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SYSTEM REQUIREMENTS

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

Software

Web Browser

<table>
<thead>
<tr>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Browser</td>
</tr>
<tr>
<td>• Google Chrome is required.</td>
</tr>
<tr>
<td>• Google Chrome may be downloaded free at:</td>
</tr>
<tr>
<td><a href="http://www.google.com/chrome/browser/desktop/index.html">www.google.com/chrome/browser/desktop/index.html</a></td>
</tr>
</tbody>
</table>

Note: Other web browsers which support the WebGL platform utilized by Maestro may work but are not supported at this time.

Operating System

<table>
<thead>
<tr>
<th>Operating System</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>• Windows 10</td>
</tr>
<tr>
<td></td>
<td>• MacOS 11</td>
</tr>
<tr>
<td></td>
<td>• The operating system must be current and still supported by its manufacturer.</td>
</tr>
<tr>
<td></td>
<td>• Linus, iOS and Android are not supported.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Document</th>
<th>Document Version</th>
<th>Software Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAE Maestro Evolve</td>
<td>905K002152 v1.9</td>
<td>CAE Maestro Evolve v1.5</td>
</tr>
<tr>
<td>Getting Started Guide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## System Requirements

### Hardware

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Optimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Two Intel Dual Core CPUs, 2.4 GHz</td>
<td>• Six Intel Dual Core CPUs, 2.4 GHz</td>
</tr>
<tr>
<td>• 1280x680 screen resolution</td>
<td>• 1920x1080 screen resolution</td>
</tr>
<tr>
<td>• 8 GB DDR3 RAM</td>
<td>• 16 GB DDR3 RAM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended or Not Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Mouse</td>
<td>• Two monitors are recommended.</td>
</tr>
<tr>
<td>• Keyboard - when editing SCEs (Simulated Clinical Experiences).</td>
<td>• Touch screens are not supported.</td>
</tr>
<tr>
<td>• Graphics card capable of rendering WebGL applications. To determine if your graphics card is capable of rendering WebGL applications, go to: <a href="http://get.webgl.org/">http://get.webgl.org/</a></td>
<td></td>
</tr>
<tr>
<td>• Internet connection at or above 15Mbps.</td>
<td></td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th>Getting Started Guide</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAE Maestro Evolve</strong></td>
<td>• Login to Maestro Evolve</td>
</tr>
<tr>
<td></td>
<td>• Sign into CAE Digital Learning Solutions</td>
</tr>
<tr>
<td></td>
<td>• Obtain and Enter Verification Code</td>
</tr>
<tr>
<td></td>
<td>• Launch Maestro Evolve</td>
</tr>
<tr>
<td><strong>CAE Patient Monitor</strong></td>
<td>• Launch Patient Monitor</td>
</tr>
<tr>
<td></td>
<td>• Configure Dual Monitors (Optional)</td>
</tr>
<tr>
<td><strong>CAE Defibrillator</strong></td>
<td>• Set up the Patient for Electrotherapy</td>
</tr>
<tr>
<td><strong>CAE AED</strong></td>
<td>• Set up the Defibrillator</td>
</tr>
<tr>
<td></td>
<td>• Launch the Defibrillator</td>
</tr>
<tr>
<td></td>
<td>• Set up the AED</td>
</tr>
<tr>
<td></td>
<td>• Launch the AED</td>
</tr>
<tr>
<td><strong>CAE Ventilator and CAE Transport Ventilator</strong></td>
<td>• Set up the Patient</td>
</tr>
<tr>
<td></td>
<td>• Set up the Ventilator</td>
</tr>
<tr>
<td></td>
<td>• Launch the Ventilator</td>
</tr>
<tr>
<td></td>
<td>• Set up the Transport Ventilator</td>
</tr>
<tr>
<td></td>
<td>• Launch the Transport Ventilator</td>
</tr>
<tr>
<td><strong>CAE Anesthesia Machine</strong></td>
<td>• Set up the Anesthesia Machine</td>
</tr>
<tr>
<td></td>
<td>• Launch the Anesthesia Machine</td>
</tr>
<tr>
<td><strong>CAE Maestro Evolve™ Embody - Virtual Simulator</strong></td>
<td>• Launch the Virtual Simulator</td>
</tr>
<tr>
<td><strong>Getting Started With Simulated Clinical Experiences</strong></td>
<td>• Select an SCE</td>
</tr>
<tr>
<td></td>
<td>• Review an SCE</td>
</tr>
<tr>
<td></td>
<td>• Run an SCE</td>
</tr>
<tr>
<td><strong>Share With Learners</strong></td>
<td>• Planned Training Events</td>
</tr>
<tr>
<td></td>
<td>• Share components of the simulation with learners</td>
</tr>
</tbody>
</table>
Introducing CAE Maestro Evolve

For further information on the individual products, please visit [https://caedhealthcare.com/support/user-guides](https://caehealthcare.com/support/user-guides) to download the product-specific user guides.

