



CAEMaestro Evolve

Getting Started Guide



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SYSTEM REQUIREMENTS

The following tables list the software and hardware requirements for CAE Maestro™ Evolve.

Software

Web Browser

Minimum	
Web Browser	<ul style="list-style-type: none"> • Google Chrome is required. • Google Chrome may be downloaded free at: www.google.com/chrome/browser/desktop/index.html <p>Note: Other web browsers which support the WebGL platform utilized by Maestro may work but are not supported at this time.</p>

Operating System

Operating System	<ul style="list-style-type: none"> • Windows 10 • MacOS 11 • The operating system must be current and still supported by its manufacturer. • Linus, iOS and Android are not supported.
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Mac is a registered trademark of Apple Inc. Windows and Internet Explorer are registered trademarks of the Microsoft Corporation in the United States and/or other countries. Chrome is a registered trademark of Google Inc.

CAE Maestro Evolve Software

The following identifies the software version associated with the release of this guide.

Document	Document Version	Software Version
CAE Maestro Evolve Getting Started Guide	905K002152 v1.9	CAE Maestro Evolve v1.5

Hardware

Minimum	Optimal
<ul style="list-style-type: none"> • Two Intel Dual Core CPUs, 2.4 GHz 	<ul style="list-style-type: none"> • Six Intel Dual Core CPUs, 2.4 GHz
<ul style="list-style-type: none"> • 1280x680 screen resolution 	<ul style="list-style-type: none"> • 1920x1080 screen resolution
<ul style="list-style-type: none"> • 8 GB DDR3 RAM 	<ul style="list-style-type: none"> • 16 GB DDR3 RAM

Required	Recommended or Not Supported
<ul style="list-style-type: none"> • Mouse 	<ul style="list-style-type: none"> • Two monitors are recommended.
<ul style="list-style-type: none"> • Keyboard - when editing SCEs (Simulated Clinical Experiences). 	<ul style="list-style-type: none"> • Touch screens are not supported.
<ul style="list-style-type: none"> • Graphics card capable of rendering WebGL applications. To determine if your graphics card is capable of rendering WebGL applications, go to: http://get.webgl.org/ 	
<ul style="list-style-type: none"> • Internet connection at or above 15Mbps. 	

INTRODUCING CAE MAESTRO™ EVOLVE

Maestro Evolve is designed to highlight the power of Maestro for distance learning and to work with CAE’s new Virtual Equipment and Virtual Patient products. Launched directly from the cloud, Maestro Evolve provides the convenience of accessing the simulation applications from wherever the instructor or learner is located.

Contained in this Getting Started Guide

This Getting Started Guide provides instructions for logging into Maestro Evolve and launching the applications included in the virtual simulation and distance learning experience. The comprehensive *Maestro Evolve User Guide* will provide more detailed information on all of the Maestro Evolve features.

Getting Started Guide	Topics
CAE Maestro Evolve	<ul style="list-style-type: none"> • Login to Maestro Evolve <ul style="list-style-type: none"> • Sign into CAE Digital Learning Solutions • Obtain and Enter Verification Code • Launch Maestro Evolve
CAE Patient Monitor	<ul style="list-style-type: none"> • Launch Patient Monitor • Configure Dual Monitors (Optional)
CAE Defibrillator CAE AED	<ul style="list-style-type: none"> • Set up the Patient for Electrotherapy • Set up the Defibrillator • Launch the Defibrillator • Set up the AED • Launch the AED
CAE Ventilator and CAE Transport Ventilator	<ul style="list-style-type: none"> • Set up the Patient • Set up the Ventilator • Launch the Ventilator • Set up the Transport Ventilator • Launch the Transport Ventilator
CAE Anesthesia Machine	<ul style="list-style-type: none"> • Set up the Anesthesia Machine • Launch the Anesthesia Machine
CAE Maestro Evolve™ Embodiment - Virtual Simulator	<ul style="list-style-type: none"> • Launch the Virtual Simulator
Getting Started With Simulated Clinical Experiences	<ul style="list-style-type: none"> • Select an SCE • Review an SCE • Run an SCE
Share With Learners	<ul style="list-style-type: none"> • Planned Training Events • Share components of the simulation with learners

Getting Started Guide	Topics
Appendices	<ul style="list-style-type: none">• Appendix A - FAQ - Frequently Asked Questions that provide support for issues that may occur during initial use

For further information on the individual products, please visit <https://caehealthcare.com/support/user-guides> to download the product-specific user guides.

CAE MAESTRO EVOLVE

Login to Maestro Evolve

Follow the steps to login to Maestro Evolve.

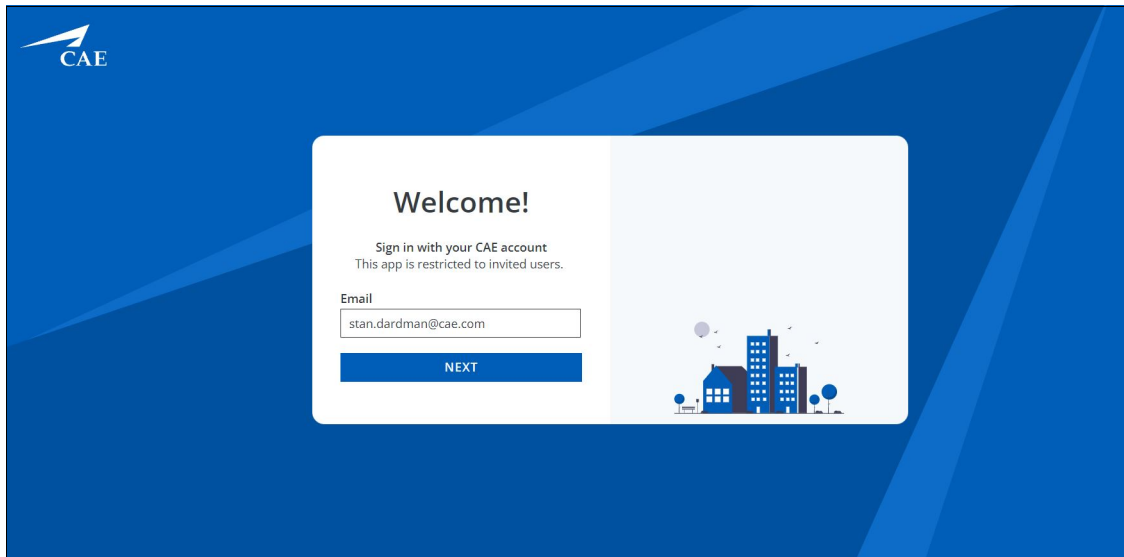
Login Steps	
1	Sign into CAE Digital Learning Solutions
2	Obtain and Enter Verification Code
3	Launch Maestro Evolve

Step 1: Sign into CAE Digital Learning Solutions

To sign into CAE Digital Learning Solutions, perform the following steps:

1. A one-time registration process is necessary when access to Maestro Evolve is requested from the CAE Sales Representative. In the event you do not have a Sales Representative, contact CAE Healthcare Customer Service at:
<https://caehealthcare.com/contact-us/>
2. Open the email received from CAE and click the link:
<https://cloud.caehealthcare.com>

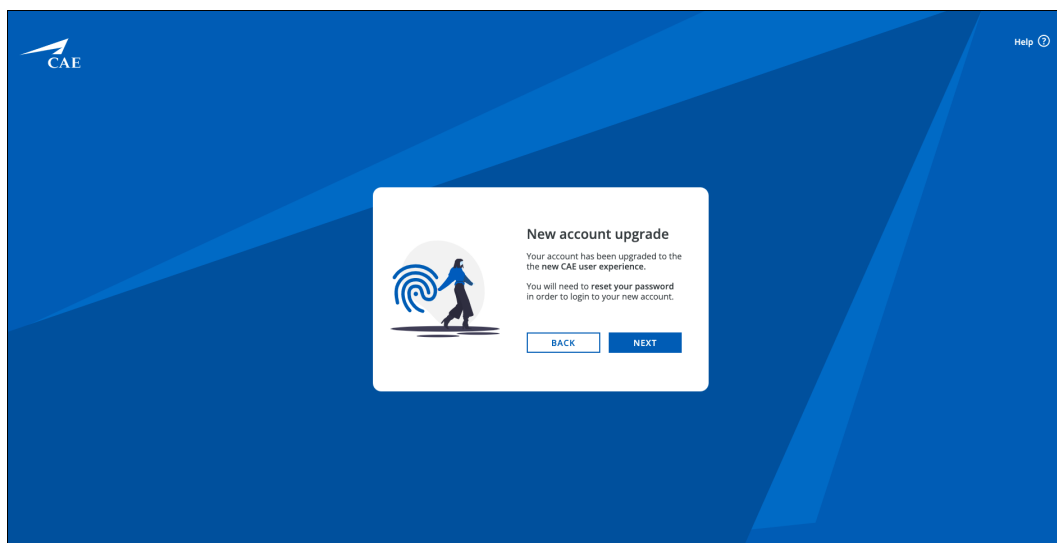
A browser window displaying the Welcome screen appears. Enter the email address where the access link was sent to begin a one-time registration process.



Welcome Screen

3. Click the **Next** button.

The New Account Upgrade message appears.



New Account Upgrade Prompt

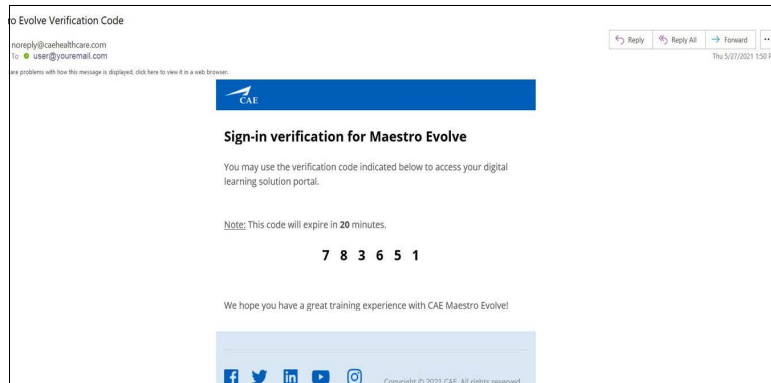
Note: New account registration is required for all users, including existing users, with the newest update to Maestro Evolve. After the new account registration is completed (in the following steps), the user will only see the Sign In window upon future login attempts.

4. Click **Next**. and leave the browser window open. A verification code is sent to the registered email address.

Step 2: Obtain and Enter Verification Code

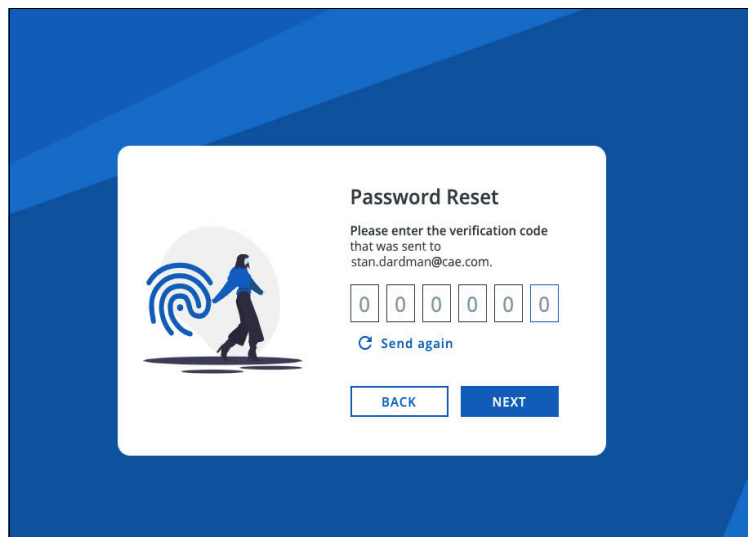
Upon completion of the previous steps, a verification code is sent to the email address that was entered at the Sign In window.

1. Open the email from *noreply@caehealthcare.com*.



Verification Email

2. Return to the browser and enter the verification code in the **Verification Code** field.



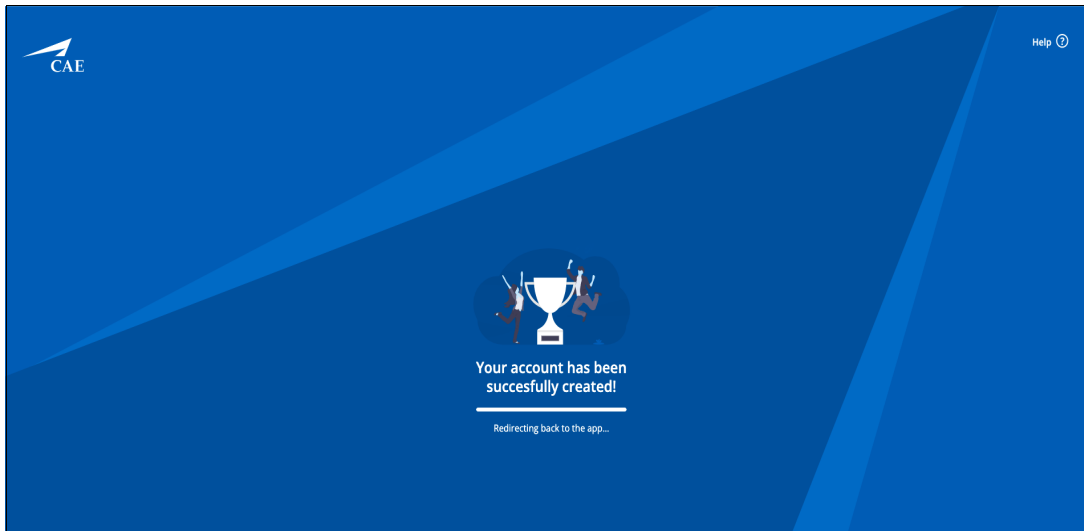
Password Reset Screen

3. Click the **Next** button.

The New Account screen appears.

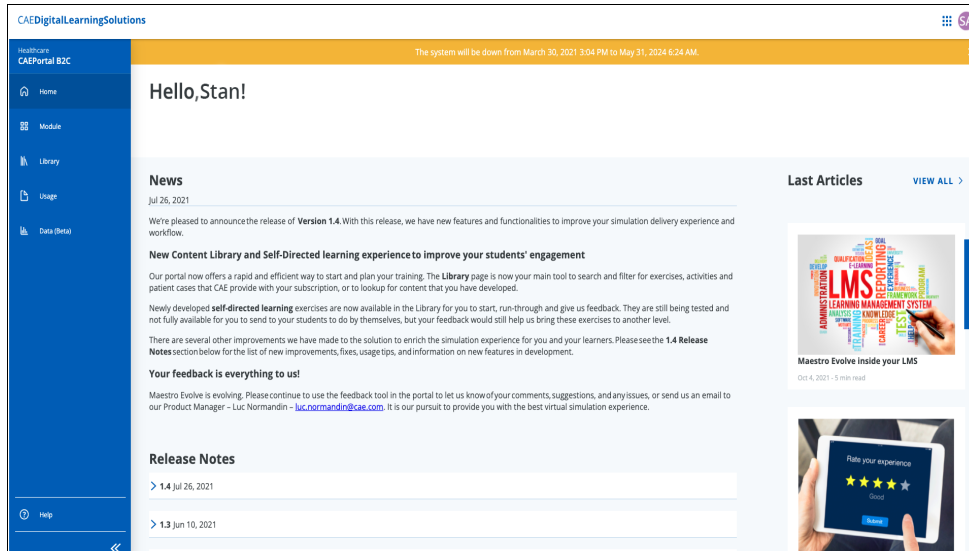
New Account Screen

4. Click **Next**.



Account Successfully Created Screen

The CAE Digital Learning Solutions window appears with the Maestro Evolve module available.



CAE Digital Learning Solutions Screen

Step 3: Launch Maestro Evolve

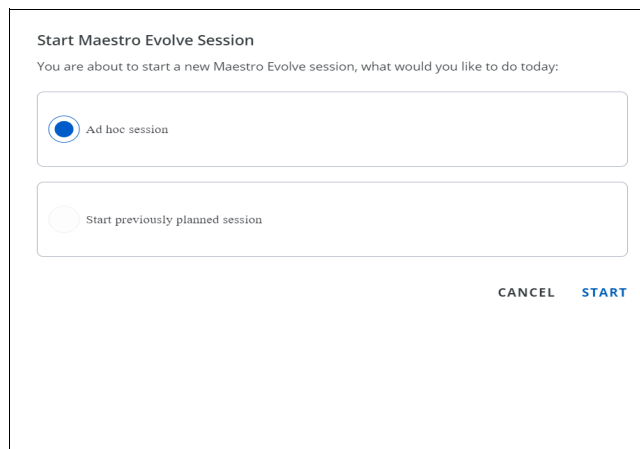
To launch the Maestro Evolve application:

1. From the CAE Digital Learning Solutions window, on the CAEMaestro Evolve Module Menu, click **Start**.



Maestro Evolve Module Menu - Start and Invite

The Start Maestro Evolve Session window appears.

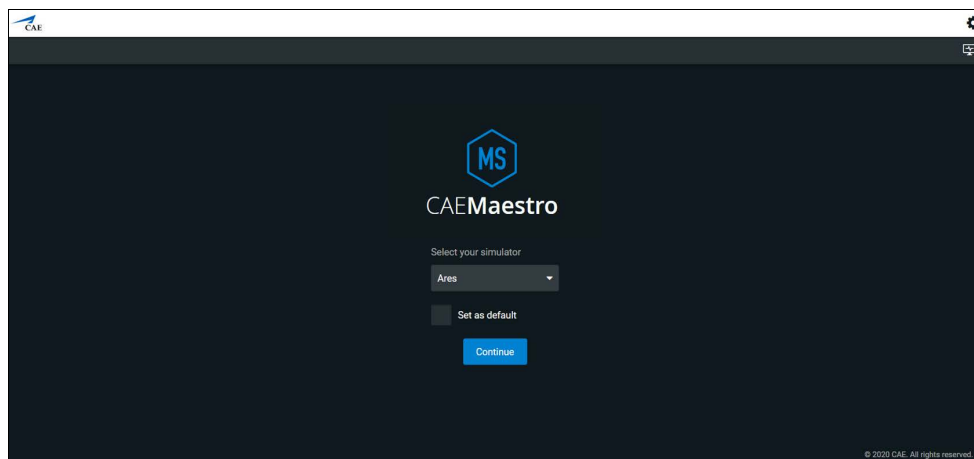


Start Maestro Evolve Session

2. Verify **Ad hoc session** is selected and click **START**.

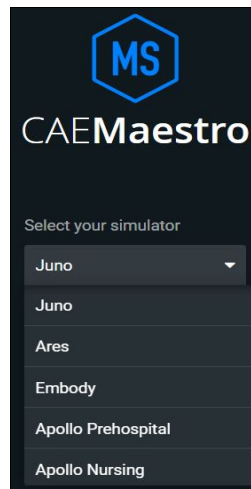
The Select Simulator window appears.

Note: For returning users, selecting a simulator may be bypassed if a simulator was previously chosen and set as the default. In this case, the Maestro Home screen appears.



Select Simulator Window

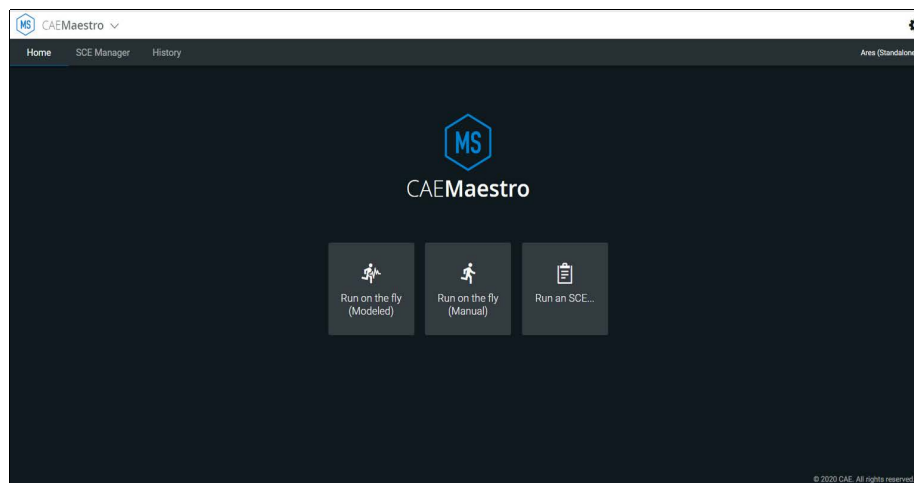
3. Click the drop-down list and select a simulator.



Select Simulator Drop-Down List

4. Click the **Continue** button.

The Maestro Home Screen appears.



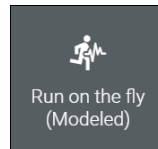
Maestro Home Screen

There are three options to choose from on the Home screen:

- Run on the fly (Modeled)
- Run on the fly (Manual)
- Run an SCE

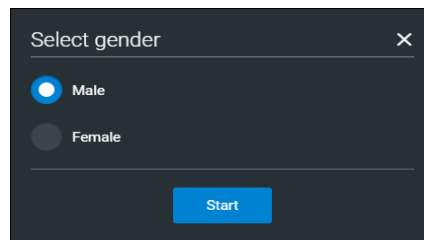
5. Select **Run on the fly (Modeled)**.

Note: The Ventilator requires Modeled mode.



**Run on the fly
(Modeled)**

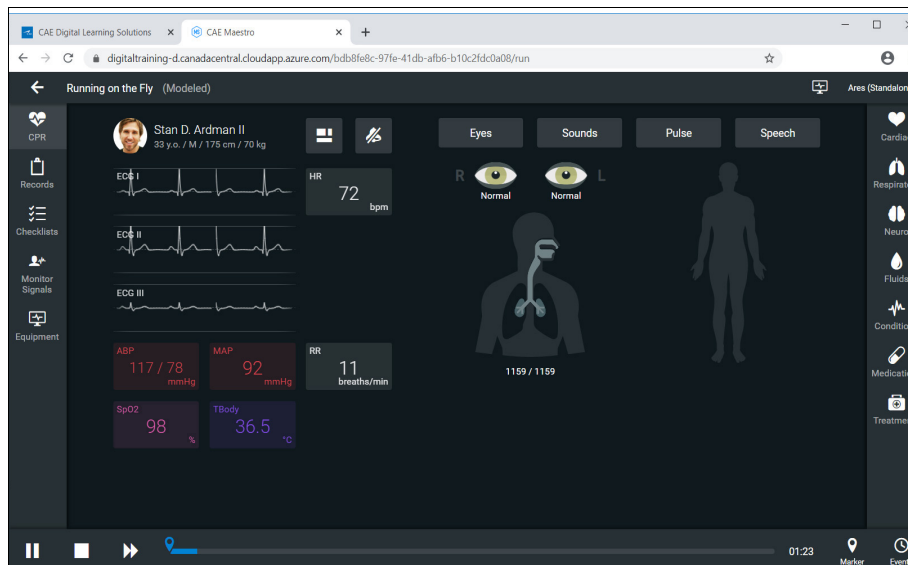
A prompt to select **Gender** appears.



