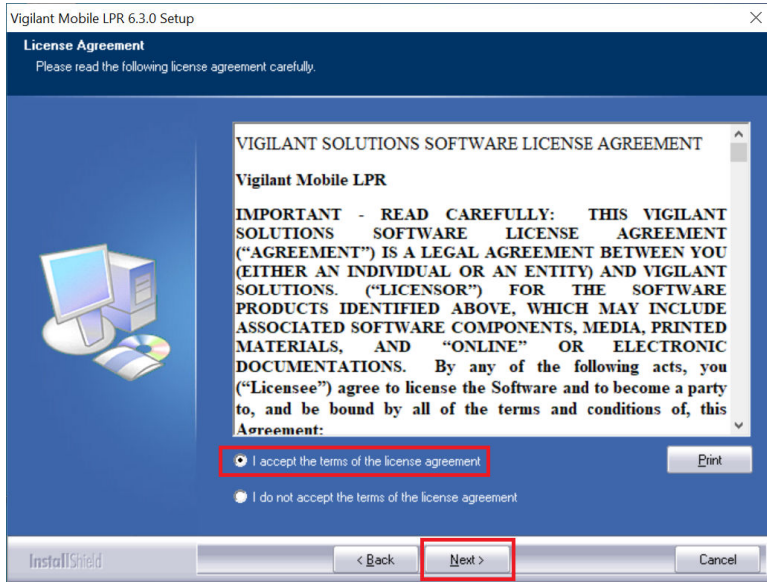


Windows 10 will display a SmartScreen warning.

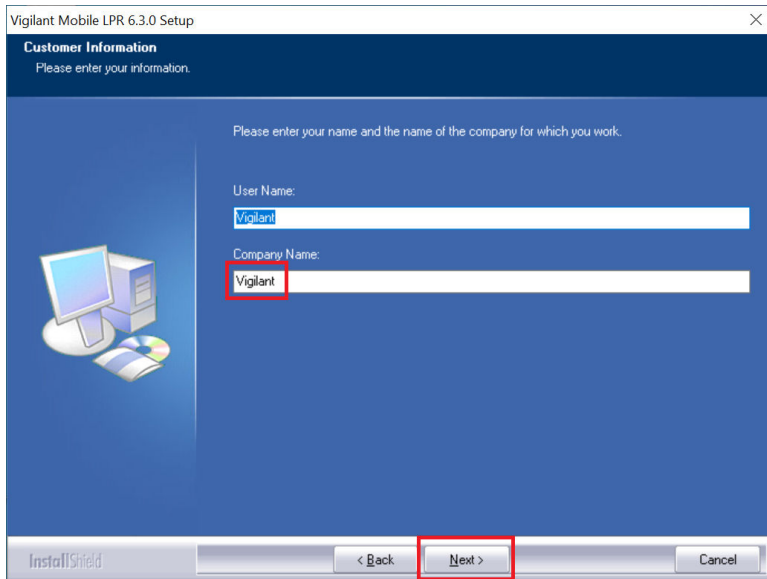
4 Tap More info→Run Anyway→Install→Next.



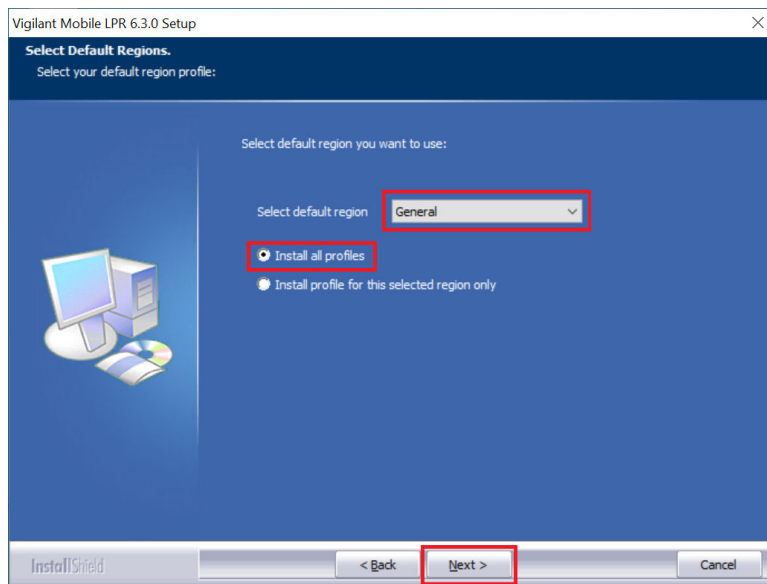
5 Tap I accept the terms of the license agreement→Next.