<table>
<thead>
<tr>
<th>Getting Started Guide</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendices</td>
<td>• <strong>Appendix A</strong> - FAQ - Frequently Asked Questions that provide support for issues that may occur during initial use</td>
</tr>
</tbody>
</table>

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CAE MAESTRO EVOLVE

Login to Maestro Evolve

Follow the steps to login to Maestro Evolve.

<table>
<thead>
<tr>
<th>Login Steps</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sign into CAE Digital Learning Solutions</td>
</tr>
<tr>
<td>2</td>
<td>Obtain and Enter Verification Code</td>
</tr>
<tr>
<td>3</td>
<td>Launch Maestro Evolve</td>
</tr>
</tbody>
</table>

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.

3. Click the **Next** button.

The New Account Upgrade message appears.

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](image1)

4. Click **Next**.

![Account Successfully Created Screen](image2)
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**.
The Start Maestro Evolve Session window appears.

Start Maestro Evolve Session
You are about to start a new Maestro Evolve session, what would you like to do today:

- Ad hoc session
- Start previously planned 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.
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.

A prompt to select **Gender** appears.

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

The SCE Run Screen appears.
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.

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.
From this display, users can:

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

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

<table>
<thead>
<tr>
<th>Patient Monitor Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>Launch Patient Monitor</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>Configure Dual Monitors (Optional)</td>
</tr>
</tbody>
</table>

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](image)
The Maestro Application drop-down menu appears.

![Maestro Application Drop-Down Menu](image)

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

![CAE Patient Monitor](image)

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](image)
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.


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.
3. Click on Extend.
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.
THIS PAGE INTENTIONALLY LEFT BLANK
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.

<table>
<thead>
<tr>
<th>Defibrillator and AED Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Set up the Patient for Electrotherapy</td>
</tr>
<tr>
<td>2 Set up the Defibrillator</td>
</tr>
<tr>
<td>3 Launch the Defibrillator</td>
</tr>
<tr>
<td>4 Set up the AED</td>
</tr>
<tr>
<td>5 Launch the AED</td>
</tr>
</tbody>
</table>

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

![Cardiac Parameters Icon](image)

The Cardiac Parameters panel appears.

![Cardiac Parameters Panel](image)

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

   The Cardiac Rhythm Options appear.
3. Toggle Modeled to ** Override.**

![Cardiac Rhythm Options](image)

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

<table>
<thead>
<tr>
<th>Cardiac Rhythm Parameters - Arrhythmias</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic</td>
</tr>
<tr>
<td>Coarse Ventricular Fibrillation</td>
</tr>
<tr>
<td>Fine Ventricular Fibrillation</td>
</tr>
<tr>
<td>Torsade de Pointes</td>
</tr>
<tr>
<td>Ventricular Tachycardia</td>
</tr>
</tbody>
</table>

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.
The Equipment parameters appear.

**Equipment Parameters**

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

2. Select **Defibrillator** from the list.
The Defibrillator parameters appear for editing.

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

   ![ECG Cables Drop-Down List]

4. Select **ECG 12 Lead** from the drop-down list.

5. From the Probes options, select the drop-down list for **ECG Cable Placement**.

6. Select **Correct** from the drop-down list.

7. Ensure that the **Therapy Pads Reversal** is **disabled**.

8. **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](image)

**Defibrillator Probes Enabled**

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

![General Equipment Parameters - Power Enabled](image)

**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.

![Connected](image) ![Disconnected](image)

**Simulation Connection Status**

10. 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.
2. From the drop-down menu, select **CAEDefibrillator**.

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.
The Equipment parameters appear.

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

4. Select **AED** from the list.
The AED parameters appear for editing.

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.

8. From the General parameters, verify that the Power indicator is 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](image.png)

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.

2. Select CAEAED.

*SCE Run Screen*

The Maestro Application drop-down menu appears.
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.
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.

<table>
<thead>
<tr>
<th>Ventilation Equipment Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>
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.

