

LUNA STETHOSYM AND SYMDEFIB FIRMWARE INSTALLATION GUIDE

The Luna StethoSym and SymDefib Firmware Installation Guide provides instructions for users to download and install firmware updates to the StethoSym and SymDefib for use with the Luna simulator. Firmware updates are developed and released to support various improvements and bug fixes.

These two firmware updates are applicable to Luna Maestro version 1.8.75 and beyond.

Downloading Firmware Updates

To retrieve the firmware update files:

1. On a Windows device, open your Internet browser and navigate to <https://caehealthcare.com/support/software-updates> and follow the prompts to download the two files.
2. Save the files onto a USB key.

Preparing for Updates

The following preparation instructions are applicable to both the StethoSym and SymDefib.

To prepare the tablet for retrieving the updates:

1. Connect instructor tablet to a power source.
2. Power on the instructor tablet.
3. Connect the CAE-provided USB-C adapter into the USB-C port on the side of the tablet.
4. Connect the USB key into the female end of the USB-C adapter.

Note: If the wireless dongle is currently attached to the female end of the USB-C adapter, remove the wireless dongle.

5. From the Desktop screen on the instructor tablet, navigate to the task bar and tap the Search icon in the lower left corner of the screen.
6. Tap the Keyboard icon in the lower-right corner of the taskbar to summon the on-screen keyboard and type "File Explorer."
7. Tap X to close the keyboard.
8. Tap on File Explorer app in the search result menu.

The File Explorer window appears.

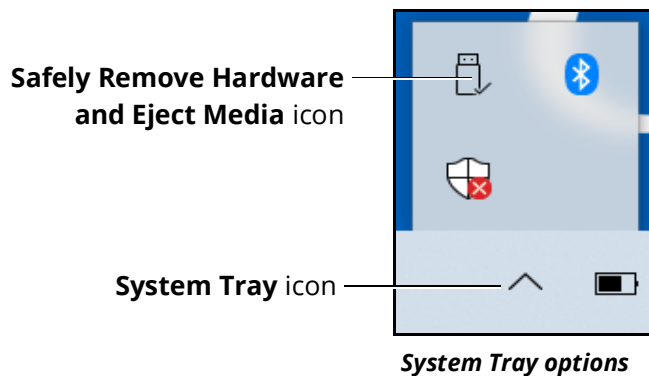
9. Under the **This PC** menu, tap the USB name to access the files from the USB key.

The USB contents appear in the main pane.

For StethoSym, drag the **17_DSC_SIMSTETH_ED.bin** file to the desktop to copy the file onto the instructor tablet.

For SymDefib, drag the **13_DSC_Defib.bin** file to the desktop to copy the file onto the instructor tablet.

10. Use the **Safely Remove Hardware and Eject Media** icon in the System Tray to properly eject the USB key.



Note: Failure to safely remove the USB may cause issues when trying to connect the manikin to the computer.

