CAE Maestro MultiSim Getting Started Guide

MultiSim allows you to control multiple, synchronized CAE Juno simulators from a single instructor device.

Notes:

- Checklists and the intercom features cannot be used when running MultiSim.
- The CPR graph will not appear on the facilitator Run screen while using MultiSim. The CPR graph will appear only in TouchPro.

Setting Up MultiSim

To use the MultiSim feature, the following software and hardware is required:

- CAE Maestro v1.8 software

  Note: If you have an earlier version of Maestro, you must update it to version 1.8. To update Maestro, go to https://caehealthcare.com/support/software-updates/ and follow the on-screen instructions. The *Installing Maestro Updates* guide is also available on the website.

- Samsung Galaxy S3 or Surface Go tablet
- Two to 10 Juno simulators
- Linksys WRT3200ACM central router (purchased from and preconfigured by CAE)

Setup Steps	
1	Configure simulators
2	Configure tablets
3	Connect simulators in MultiSim

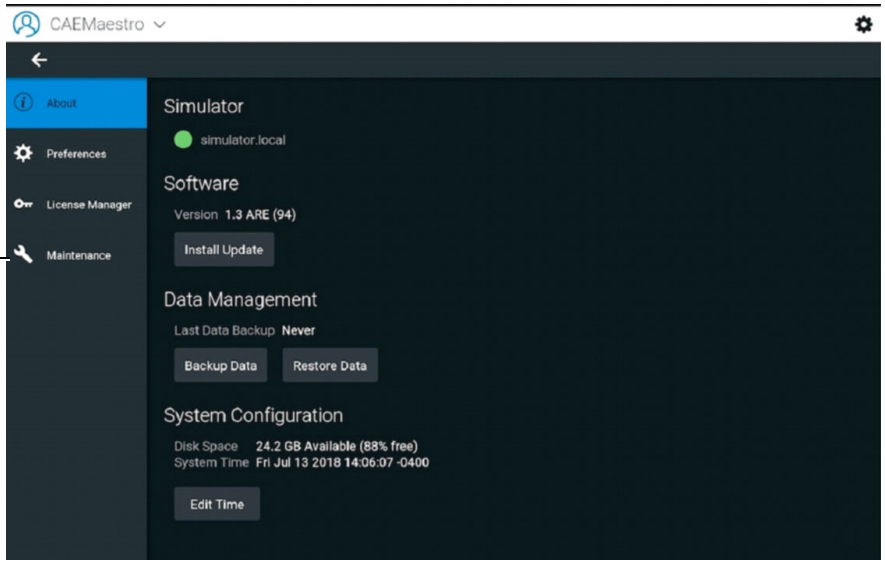
Step 1: Configure Simulators

Each simulator and its associated tablet must be configured to communicate with the central router.

To configure each simulator:

a. Power on the router and ensure the antennae is attached.
b. On the tablet, tap the **Maestro** icon.
c. On the Application Home screen, tap **CAEMaestro**.
d. On the CAE Maestro Home screen, tap the **Gear** icon in the upper-right corner, then select **System**.

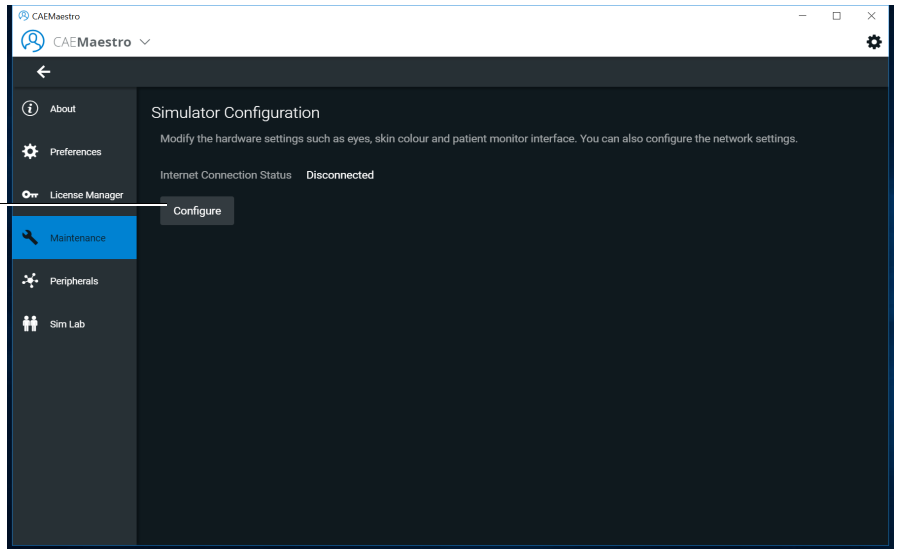
The Simulator screen appears.



Maintenance tab

Simulator Screen

e. Tap the **Maintenance** tab to display the Simulator Configuration screen and tap the **Configure** button.



Configure button

Simulator Configuration Screen

The Internet Connection (WAN) screen appears.

f. Select or change the following settings in order. As you select settings, additional settings appear.

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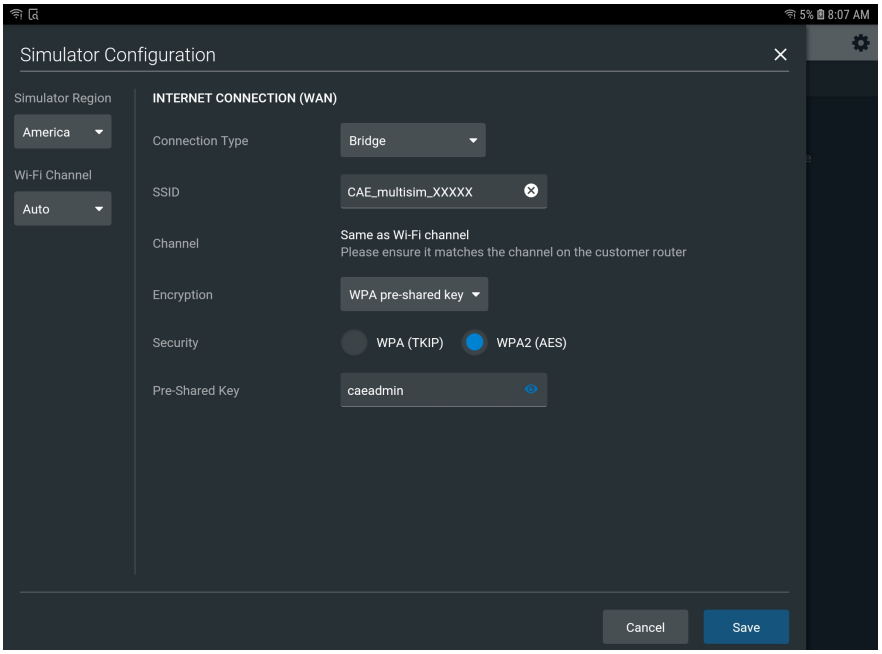
IMPORTANT: Select or type the following information exactly as it is shown.

- Connection Type: Select **Bridge**.
- SSID: **CAE_multisim_XXXXX** (the specific SSID - e.g. CAE_multisim_04663, is located on the bottom of the router).
- Encryption: **WPA pre-shared key**.
- Security: **WPA2 (AES)**.
- Pre-Shared Key: **caeadmin**.

The following images shows completed information for a CAE router connection.



905K600652 v1.0905K600652 v1.0 Internet Connection Settings Completed

IMPORTANT: In the left panel, ensure the WiFi Channel is set to Auto. Tap on the **Eye** icon to confirm the password is entered correctly.

g. Tap **Save**.

IMPORTANT: If you inadvertently selected or entered incorrect settings, the simulator will not be able to connect to the router. This will disable your simulators. In that event, see *"Re-establish a Network Connection" on page 29*.

The Restart Required dialog box appears.

h. Tap **Restart** and continue the configuration process in *Step 2: Configure a Tablet*.

Step 2: Configure a Tablet

Follow the instructions to connect the tablet provided with your simulator to the MultiSim router and configure the application to the associated simulator.

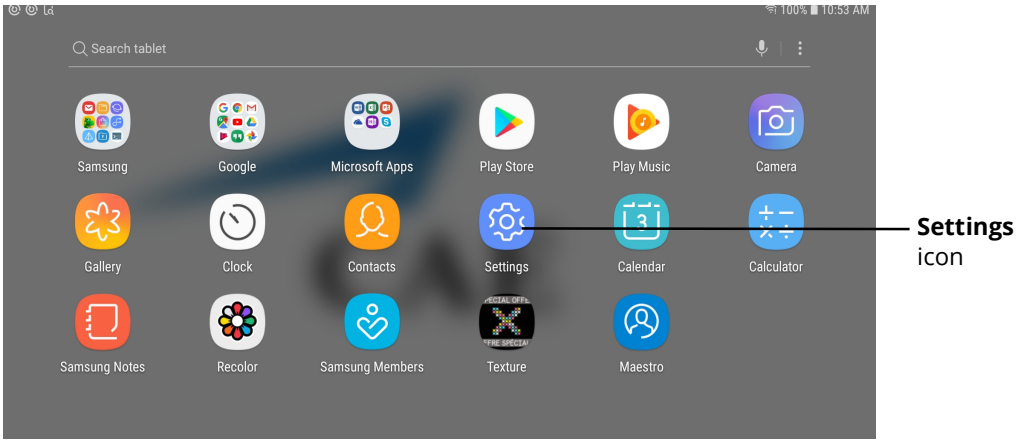
Samsung Tablet

To configure a Samsung Tablet:

a. On the tablet, press the **Home** button.
   The Samsung Home screen appears.

Samsung Tablet Home Screen

b. On the screen, swipe the screen up to display the Search tablet screen.