Select Gender

6. Select Gender and then click the **Start** button.

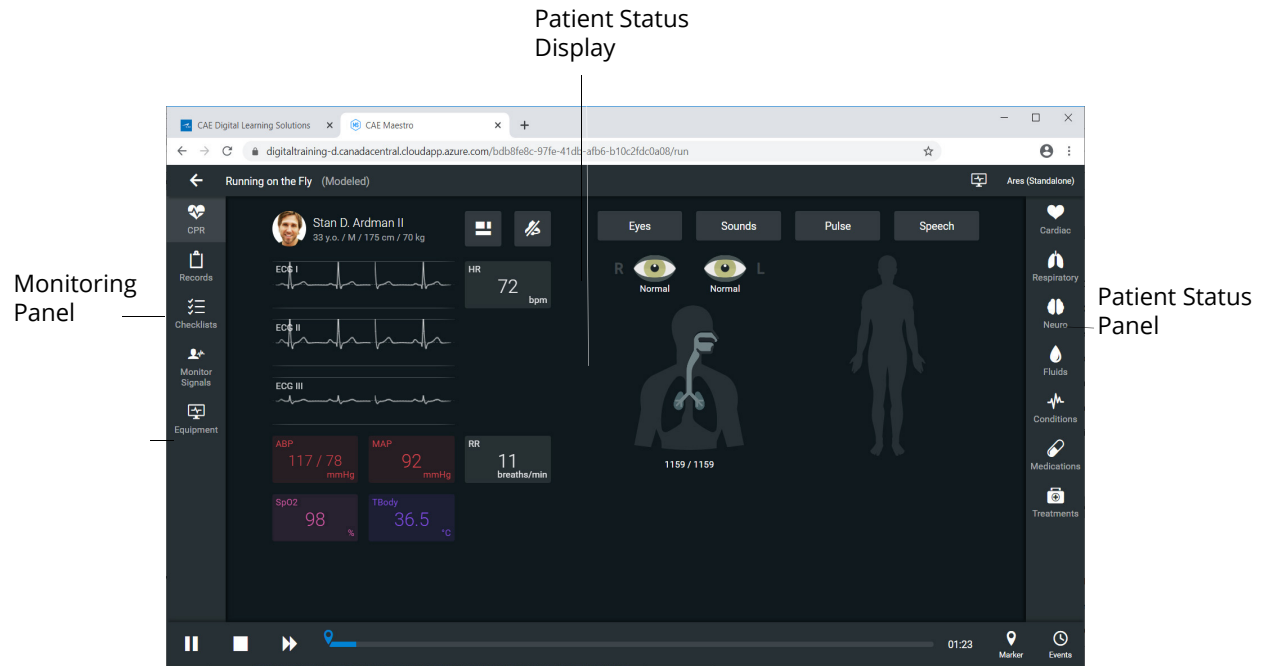
The SCE Run Screen appears.



SCE Run Screen

SCE Run Screen Overview

The SCE Run screen contains features that are accessible from panels on both sides of the window and a patient status display in the center.



SCE Run Screen

Monitoring Panel

The panel on the left features icons used to access the following:

- CPR - CPR Monitor Controls
- Records - Patient Records
- Checklists - Procedure Checklists
- Monitor Signals - Parameters and options that control the simulator and/or display
- Equipment - Parameters and options associated with virtual equipment

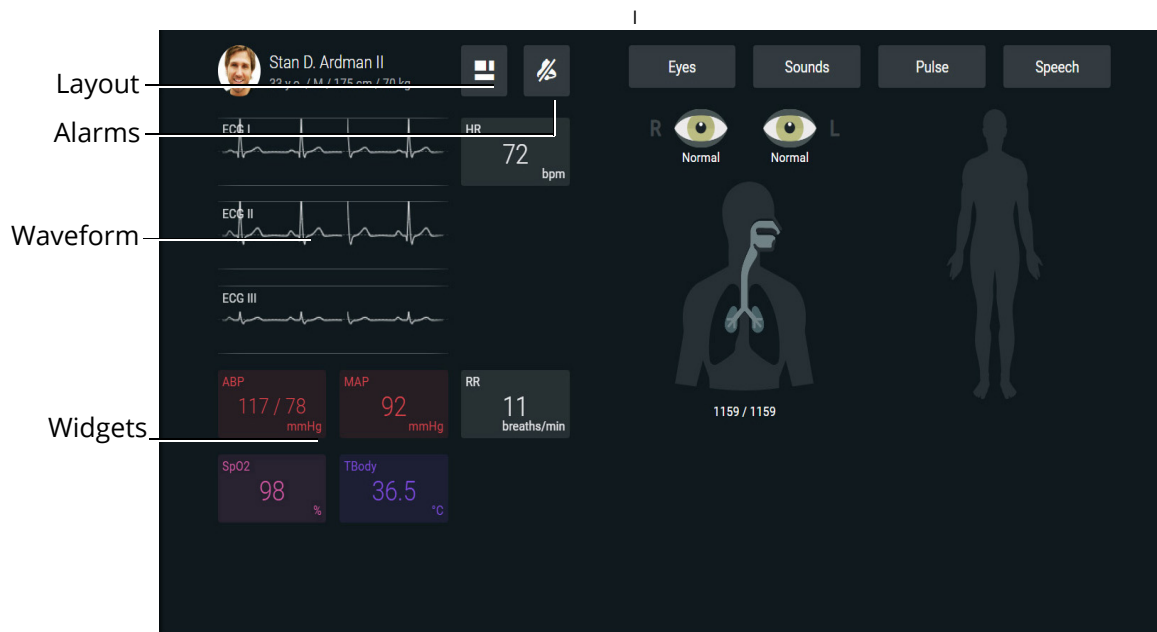
Patient Status Panel

The panel on the right features icons used to access associated parameters for these various body systems:

- Cardiovascular
- Respiratory
- Neurological
- Fluids
- Sounds
- Pulse
- Speech

Patient Status Display

Patient status display appears in the main frame on the Run screen. The status includes numeric data and waveforms.



Patient Status Display

From this display, users can:

- Select Alarms to mute or unmute alarm sounds.
- Select Waveforms or numeric widgets to adjust parameters.
- Edit a layout.

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CAE PATIENT MONITOR

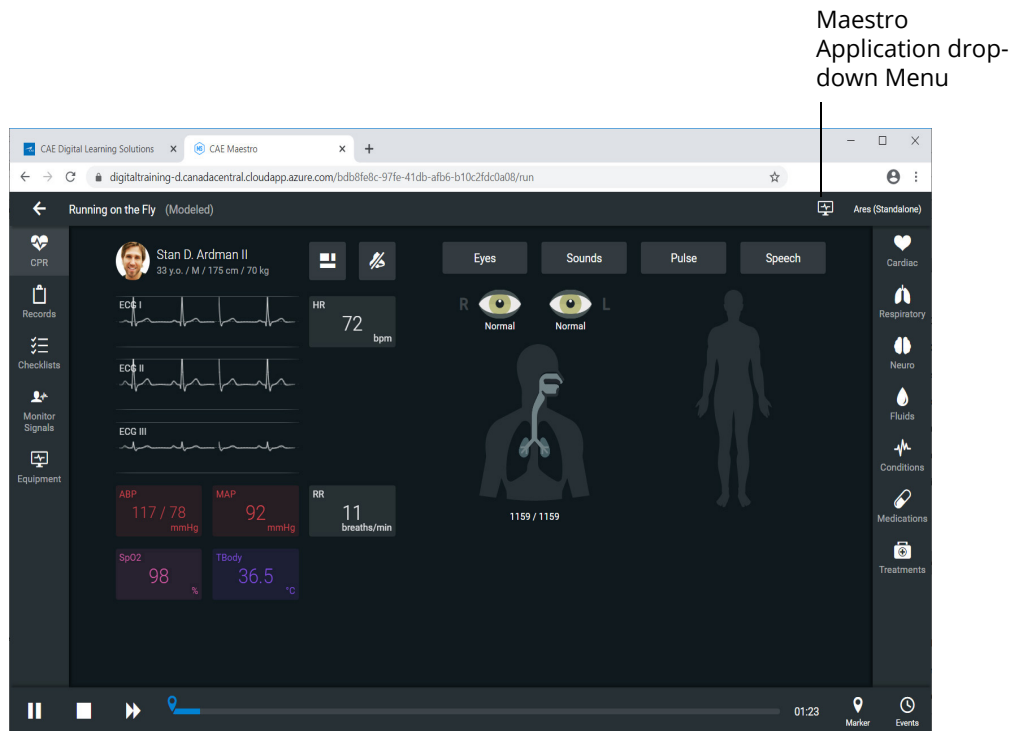
Listed below are the steps to get started using the patient monitor included with Maestro Evolve.

Patient Monitor Steps	
1	Launch Patient Monitor
2	Configure Dual Monitors (Optional)

Step 1: Launch Patient Monitor

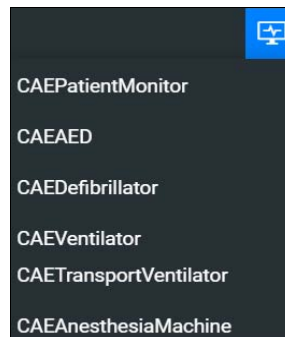
To launch the Patient Monitor:

1. Keep the Maestro Evolve window open. From the upper-right corner of the SCE Run screen, select the Maestro Application drop-down menu.



SCE Run Screen

The Maestro Application drop-down menu appears.



Maestro Application Drop-Down Menu

2. Select **CAEPatient Monitor**. The Patient Monitor appears in a separate browser tab.



CAE Patient Monitor

Patient Monitor will display wave forms and vital signs consistent with parameters set in Maestro Evolve.

To silence all of the Patient Monitor sounds, click the **Mute** button in the lower-left corner of the screen.



Mute Button

When using a single monitor:

1. Restore or resize the Maestro Evolve screen so that some of the Windows desktop is visible.
2. Position the mouse pointer on the **CAEPatient Monitor** tab in the browser window.
3. Drag the **CAEPatient Monitor** tab outside of the active browser window. The Patient Monitor will appear in a separate window.
4. Minimize the Patient Monitor window.

This will allow the monitor to stay active while other equipment options are selected and utilized. The monitor window may be restored at anytime to view or modify during the simulation until the window is closed.

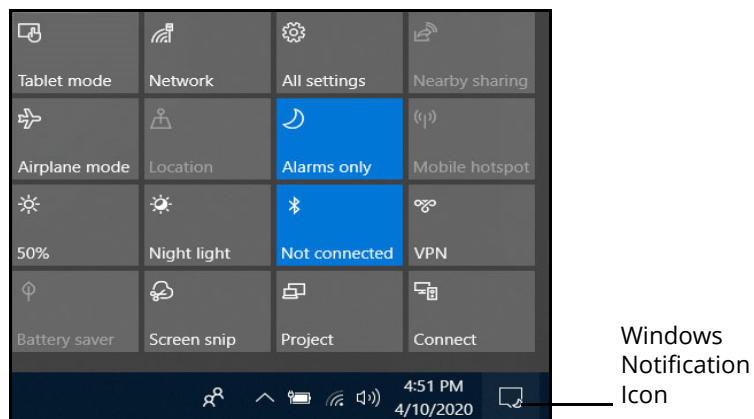
Step 2: Configure Dual Monitors (Optional)

Using multiple monitors is optional. However, the use of dual monitors will allow for an enhanced experience, enabling the Maestro controls to be shown on one display, monitoring of virtual equipment and the patient on a second display.

When a secondary monitor is connected, the software defaults to dual monitor configuration. If the dual monitor software is not set up, both monitors have the same image.

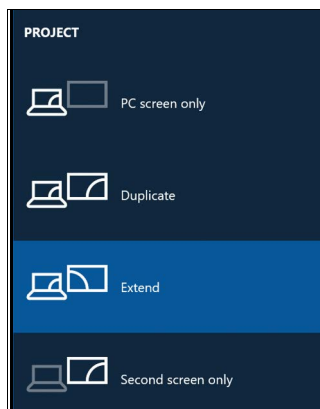
To configure the monitors in Windows 10:

1. Click the **Windows Notification** icon on the lower-right corner of the monitor.
2. Click on **Project**. If you do not see the Project option, click **Expand** to view more options.



Windows Notifications and Settings

3. Click on **Extend**.



Projection Options

When using dual monitors:

1. Position the mouse pointer on the CAEPatient Monitor browser tab.
2. Drag the Patient Monitor window to the second monitor display, leaving the Maestro Evolve window in the first display.

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CAE DEFIBRILLATOR AND CAE AED

Listed below are the steps to get started using CAE Defibrillator and CAE AED.

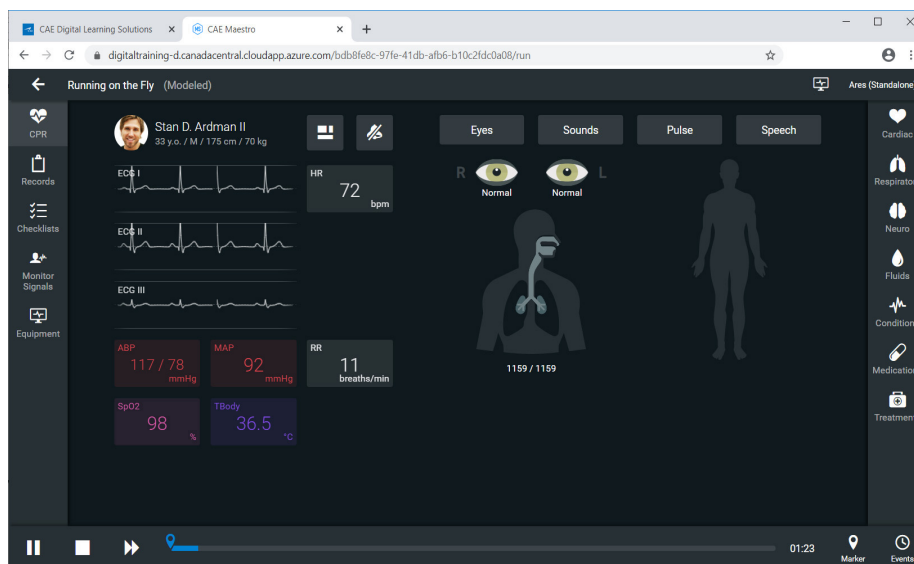
Note: Only one electrotherapy device may be used at a time. For example, if the AED is active, and the Defibrillator is powered on, the AED will automatically power off.

Defibrillator and AED Steps	
1	Set up the Patient for Electrotherapy
2	Set up the Defibrillator
3	Launch the Defibrillator
4	Set up the AED
5	Launch the AED

Step 1: Set up the Patient for Electrotherapy

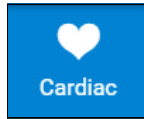
To perform a realistic and effective cardiac electrotherapy simulation, parameters are set to reflect a patient’s condition that would require use of a Defibrillator or AED. This section provides information on modifying and activating the appropriate parameters.

The SCE Run Screen appears.



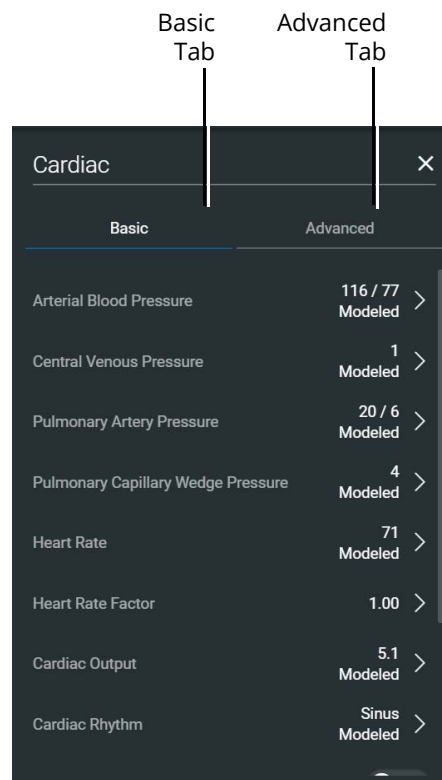
SCE Run Screen

1. From Patient Status panel, on the right side of the SCE Run Screen, click the **Cardiac Parameters** icon.



Cardiac Parameters Icon

The Cardiac Parameters panel appears.

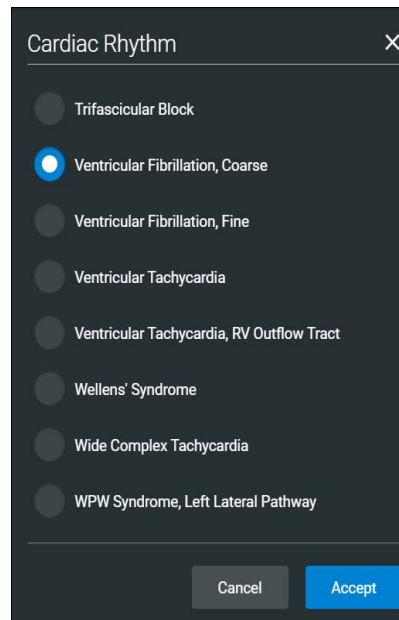


Cardiac Parameters Panel

2. From the Cardiac Parameters panel, select **Cardiac Rhythm**.

The Cardiac Rhythm Options appear.

3. Toggle Modeled to **Override**.



Cardiac Rhythm Options

4. The arrhythmias in the following table result in a shock advised state for the Defibrillator and AED.

Cardiac Rhythm Parameters - Arrhythmias	
Basic	Coarse Ventricular Fibrillation
	Fine Ventricular Fibrillation
	Torsade de Pointes
	Ventricular Tachycardia

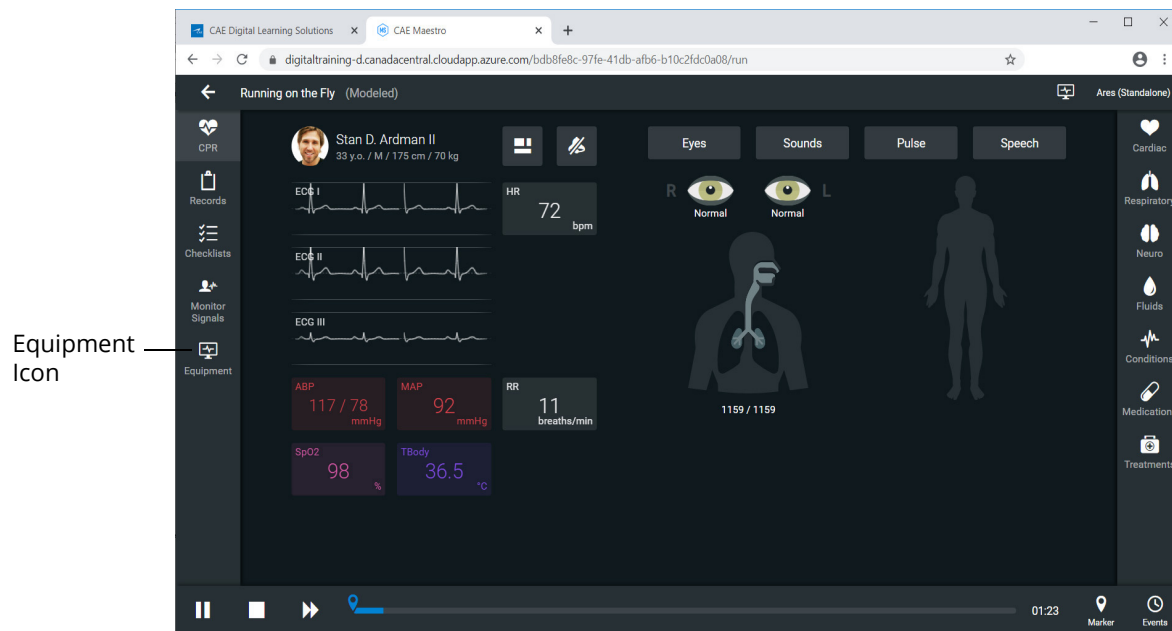
To change the Maestro default modeled cardiac parameters to one of the suggested arrhythmias:

- a. From the Cardiac Rhythm Options, scroll through the list to find the desired arrhythmia.
- b. Select the Arrhythmia.
- c. Click **Accept**.

Step 2: Set up the Defibrillator

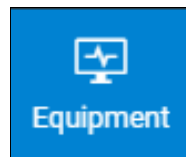
To setup the Defibrillator, select probes and enabling the power as follows:

1. From the left panel of the SCE Run screen, select the **Equipment** icon.



Equipment
Icon

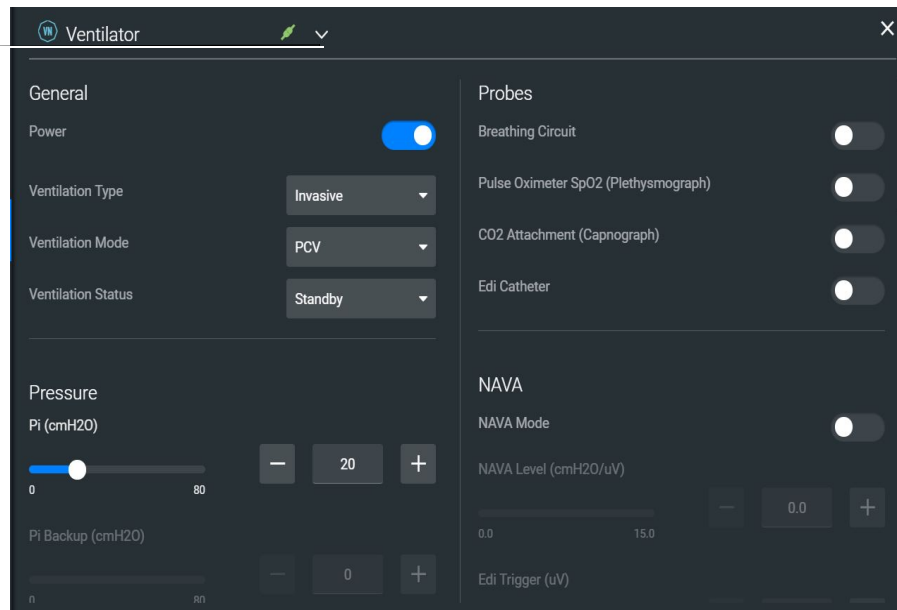
SCE Run Screen



Equipment Icon

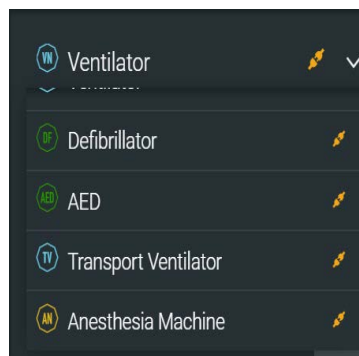
The Equipment parameters appear.