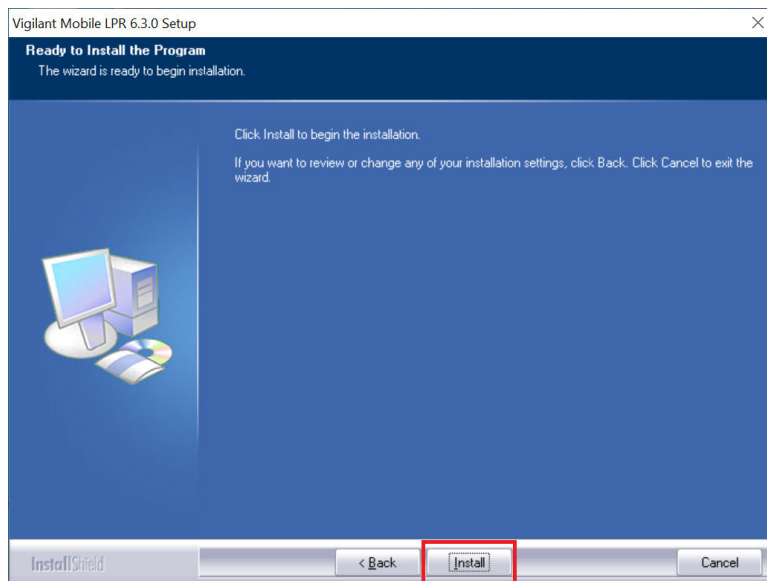
- 6 Type a company name into the **Company Name** field and tap **Next**.



- 7 In the **Select default region** drop-down menu, select the state that the tablet will be operating in.
- 8 Tap **Install all profiles**→**Next**.



9 Tap Next→Install.



10 Wait for the installation to complete, then tap Finish.



NOTE: A **Mobile LPR** shortcut icon will be placed on the Windows desktop.

11 Restart the tablet.

2.8

Installing the ReaperHD Camera Firmware

When and where to use: The Mobile LPR software will automatically update connected ReaperHD cameras with the firmware file that is present in the Tool folder of the software.

Procedure:

- 1 Download the ReaperHD Camera Firmware: <https://get.vaasfiles.com/RHDFW>

- 2 Open the Windows File Explorer and navigate to the Tool folder: C:\Program Files (x86)\Vigilant Solutions\Vigilant Mobile LPR\EngineProfiles\General\Tool
- 3 Copy the downloaded **ReaperHD.fff** into the Tool folder.
- 4 Tap **Replace the file in the destination** to overwrite the existing firmware file