Search Tablet Screen

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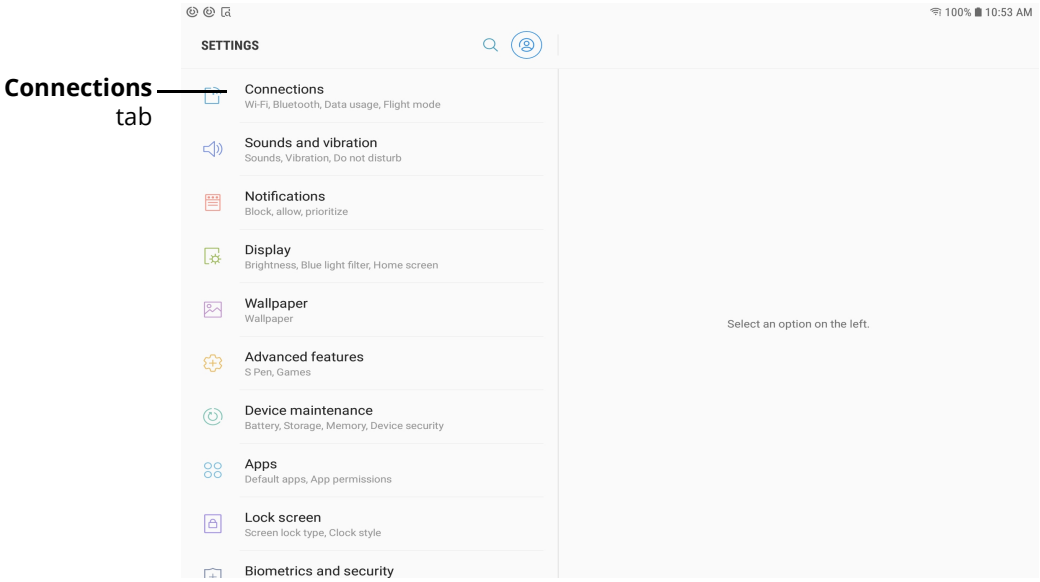
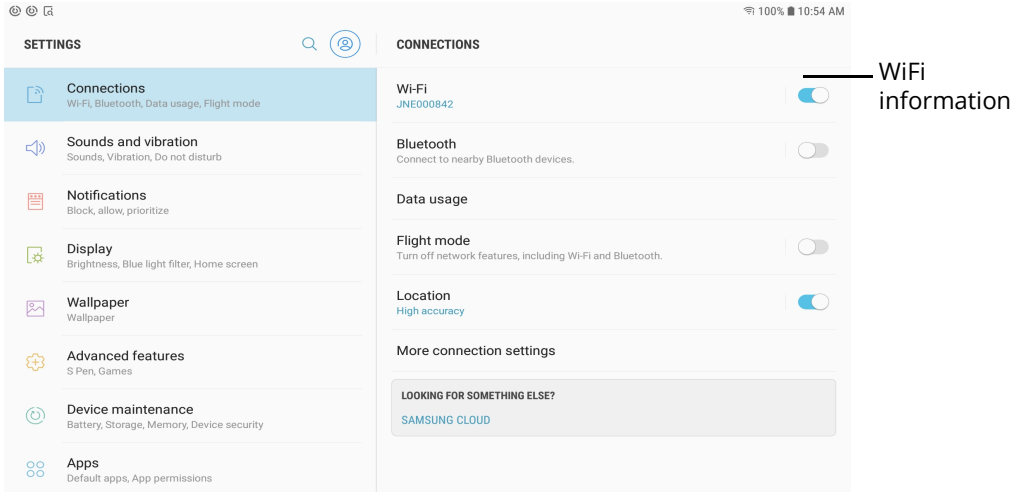
c. Tap the **Settings** icon.

The Settings screen appears.



Settings Screen

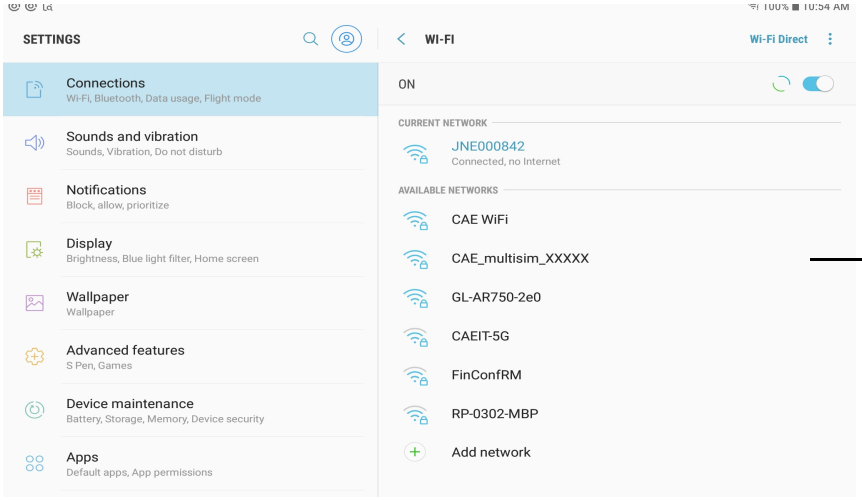
d. Tap **Connections** tab to view connections settings.



Settings - Connections Screen

e. Tap WiFi to view available networks.

The list of available networks appears.

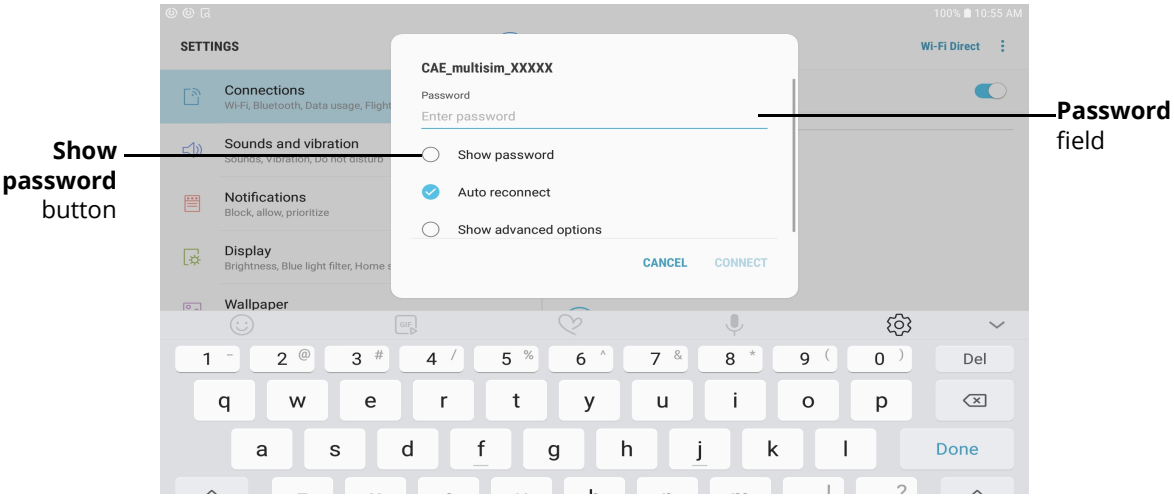


Settings - WiFi Screen

f. Tap **CAE_multisim_XXXXX.**

Note: The XXXXX in the CAE MultiSim network name is a placeholder for the digits found on the bottom of the router.

The password prompt window appears.



Password Prompt

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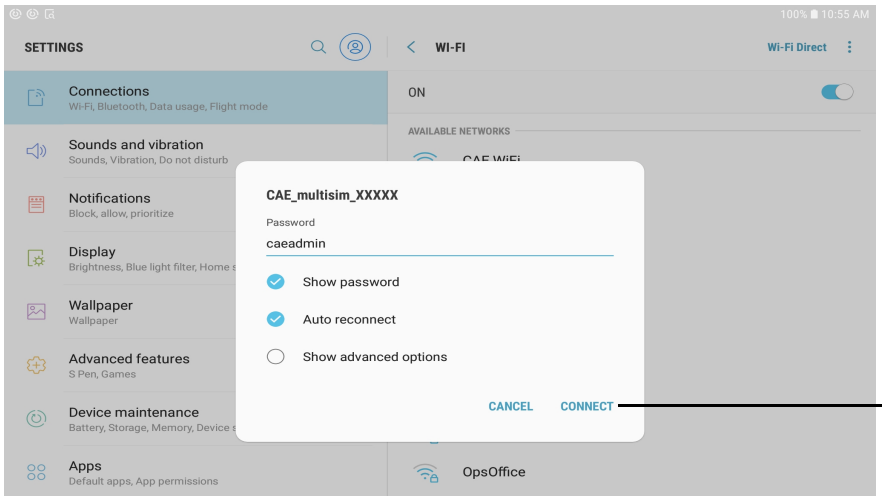
g. Tap **Show Password** the radio button and enter the password *caeadmin*.

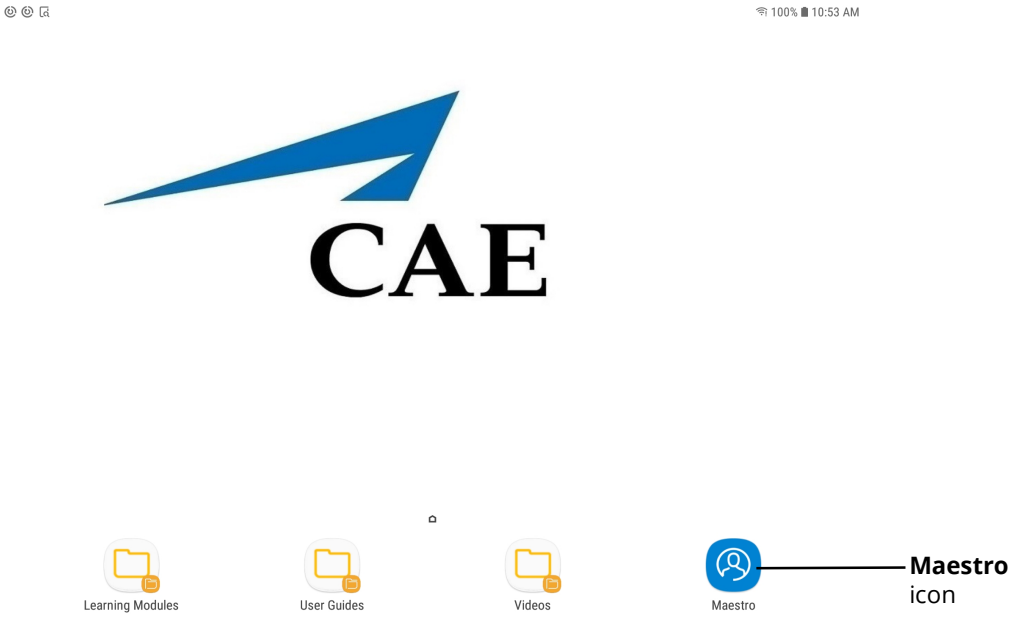


Password Prompt

h. Tap **Connect**.

i. Press the **Home** button on the tablet.

The Samsung Home screen appears.



Samsung Tablet Home Screen

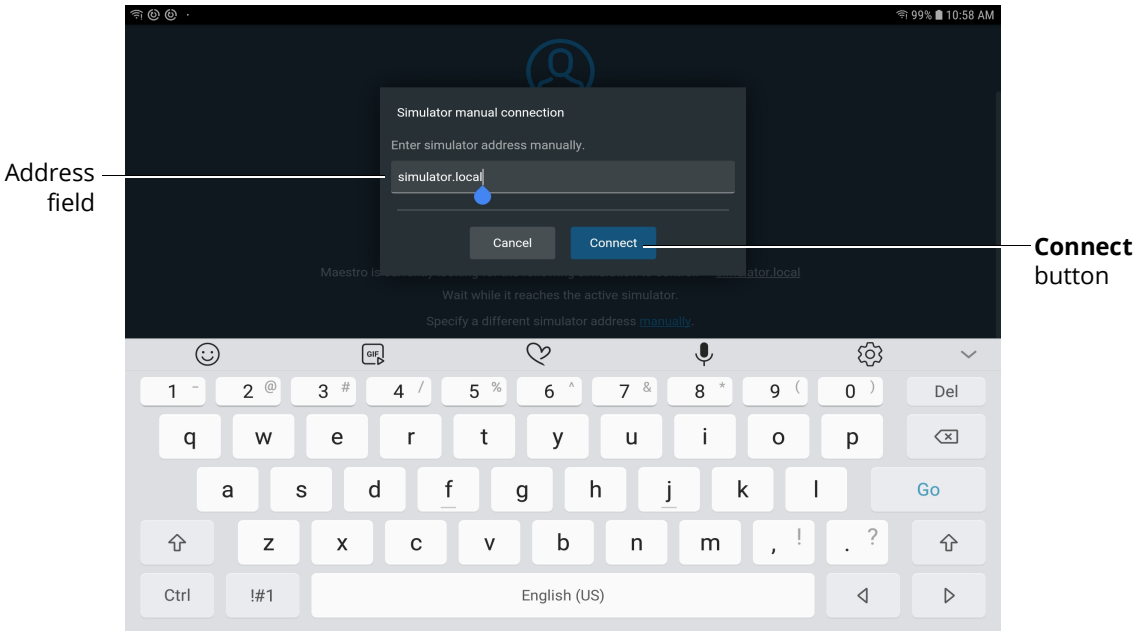
j. From the Home screen, tap the **Maestro** icon.