Select Equipment Parameters drop-down



Equipment Parameters

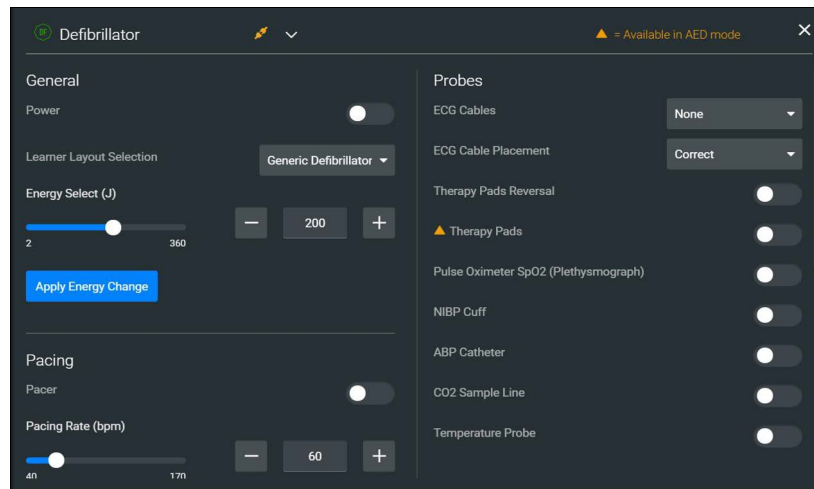
Click the **Select Equipment Parameters** drop-down indicator to the right of the equipment type at the top of the list.



Select Equipment Parameters Drop-Down

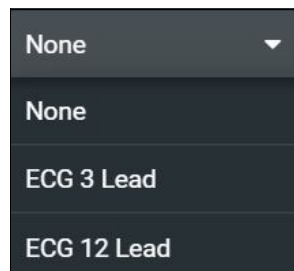
2. Select **Defibrillator** from the list.

The Defibrillator parameters appear for editing.



Defibrillator Equipment Parameters

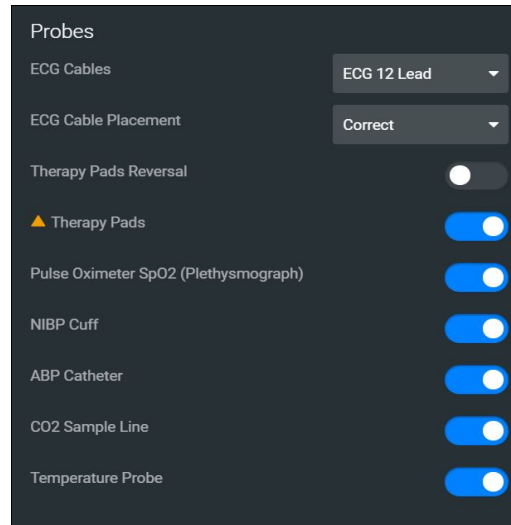
- From the Probes options, select the drop-down list for **ECG Cables**.



ECG Cables Drop-Down List

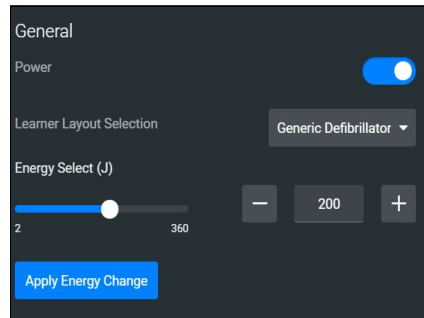
- Select **ECG 12 Lead** from the drop-down list.
- From the Probes options, select the drop-down list for **ECG Cable Placement**.
- Select **Correct** from the drop-down list.
- Ensure that the **Therapy Pads Reversal** is **disabled**.
- Enable** the following probes:
 - Therapy Pads
 - Pulse Oximeter SPO₂ (Plethysmograph)
 - NIBP Cuff
 - ABP Catheter
 - CO₂ Sample Line
 - Temperature Probe

The Probes options will appear as shown in the following image.



Defibrillator Probes Enabled

- From the General parameters, verify that the **Power** indicator is **enabled**.



General Equipment Parameters - Power Enabled

Note: Once the power is enabled to the Defibrillator, the simulation connection status will change at the top of the Equipment Parameters Panel. This same status icon will be displayed at the top of the defibrillator screen, when running the defibrillator.



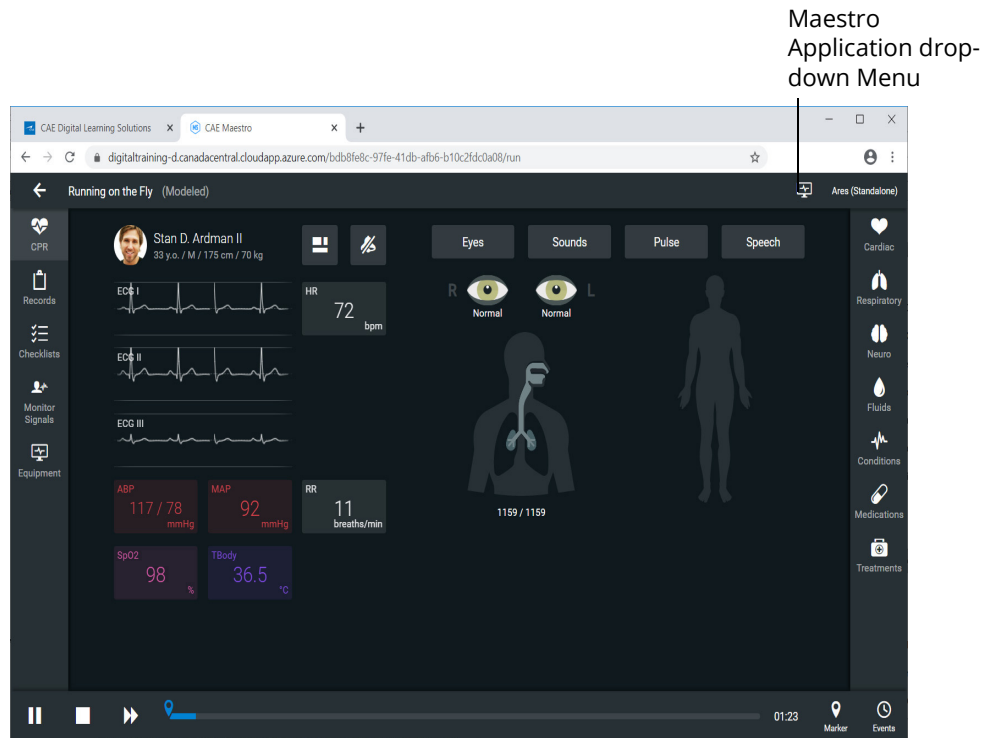
Simulation Connection Status

- Click the **X** in the upper-right corner to close the Equipment parameters panel and return to the SCE Run screen.

Step 3: Launch the Defibrillator

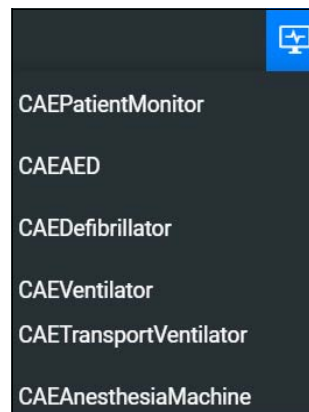
To launch the Defibrillator:

1. From the top right of the SCE Run screen, select the Maestro Application drop-down menu.



SCE Run Screen

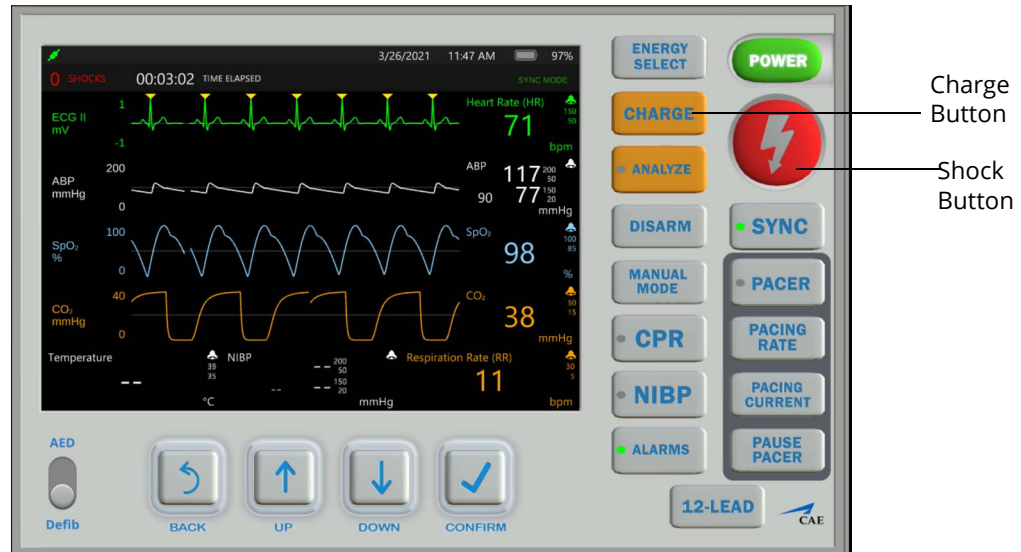
The Maestro Application drop-down menu appears.



Maestro Application Drop-Down Menu

- From the drop-down menu, select **CAE Defibrillator**.

After the system has initialized, the CAE Defibrillator screen appears.



CAE Defibrillator

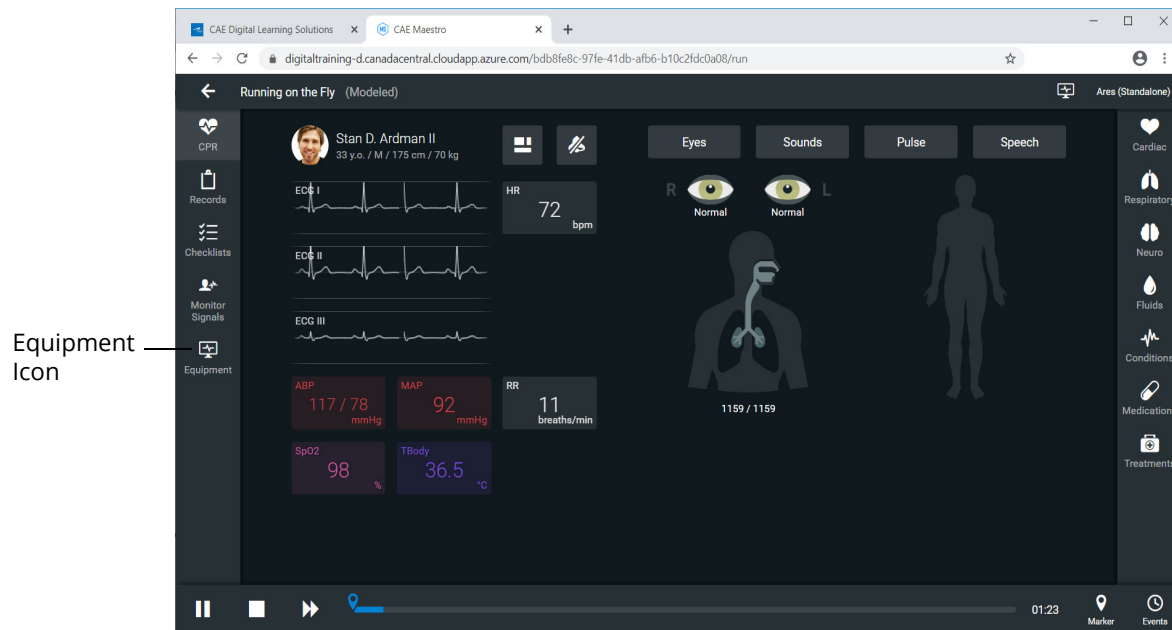
Note: Enable all probes as described in *Step 2: Set up the Defibrillator*. Having probes enabled will ensure appropriate patient vital signs are displayed and monitored by the equipment during the simulation.

See *Appendix B - Defibrillator Controls and Display Options* for more information.

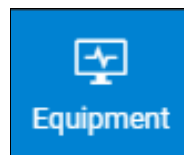
Step 4: Set up the AED

To set up the AED:

1. Only one electrotherapy device may be used at a time. If the Defibrillator is running, close the Defibrillator by clicking on the **X** in the upper-right corner of the Defibrillator browser tab.
2. From the left panel of the SCE Run screen, select the **Equipment** icon.



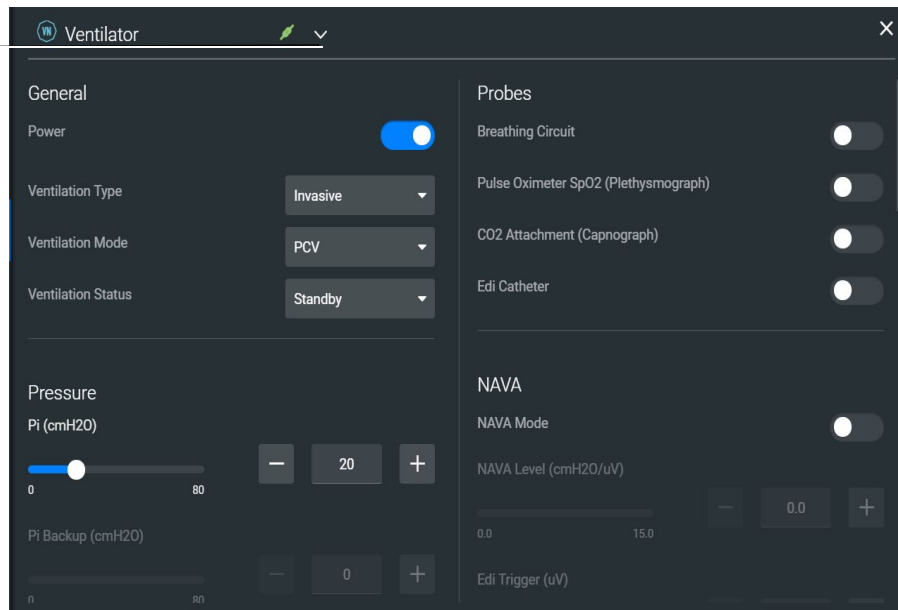
SCE Run Screen



Equipment Icon

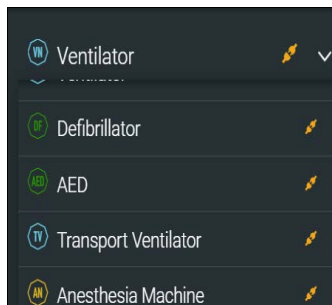
The Equipment parameters appear.

Select Equipment Parameters drop-down



Equipment Parameters

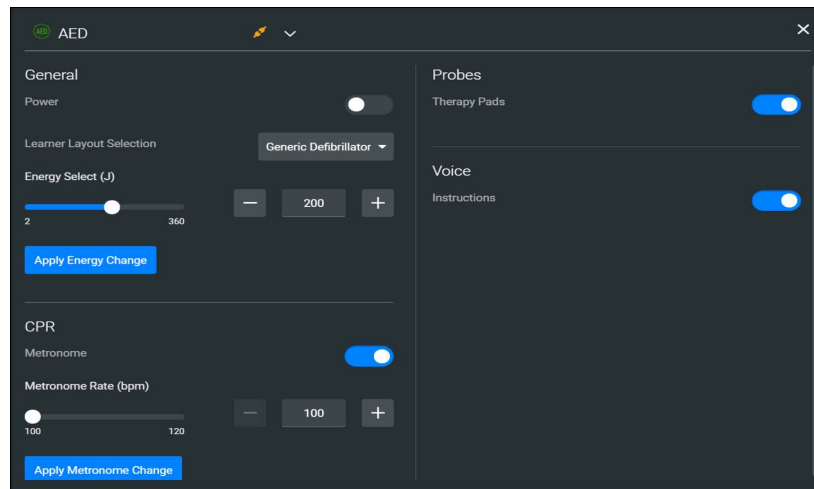
3. Click the **Select Equipment Parameters** drop-down indicator to the right of the equipment type at the top of the list.



Select Equipment Parameters Drop-Down

4. Select **AED** from the list.

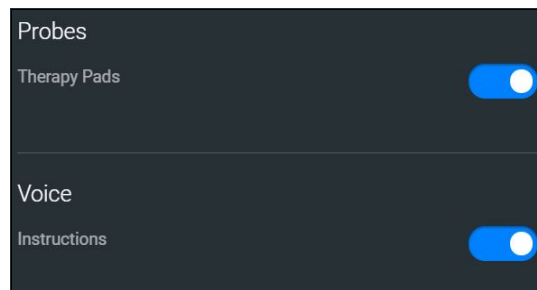
The AED parameters appear for editing.



AED Equipment Parameters

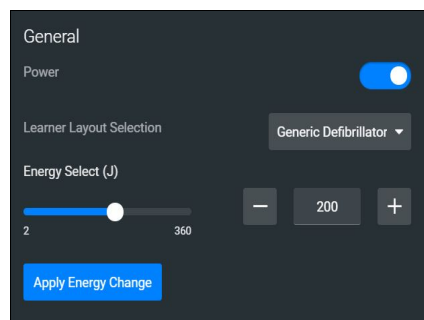
5. From the Probes options, ensure that the **Therapy Pads Reversal** is **disabled**.
6. **Enable** the **Therapy Pads**.
7. From the Voice options, **Enable** the **Instructions**.

The Probes and Voice options appear as shown in the following image.



AED Probes and Voice Options

8. From the General parameters, verify that the **Power** indicator is **enabled**.



General Equipment Parameters - Power Enabled

Note: Once the power is enabled to the AED, the simulation connection status will change at the top of the Equipment Parameters Panel. This same status icon will be displayed at the top of the AED screen, when running the AED.



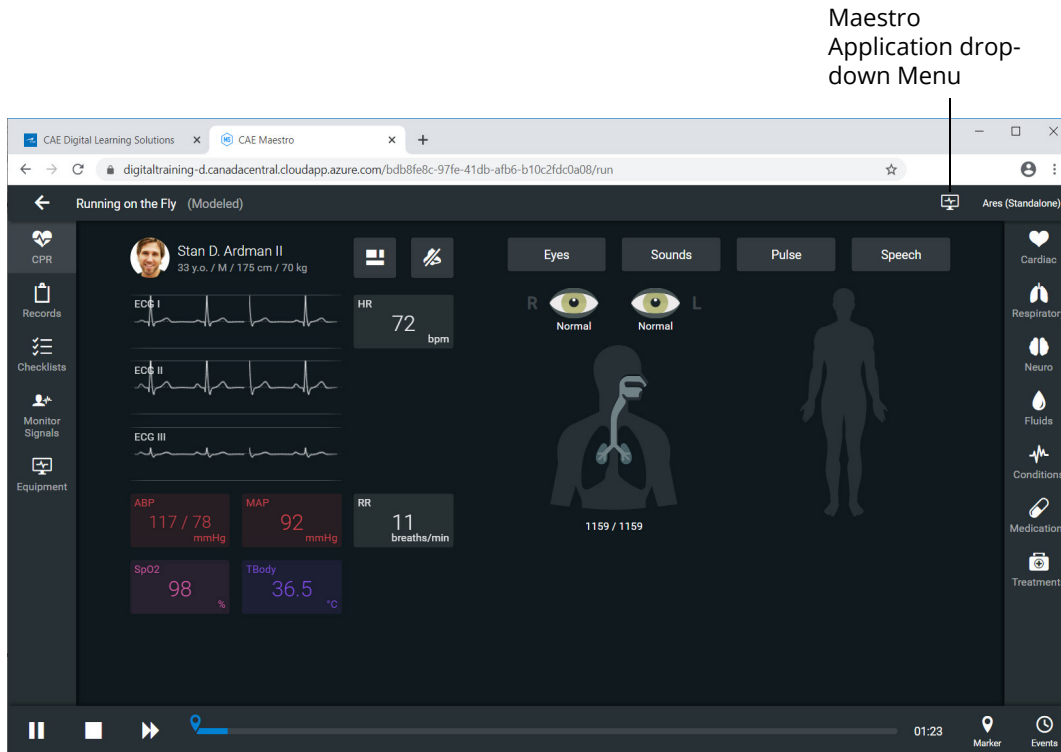
Simulation Connection Status

9. Click the **X** in the upper-right corner to close the Equipment parameters panel and return to the SCE Run screen.

Step 5: Launch the AED

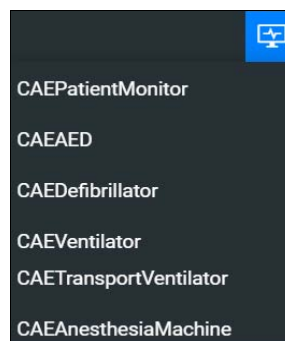
To launch the AED:

1. From the upper-right corner of the SCE Run screen, select the Maestro Application drop-down menu.



SCE Run Screen

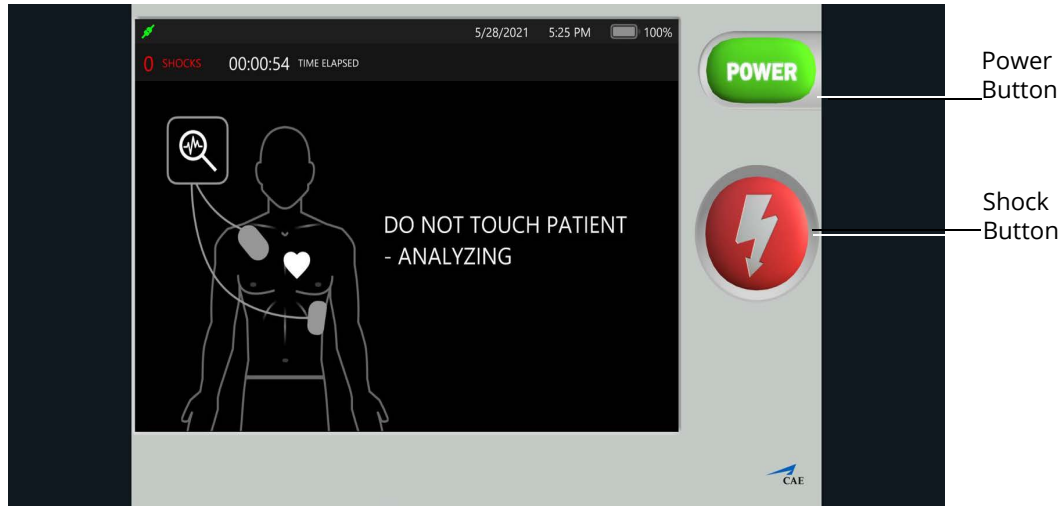
The Maestro Application drop-down menu appears.