   ![CAE Maestro Tab](image)

   **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.

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

**Respiratory Parameters Panel**
3. Set the following Respiratory Parameters in Maestro:

<table>
<thead>
<tr>
<th>Respiratory Parameters</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Bronchial Resistance Factors: Left</td>
<td>5.0</td>
</tr>
<tr>
<td>Bronchial Resistance Factors: Right</td>
<td>5.0</td>
</tr>
<tr>
<td>Apnea</td>
<td>• For testing control mode, <strong>enable</strong> Apnea.</td>
</tr>
<tr>
<td></td>
<td>• For testing support mode, <strong>disable</strong> Apnea.</td>
</tr>
<tr>
<td><strong>Advanced</strong></td>
<td></td>
</tr>
<tr>
<td>Chest Wall Compliance Factor</td>
<td>.50</td>
</tr>
<tr>
<td>Lung Compliance Factor: Left</td>
<td>.50</td>
</tr>
<tr>
<td>Lung Compliance Factor: Right</td>
<td>.50</td>
</tr>
</tbody>
</table>
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.

![SCE Run Screen](image)

![Equipment Icon](image)
The Equipment parameters appear.

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

3. Scroll down the list and select **Ventilator**.
4. From the Probes options, **enable** the following **probes**:
   - Breathing Circuit
   - Pulse Oximeter SPO₂
   - CO₂ Attachment

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

6. 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.

The Maestro Application drop-down menu appears.

2. From the drop-down menu, select **CAEVentilator**.
The System Initializing Screen will appear in a separate browser tab.

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

When using dual monitors:

a. Position the mouse pointer on the CAEVentilator browser tab.

b. Drag the 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 CAEVentilator tab in the browser window.

c. 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.

To silence the alarms, from the upper-right corner of the ventilator screen, click the 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.
The Equipment parameters appear.

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

3. Scroll down the list and select **Transport Ventilator**.
The Transport Ventilator parameters appear for editing.

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

   - Breathing Circuit
   - Pulse Oximeter SPO₂
   - CO₂ Attachment

**Transport Ventilator Probes Enabled**
5. From the General parameters, verify that the **Power** indicator is **enabled**.

![General Equipment Parameters - Power Enabled](image)

**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](image)

6. 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.

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 CAE Transport 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 CAE Transport 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.

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.

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](image)

To silence the alarms, from the upper-right corner of the transport ventilator screen, click the **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 CAE Anesthesia 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

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**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.
The Equipment parameters appears.

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

3. Scroll down the list and select Anesthesia Machine.
The Anesthesia Machine parameters appear for editing.

4. From the Probes options, **enable** the following **probes**:
   - Breathing Circuit
   - Pulse Oximeter SPO$_2$
   - CO$_2$ Attachment

5. 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.

2. From the drop-down menu, select CAEAnesthesiaMachine.
The Anesthesia Machine Screen will appear in a separate browser tab.

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

   When using dual monitors:
   a. Position the mouse pointer on the CAEAnesthesia Machine browser tab.
   b. Drag the Anesthesia Machine 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 CAEAnesthesia Machine tab in the browser 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](image)

**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](image)

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:

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.

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.

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.
The anesthetic agent controls will appear.

![Isoflurane Controls](image)

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](image)

**O2 Flush and Auxillary Common Gas Outlet**

![O2 Flush](image)

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.

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.
Adjusting the APL Valve

To adjust the Adjustable Pressure Limiting (APL) valve:

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

   The valve is activated.

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.

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.

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](image)

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](image)

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*
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](Image)

   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](Image)
The Share Link to Maestro Evolve window appears.

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.

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.

**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

Equipment

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

Selecting Treatments provides the following options:

- Oxygen Devices
- Noninvasive or Invasive Ventilation

Selecting invasive or noninvasive will determine the enabled respiratory treatments.

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.
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.

   The Exit Simulation prompt will appear.

   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.

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.
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.

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.
Sharing Maestro Evolve with Learners

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

---

You are invited to a digital training!

Your instructor, teach.healthpro@cae.com, is inviting you to a CAE Maestro Evolve training session.

Friday, February 26, 2021 at 05:00PM (EST)

Deep Dive in Ventilator Functions

We will be learning ventilator functions next Friday. Please review chapter 12 prior to attending the virtual training. I am looking forward to working with you during this CAE Maestro Evolve learning experience. If you have any questions, feel free to contact me at:

Join the day of training by clicking here

Reach out to your instructor directly if you have any questions. Do not reply to this email.

We hope you have a great training experience with CAE Maestro Evolve!
Sharing Maestro Evolve with Learners

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.

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.

![Start Maestro Evolve Module Menu - Start and Invite](image)

The Start Maestro Evolve Session window appears.

![Start Maestro Evolve Session - Previously Planned](image)

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](image)

7. Continue with the simulation as planned to meet the learning objectives of the training event.
Sharing Maestro Evolve with Learners

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.

3. From the Maestro Evolve Module Menu on the CAE Digital Learning Solutions page, select **Share**.
The Share Link to Maestro Evolve window appears.

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.
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.
3. Select the Clear Data button.
4. Retry signing in and launching the virtual application.
Q: I received a Connection Failed error message.

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

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.

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.

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