The CAE Maestro app launches.

k. While the connection is being made, tap the **manually** link at the bottom of the screen.

Note: If a message appears that the connection to Maestro failed, tap **Modify address.**

The Simulator Manual Connection prompt opens.



Simulation Manual Connection Prompt

l. In the Address field, replace “simulator.local” with the simulator serial number associated with the tablet. Tap **Connect**.

Note: The CAE serial number is located on the back of the tablet. (Example: JNE000527)

The Maestro Home page appears.

m. Continue the connection for the Maestro software in *Step 3: Connect Simulators to MultiSim*.

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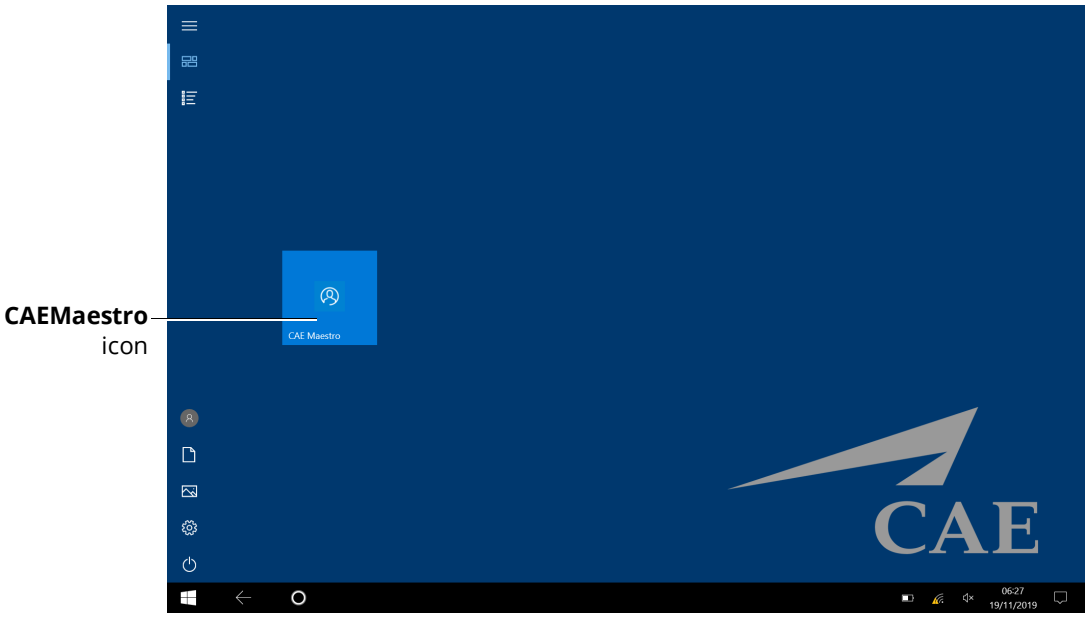
Surface Go Tablet

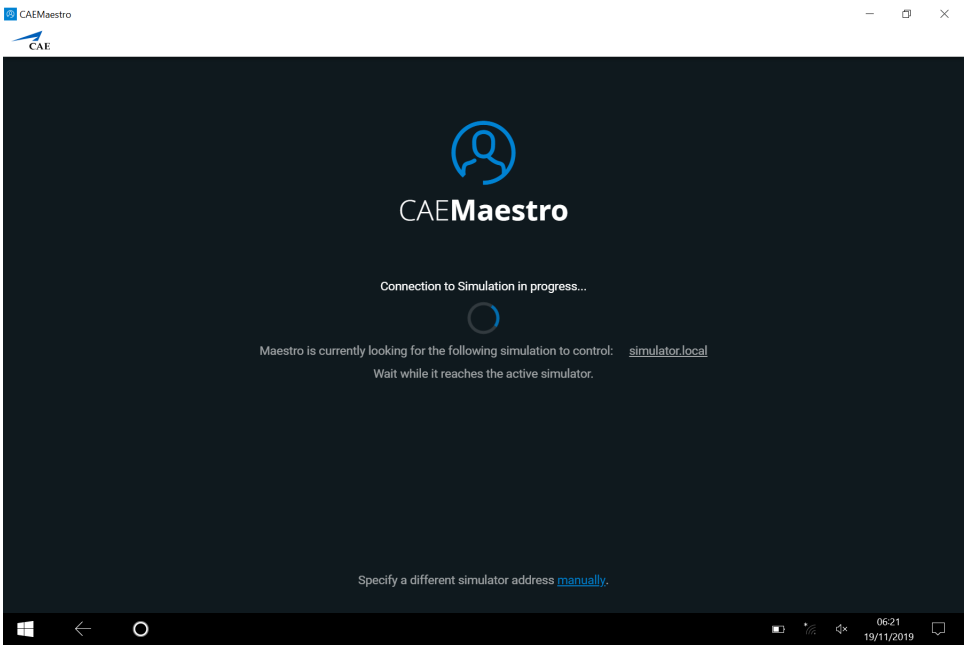
To configure a Surface Go tablet:

a. From the Surface Go Home screen, tap the **CAEMaestro** icon to the launch the app.



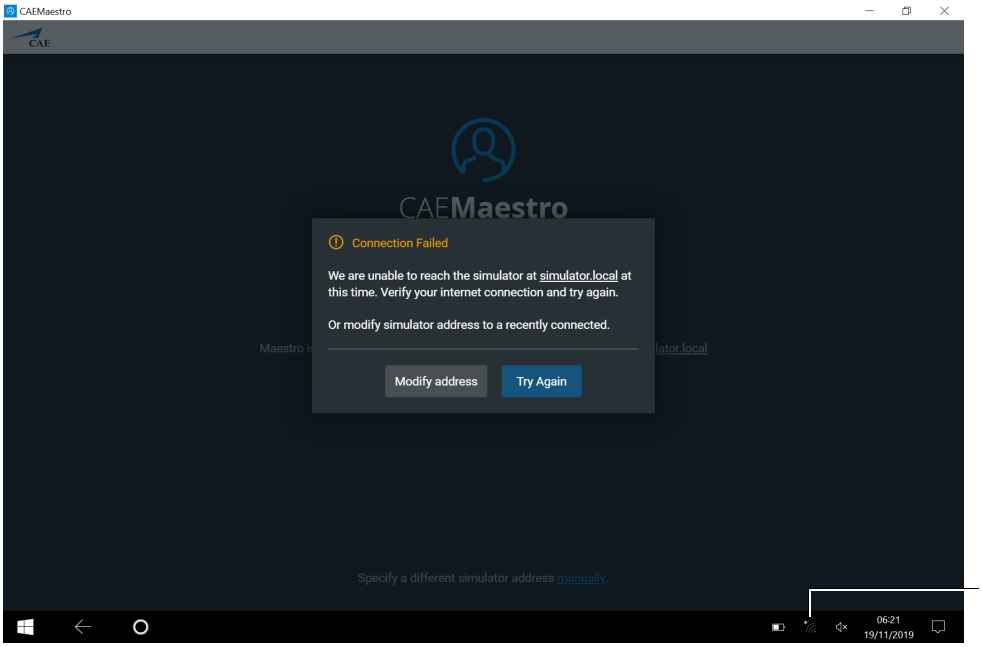
Surface Go Tablet Home Screen

The CAE Maestro Connecting screen appears.



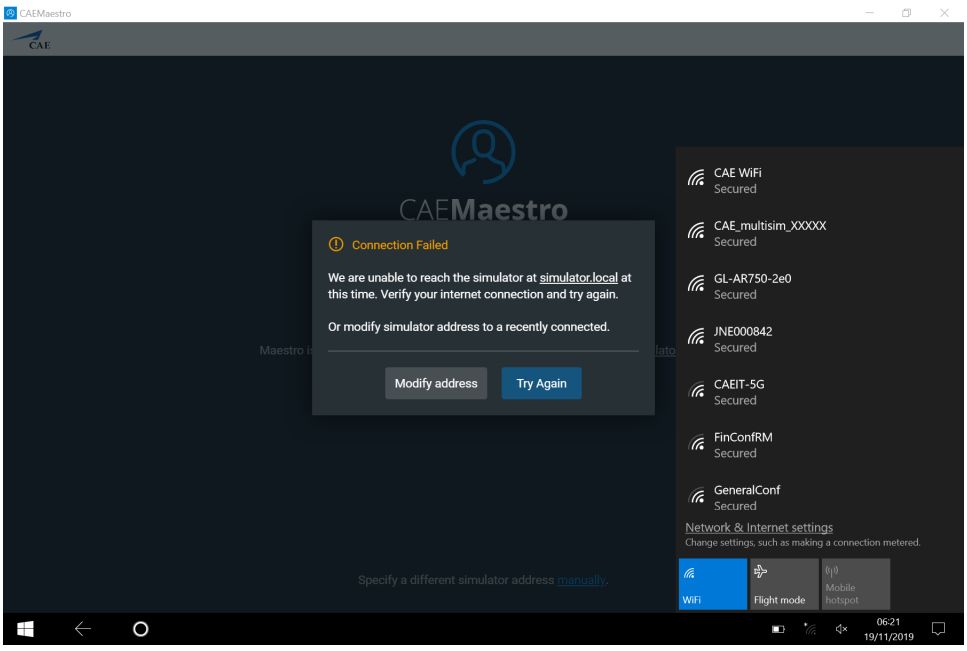
CAE Maestro Connection Screen

The Connection Failed prompt will appear after 30 seconds of attempting to connect.



Connection Failed Prompt

b. Tap the **Network** icon in the Windows taskbar to expand the available networks list.