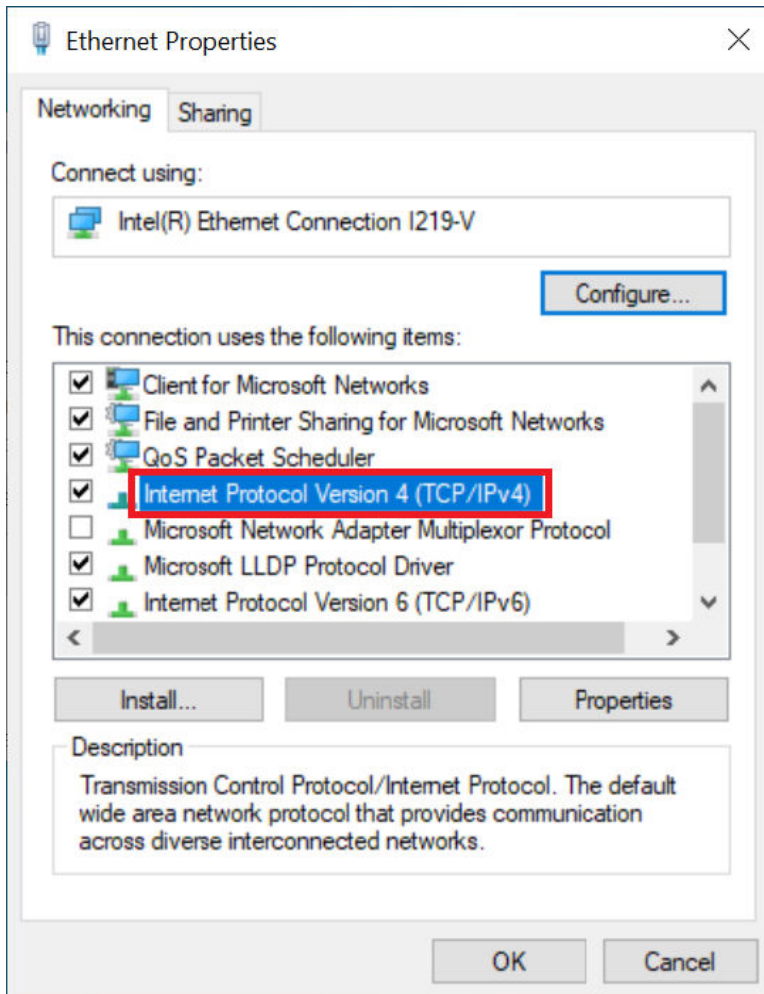
2.9

Configuring Ethernet Adapter IP Address

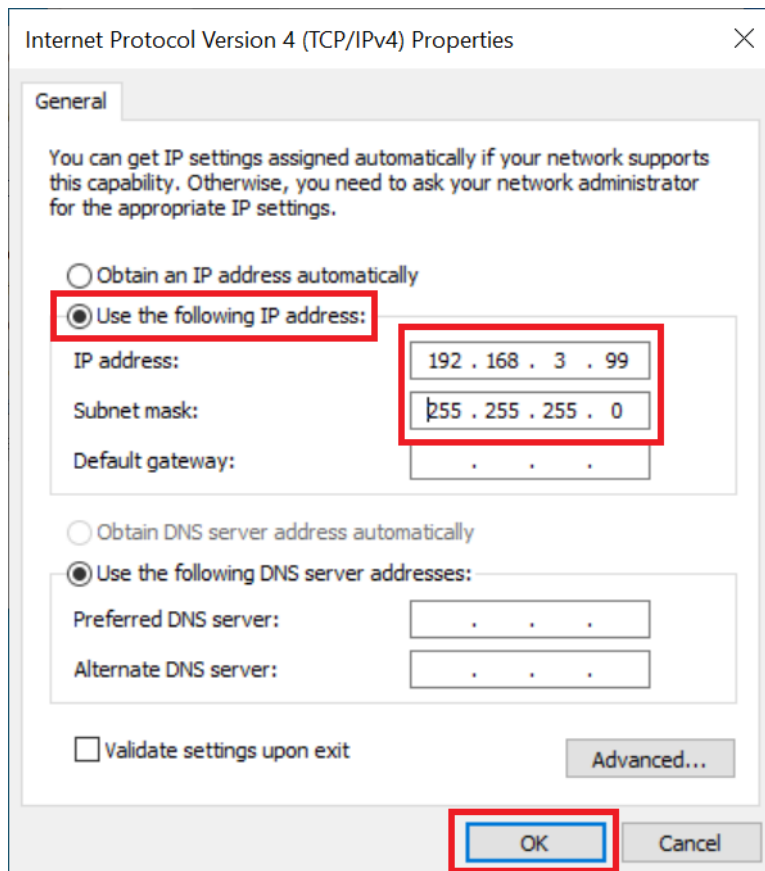
Prerequisites:The tablet must be on the same subnet as the ReaperHD cameras in order for them to communicate with the Mobile LPR on the tablet.

Procedure:

- 1 Tap **Windows Icon**→**Settings**→**Network and Internet**→**Change adapter options**.
- 2 Tap and hold on the **Ethernet adapter**.
- 3 Tap **Properties**.
- 4 Double-tap **Internet Protocol Version 4 (TCP/IPv4)**.



- 5 Enter 192.168.3.99 into the **IP Address field**.
- 6 Tap the **Subnet Mask** field to auto-populate the field.
- 7 Tap **OK** on both windows.



2.10

Licensing the CDMP IP Mobile LPR Software

Prerequisites:

The Mobile LPR software must be licensed before extended operation in the LPR Trailer. To obtain a license key, visit the License Key Request webpage and fill out the form. The license key will be sent to the Contact Email Address provided.

The request process requires review by a support representative and may take up to 24 hours to process.

If necessary, the CDM software can operate for a limited time without a license for testing.

The license key request form can be completed on the tablet in the Microsoft Edge browser or on another PC.

Procedure:

- 1 Double-tap on the **Vigilant Mobile LPR** desktop icon.



NOTE:

If this is the first time the software has been run, the **Upgrade License** window appears.

If the software has already been run but not licensed, the **Upgrade License** window can be viewed again by tapping on the **About Car Detector**→**Upgrade License**.

- 2 Open the **License Key Request** page at <https://www.vigilantsolutions.com/support/license-key-request/> and fill out the form.
- 3 Copy the **Current Version**, **Sitecode**, and **MachineID** from the **Upgrade License** window into their respective fields in the request form.

Figure 13: Upgrade License

Upgrade license

Current Version CDM DSP 6.3.172.21.202008041100.R

Sitecode CAD54F6A

MachineID 7B11-B256-6582-4713

New license code

Upgrade Close

- 4 Once the license key has been received, copy it into the **New license code** field and tap **Upgrade**.



NOTE: The license key is 80 characters long. It is easier to copy the key into a text file and transfer the key to the tablet with a USB thumb drive instead of manually typing it in from the support email.

2.11

Mobile LPR Software Configuration

Mobile LPR software requires a LEARN connection file, GPS configuration, and LPR profile selection before operation in the LPR Trailer.



NOTE: Contact a LEARN Agency Manager to obtain a LEARN account and connection file.