Maestro Application Drop-Down Menu

2. Select **CAEAED**.

After the system initializes, the CAE AED appears in a separate browser tab. When voice instructions are enabled, audible instructions will be heard, in addition to the textual instructions that appear on the screen.



CAE AED

Note: Enable all probes as described in *Step 4: Set up the AED*. Having probes enabled will ensure appropriate patient vitals are displayed and monitored by the equipment during the simulation.

See *Appendix C - AED Controls and Display Options* for more information.

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CAE VENTILATOR AND CAE TRANSPORT VENTILATOR

Listed below are the steps to use the virtual ventilation equipment included with Maestro Evolve.

Note: Only one ventilation device may be used at a time. For example, if the Transport Ventilator is active, and the Ventilator or Anesthesia Machine is powered on, the Transport Ventilator will automatically power off.

Ventilation Equipment Steps	
1	Set up the patient for ventilation
2	Set up the Ventilator
3	Launch the Ventilator
4	Set up the Transport Ventilator
5	Launch the Transport Ventilator

Step 1: Set up the Patient

To perform a realistic and effective ventilation simulation, parameters are set to reflect a patient's condition that would require ventilation. This section provides information on modifying and activating the appropriate parameters.

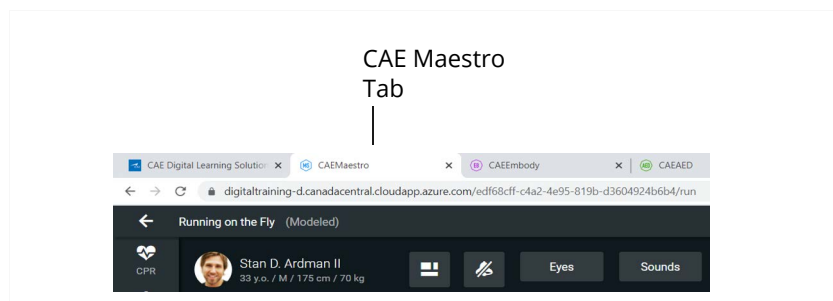
- These settings should be set in CAE Maestro prior to powering on and using the ventilator.
- The same suggested patient parameters may be used for CAE Ventilator or CAE Transport Ventilator.

To switch windows:

1. If a virtual device window (e.g. the Patient Monitor) is open, minimize the device window.

OR

At the top of the browser window, select the **CAE Maestro** tab.

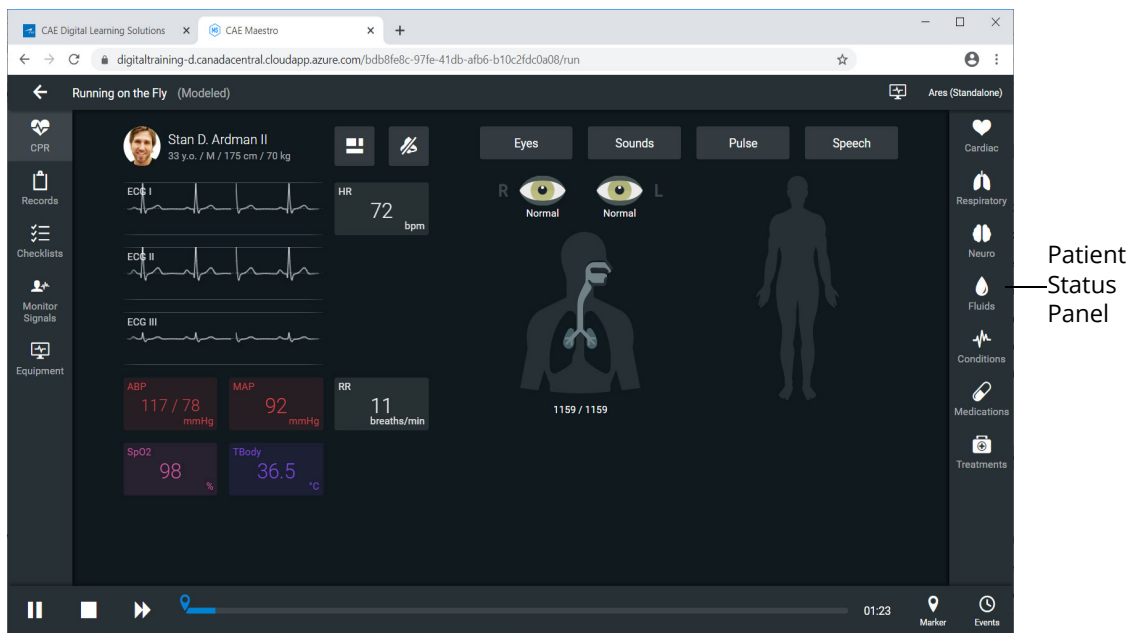


Browser Window Tabs

Tip: In Windows 10, hold down on the **ALT** key and press the **Tab** key to alternate between open windows.

Note: Select a modeled simulation for the Ventilator to function appropriately.

The SCE Run Screen appears.



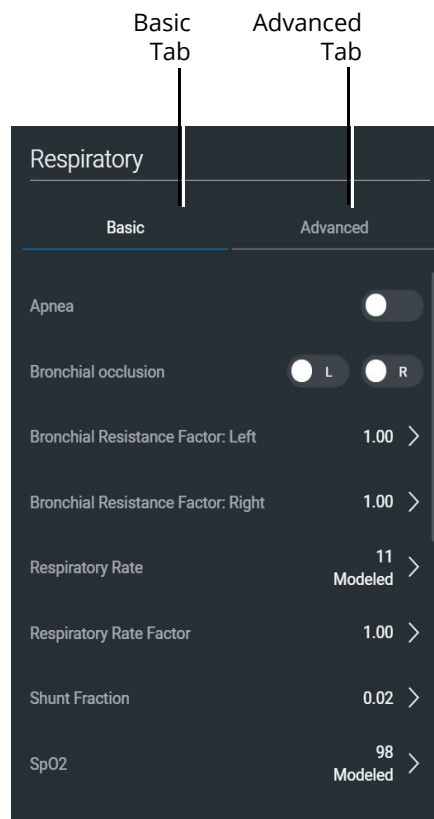
SCE Run Screen

- From the Patient Status panel on right side of the SCE Run screen, click the **Respiratory Parameters** icon.



Respiratory Parameters Icon

The Respiratory Parameters panel appears.



Respiratory Parameters Panel

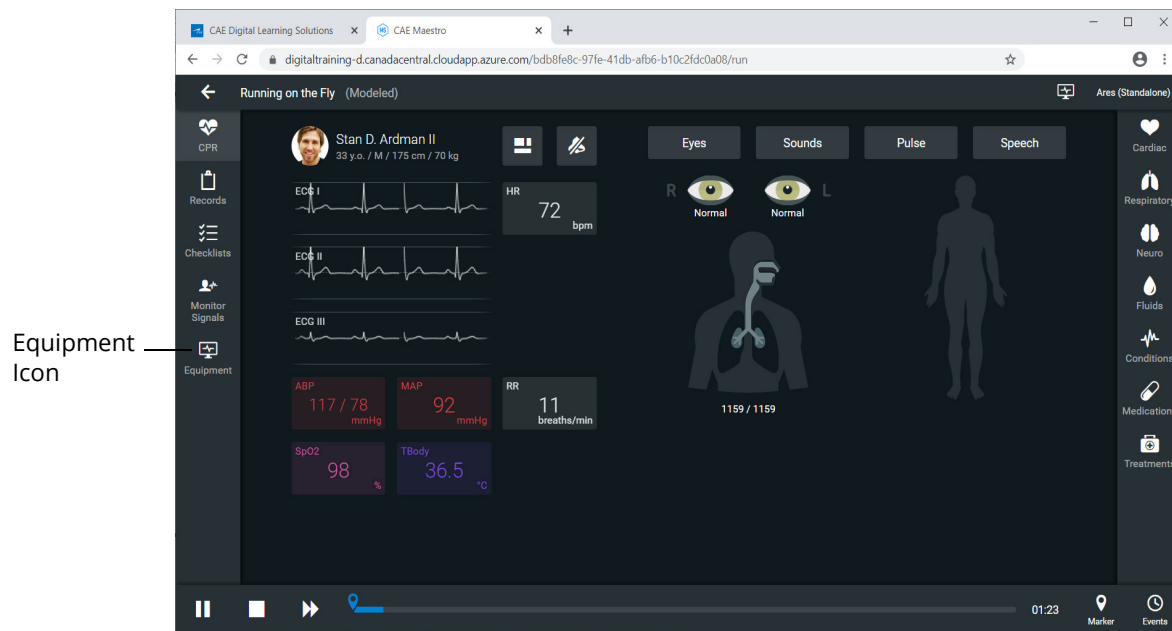
3. Set the following Respiratory Parameters in Maestro :

Respiratory Parameters		Setting
Basic	Bronchial Resistance Factors: Left	5.0
	Bronchial Resistance Factors: Right	5.0
	Apnea	<ul style="list-style-type: none"> • For testing <i>control</i> mode, enable Apnea. • For testing <i>support</i> mode, disable Apnea.
Advanced	Chest Wall Compliance Factor	.50
	Lung Compliance Factor: Left	.50
	Lung Compliance Factor: Right	.50

Step 2: Set up the Ventilator

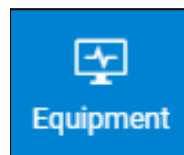
Prior to running a simulation using the Ventilator, there are setup steps involved; selecting probes and enabling the power as follows:

1. From the left panel of the SCE Run Screen, select the **Equipment** icon.



Equipment
Icon

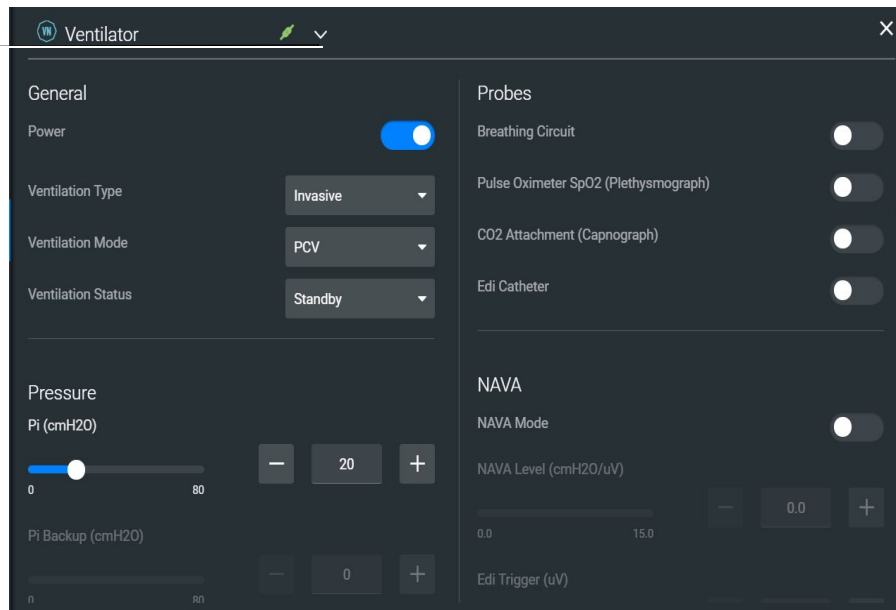
SCE Run Screen



Equipment Icon

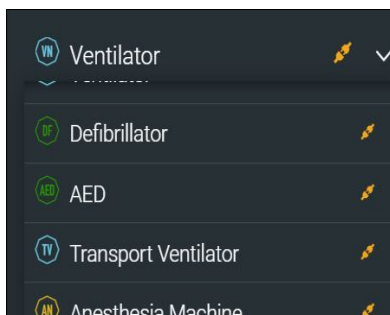
The Equipment parameters appear.

Select Equipment Parameters drop-down



Equipment Parameters

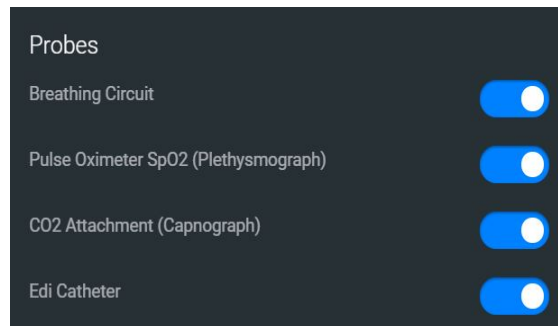
2. Click the **Select Equipment Parameters** drop-down indicator to the right of the equipment type at the top of the list.



Select Equipment Parameters Drop-Down

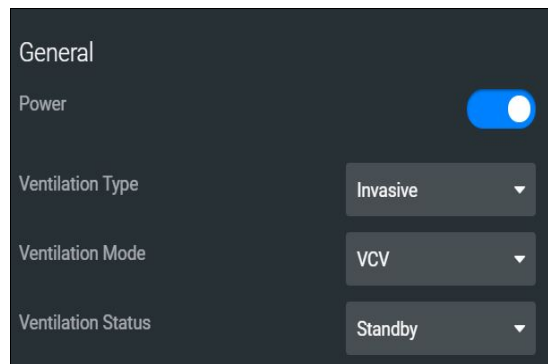
3. Scroll down the list and select **Ventilator**.

- From the Probes options, **enable** the following **probes**:
 - Breathing Circuit
 - Pulse Oximeter SPO₂
 - CO₂ Attachment



Ventilator Probes Enabled

- From the General parameters, verify that the **Power** indicator is **enabled**.



General Equipment Parameters - Power Enabled

Note: Once the power is enabled to the ventilator, the simulation connection status will change at the top of the Equipment parameters panel. This same status icon will be displayed at the top of the ventilator screen, when running the ventilator.



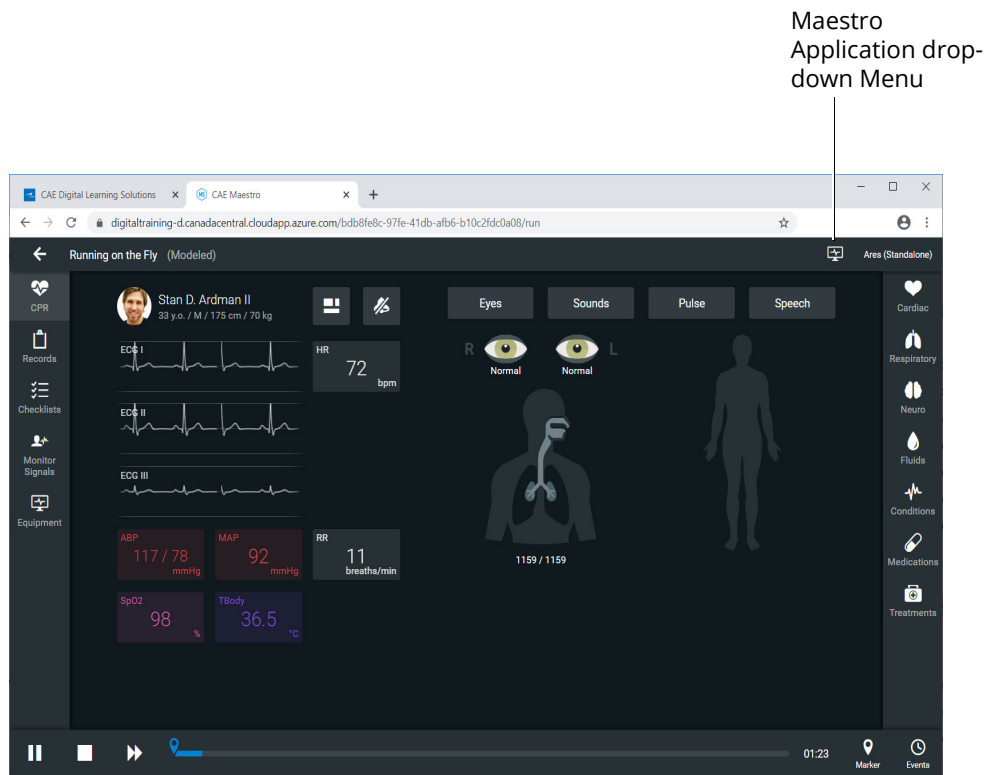
Simulation Connection Status

- Click the **X** in the upper-right corner to close the Equipment parameters panel and return to the SCE Run screen.

Step 3: Launch the Ventilator

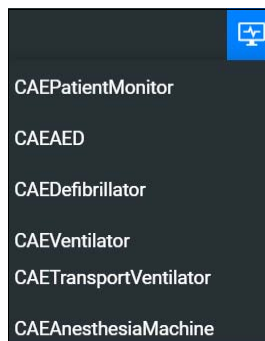
To launch the Ventilator:

1. From the upper-right corner of the SCE Run screen, select the Maestro Application drop-down menu.



SCE Run Screen

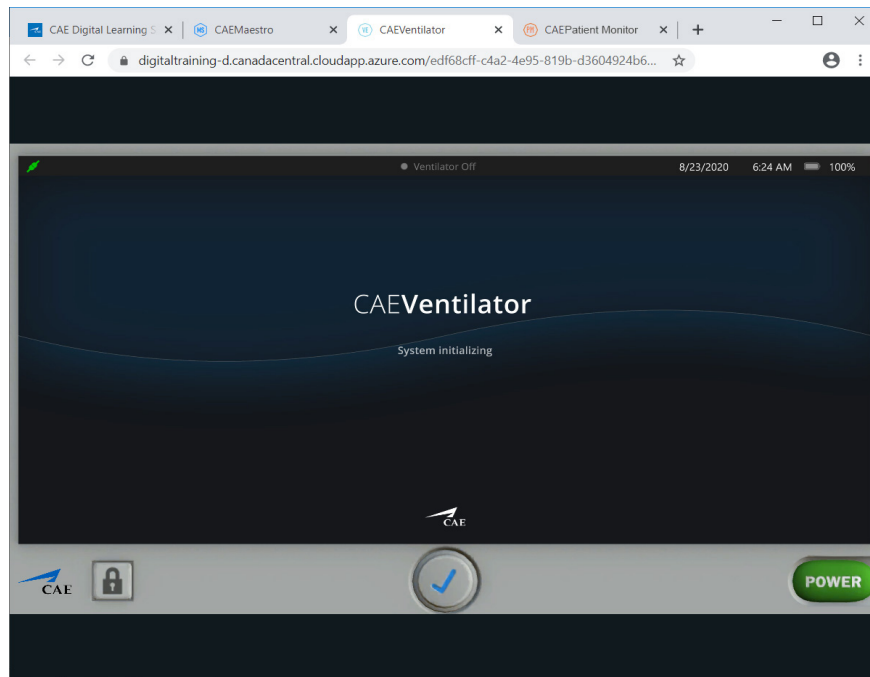
The Maestro Application drop-down menu appears.



Maestro Application Drop-Down Menu

2. From the drop-down menu, select **CAEVentilator**.

The System Initializing Screen will appear in a separate browser tab.



System Initializing Screen

3. Arrange the open browser tabs for the most effective viewing:

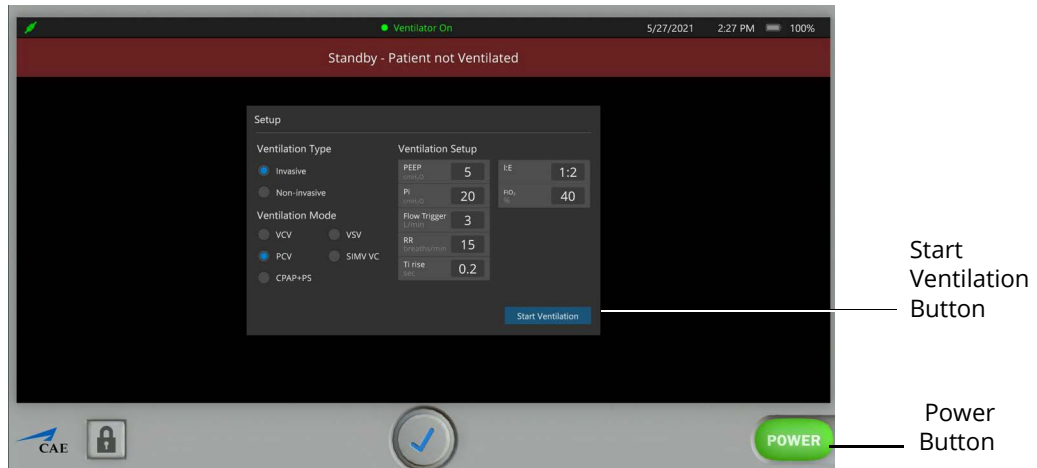
When using dual monitors:

- Position the mouse pointer on the **CAEVentilator** browser tab.
- Drag the Ventilator window to the second monitor display, leaving the Maestro Evolve window in the first display.

When using a single monitor:

- Restore or resize the Maestro Evolve screen so that some of the Windows desktop is visible.
- Position the mouse pointer on the **CAEVentilator** tab in the browser window.
- Drag the Ventilator window outside of the active browser window. The Ventilator will appear in a separate window.

After the system has initialized, the Ventilator Setup Standby screen appears.



Ventilator Setup Standby Screen

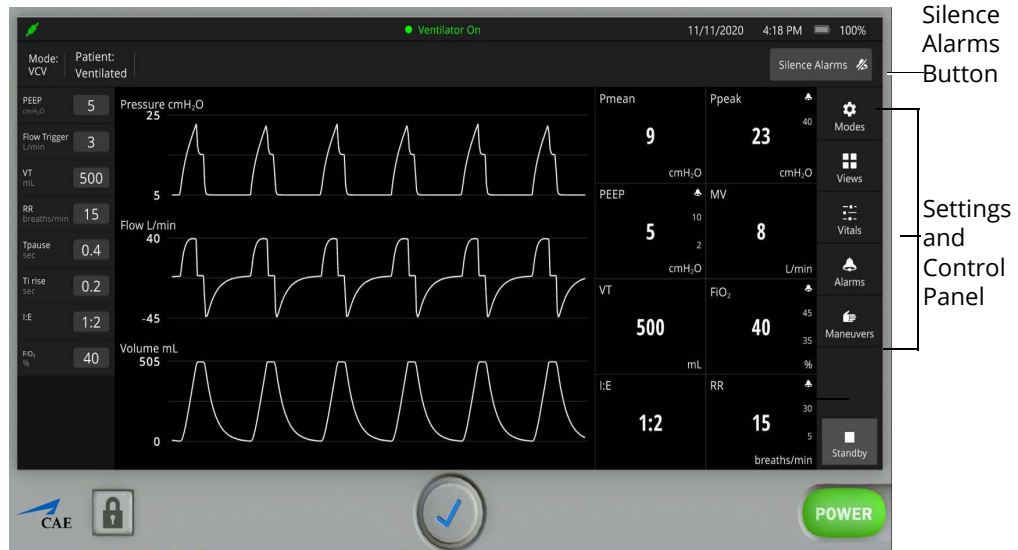
4. Change the parameter values as needed. After positioning the cursor in one of the parameter value fields, and selecting the value for editing, additional control buttons will appear at the bottom of the screen.