11. Remove USB key from USB-C adapter.

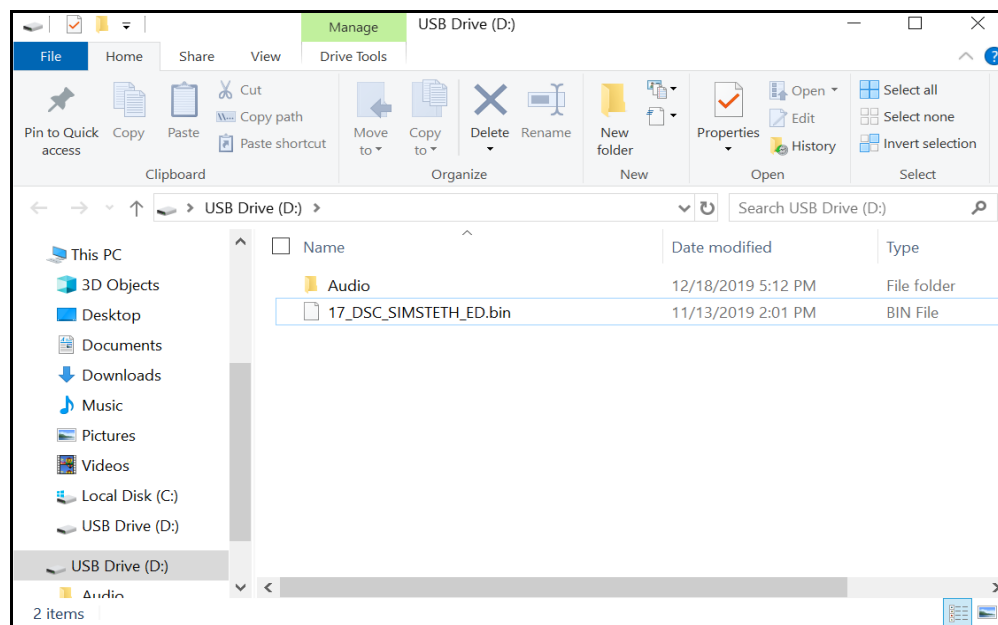
Installing Firmware Updates

Prior to installing firmware updates, ensure that the necessary equipment has charged batteries and is connected to a power source.

StethoSym

To install firmware updates on the StethoSym:

1. Ensure the StethoSym is powered off (LED is off).
2. Connect the StethoSym's 3-foot USB cable between its connector and the USB-C adapter on the instructor tablet.
3. Press and hold the StethoSym power button for 5 seconds to place the device into Bootloader mode. The LED light turns green with repeating blue double flashes.
4. On the instructor tablet, open File Explorer App (as previously instructed in steps 5 through 8 of *Preparing for Updates*) and tap the **USB Drive (D:)** to open the folder to access the StethoSym file storage area.



File Explorer - USB Drive Folder

Note: If the **USB Drive** does not appear, restart the tablet and start the process again.

5. Drag the **17_DSC_SIMSTETH_ED.bin** file from the desktop to the File Explorer window to copy the files onto the device.
6. Use the **Safely Remove Hardware and Eject Media** icon in the System Tray to eject the USB properly.

Note: Failure to safely remove the StethoSym may cause issues when trying to update the device.

7. Unplug the USB cable from the StethoSym, then press and hold the Power button until the LED light turns off.
8. Press the **Power** button to power on the StethoSym. The LED light changes to a blue blinking pattern while the update occurs.

The update process may take up to 5 minutes.

When the LED stops blinking, the update is complete.

9. From the Desktop on the instructor tablet, drag the **17_DSC_SIMSTETH_ED.bin** file into the Recycle Bin.

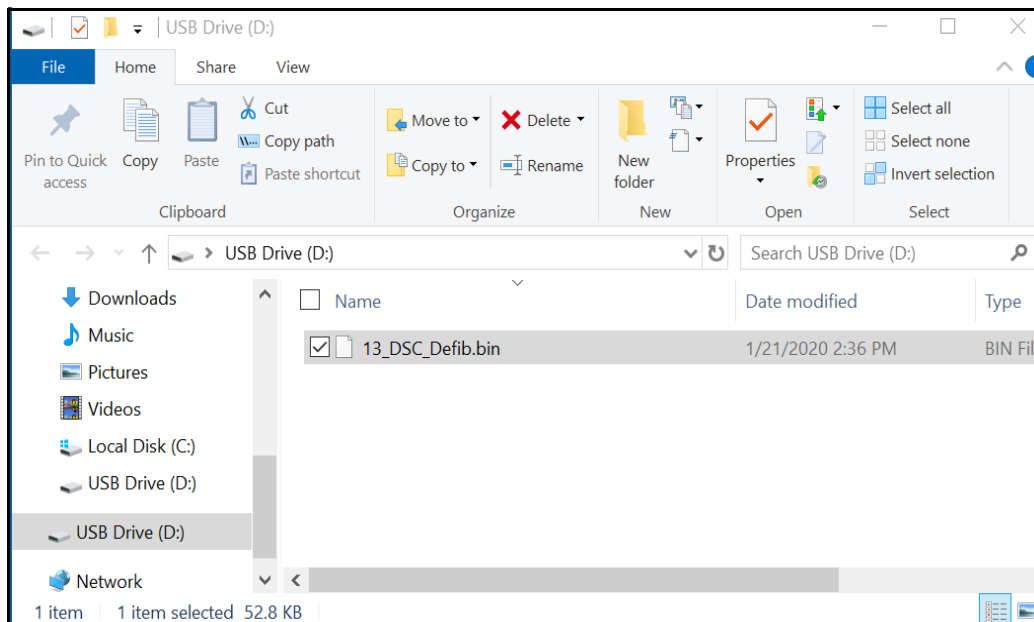
SymDefib

To install firmware updates on the SymDefib:

1. Plug the SymDefib into its power supply and ensure that the SymDefib is powered off (Power switch is down and LED is off).
2. Connect the StethoSym's 3-foot USB cable between the SymDefib's USB connector and the USB-C Adapter on the instructor tablet.