2.11.1

Selecting LEARN Connection File and Login

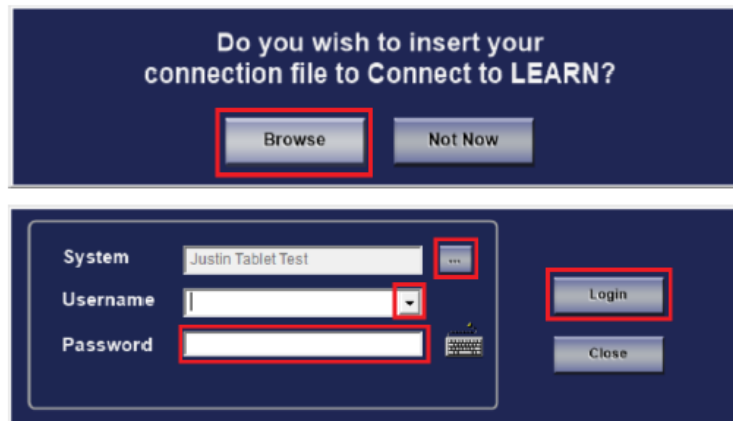
Procedure:

- 1 Double-tap on the **Vigilant Mobile LPR** desktop icon.
- 2 Tap **Browse**.
- 3 Browse to the **LEARN connection .ini** file and double-tap the file to select it.
- 4 Tap the drop-down menu arrow next to the **Username** field to select a LEARN username.
- 5 Tap the **Password** field and enter the password associated with the selected LEARN Username.
- 6 Tap **Login**.



NOTE: If a connection file has already been added, a new one can be selected by tapping the three dot button next to the System field during login.

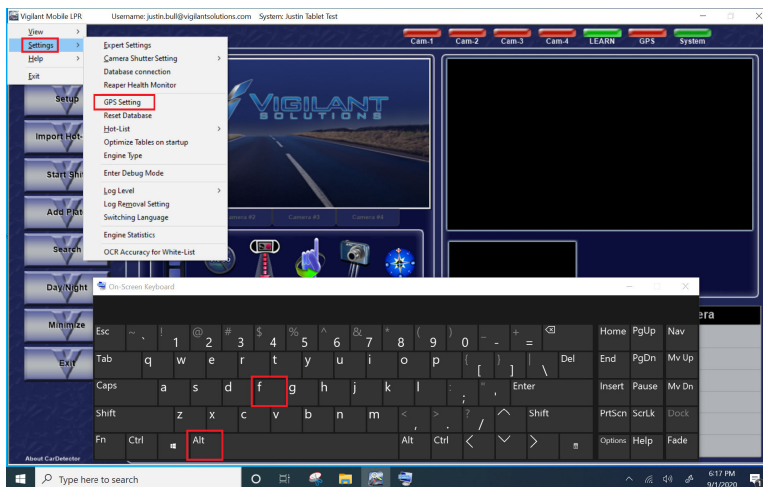
Figure 14: Connect to LEARN



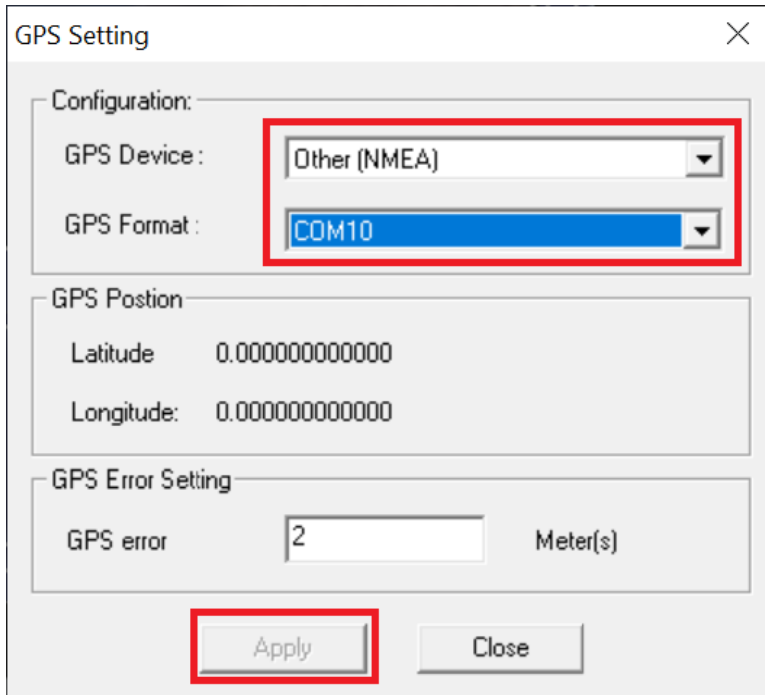
2.11.2 Setting the GPS Device

Procedure:

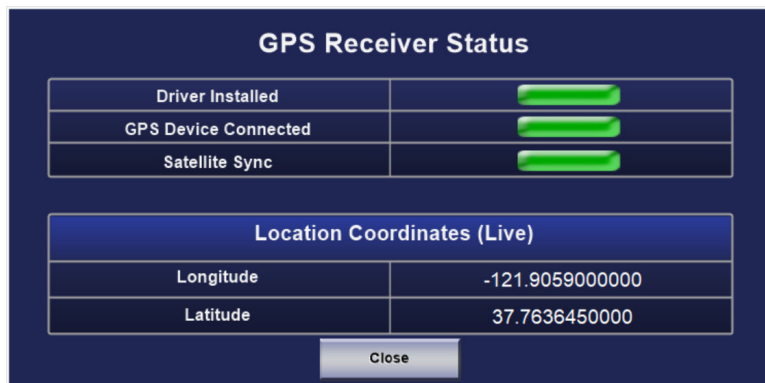
- 1 In the Windows search bar, type `keyboard` and tap the **On-Screen Keyboard** app.
- 2 Tap the **Vigilant Mobile LPR** window, then tap **Alt+F** on the onscreen keyboard to open a context menu in CDM.
- 3 Tap **Settings**→**GPS Settings**.



- 4 In the GPS Device drop down menu, select **Other (NMEA)**.
- 5 In the GPS Format drop down menu select the COM port created in [Installing the u-blox M8 GNSS/GPS Module Drivers on page 18](#).
- 6 Tap **Apply**.



- 7 Close the on-screen keyboard.
- 8 Check that the GPS status light in the main Mobile LPR window is green.



- 9 Tap on the light to open the GPS Receiver Status window.



- 10 If all lights are not green after a few moments, additional troubleshooting may be required.

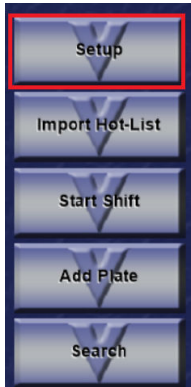
NOTE: For troubleshooting information, see [GPS Troubleshooting on page 35](#).

2.11.3

Setting an OCR Profile and Verifying the LEARN Connection

Procedure:

- 1 On the **Vigilant Mobile LPR** window, tap **Setup**.



- 2 Tap the **OCR** tab.
- 3 Select the state in which the tablet will be operating.
- 4 Tap **Apply**.

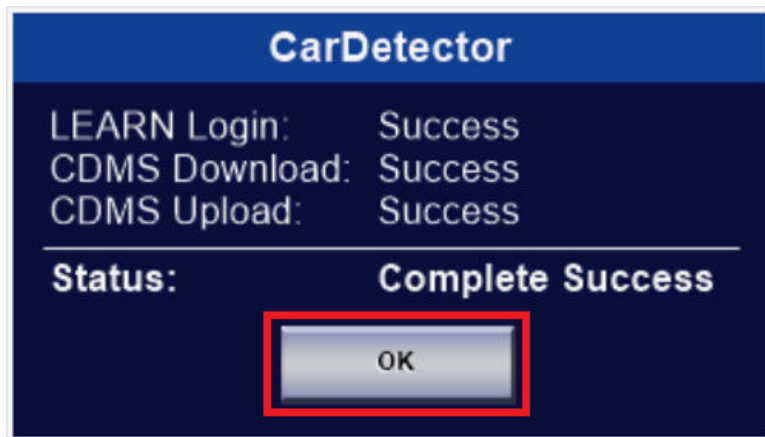


- 5 Tap the **LEARN** tab.
- 6 Tap **Test Connection**.



If the LEARN connection is correctly configured and the tablet is connected to the Internet, the Status will be reported as Complete Success.

7 Tap **OK**.



Chapter 3

GPS Troubleshooting

Windows 10 versions 1903 and later will unconditionally treat the u-blox GNSS module driver as a Universal GNSS module driver and render the GPS in Mobile LPR unable to function.

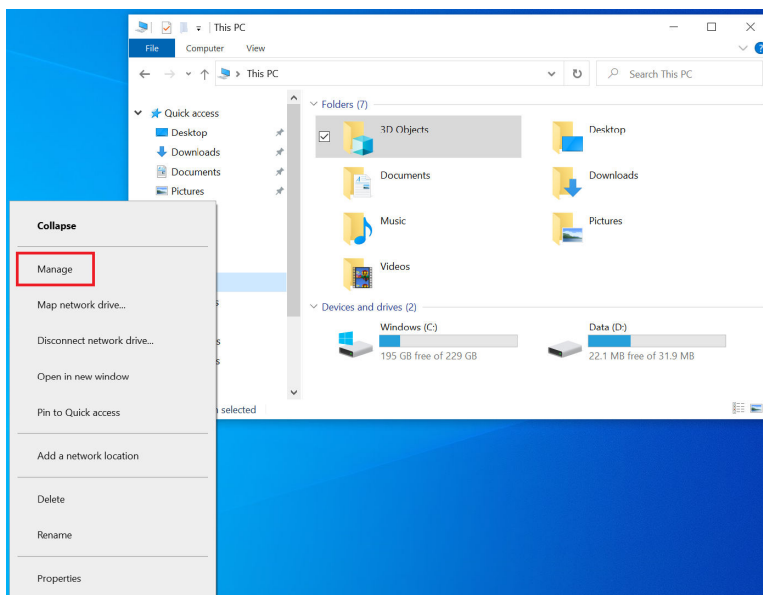
This is due to the new way that Microsoft configures Windows to handle GNSS devices. There is no feasible solution for disabling Windows 10 updates indefinitely to prevent these changes. However, the u-blox GNSS device manufacturer provides a work-around for this issue. The GPS status light in Mobile LPR will not turn green after normal setup if it is not configured correctly.