Value Select Buttons

5. Use the **plus (+)** and **minus (-)** buttons at the bottom center of the screen to adjust the value lower or higher as needed.
6. Click the **Check mark symbol** in the center to finalize the change in value.
7. When finished making all changes on the Setup screen, click the **Start Ventilation** button.

The Ventilator screen appears.



Ventilator Screen - Ventilator On

To silence the alarms, from the upper-right corner of the ventilator screen, click the **Silence Alarms** button.



Silence Alarms Button

There are additional settings that represent a typical ventilator used in a clinical setting. Status and parameters are displayed on the Ventilator screen based on options selected from the Settings and Controls panel at the right of the screen. Options to select from are:

- Modes
- Views
- Vitals
- Alarms
- Maneuvers

Refer to *Appendix D- Ventilator Controls and Display Options* for further details.

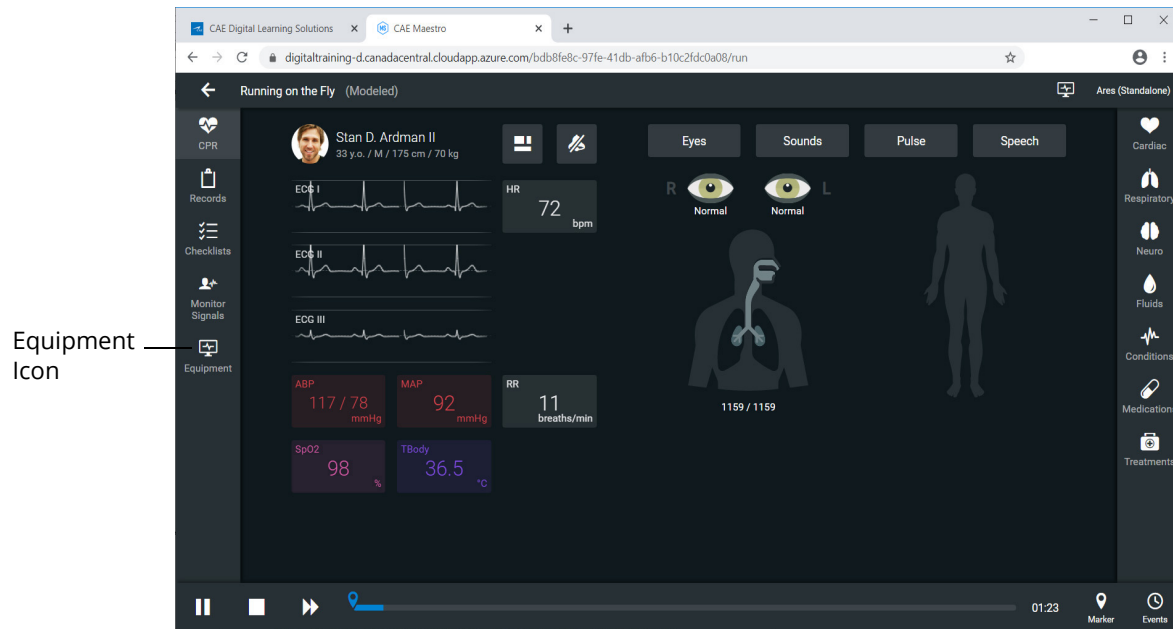
Note: Enable all probes as described in *Step 2: Set up the Ventilator*. Having probes enabled will ensure appropriate patient vital signs are displayed and monitored by the equipment during the simulation.

The ventilator screen may be minimized and continue to run during the simulation. This is especially helpful if using a single monitor, allowing for a full view of the Maestro Evolve SCE Run screen and the patient status display.

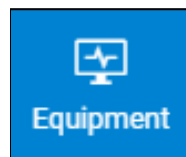
Step 4: Set up the Transport Ventilator

Prior to running a simulation using the Transport Ventilator, there are setup steps involved; selecting probes and enabling the power as follows:

1. From the left panel of the SCE Run Screen, select the **Equipment** icon.



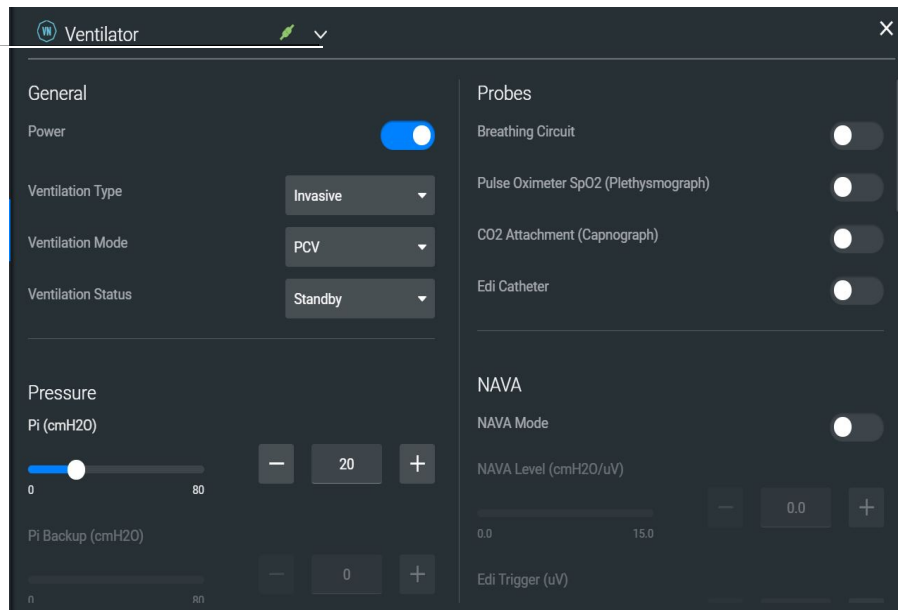
SCE Run Screen



Equipment Icon

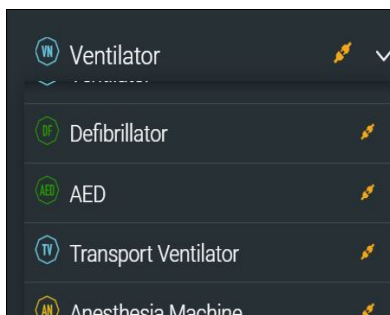
The Equipment parameters appear.

Select
Equipment
Parameters
drop-down



Equipment Parameters

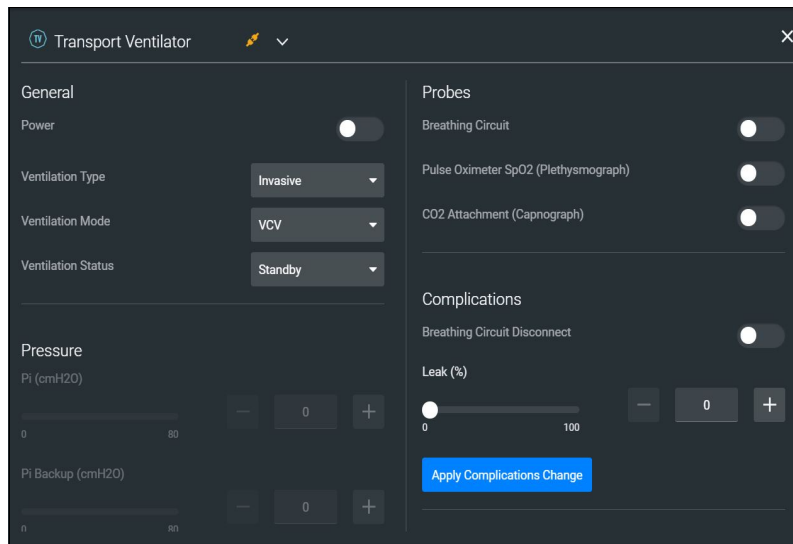
2. Click the **Select Equipment Parameters** drop-down indicator to the right of the equipment type at the top of the list.



Select Equipment Parameters Drop-Down

3. Scroll down the list and select **Transport Ventilator**.

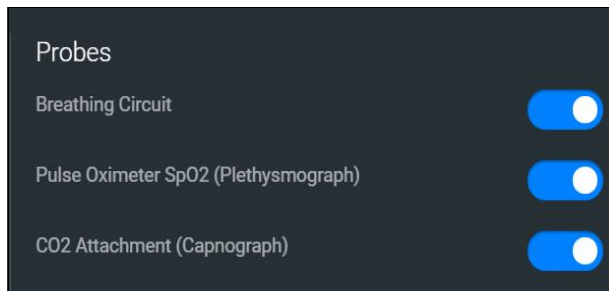
The Transport Ventilator parameters appear for editing.



Transport Ventilator Equipment Parameters

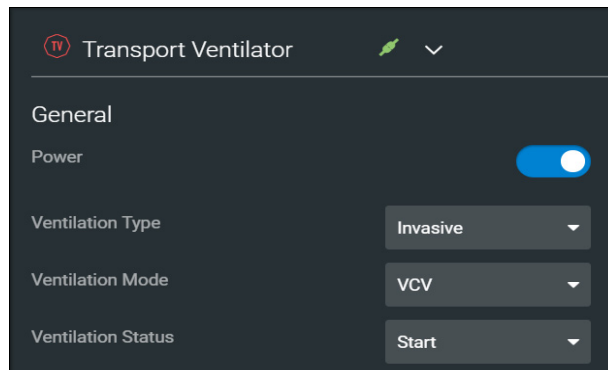
4. From the Probes options, **enable** the following **probes**:

- Breathing Circuit
- Pulse Oximeter SPO₂
- CO₂ Attachment



Transport Ventilator Probes Enabled

- From the General parameters, verify that the **Power** indicator is **enabled**.



General Equipment Parameters - Power Enabled

Note: Once the power is enabled to the transport ventilator, the simulation connection status will change at the top of the Equipment parameters panel. This same status icon will be displayed at the top of the transport ventilator screen, when running the ventilator.



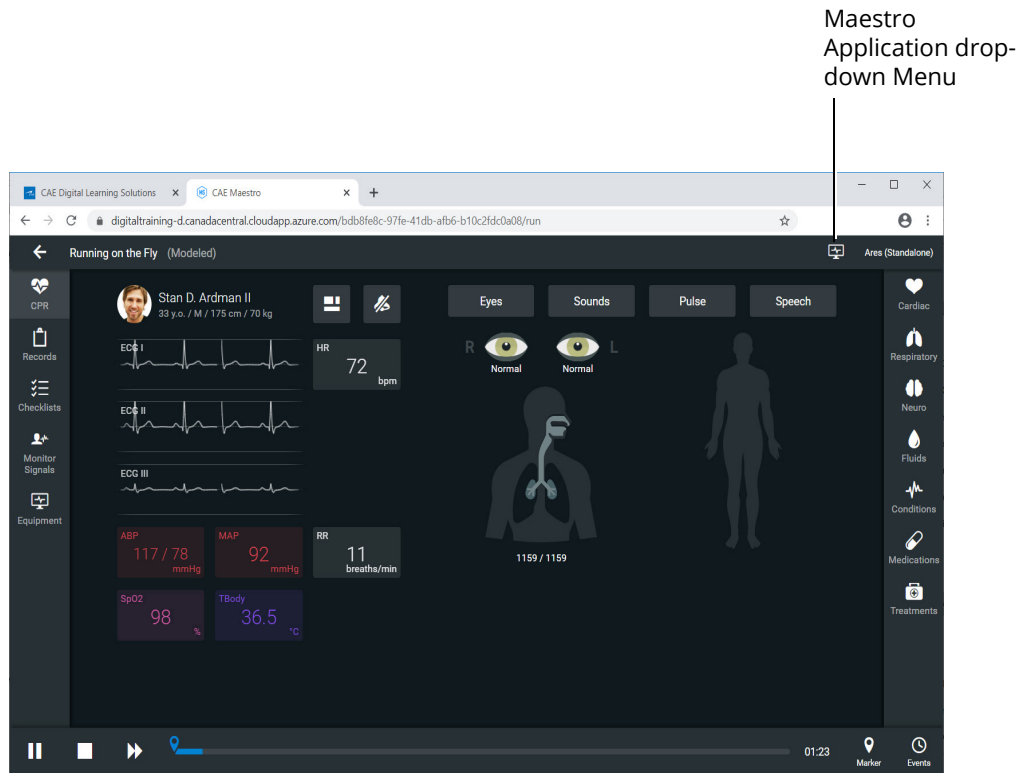
Simulation Connection Status

- Click the **X** in the upper-right corner to close the Equipment parameters panel and return to the SCE Run screen.

Step 5: Launch the Transport Ventilator

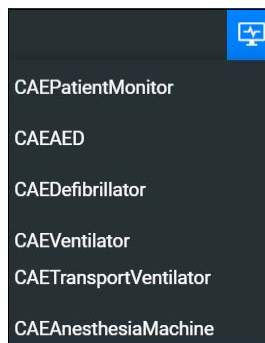
To launch the Transport Ventilator:

1. From the upper-right corner of the SCE Run screen, select the Maestro Application drop-down menu.



SCE Run Screen

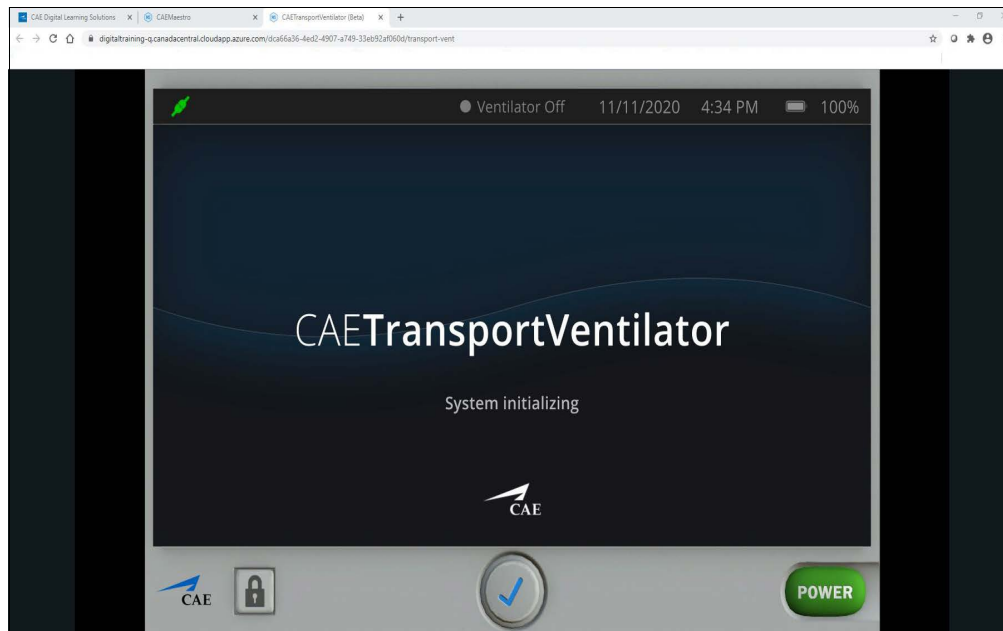
The Maestro Application drop-down menu appears.



Maestro Application Drop-Down Menu

2. From the drop-down menu, select **CAETransportVentilator**.

The System Initializing Screen will appear in a separate browser tab.



System Initializing Screen

3. Arrange the open browser tabs for the most effective viewing:

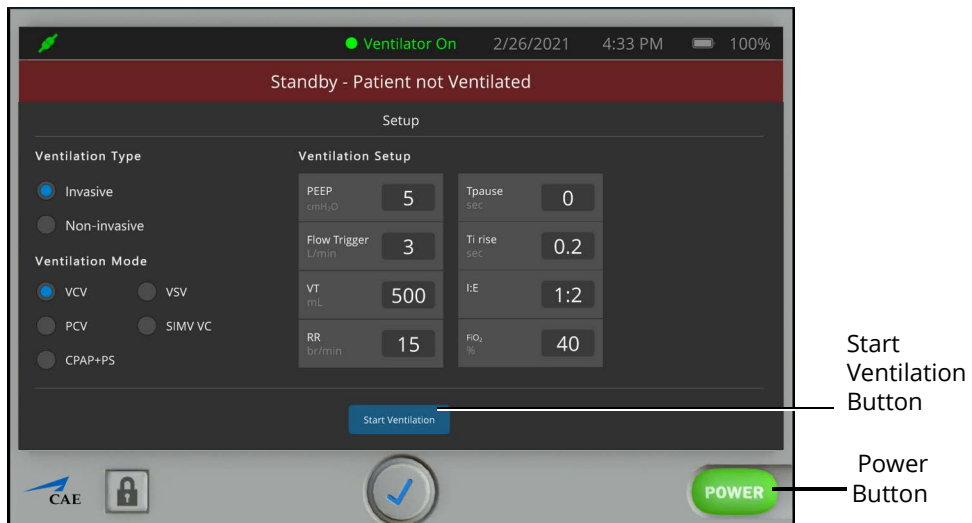
When using dual monitors:

- a. Position the mouse pointer on the **CAETransport Ventilator** browser tab.
- b. Drag the Transport Ventilator window to the second monitor display, leaving the Maestro Evolve window in the first display.

When using a single monitor:

- a. Restore or resize the Maestro Evolve screen so that some of the Windows desktop is visible.
- b. Position the mouse pointer on the **CAETransport Ventilator** tab in the browser window.
- c. Drag the Transport Ventilator window outside of the active browser window. The Ventilator will appear in a separate window.

After the system has initialized, the Transport Ventilator Setup Standby screen appears.



Transport Ventilator Setup Standby Screen

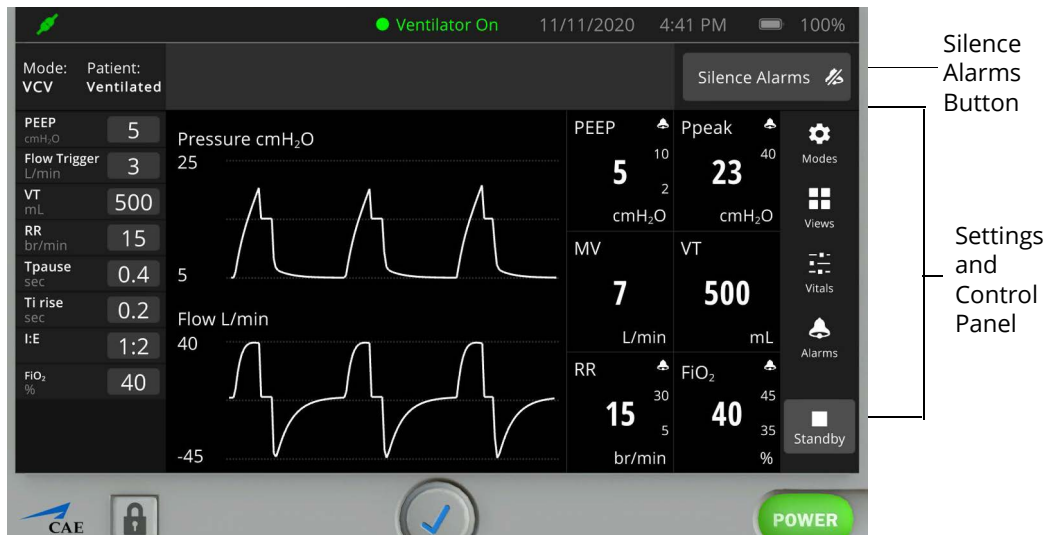
4. Change the parameter values as needed. After positioning the cursor in one of the parameter value fields, and selecting the value for editing, additional control buttons will appear at the bottom of the screen.



Value Select Buttons

5. Use the **plus (+)** and **minus (-)** buttons at the bottom center of the screen to adjust the value lower or higher as needed.
6. Click the **Check mark symbol** in the center to finalize the change in value.
7. When finished making all changes on the Setup screen, click the **Start Ventilation** button.

The Ventilator screen will appear.



Transport Ventilator Screen - Ventilator On

To silence the alarms, from the upper-right corner of the transport ventilator screen, click the **Silence Alarms** button.



Silence Alarms Button

There are additional settings that represent a typical ventilator used in a clinical setting. Status and parameters are displayed on the Ventilator screen based on options selected from the Settings and Controls panel at the right of the screen. Options to select from are:

- Modes
- Views
- Vitals
- Alarms

Refer to *Appendix E- Transport Ventilator Controls and Display Options* for further details.

Note: Enable all probes as described in *Step 4: Set up the Transport Ventilator*. Having probes enabled will ensure appropriate patient vital signs are displayed and monitored by the equipment during the simulation.

The transport ventilator screen may be minimized and continue to run during the simulation. This is especially helpful if using a single monitor, allowing for a full view of the Maestro Evolve SCE Run screen and the patient status display.

CAE ANESTHESIA MACHINE

Listed below are the steps to get started using CAEAnesthesia Machine.

Note: Only one ventilation device may be used at a time. For example, if the Transport Ventilator is active, and the Ventilator or Anesthesia Machine is powered on, the Transport Ventilator will automatically power off.