Connection Failed Screen

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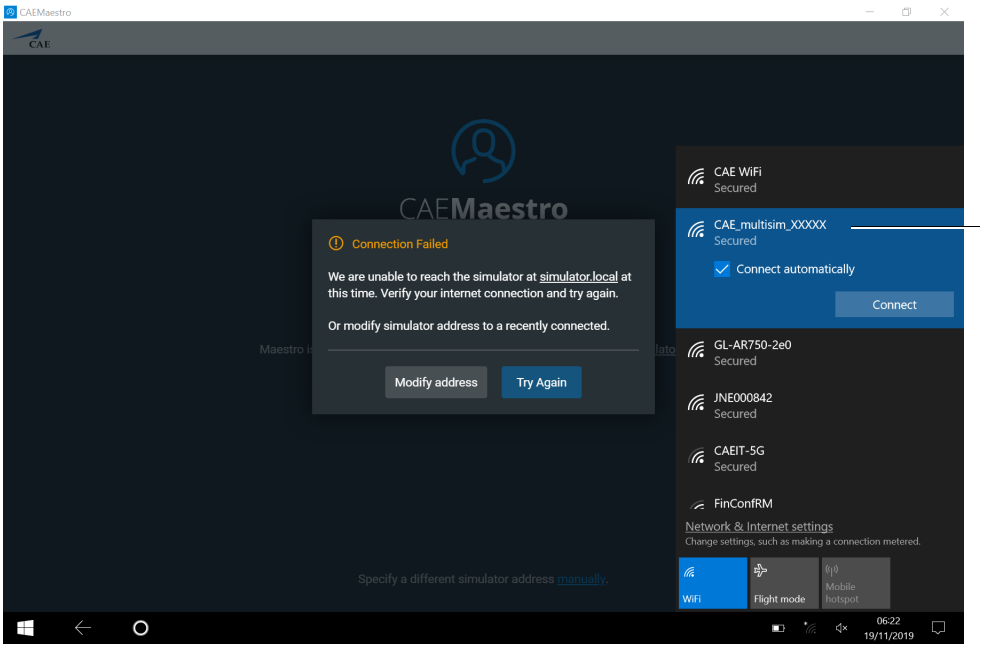
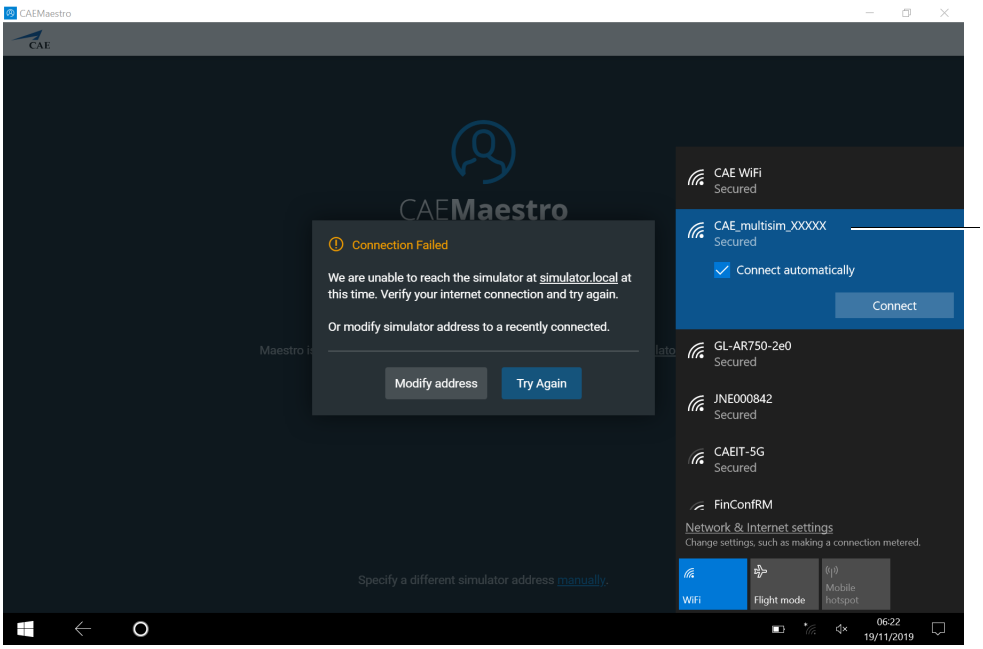
c. Tap CAE_multisim_XXXXX.



WiFi Connection - MultiSim Network

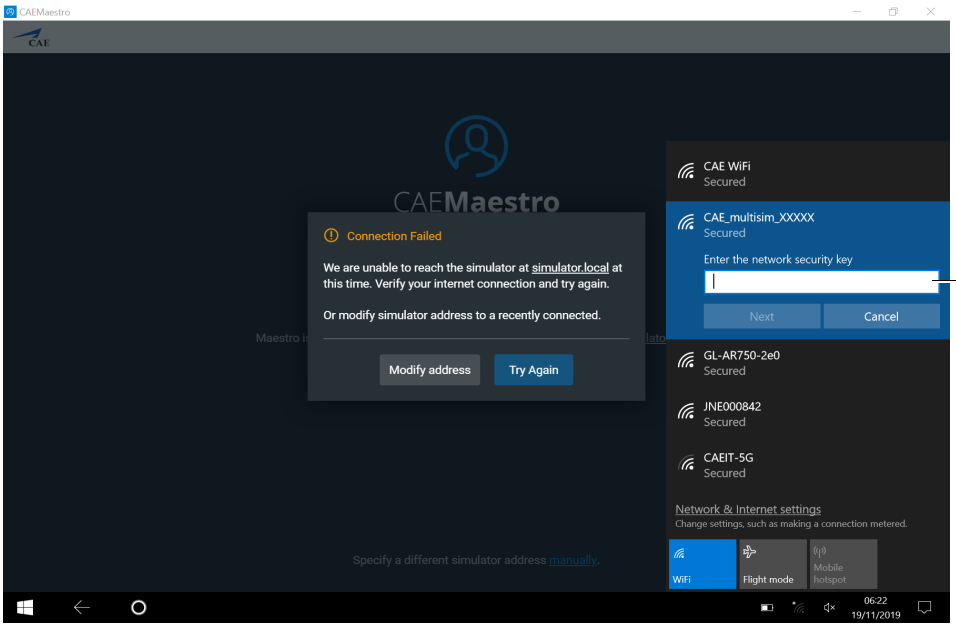
d. In the CAE_multisim_XXXXX network option, tap the **Connect Automatically** checkbox and then tap the **Connect** button.

The network security key prompt appears.



WiFi Connection - MultiSim Network

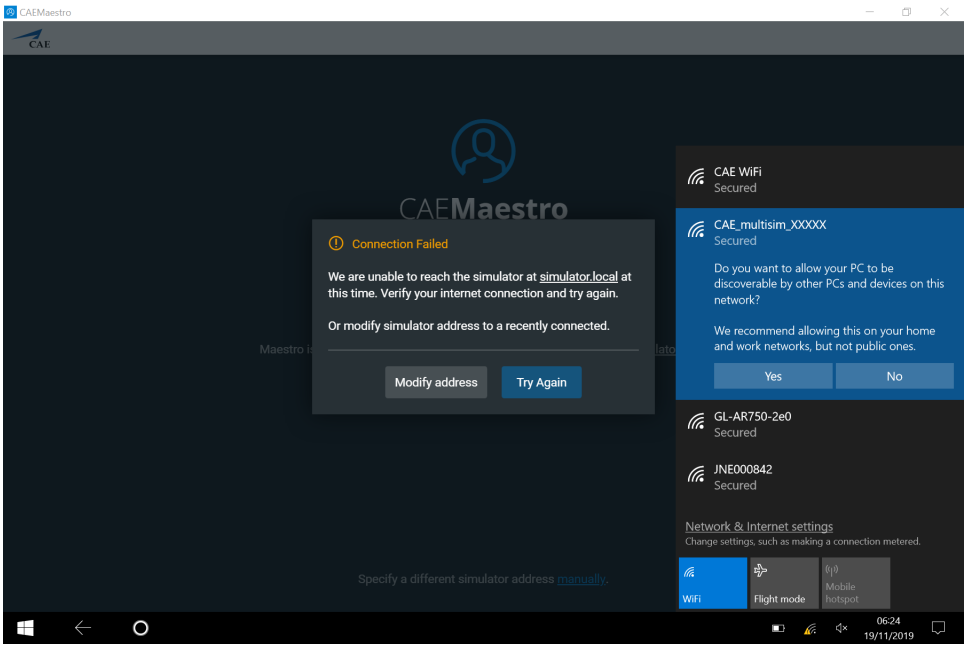
e. Enter *caeadmin* into the security network key field using the on-screen keyboard.



WiFi Connection - Network Security Key Prompt

f. Tap **Next**.

g. When the discoverable PC prompt appears, tap **Yes**.



WiFi Connection - Discoverable PC

After WiFi connection is complete, the Connection Failed Prompt appears.

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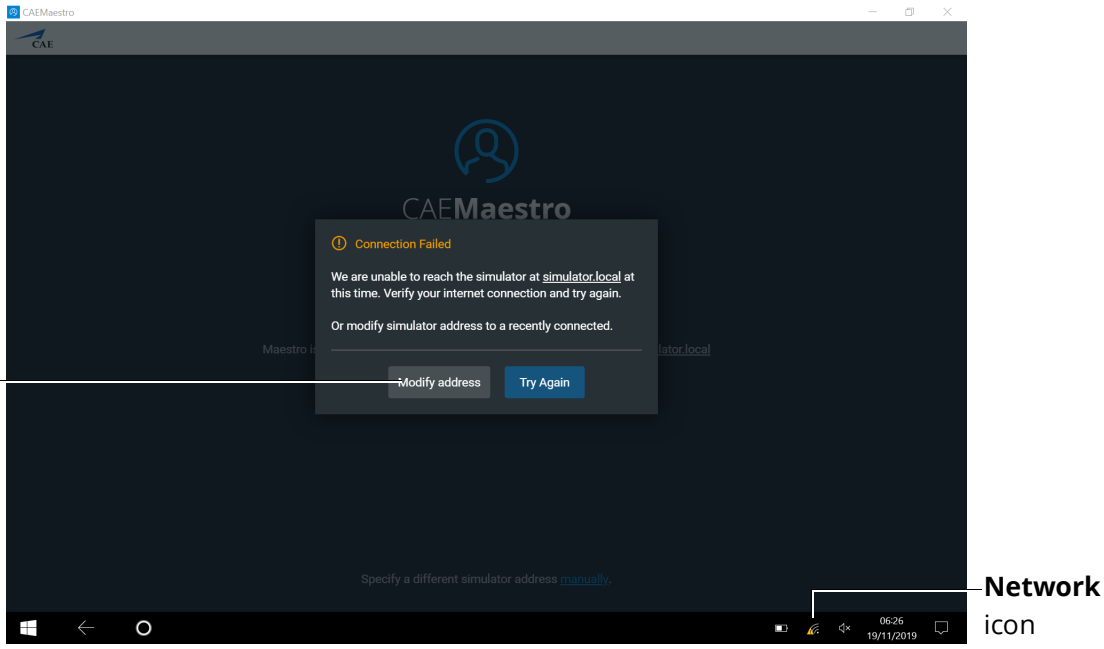
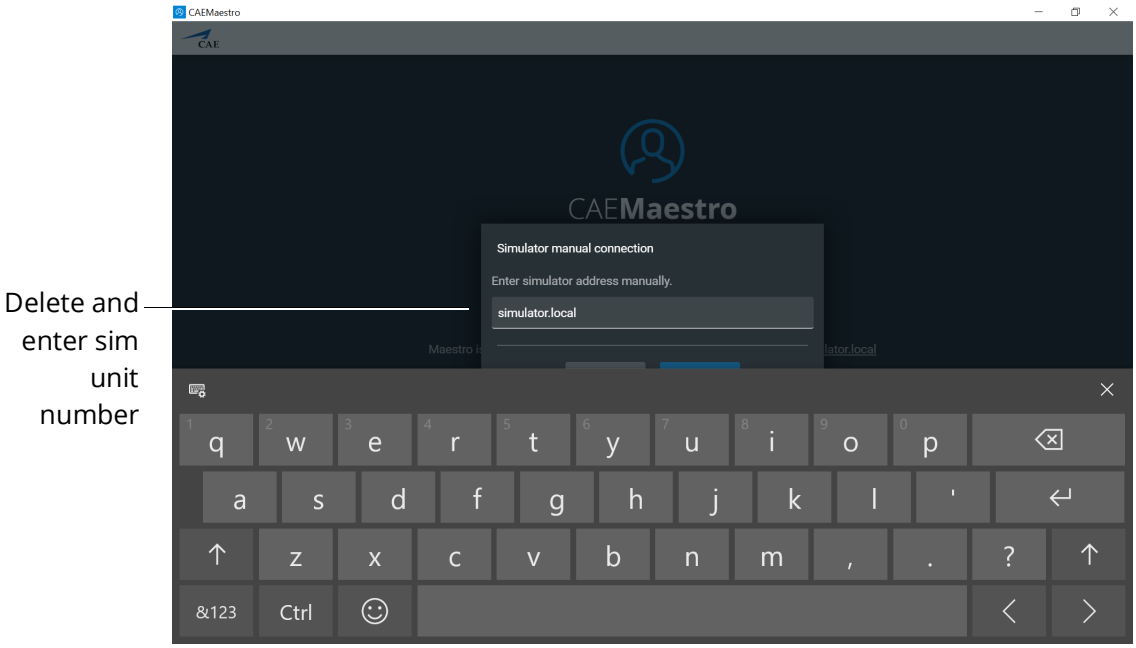
h. Tap the **Modify address** button.