3.1

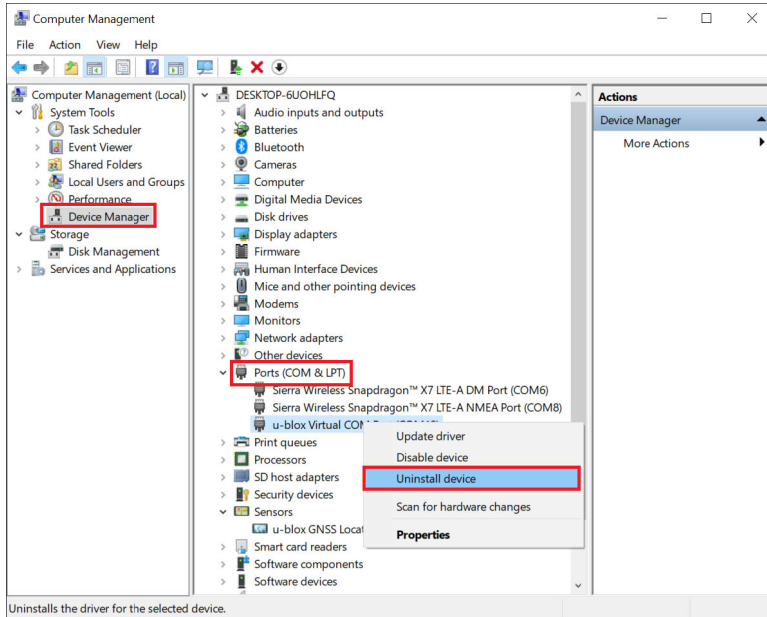
Troubleshooting GPS Configuration

Procedure:

- 1 Open the Windows File Explorer.
- 2 Navigate to **This PC**→**Manage**→**Device Manager**.

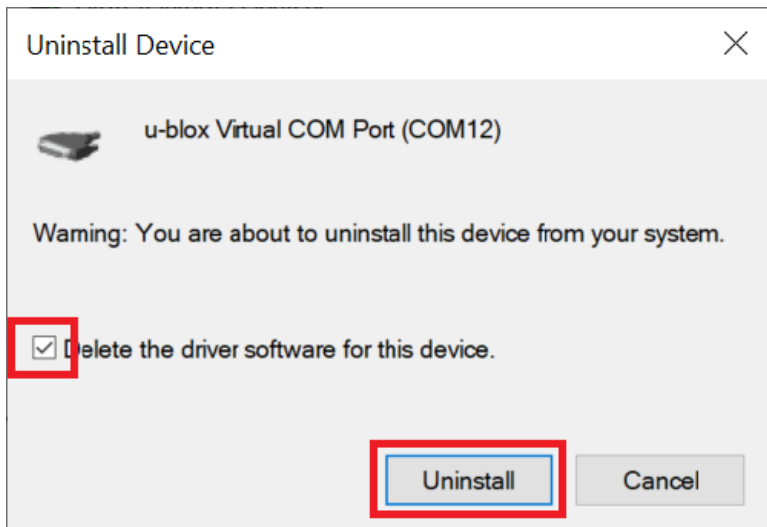


- 3 Double-tap **Ports**, then tap and hold on **u-blox Virtual COM Port**.
- 4 Tap **Uninstall device**.