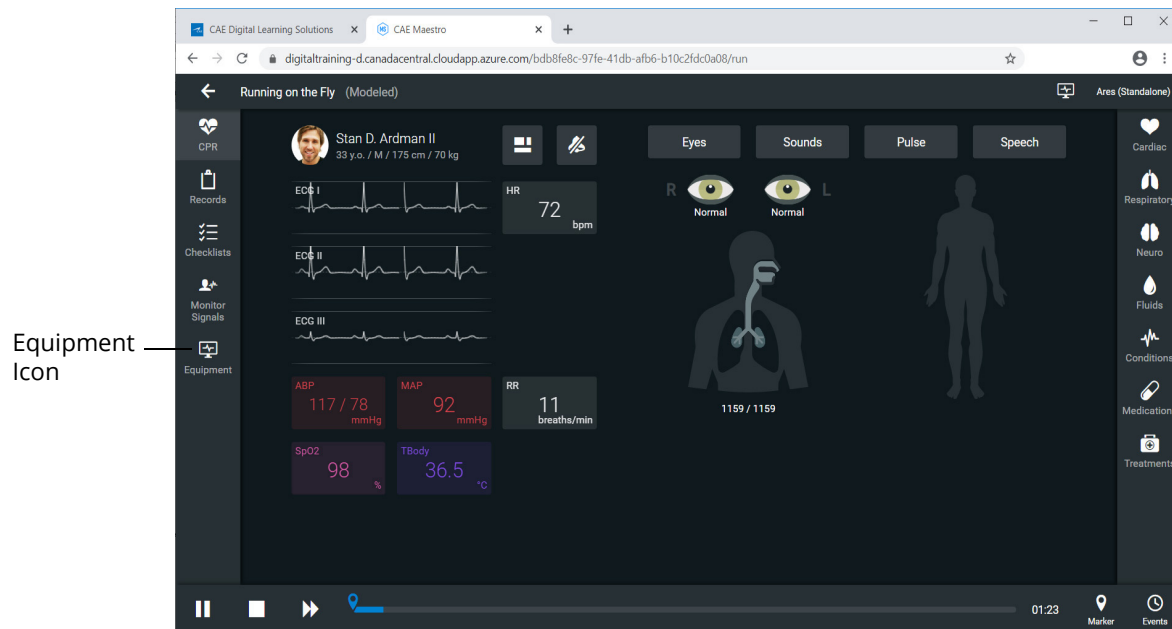
Anesthesia Steps	
1	Set up the Anesthesia Machine
2	Launch the Anesthesia Machine

Note: Select a modeled simulation for the Anesthesia Machine to function appropriately.

Step 1: Set up the Anesthesia Machine

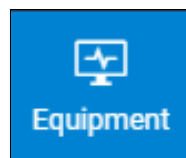
Prior to running the Anesthesia Machine, there are setup steps involved; selecting probes and setting gas parameters as follows:

1. From the left panel of the SCE Run Screen, select the **Equipment** icon.



Equipment
Icon

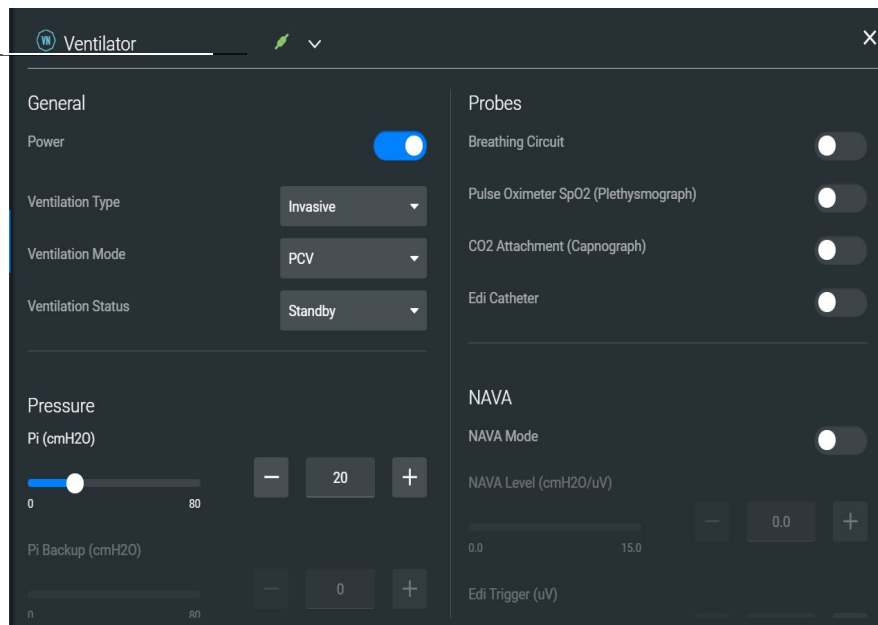
SCE Run Screen



Equipment Icon

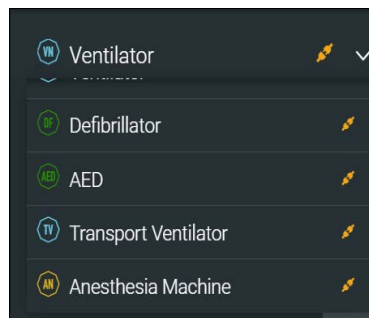
The Equipment parameters appears.

Select Equipment Parameters drop-down



Equipment Parameters

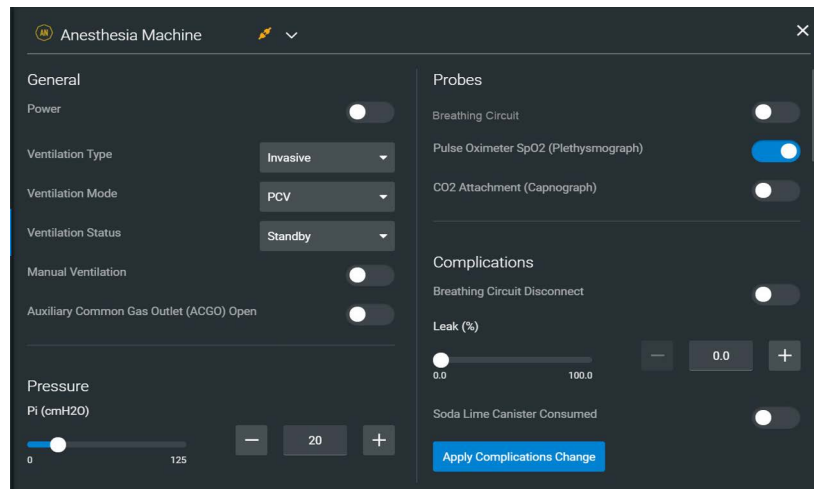
2. Click the **Select Equipment Parameters** drop-down indicator to the right of the equipment type at the top of the list.



Select Equipment Parameters Drop-Down

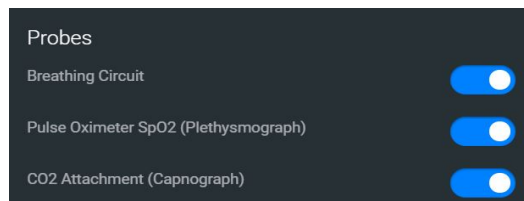
3. Scroll down the list and select **Anesthesia Machine**.

The Anesthesia Machine parameters appear for editing.



Anesthesia Machine Equipment Parameters

- From the Probes options, **enable** the following probes:
 - Breathing Circuit
 - Pulse Oximeter SPO₂
 - CO₂ Attachment



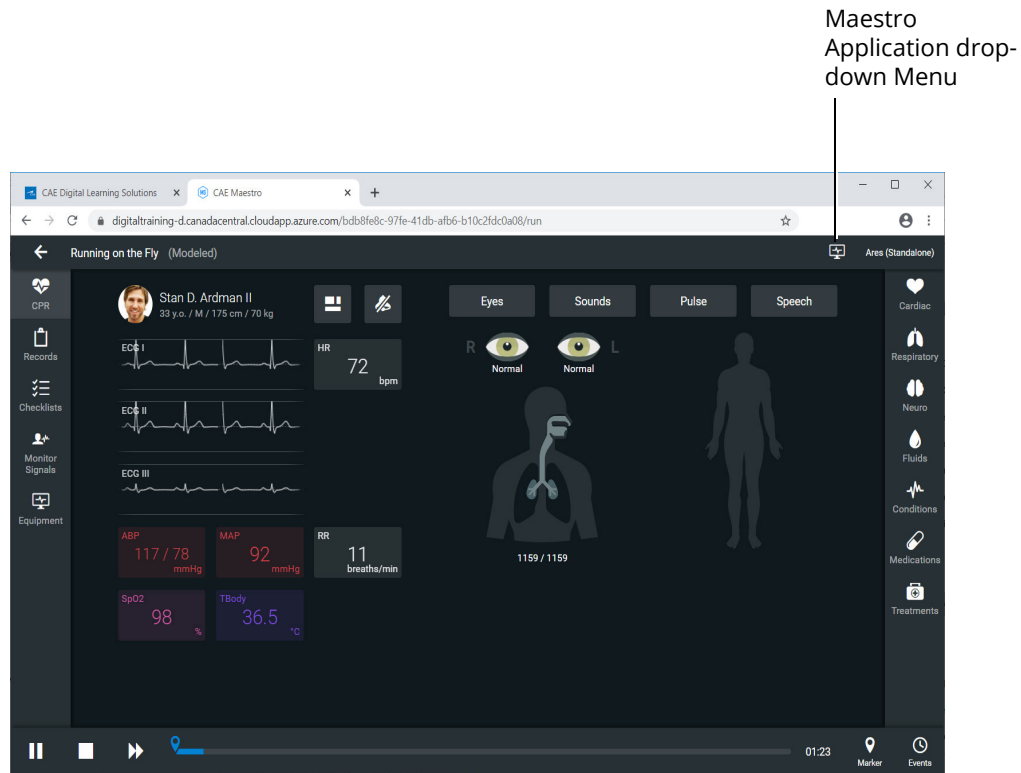
Anesthesia Probes Enabled

- Click the **X** to close the Equipment parameters panel and return to the SCE Run screen.

Step 2: Launch the Anesthesia Machine

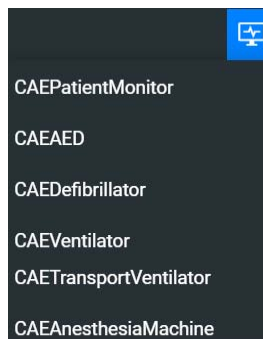
To launch the Anesthesia Machine:

1. From the upper-right corner of the SCE Run screen, select the Maestro Application drop-down menu.



SCE Run Screen

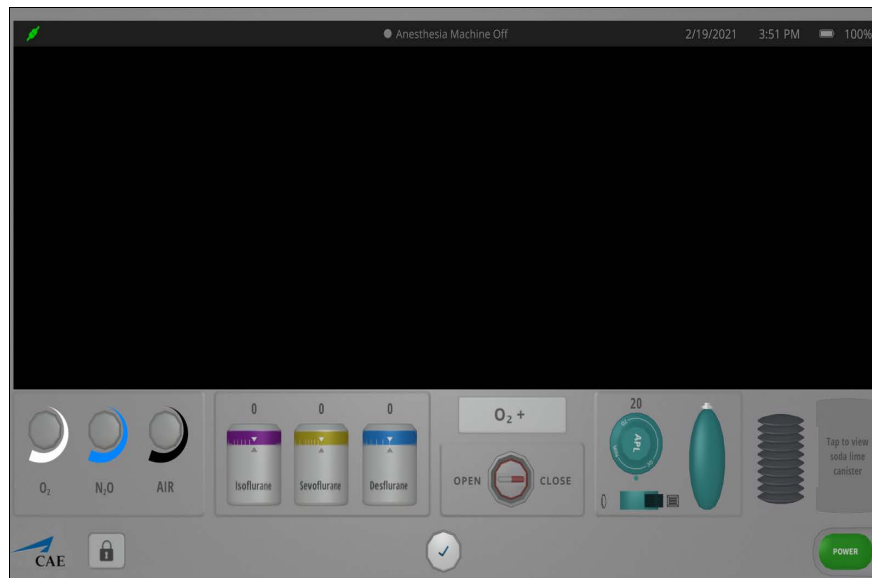
The Maestro Application drop-down menu appears.



Maestro Application Drop-Down Menu

2. From the drop-down menu, select **CAEAnesthesiaMachine**.

The Anesthesia Machine Screen will appear in a separate browser tab.



Anesthesia Machine Screen - Machine Off

3. Arrange the open browser tabs for the most effective viewing:

When using dual monitors:

- Position the mouse pointer on the **CAEAnesthesia Machine** browser tab.
- Drag the Anesthesia Machine window to the second monitor display, leaving the Maestro Evolve window in the first display.

When using a single monitor:

- Restore or resize the Maestro Evolve screen so that some of the Windows desktop is visible.
- Position the mouse pointer on the **CAEAnesthesia Machine** tab in the browser window.
- Drag the Anesthesia Machine window outside of the active browser window. The Anesthesia Machine will appear in a separate window.

Power On the Anesthesia Machine

To turn on the Anesthesia Machine, click on the **Power** button in the lower-right corner of the Anesthesia Machine screen.



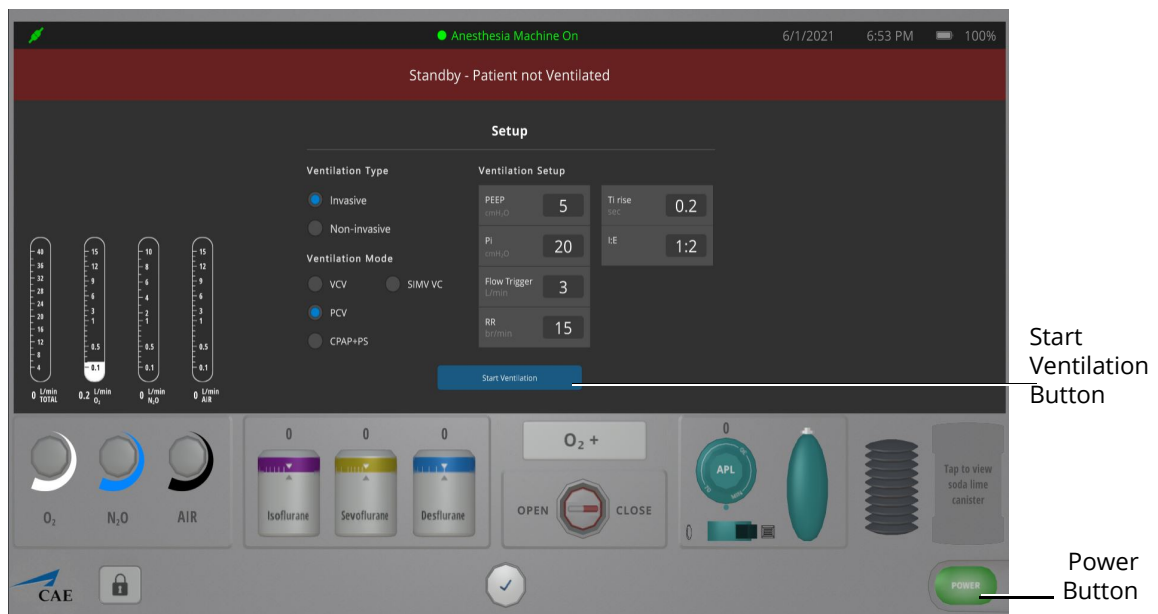
Power Button

The System Initializing Screen will appear in a separate browser tab.



System Initializing Screen

After the system has initialized, the Anesthesia Setup Standby screen appears.



Anesthesia Setup Standby Screen

Setting Ventilation Parameter Values

To change the ventilation parameter values:

1. Select the value for editing by positioning the cursor in one of the parameter value fields.
Additional control buttons appear at the bottom of the screen.

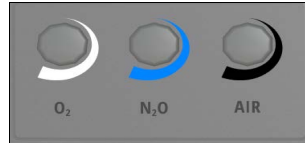


Value Select Buttons

2. Use the + and - buttons at the bottom center of the screen to adjust the value lower or higher as needed.
3. Click the **Check mark symbol** in the center to finalize the change in value.

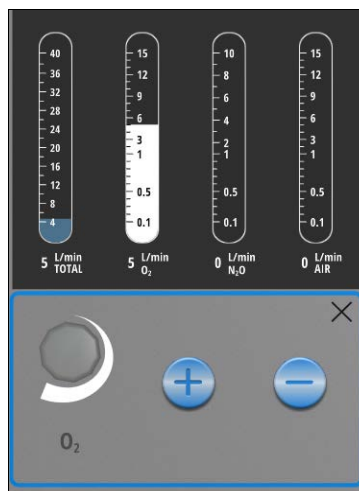
Setting Gas Flow Volume

To set gas flow volume:



Gas Controls

1. From the Gas controls on the lower-left of the Anesthesia screen, click on the O₂ control.
The O₂ controls are activated.
2. Click on the **plus (+)** control until the O₂ flow gauge displays 5 L per minute. Use the **minus (-)** control if necessary to decrease the value.



O₂ Gas Set at 5.0

3. Click on the **X** to close the O₂ control.
4. Click on the N₂O control.
5. Adjust the N₂O flow to 1 L per minute.
6. Click on the **X** to close the N₂O control.
7. Click on the Air control.
8. Adjust the Air flow gauge to 10 L per minute.
9. Click on the **X** to close the Air flow control.

Gauges will reflect volumes set.



Gases Flow Volume Set

Setting Anesthetic Agent Volumes

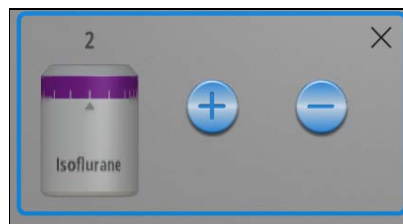
To set anesthetic agent volume percentages:

1. From the lower-left of the Anesthesia screen, select one of the anesthetic agents. In this example, **isoflurane** is selected.



Anesthetic Agents

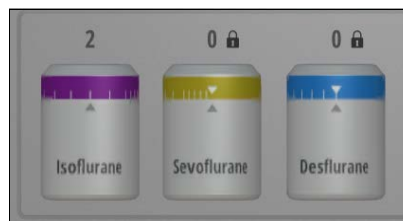
The anesthetic agent controls will appear.



Isoflurane Controls

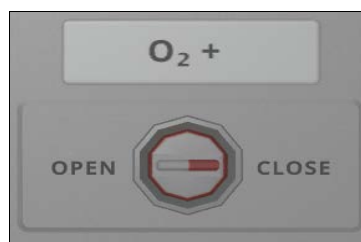
2. Click on the **plus (+)** to increase the amount of the anesthetic agent. In this example, **Isoflurane** is increased to 2 (2.0%). Depending upon the agent selected, the ranges will vary.
3. Click on the **X** to close the Anesthetic Agents Controls window.

The Anesthetic Agents that were not selected will be shown locked, preventing the administration of additional agents. The agent chosen will display the value previously set using the controls.



Anesthetic Agents - Set and Locked

O₂ Flush and Auxillary Common Gas Outlet



O₂ Flush

Clicking on the **O₂ + Flush** control pushes 100% O₂ into the breathing circuit.

To open and close the Auxillary Common Gas Outlet (ACGO):

1. Click on the **ACGO Valve** control.

The valve control is activated.



ACGO Valve Control Closed

2. Click on the **Open** or **Close** option.

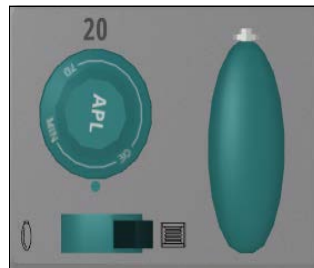
The red marker indicates the setting for the valve.

Note: If the valve is left open, the gases will not go to the main breathing circuit causing erratic patient vitals on the Maestro Run Screen display.

3. Click on the **X** to close the ACGO valve control.

Manual Ventilation Controls

On the lower-right side of the Anesthesia screen are the controls for the APL valve, the Manual Switch and the Rebreather Bag.



APL Valve, Manual Swtich and Rebreather Bag Controls

Adjusting the APL Valve

To adjust the Adjustable Pressure Limiting (APL) valve:

1. Click on the **APL Valve** control.

The valve is activated.



APL Valve Control

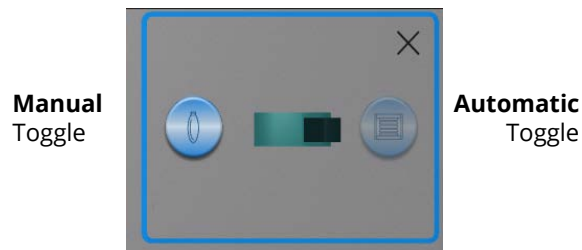
2. Click on the **plus (+) or minus (-)** option, to increase or decrease amount of pressure. The value will be displayed in the control.
3. Click on the **X** to close the APL control.

Controlling Manual Ventilation

To control manual ventilation:

1. Click on the **Manual Switch** button on the left of the control panel.

The switch control is activated.



Manual Switch Control

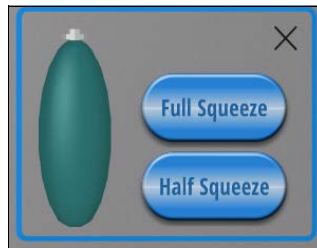
2. Click on the **Manual** or **Automatic** option.
3. Click on the **X** to close the **Manual Switch** control panel.

While the ventilation is set to manual, air may be administered using the rebreather bag.

To use the rebreather bag:

1. Click on the **Rebreather Bag** control.

The control is activated.

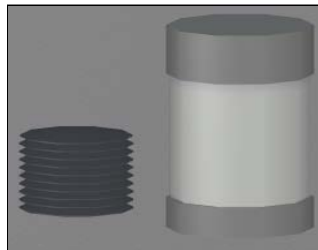


Rebreather Bag Control

2. Select **Full Squeeze** or **Half Squeeze**.
3. Click on the **X** to close the **Rebreather Bag** control.

Soda Lime Canister

The soda lime canister is a visual indicator of how much CO₂ is absorbed through the breathing circuit. If the canister is completely consumed, it will turn to purple.



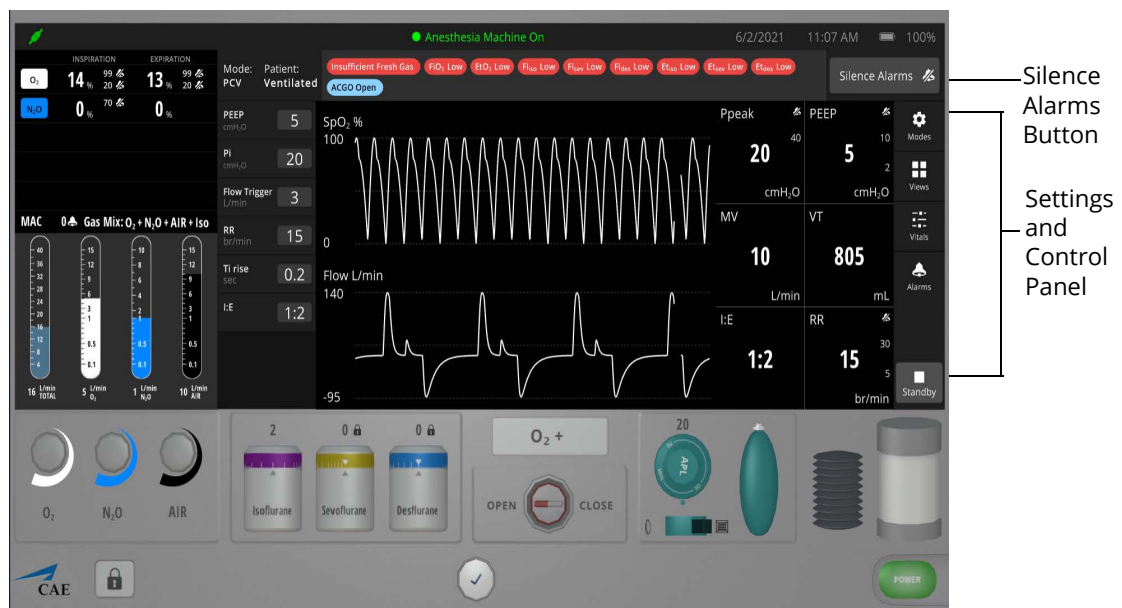
Soda Lime Canister

To view the soda lime canister, click the canister icon in the lower-right corner of the Anesthesia screen.