Connection Failed Prompt

The Simulator manual connection prompt appears.

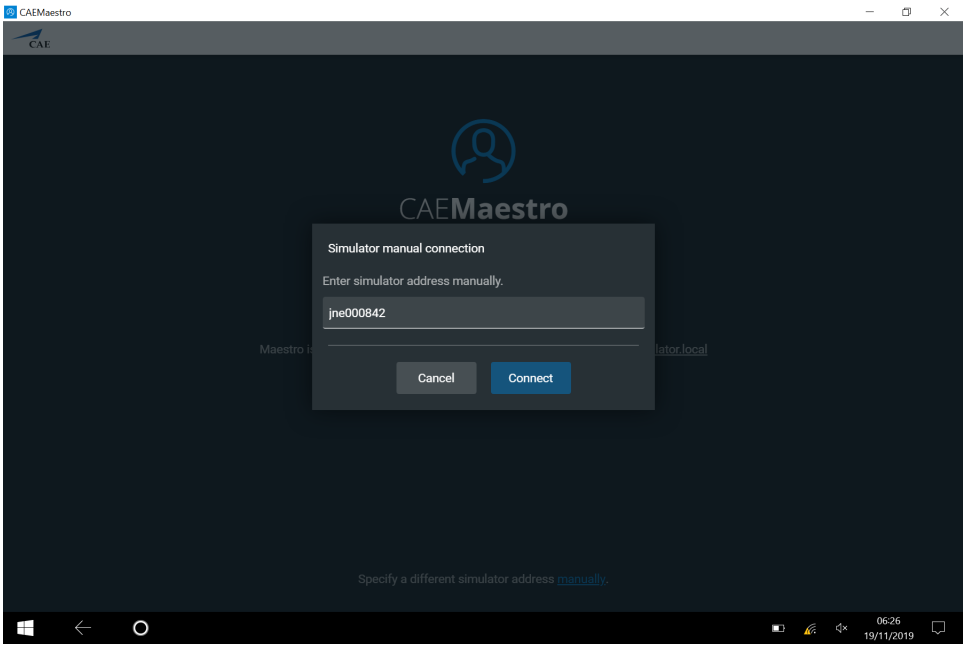
i. Using the on-screen keyboard, delete *simulator.local* from the text field and enter the serial number found on the back of the tablet (ex. *JNE000842*).



Connection Failed Prompt

j. Tap the X in the upper-right corner of the keyboard to exit the keyboard.

k. Tap **Connect**.



Simulator Manual Connection Screen

The Maestro Home screen appears.

Step 3: Connect Simulators in MultiSim

Once simulators are configured, connect them in the Sim Lab. This lets you select simulators to run simultaneously.

To add simulators in the Sim Lab:

a. From the Maestro Home screen, tap the **Gear** icon and from the drop-down menu, tap **System**.

b. Tap **Sim Lab** tab.

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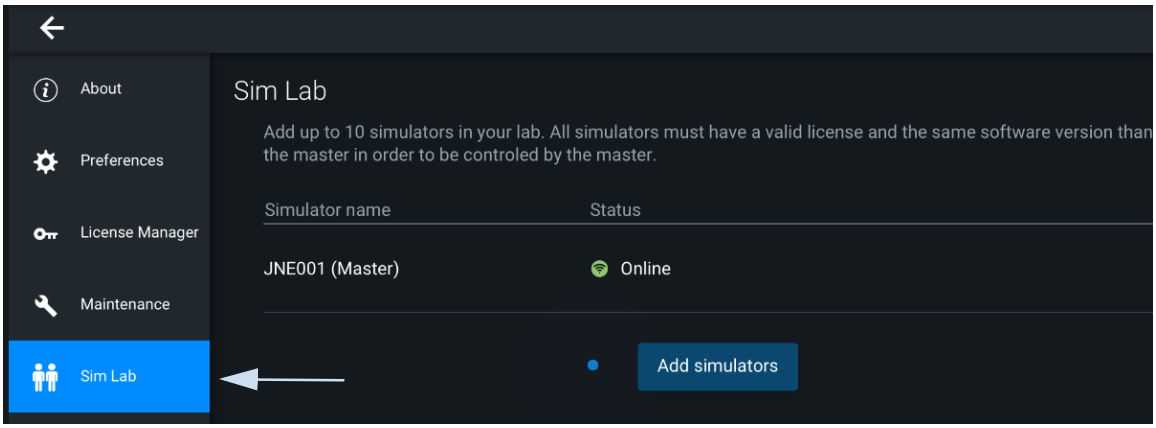
c. On the Sim Lab screen, tap **Add simulators**.



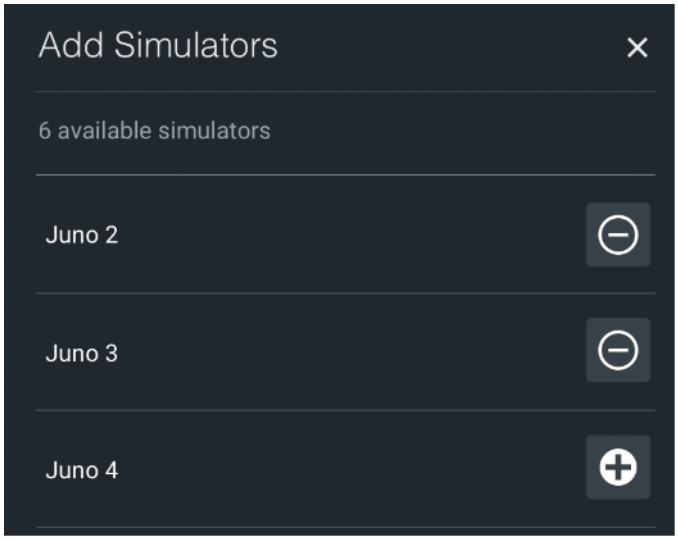
Sim Lab Screen

A list of configured simulators appears.

d. Tap the plus sign (**+**) next to each simulator you want to add.

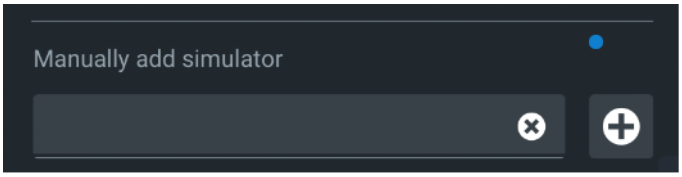
Once added, the plus sign becomes a minus sign (**-**). Tap the minus sign to remove the simulator from the lab.

T



Add Simulators Screen

e. (Optional) You can add a simulator not included in the list if you know the IP address of the simulator. In the **Manually add simulator** field at the bottom of the screen, type the IP address, and then tap the plus sign.



Manually Add Simulator

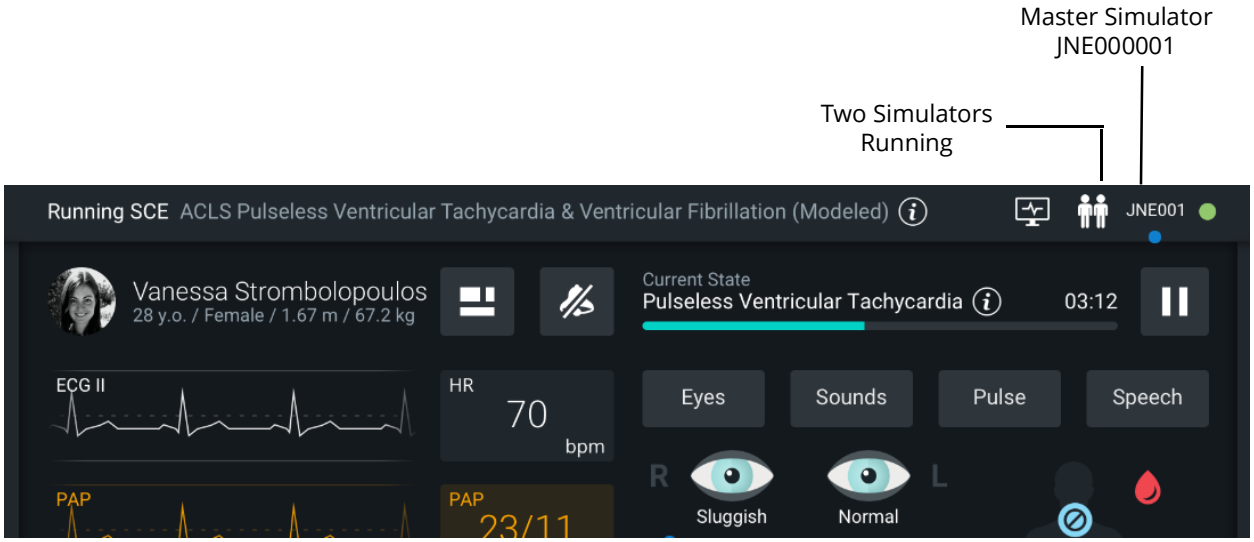
Using MultiSim

The MultiSim feature provides views and options that differ from running simulations without MultiSim. This section describes only those views and options using MultiSim.

Run a Simulation

The tablet and simulator from which you run all simulations is designated as the "master" simulator. The screen displays a list of simulators included in the simulation, but vitals and patient information will appear only for the master simulator. Any changes made to the master simulator (such as parameters, conditions, sounds, pulse, etc.) will apply to all simulators.

Example: Two simulators are configured to run a simulation (JNE000001 and JNE000002). You run the simulations from JNE000001's tablet, which becomes master. You will see two simulators running, and data displaying for only the JNE000001 simulator. Any changes made to the master will apply to JNE000002.