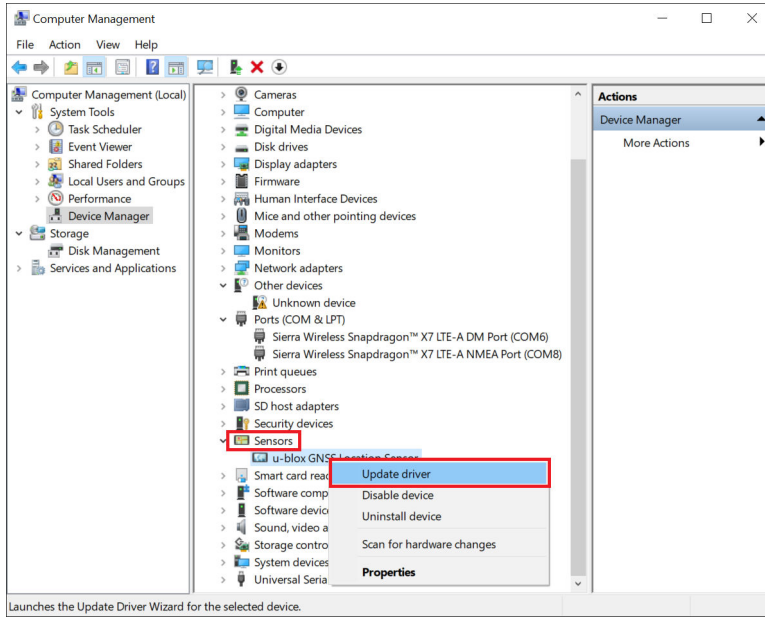


5 Check **Delete the driver software for this device** check box.

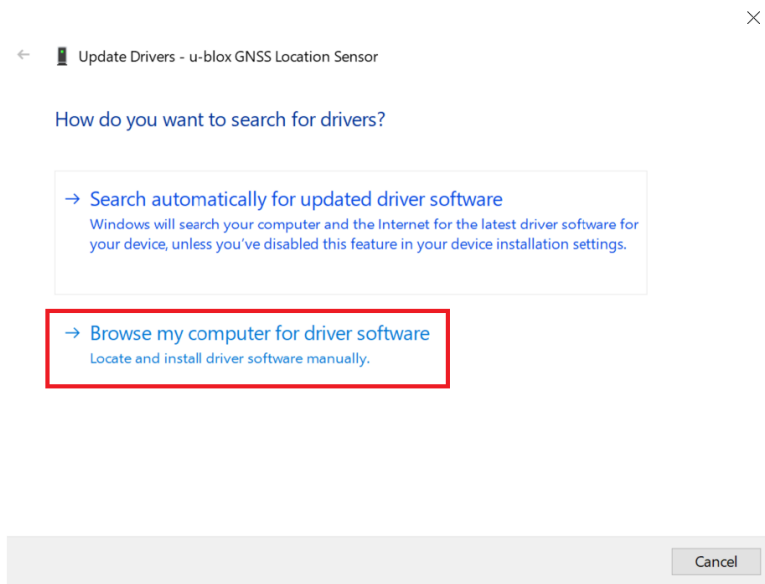
6 Tap **Uninstall**.



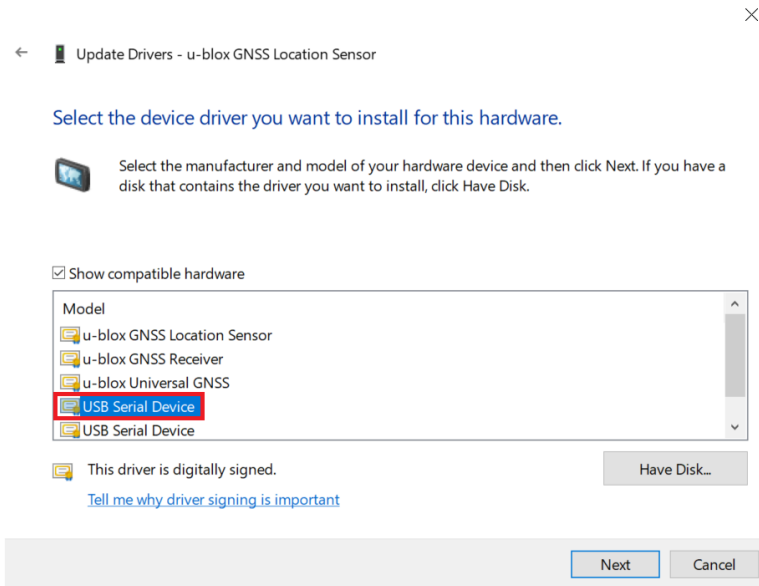
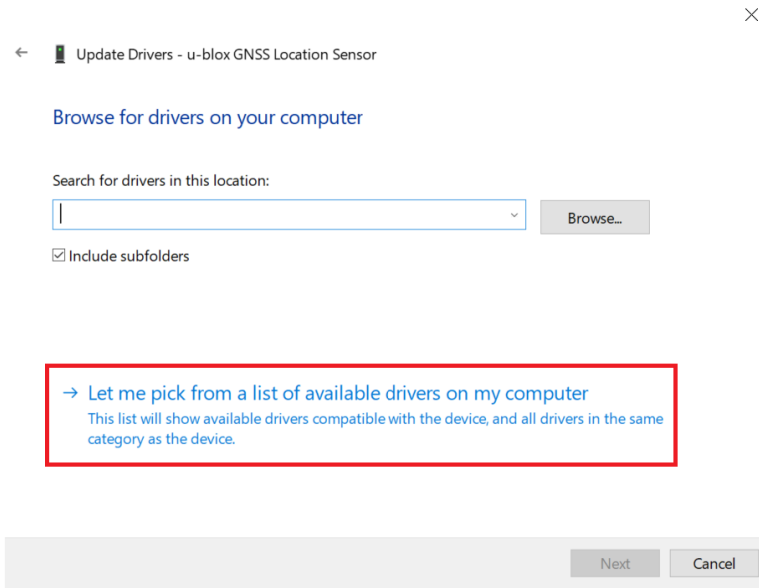
7 Select **Sensors**→**u-blox GNSS Location Sensor**→**Update driver**.