Note: Use care inserting the mini USB connector on the SymDefib as it is a snug fit.

3. Press the Power switch on the SymDefib to the on (up) position. The green LED should now display a double flash every three seconds.
4. On the instructor tablet, open File Explorer App (as previously instructed in steps 5 through 8 of *Preparing for Updates*) and tap the **USB Drive (D:)** to open the folder to access the SymDefib file storage area.



File Explorer - USB Drive Folder

Note: If the **USB Drive** does not appear, restart the tablet and start the process again.

5. Drag the **13_DSC_Defib.bin** file from the desktop to the File Explorer window to copy the file onto the device.
6. Use the **Safely Remove Hardware and Eject Media** icon in the System Tray to eject the USB (SymDefib) properly.

Note: Failure to safely remove the SymDefib may cause issues when trying to update the device.

7. Remove the USB cable from the SymDefib, then power the SymDefib off (Power switch down and LED is off).
8. Press the Power switch on the SymDefib On (up) position. The green LED will display a double flash, every five seconds pattern during the update process.

The update process may take up to 15 minutes.

9. When the LED changes to a blinking pattern with one second intervals, the update is complete.
10. Switch the SymDefib power off.
11. From the Desktop on the instructor tablet, drag the **13_DSC_Defib.bin** file into the Recycle Bin.

Checking the Version Updates

To confirm the firmware updates were implemented, check the **Peripherals** section of the Maestro software on the instructor tablet.

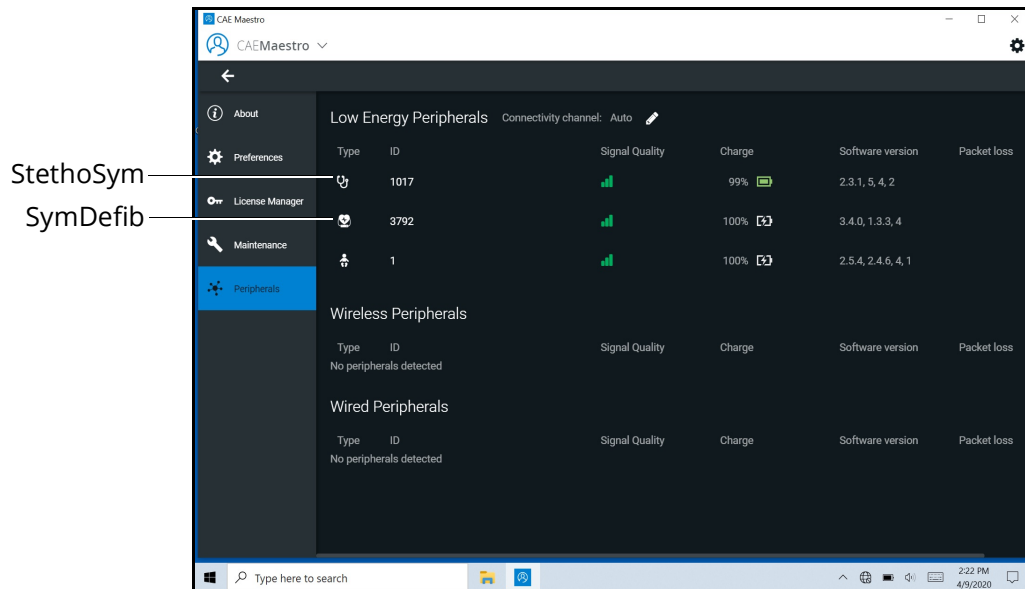
Note: The versions will only appear on the Peripherals screen if the most recent Maestro software update has been installed.

To view peripheral versions:

1. Launch Maestro in accordance with *Maestro for Luna User Guide* instructions.
2. Tap the **Gear** icon in the upper-right corner of the Maestro screen and from the drop-down menu, tap **System**.

The System screen appears.

3. On the left side of the screen, tap **Peripherals** tab to view the connected peripherals.



Peripherals Screen

4. Confirm the newest versions for the devices are displayed in the software:

- **StethoSym:** 2.3.1, 5, 4, 2
- **SymDefib:** 3.4.0, 0.0.0, 4
- **SymDefib (with paddles connected to Luna):** 3.4.1, 1.3.3, 4

Once the version updates are confirmed, power off the instructor tablet and store the simulator according to storage instructions in the user guide.

Customer Service and Training

For assistance, contact customer service.

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

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