Master Simulator View

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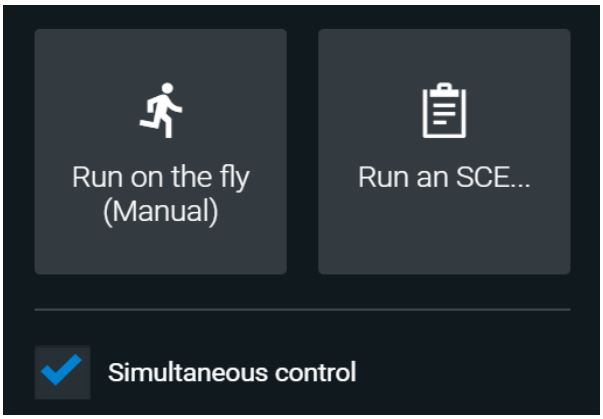
To run multiple simulators for a session:

1. From the Maestro Home screen, select **Simultaneous Control**.



Simultaneous Control

2. Tap an option to run simulations: **Run on the Fly (Modeled), Run on the Fly (Manual)** or **Run an SCE**.

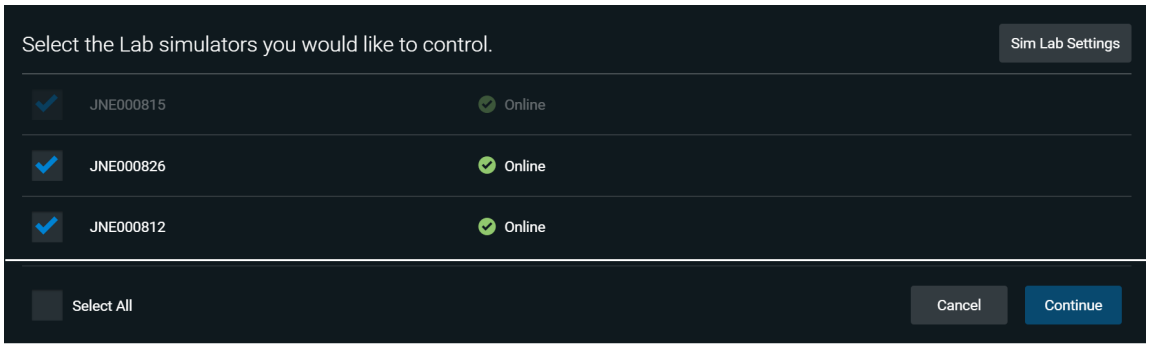
   - If you selected Run on the Fly (either mode), you are prompted to select a **Gender**, and then tap **Start**.

     OR

   - If you selected Run an SCE, tap **Play** for a selected session.

   CAUTION: When running an SCE, if a simulator has another version of the selected SCE, a message appears indicating that the other version will be overwritten. To continue, tap **Overwrite other SCE versions**.

3. From the list of connected simulators (which appear as Online), select two or more to simulators to control, or tap **Select All.**



Select Simulators

4. Tap **Continue**.

   The Runtime screen appears.

If a simulator disconnects while running a simulation, the simulator icon changes color. This may happen, for example, if the WiFi connection is lost.

To display a list of disconnected simulators, tap the **Simulator** icon.

Runtime Screen

The system will automatically reconnect when it becomes available again.

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Setting Up TouchPro for MultiSim

To use TouchPro monitors in a MultiSim environment, the following software and hardware is required:

- One Juno simulator updated with CAE Maestro v1.8 software and already connected to MultiSim network

  Note: If you have not connected your simulator to the MultiSim network, refer to the *Setting Up MultiSim* section for further instructions.

- Ethernet cable
- MSI TouchPro monitor
- Linksys WRT3200ACM central router (purchased from and preconfigured by CAE)

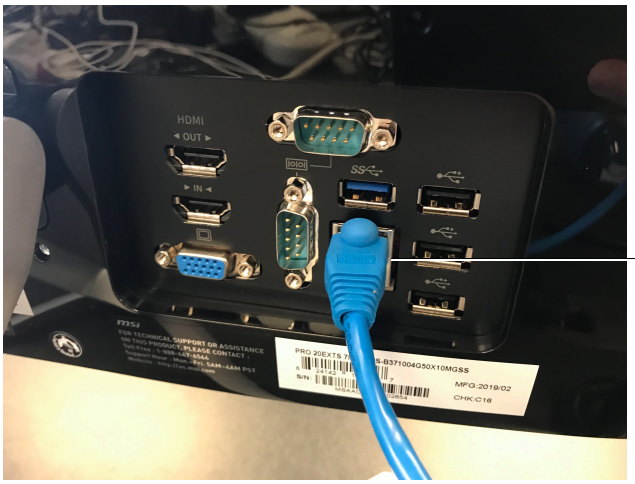
Prior to beginning the TouchPro MultiSim setup, complete the steps outlined in the *TouchPro Getting Started Guide* provided with the MSI Monitor shipment.

TouchPro MultiSim Setup Steps	
1	Connect Simulator to TouchPro Monitor
2	Download Maestro App
3	Connect TouchPro to MultiSim Network
4	Launch TouchPro

Step 1: Connect Simulator to TouchPro Monitor

To connect the simulator to the TouchPro monitor:

a. Connect one end of Ethernet cable to back of MSI (TouchPro) monitor.



Back of MSI Monitor

b. Connect other end of Ethernet cable to LAN port on CAE Juno manikin.

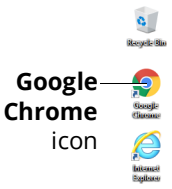
Back of MSI Monitor

c. Power on the MSI monitor.

Step 2: Download Maestro App

To download the Maestro app:

a. From the MSI monitor (TouchPro) desktop screen, tap **Google Chrome** icon to launch Google Chrome browser.



MSI (TouchPro) Monitor Desktop

The Google Chrome browser window appears.

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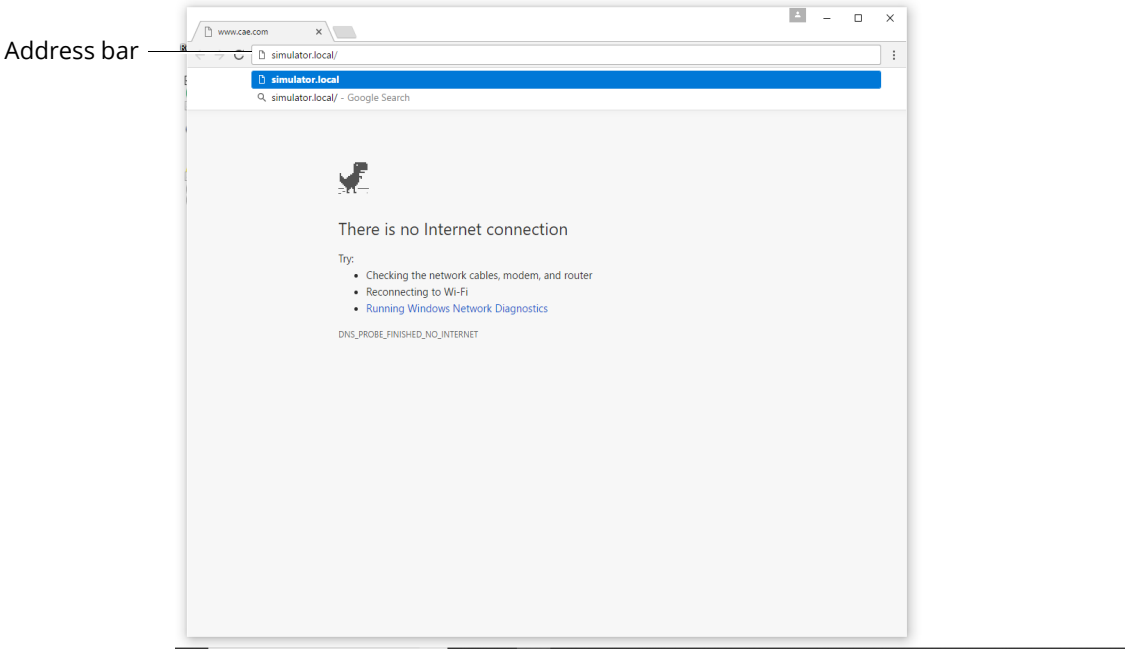
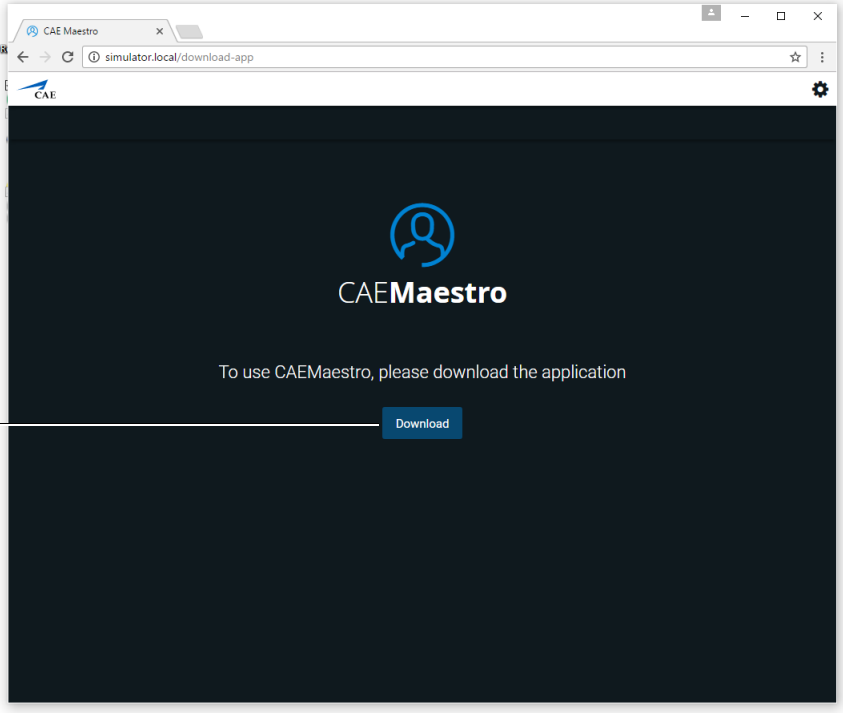
b. Tap in the address bar and using the keyboard, enter “simulator.local” and press **Enter**.



Google Chrome Browser Window

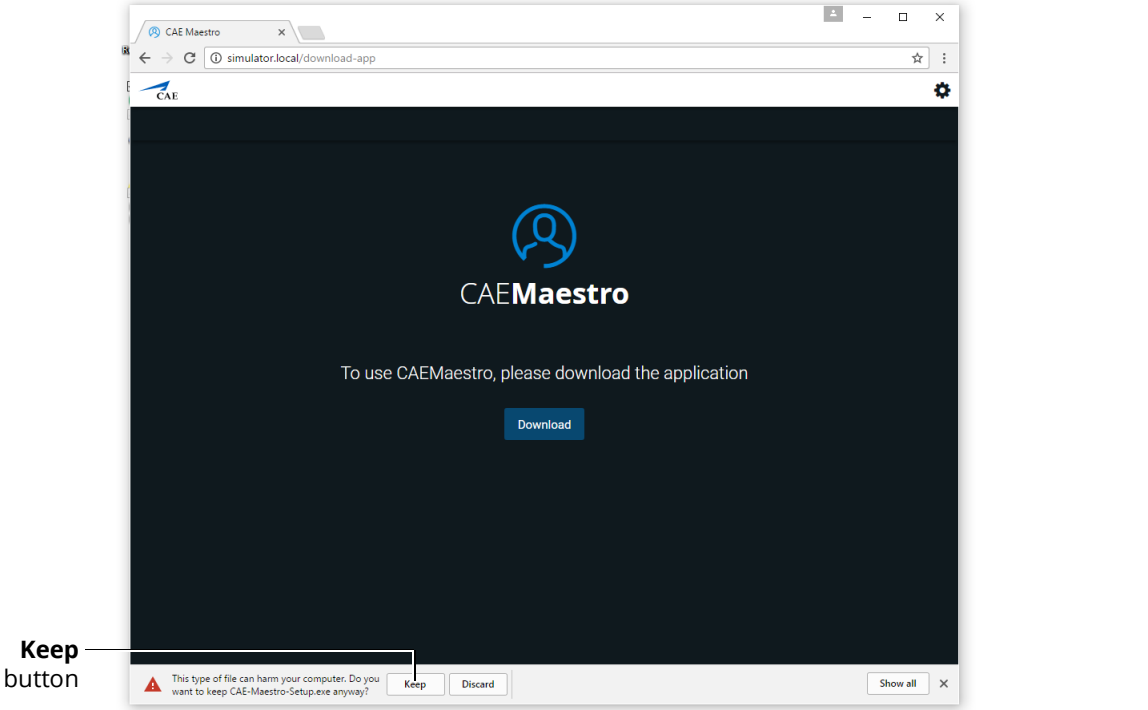
The CAE Maestro Download App page appears.

c. Tap **Download**.