8 Select Browse my computer for driver software.



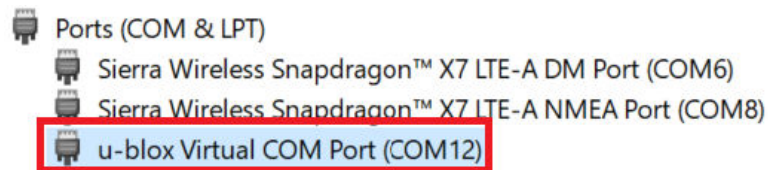
9 Select Let me pick from a list of available drivers on my computer→USB Serial Device.



10 Reinstall the three u-blox M8 GNSS/GPS module drivers in the following order:

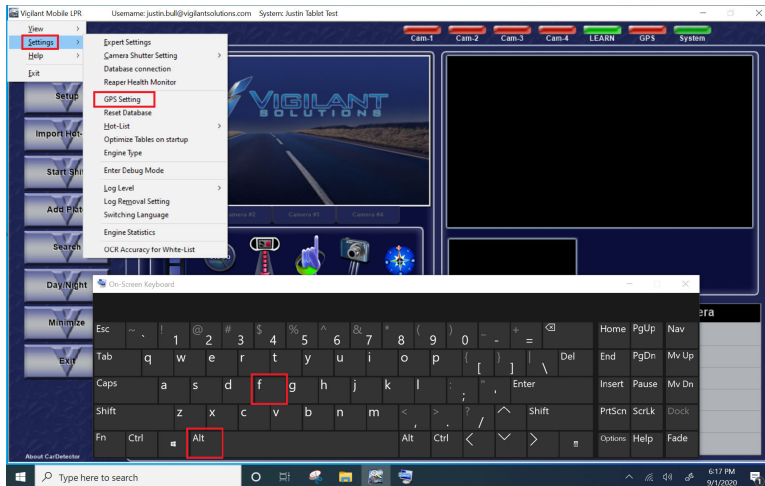
- 1** ubloxGnss_sensorDeviceDriver_windows_3264_v2.40.exe
- 2** ubloxGnss_vcpDeviceDriver_windows_3264_v3.10.exe
- 3** ubloxGnss_usbcdc_windows_3264_v1.2.0.8.exe

11 Note the new u-blox Virtual COM Port. In this case, (COM12).



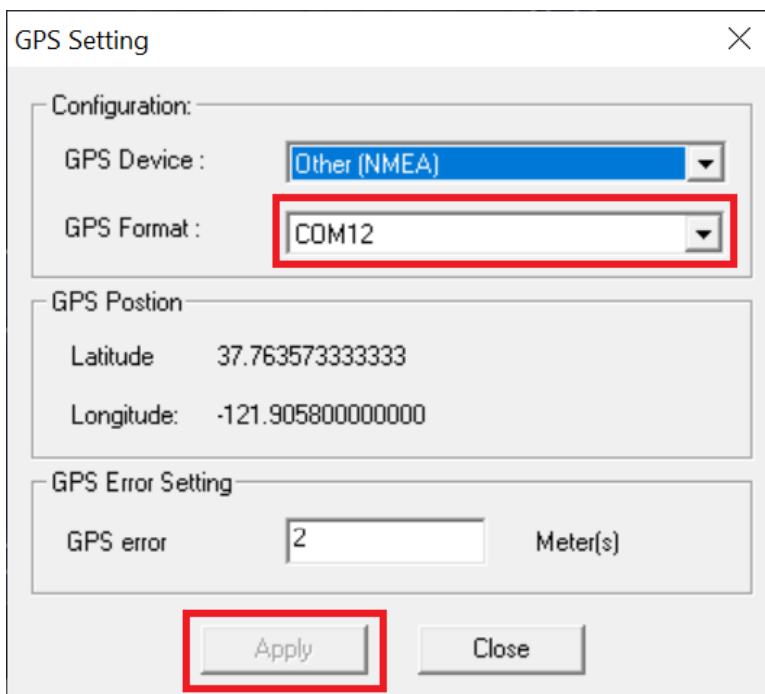
12 Restart Windows and log back in.

13 Launch the Mobile LPR software and open the GPS Settings menu.



14 In the GPS Setting window, select the new COM port in the **GPS Format** drop down menu.

15 Tap **Apply**.



The GPS status light in Mobile LPR lights up green.