Start Ventilation

When finished making all changes on the Setup screen, click the **Start Ventilation** button.

The Anesthesia Machine screen will appear.



Anesthesia Machine Screen - Power On

To silence the alarms, from the upper-right corner of the ventilator screen, click the **Silence Alarms** button.



Silence Alarms Button

There are additional settings that represent a typical anesthesia machine used in a clinical setting. Status and parameters are displayed on the anesthesia screen based on options selected from the Settings and Controls panel at the right of the screen. Options to select from are:

- Modes
- Views
- Vitals
- Alarms

Refer to *Appendix F - Anesthesia Machine Controls and Display Options* for further details.

Note: Enable all probes as described in *Step 5: Set up the Anesthesia Machine*. Having probes enabled will ensure appropriate patient vital signs are displayed and monitored by the equipment during the simulation.

The Anesthesia Machine screen may be minimized and continue to run during the simulation. This is especially helpful if using a single monitor, allowing for a full view of the Maestro Evolve SCE Run screen and the patient status display.

Once the power is enabled to the anesthesia machine, the simulation connection status will change at the top of the Equipment parameters panel. This same status icon will be displayed at the top of the Anesthesia screen, when running the Anesthesia Machine.



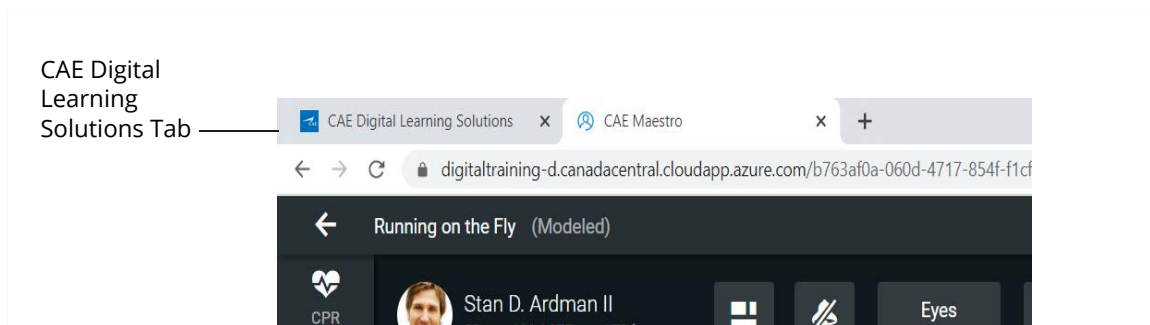
Simulation Connection Status

CAE MAESTRO™ EVOLVE EMBODY - VIRTUAL SIMULATOR

Launch Virtual Simulator

To launch the virtual simulator:

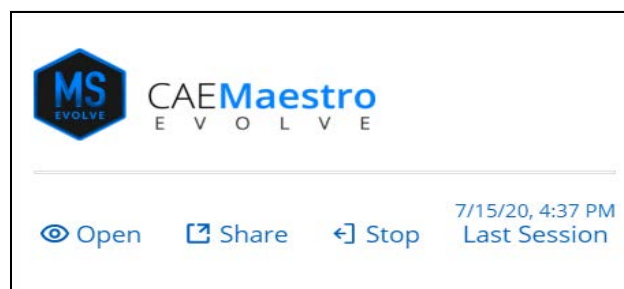
1. Keep the Maestro Evolve window open. At the top of the browser window, select the **CAE Digital Learning Solutions** tab.



Browser Window Tabs

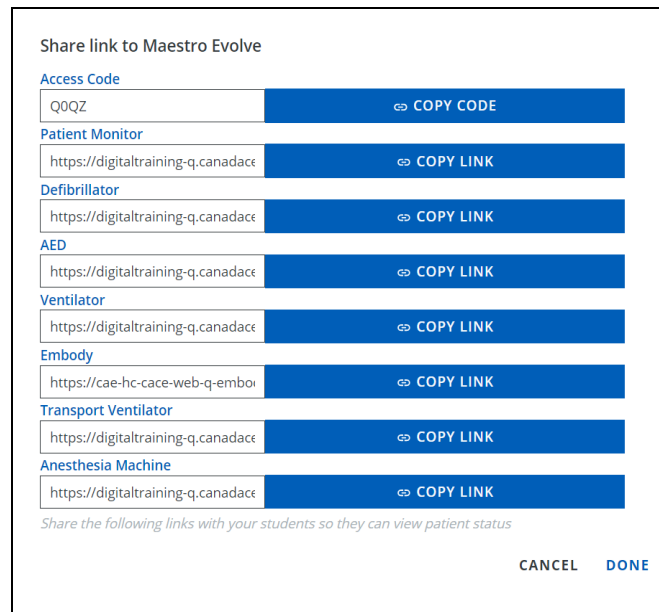
The CAE Learning Digital Solutions page appears.

2. From the Maestro Evolve Module Menu on the CAE Digital Learning Solutions page, select **Share**.



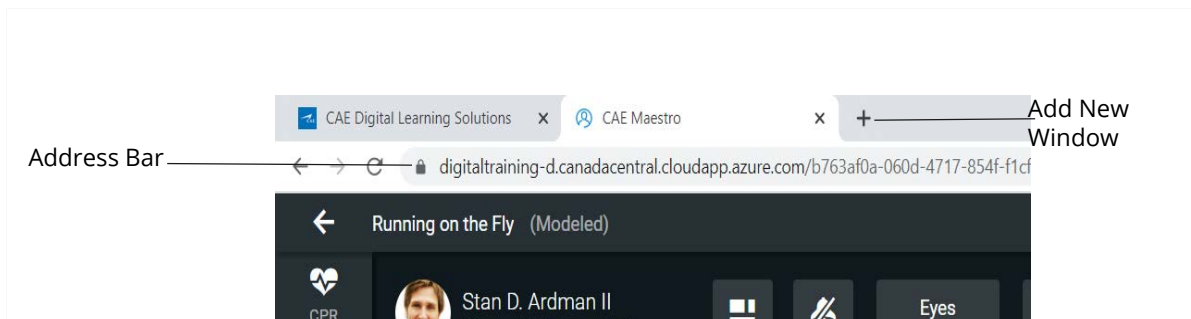
Maestro Evolve Module Menu - Open, Share, and Stop

The Share Link to Maestro Evolve window appears.



Share Link to Maestro Evolve

3. Find **Embody** in the list of options.
4. Click the **COPY LINK** button associated with Embody.
5. Click **DONE**.
6. At the top of the browser window, select the **+** to open a new window.

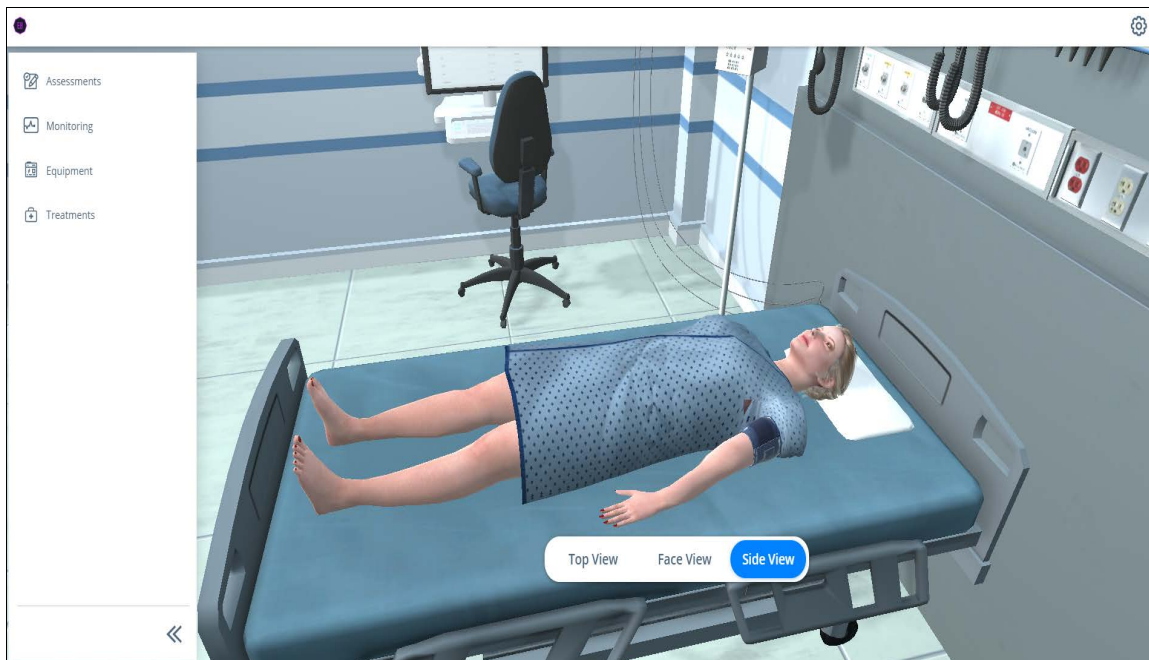


Browser Window Tabs

7. In the blank address bar of the new window, paste the copied link from Maestro Evolve and press Enter.

Note: This can be done by positioning the cursor in the address bar and using the keyboard shortcut **CTRL+V**.

The CAEEmbody virtual simulator appears in a separate browser tab.



CAE Embody

Note: If the chosen simulator was a simulator other than Embody, the same steps would be followed to launch the virtual simulator in a separate browser window.

Embody Features

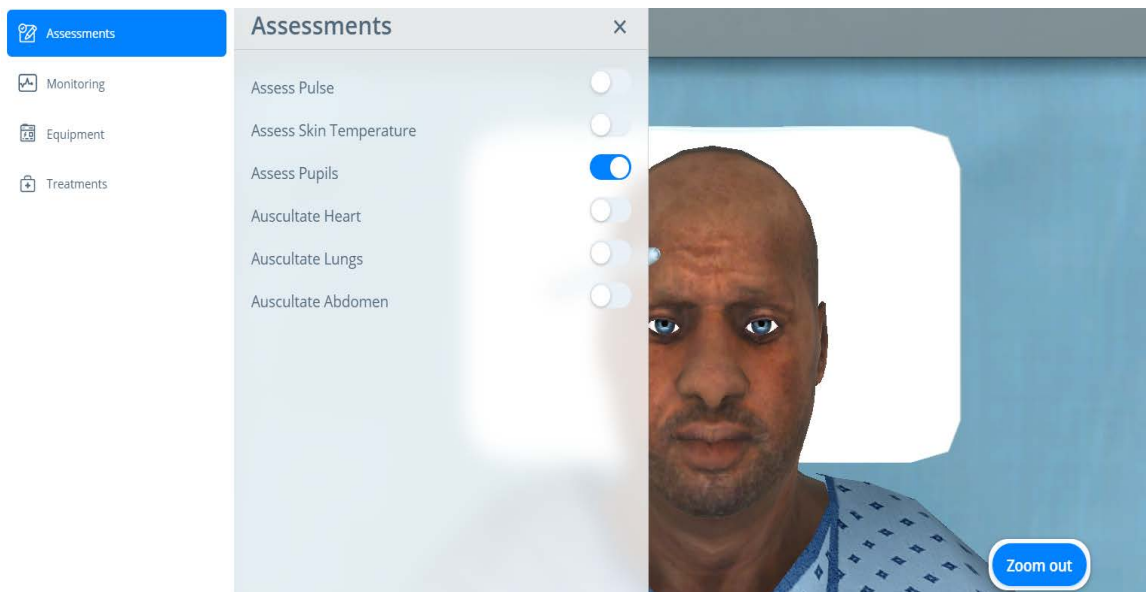
Features are available for the learner to assess, monitor, and treat the virtual patient. The following are options available from the panel at the left side of the Embody screen:

- Assessments
- Monitoring
- Equipment
- Treatments

Assessments

Selecting Assessments provides the following options:

- Pulse
- Skin Temperature
- Pupils
- Heart
- Lungs
- Abdomen



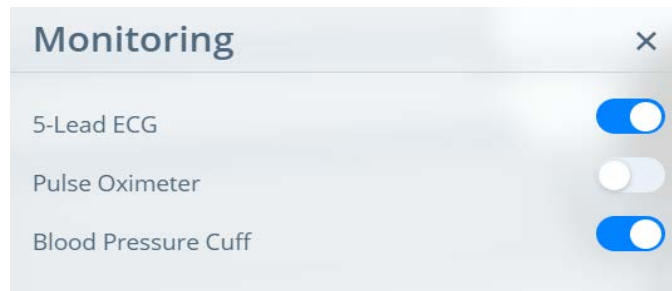
Assessment Options

In the example shown, the Assess Pupils option is toggled on. The patient view is modified so the pupils are more visible and a penlight is provided for use during the assessment. Click on the **X** to close the Assessments options panel, providing a more complete view of the patient.

Monitoring

Selecting Monitoring provides the following options:

- 5-Lead ECG
- Pulse Oximeter
- Blood Pressure Cuff



Monitoring Options

Equipment

Equipment options include the virtual equipment applications found in Maestro and bed calibration options.



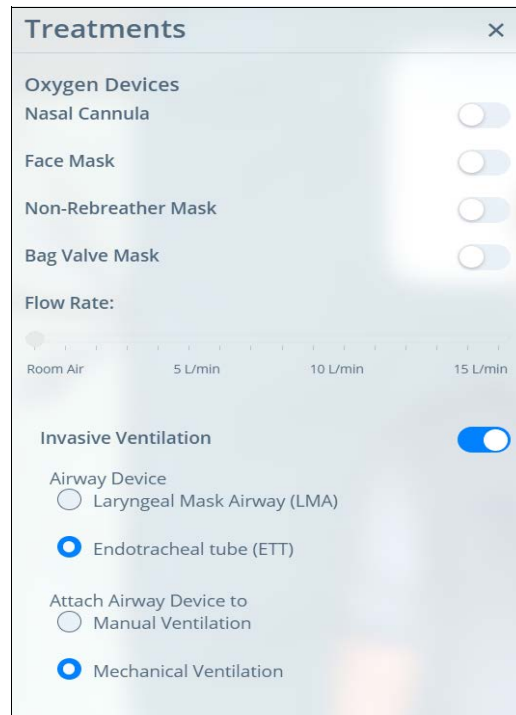
Equipment Options

Treatments

Selecting Treatments provides the following options:

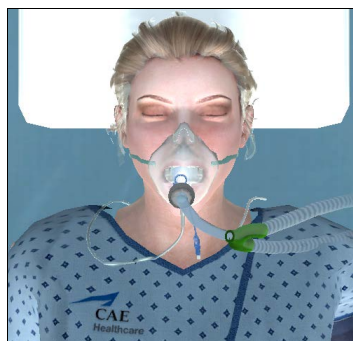
- Oxygen Devices
- Noninvasive or Invasive Ventilation

Selecting invasive or noninvasive will determine the enabled respiratory treatments.



Treatment Options

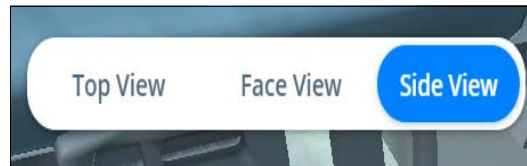
After selecting and enabling treatment, the virtual patient will appear with the selected device. In the following example the patient is displayed with the Mechanical Ventilator.



Patient with Mechanical Ventilator

Change Patient View

The view of the patient may be adjusted by selecting any of the buttons in the right-center of the Embody screen.



Patient View Buttons

When assessment options are chosen which automatically provide close up views of the patient, the standard patient view buttons are replaced by a **Zoom Out** option.

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GETTING STARTED WITH SIMULATED CLINICAL EXPERIENCES

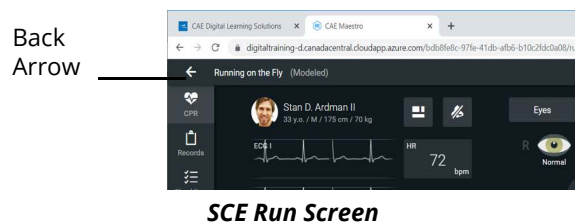
Maestro Evolve provides SCEs (Simulated Clinical Experiences), creating real-world healthcare scenarios that enhance the learning experience.

Select an SCE

From the SCE Manager, various predefined simulations may be selected to run.

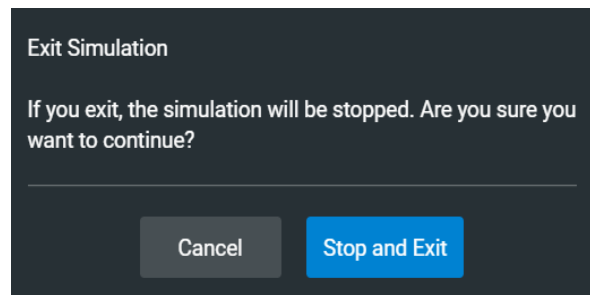
To run an SCE from the SCE Manager:

1. In the event a simulation is currently running, exit the simulation:
 - a. Click the **back arrow** at the left side of the SCE Run screen.



SCE Run Screen

The Exit Simulation prompt will appear.



Exit Simulation

- b. Click **Stop and Exit**.

The Maestro Home screen will appear.

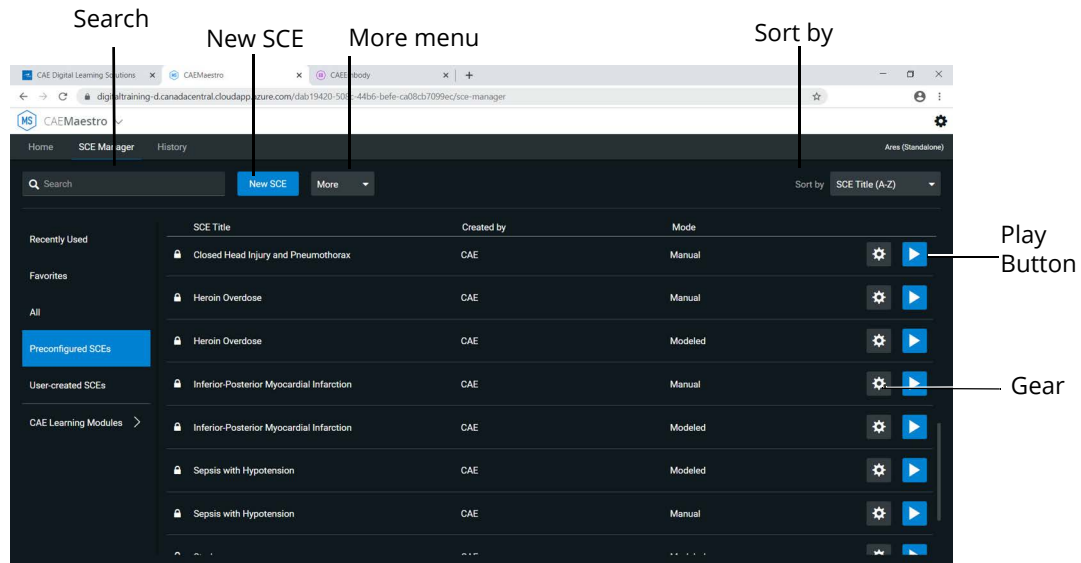
2. From the Home screen, click on **Run an SCE**.

The **SCE Manager** is selected by default and a list of available SCEs appears.

The default screen shows Recently Used SCEs but users can easily locate any SCE and Module in the SCE Manager.

There are three ways to locate SCEs or modules from the SCE Manager screen:

- In the left column, select either **Recently Used**, **Favorites**, **All**, **Preconfigured SCEs**, or **User-created SCEs**.
- In the **Search** field, type part or all of the name of an SCE or module.
- Tap the **Sort by** drop-down menu to filter the list by ascending or descending order.



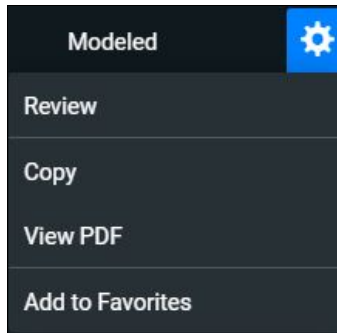
SCE Manager Screen Preconfigured SCEs

Note: Select an SCE's title to view SCE details before launching.

Note: Using the Ventilator will require selection of a Modeled mode SCE.

Review an SCE

To edit or review SCE content, click on the name of an SCE, or click the **Gear** icon and select **Review** from the drop-down menu.

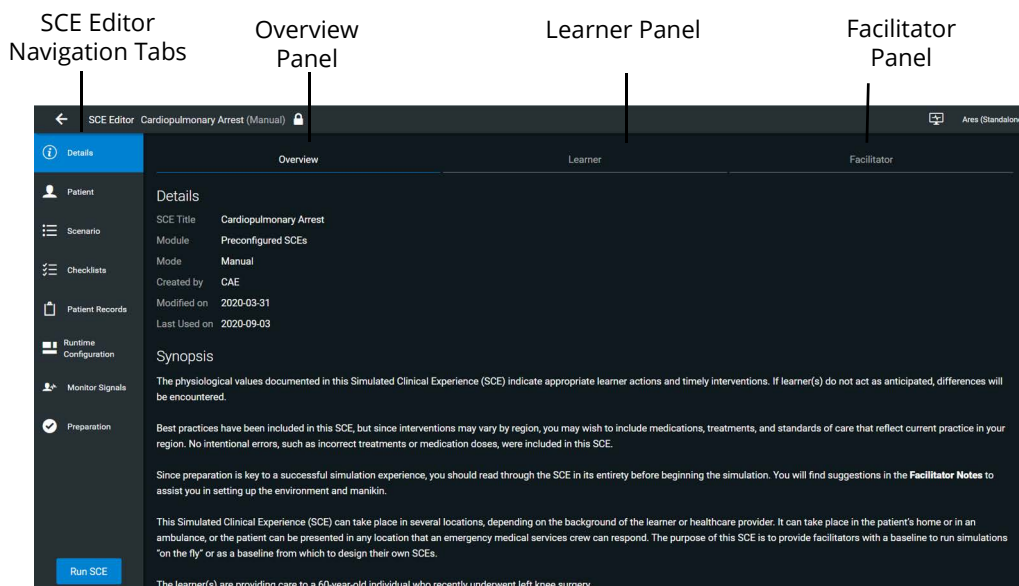


SCE Gear Drop-Down Menu Options

View SCE Details

From the SCE Editor screen, users can select a tab or panel to view or print details.