CAE Maestro Download Page

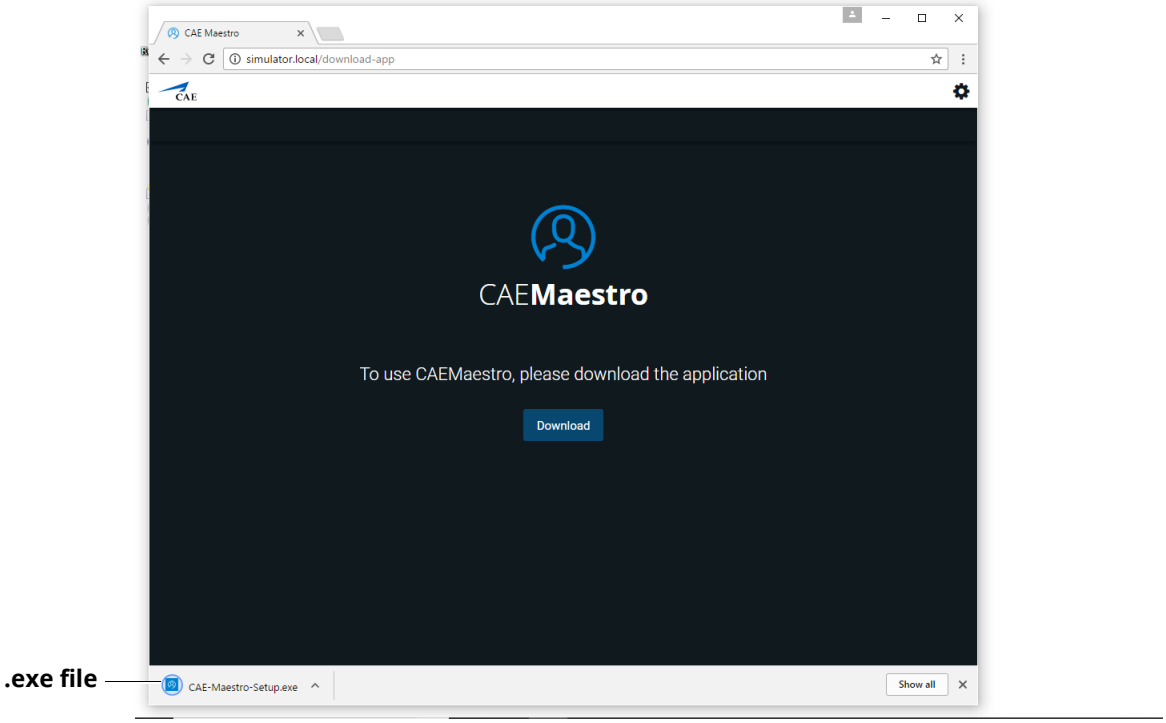
After the download is complete, a banner appears at the bottom of the Chrome window, asking whether to keep or discard the file.



CAE Maestro Download Page

d. Tap **Keep**.

The CAE-Maestro-Setup.exe appears in the Downloads bar at the bottom of the Google Chrome browser window.



CAE Maestro Download Page

e. Tap the CAE-Maestro-Setup.exe file.

The CAE Maestro Setup application launches and begins installing.

Note: During the CAE Maestro Setup application installation, a window may appear explaining that Windows Defender Firewall has blocked some features of this app. If it appears, tap **Allow** access.

The CAE Maestro screen appears.

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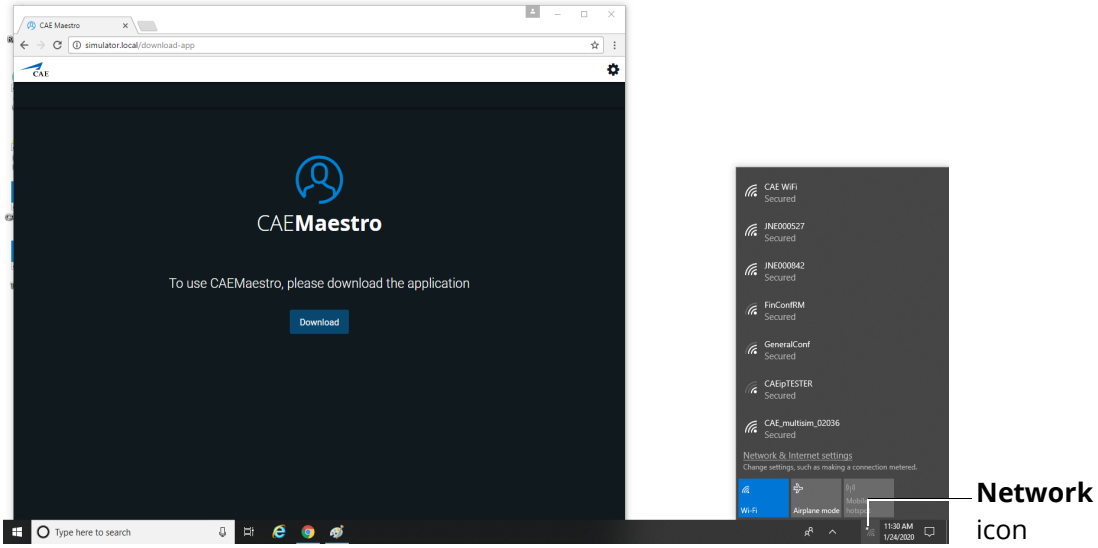
Step 3: Connect TouchPro to MultiSim Network

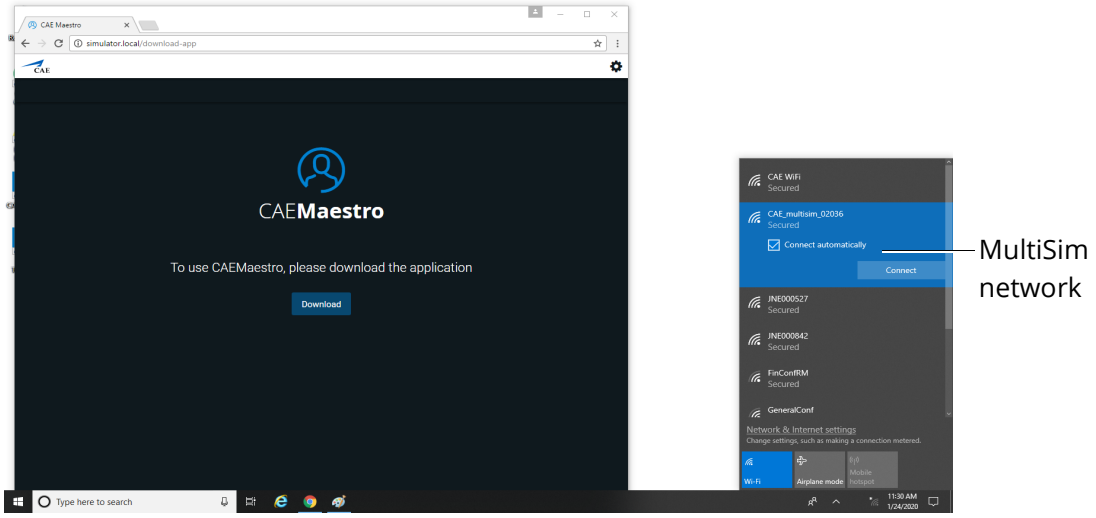
To connect the TouchPro to the MultiSim network:

a. Tap the **Network** icon in the Windows taskbar to expand the available networks list.



TouchPro Monitor Desktop

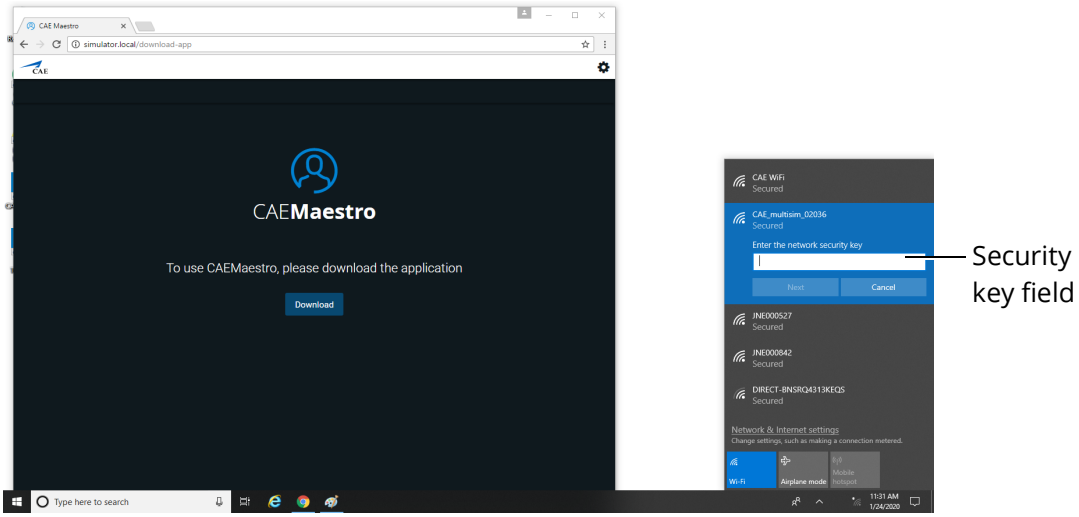
b. Tap CAE_multisim_XXXXX.



WiFi Connection - MultiSim Network

c. In the CAE_multisim_XXXXX network option, tap the **Connect Automatically** checkbox and then tap **Connect**.

The network security key prompt appears.



WiFi Connection - Network Security Key Prompt

d. Tap in the Enter the security network key field and type *caeadmin*.

e. Tap the **Show password** (eyeball) icon to the right of the field and confirm the password has been entered correctly.

f. Tap **Next**.

g. If the discoverable PC prompt appears, tap **Yes**.

h. Wait a few moments while the MSI TouchPro connects to the Multisim network.

i. Close the Google Chrome browser window. The desktop is revealed, showing two new icons (CAE Maestro and CAE TouchPro). Tap on the **CAE TouchPro** icon.

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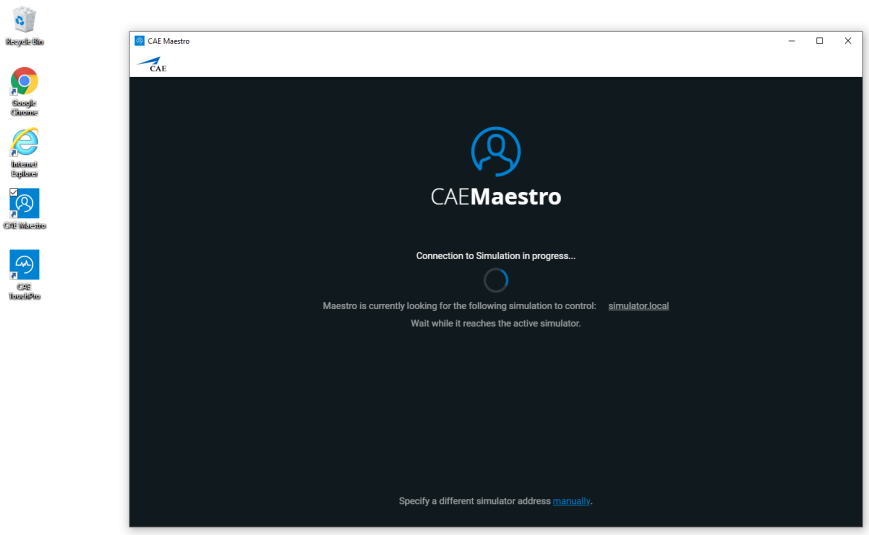
The CAE Maestro Connecting screen appears.

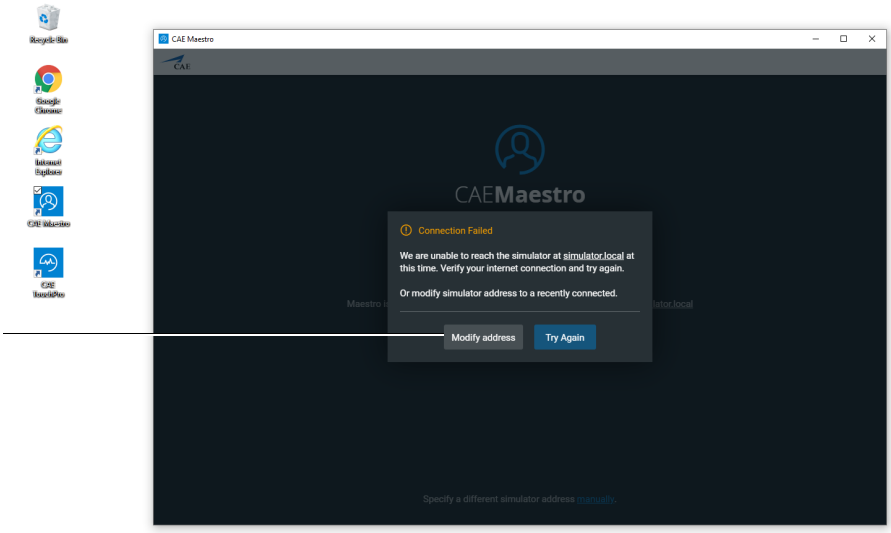


CAE Maestro Connection Screen

j. Tap on the **manually** link within the first 30 seconds of the application launching.

The Connection failed message appears.

k. Tap the **Modify address** button.

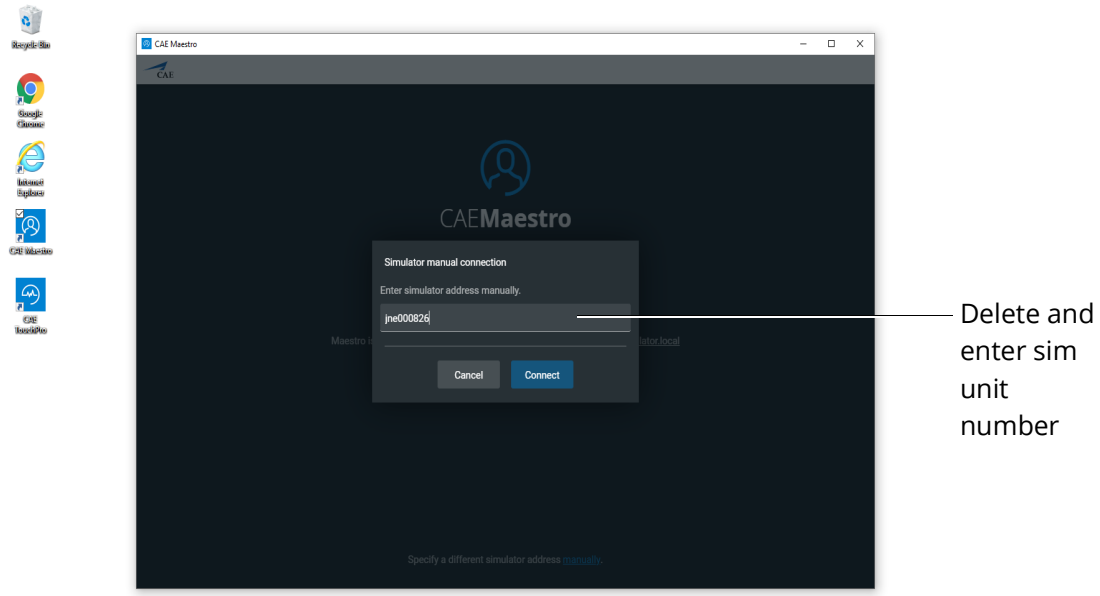


Modify address button

CAE Maestro Connection Failed Screen

The Simulator manual connection prompt appears.

l. Using the keyboard, delete *simulator.local* from the text field and enter the serial number found on the back of the desginated simulator's tablet (ex. *JNE000826*) or on the removable pad located on the manikin's hip.



Simulator Manual Connection

m. Tap **Connect**.

The Maestro Home screen appears.

Step 4: Launch TouchPro

To launch CAE Touch from the Maestro Home screen, tap **CAE TouchPro** icon.

Note: The CAE TouchPro app can also be launched from by tapping the CAE TouchPro icon located on the MSI TouchPro's desktop.

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Troubleshooting

This section describes basic troubleshooting procedures.

Re-establish a Network Connection

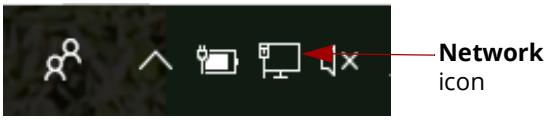
When configuring the simulator, if you inadvertently selected or entered the wrong settings, the tablet will not connect to the central router. The following instructions will re-establish the network connection.

You will need:

- A Windows-based laptop where you have Administrator rights
- An Ethernet cable
- Access to a web browser

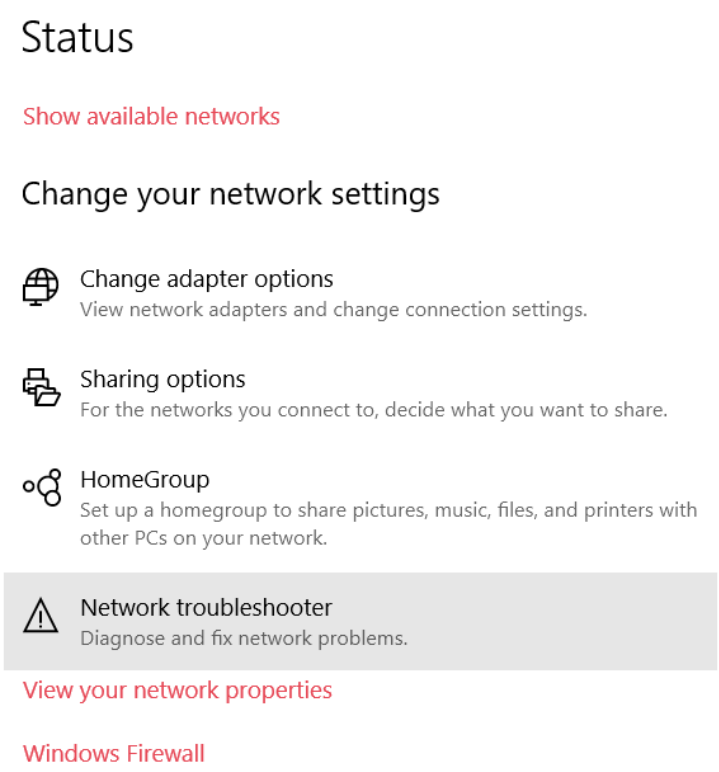
To re-establish a network connection:

1. Plug the Ethernet cable in the manikin's LAN port, and connect it to the laptop.
2. On the laptop, click the **Network** (Internet Access) icon (located in the lower-right corner of the Windows Taskbar). Then, click the **Network & Internet settings** link.



Network Access Icon

3. In the Status window, scroll down and then select **View your network properties.**



Status Window

4. Scroll to locate the **Default gateway** IP address. (Example: 192.168.x.1, where "x" will vary based on your manikin.) Note this address.

Network Properties Window

5. Launch a web browser and enter the web address from Step 4, however, change the number "1" to "5". (Example: 192.168.x.5).

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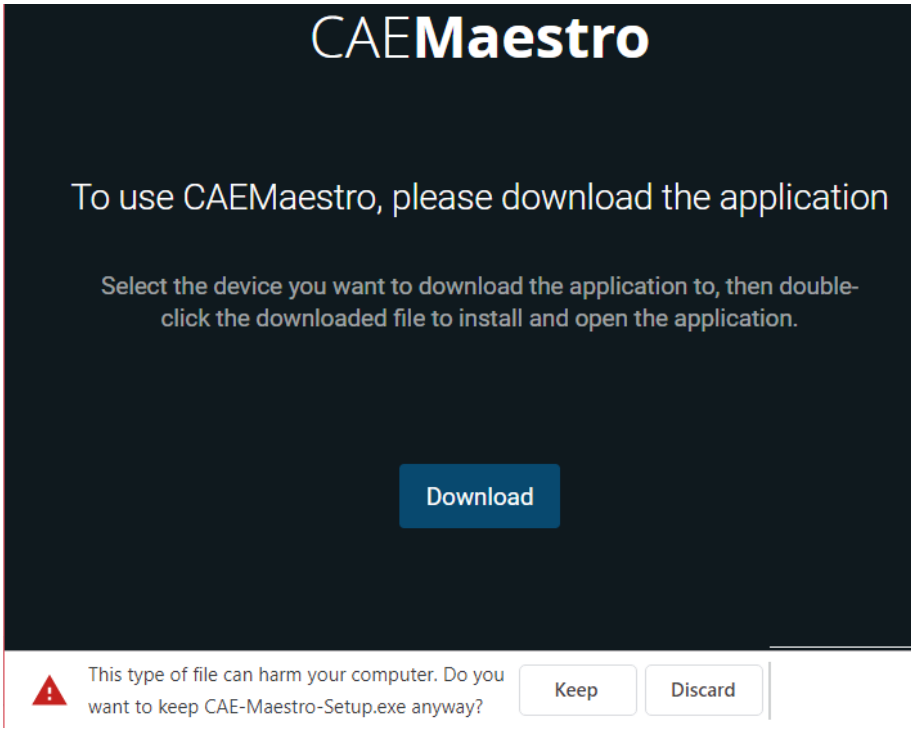
6. On the CAEMaestro download page, click **Download**.



Download Page

7. When a message appears in the lower-left of the screen, click **Keep**.
8. From the Download folder, double-click the **CAE-Maestro-Setup.exe** file.
9. If a SmartScreen opens, click **Run**.

   Note: If the Run button does not appear, click **More Info**.

10. Complete the configuration process:

    a. **On your laptop**: Click the **Maestro** icon on your desktop. Follow the instructions in *"Step 1: Configure Simulators"*.

    b. **On your tablet**: Refer to *"Step 2: Configure a Tablet"*.

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