The SCE Editor screen is where users can enter specific details for custom SCEs.



SCE Editor Screen - Overview Panel

Run an SCE

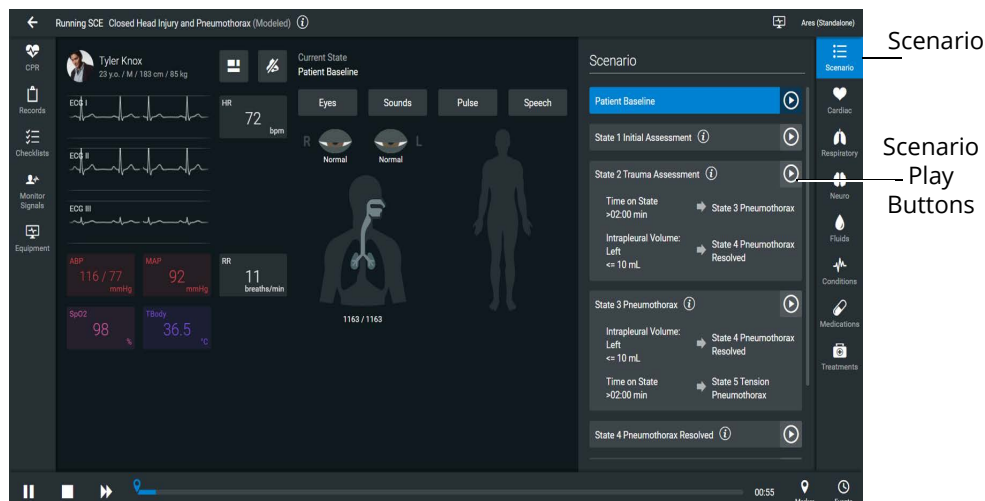
To run an SCE:

1. From the SCE Editor screen, click the **Run SCE** button at the bottom of the screen to start an SCE.

The Run screen appears and displays the patient baseline state.

2. Select **Scenario** in the upper-right corner of the screen.

The list of scenario states appears. A scenario will remain in patient baseline until the **Play** button is selected in another state.



SCE Run Screen with Scenario States

3. Click the **Play** button to apply a state to the running SCE.

See the *CAEMaestro Evolve User Guide* for more information on:

- Creating Custom SCEs
- Editing SCEs
- Importing and Exporting SCEs
- Learning Modules

SHARING MAESTRO EVOLVE WITH LEARNERS

Maestro Evolve provides capabilities for sharing simulated clinical experiences with learners in several ways:

- A planned training event
 - Invite participants in advance
 - Conduct virtual training
- Share simulations of virtual medical equipment
 - Ad-hoc in a classroom setting or virtual training
 - During a planned virtual training event

Planned Training Event

For planned training events, Maestro Evolve provides the capability to invite the participants in advance, and to later conduct the actual training.

Invite Learners

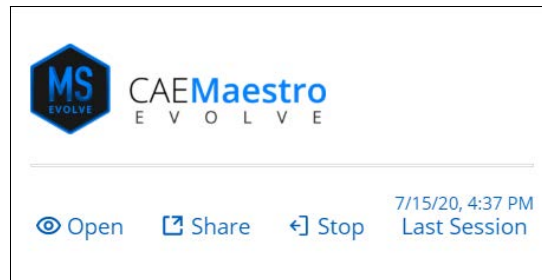
To invite the learners to a training event:

1. From the CAE Digital Learning Solutions window, on the CAEMaestro Evolve Module Menu, click **Invite**.



Maestro Evolve Module Menu - Start and Invite

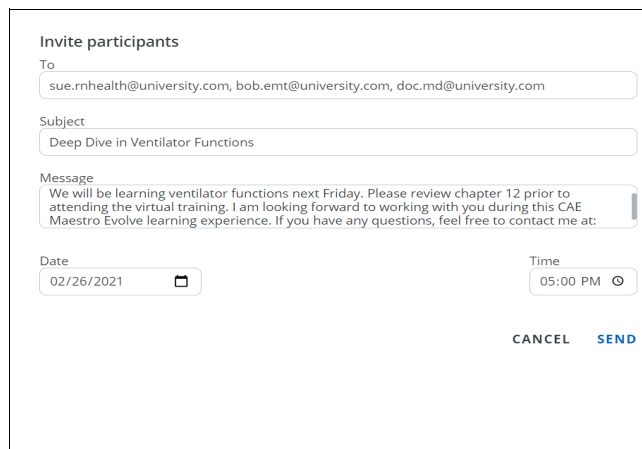
Note: In the event Maestro Evolve has previously been started, the following Open, Share, and Stop options will appear on the Maestro Evolve Module Menu.



Maestro Evolve Module Menu - Open, Share, and Stop

To return back to the Module Menu that has the Invite option, click **Stop**. Then click **Invite**.

The Invite Participants window appears.

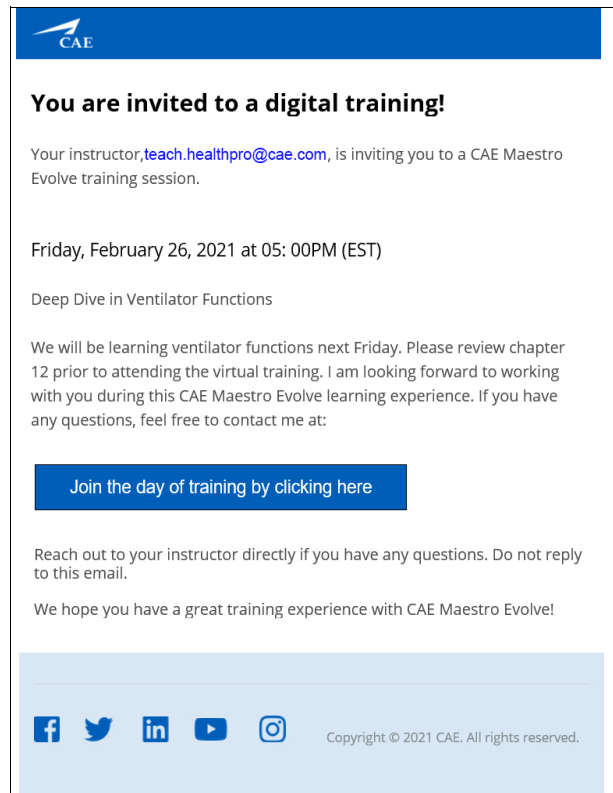


Invite Participants Window

2. Complete the information required.
 - Email addresses of participants
 - Subject
 - Date of Training Event
 - Time of Training Event
3. Click **SEND**.

The invited participants will receive an email containing the information specified in Maestro Evolve. Additionally, the email will contain links to the:

- Instructor's email address (or the individual who completed the invitation in Maestro Evolve) and
- Training event



Invitation Email to Participant

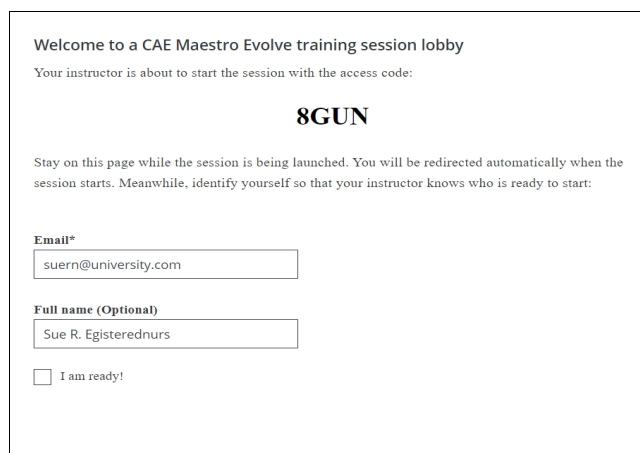
Conduct Training Event

Participant

On the day of the training, the participant will need to:

1. Open the invitation email sent from the instructor.
2. Click the link to join the training.

The participant will be directed to a “lobby” page displaying a system generated access code.



Welcome to a CAE Maestro Evolve training session lobby
Your instructor is about to start the session with the access code:

8GUN

Stay on this page while the session is being launched. You will be redirected automatically when the session starts. Meanwhile, identify yourself so that your instructor knows who is ready to start:

Email*

Full name (Optional)

I am ready!

Training Session Lobby Page

3. The participant is directed to enter their:
 - Email address and
 - Name
4. Click the **I'm ready** box.

Instructor

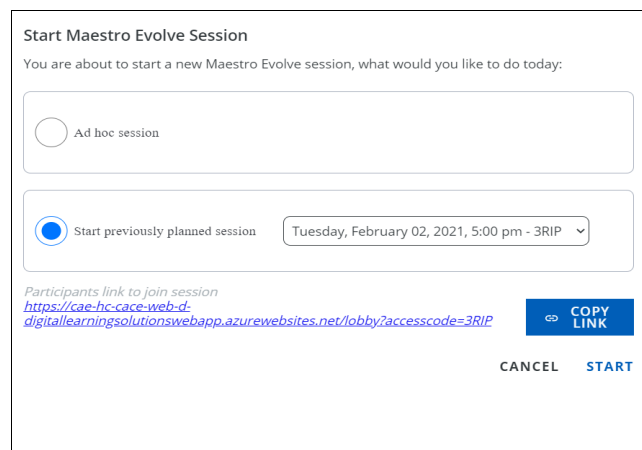
On the day of the training event, when the Instructor logs into Maestro Evolve,

1. From the CAE Digital Learning Solutions window, on the CAEMaestro Evolve Module Menu, click **Start**.



Maestro Evolve Module Menu - Start and Invite

The Start Maestro Evolve Session window appears.

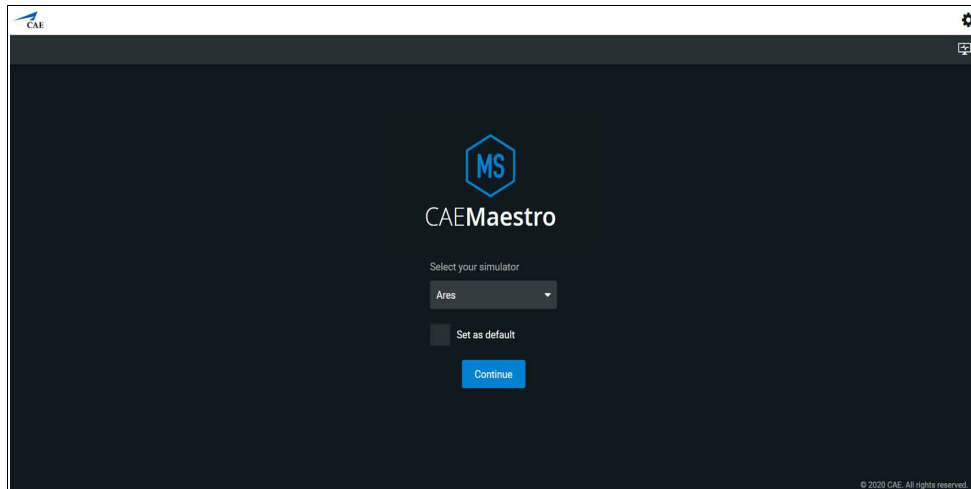


Start Maestro Evolve Session - Previously Planned

2. Select **Start previously planned session**.
3. If there is more than one previously planned training session, click on the drop-down list to select the specific date and time for the current training event.
4. For participants that may not have received an invitation, the instructor may select the **COPY LINK** button. This will allow the instructor to paste the link in an email or chat window for sending to the intended participant.
5. Click **START**.

Once the instructor has started the session, participants waiting in the lobby will be directed to the Embody screen.

6. Click **Open**. The Select Simulator window appears.



Select Simulator Window

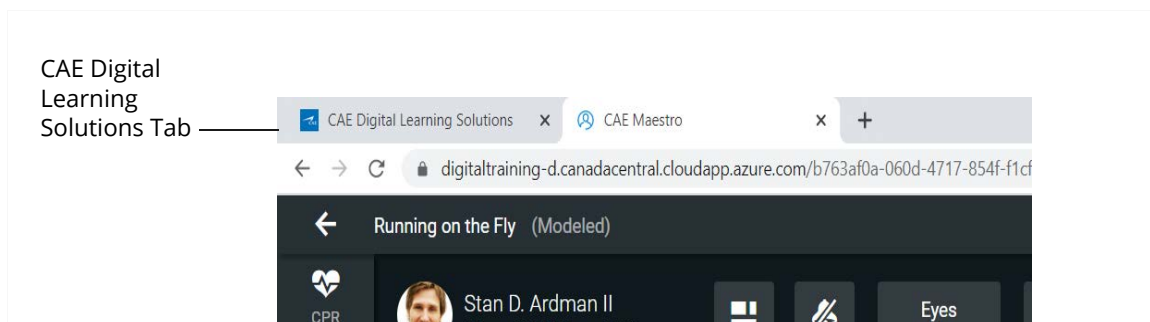
7. Continue with the simulation as planned to meet the learning objectives of the training event.

Share Virtual Equipment

Maestro Evolve allows the Instructor to share selected components of the simulation experience with learners.

To share virtual equipment with learners:

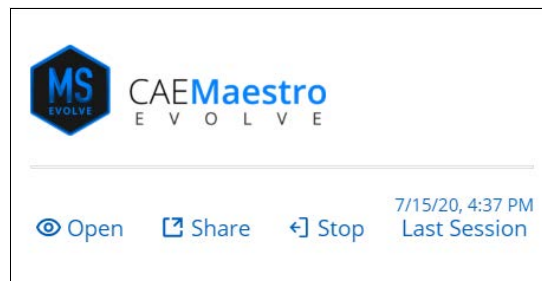
1. If the instructor has not begun a simulation, login to Maestro Evolve. Begin the simulation, setting appropriate parameters.
2. Keep the Maestro Evolve window open. At the top of the browser window, select the **CAE Digital Learning Solutions** tab.



Browser Window Tabs

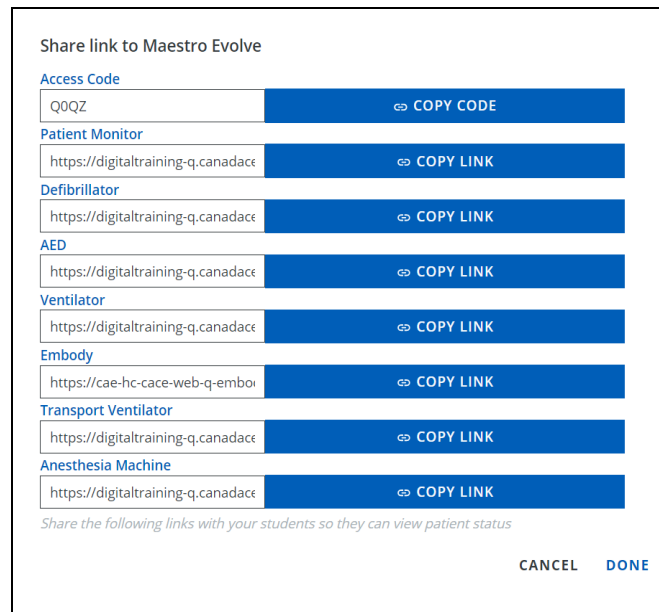
The CAE Learning Digital Solutions page appears.

3. From the Maestro Evolve Module Menu on the CAE Digital Learning Solutions page, select **Share**.



Maestro Evolve Module Menu - Open, Share, and Stop

The Share Link to Maestro Evolve window appears.



Share Link to Maestro Evolve

4. Select the virtual learning application to be shared with the learner(s). For example, Defibrillator or Ventilator.
5. Click the **COPY LINK** button associated with the selected virtual equipment.
6. Click **DONE**.
7. Paste the link into an application which would allow for communication with the student. Some examples are:
 - Email
 - Chat window

Note: This can be done by positioning the cursor in the application of choice and using the keyboard shortcut **CTRL+V**.

8. When the learner clicks the link, the application associated with the selected virtual equipment will launch, with the characteristics of the simulation in progress. The learner may then interact with the simulation from their device.

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APPENDIX A - FAQ

This Frequently Asked Questions (FAQ) section addresses some common concerns and inquiries. For any questions not addressed here, please contact CAE Healthcare Customer Service. Contact information is provided on the last page of this guide.

Maestro Evolve

Q: When attempting to Sign In, I enter the code sent to me via email and a verification failed error appears.

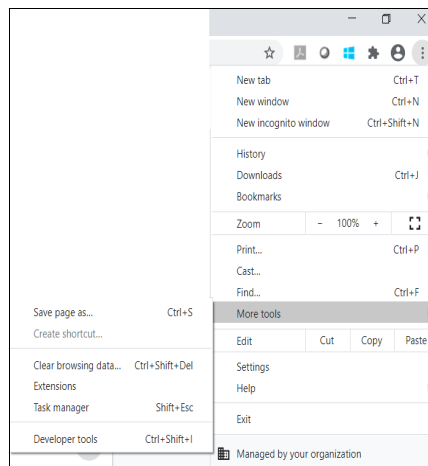
A: At the Enter Verification Code prompt window, click the **Send New Code** button. An email will be sent with a unique code.

1. Open the new email.
2. Retry signing in by entering the new code at the Sign In window.

Q: I am able to sign in and launch Maestro, but I am receiving a *Bad Gateway* error message when attempting to launch one or more of the virtual applications.

A: Close the browser window, relaunch the browser, and clear the data cache. For example, using Google Chrome:

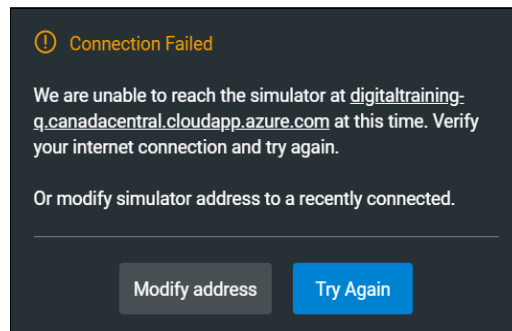
1. Select the menu options from the top-right corner of the Google Chrome window.
2. Select **More Tools > Clear Browsing Data**.



Google Chrome More Tools

3. Select the **Clear Data** button.
4. Retry signing in and launching the virtual application.

Q: I received a Connection Failed error message.



Connection Failed Error Message

A: Check the Internet connection and sign in again to Maestro Evolve.

Ventilator

Q: I am able to launch the Ventilator application. However, the screen is blank.

A: Confirm that the Ventilator power is enabled in Equipment options.

Q: I am able to launch the Ventilator application. However, I'm not seeing the data as expected.

A: Confirm that the probes are enabled and the ventilator is connected to the patient.

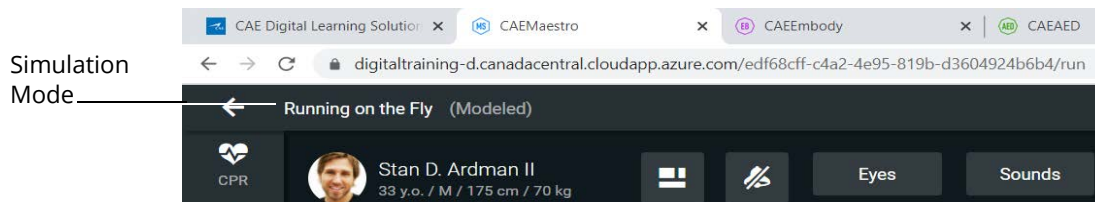
1. From the SCE Run screen, select the Equipment icon from the left control panel.
2. On the Ventilator Equipment parameters panel, enable probes and power.

Q: I am able to sign in and launch Maestro, but I am unable to see many of the controls that are referred to the guide.

A: It may be necessary to resize your browser window.

Q: I am able to launch the Ventilator application. However, when I click on the power button, the screen is blank and nothing happens.

A: Confirm that Maestro is running in the modeled mode. In the top left of the SCE Run screen, the Simulation Mode will be identified.



Running on the Fly in Modeled Mode

If modeled mode is not indicated, restart the simulation:

1. Close all open windows and exit Maestro Evolve.
2. Relaunch Maestro.
3. Select **Run On The Fly (Modeled)** from the Maestro Home screen.

Q: I have started a simulation but CAEVentilator, CAETransportVentilator, or CAEAnesthesiaMachine are not available options on the Maestro Application drop-down menu.

A: All ventilation equipment requires Maestro running in Modeled Mode. Verify that the simulation mode identified in the top left of the SCE Run screen is **Run On The Fly (Modeled)**.

Embody

Q: I do not see the Embody option on the Maestro application drop-down menu. How do I launch Embody?

A: Embody is now launched from the Share Link options. See the section of this guide *Launch the Virtual Simulator* for more information.



For more information about CAE products, contact your regional sales manager or the CAE distributor in your country, or visit caehealthcare.com.

Tel +1 941-377-5562 or 866-233-6384

For customer service, please contact CAE.

Customer Service Headquarters - United States

Monday - Friday from 7:00 a.m. to 6:00 p.m. ET

Phone 1-866-462-7920

Email: srqcustomerservice@cae.com

Customer Service - Canada

Monday - Friday from 8:00 a.m. to 5:00 p.m. ET

Phone 1-877-223-6273

Email: can.service@cae.com

Customer Service - Europe, Middle East, and Africa

Monday - Friday from 8:00 a.m. to 5:00 p.m. CET

Phone +49 (0) 6131 4950354

Email: international.service@cae.com

Customer Service - United Kingdom and Ireland

Monday - Friday from 9:00 a.m. to 5:00 p.m. GMT

Phone +44 (0)800-917-1851

Email: uk.service@cae.com

Customer Service - Latin America

Monday - Friday from 9:00 a.m. to 5:00 p.m. BRT/BRST

Phone +55 11 5069-1510

Email: la.service@cae.com

Customer Service - Asia Pacific

Monday - Friday from 8:00 a.m. to 5:00 p.m. CET

Phone +49 (0) 6131 4950354

Email: ap.service@cae.com

