MARPORT

2026

MOSA2

QUICK REFERENCE GUIDE

macOS

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Legal

History

V1	03/12/20	First release
V2	01/15/21	Includes Mosa2 version 02.05.
V3	04/19/21	Includes Mosa2 version 02.07.
V4	10/11/21	Includes Mosa2 version 02.09: • Added guidelines on how to connect a sensor to the Dock.
V5	08/04/22	Includes Mosa2 version 02.11: • Added guidelines on how to connect a sensor to Mosa2 using the Configuration Cable connected to the Dock. • Clarified information about the compatibilities with the different PCBA versions.
V6	03/23/23	Includes Mosa2 version 02.11.14: • Added details about Configuration Cable Revision 3 compatibility.
V7	06/03/24	Includes Mosa2 version 02.13.x: • Added compatibility information with the Configuration Cable Revision 4. • Updated screenshots of the application.
V8	01/07/26	Includes Mosa2 version 02.15.x: • Updated compatibility table • Added mention of A2F PCBA.

Purpose of the document

This document offers a description of Marport Mosa2 application. This application allows you to configure Marport sensors and receivers.

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Disclaimer

Marport endeavors to ensure that all information in this document is correct and fairly stated, but does not accept liability for any errors or omissions.

The present user guide is applicable for the following versions of Mosa2:

Mosa2 version	OS X / macOS Compatibility	Configuration Cable Compatibility			Dock Compatibility
		Revision 1	Revision 3	Revision 4	
02.03.x	From 10.9 (Mavericks) to 10.15 (Catalina)	No	No	No	No
02.05.x	From 10.12 (Sierra) to 10.15 (Catalina)	Yes	No	Yes	No
02.07.x	From 10.12 (Sierra) to 11.2 (Big Sur)	Yes	No	Yes	No
02.09.x	From 10.12 (Sierra) to 12.4 (Monterey*)	Yes	No	Yes	Yes
02.11.x	From 10.13 (High Sierra) to 12.4 (Monterey*)	Yes	No	Yes	Yes
02.11.14	From 10.13 (High Sierra) to 13.1 (Ventura*)	Yes	Yes	Yes	Yes

Mosa2 version	OS X / macOS Compatibility	Configuration Cable Compatibility			Dock Compatibility
		Revision 1	Revision 3	Revision 4	
02.13.x	From 11.05 (Big Sur) to 15.1 (Sequoia)	Yes	Yes	Yes	Yes
02.15.x	From 11.05 (Big Sur) to 15.1 (Sequoia)	Yes	Yes	Yes	Yes

***Compatibility of Mosa 2.7 and after with Monterey, Ventura, and Sonoma:** A1 sensors cannot connect by short range wireless signal. You must use a Configuration Cable.

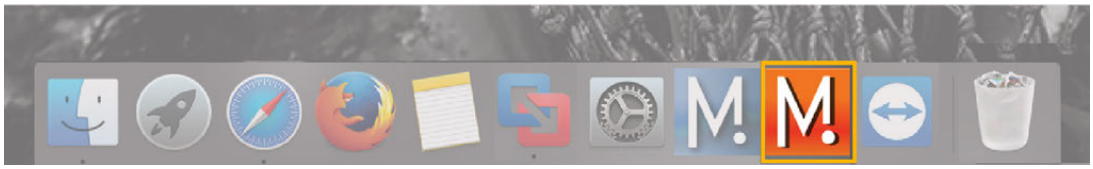
Installing Mosa2

If Mosa2 is not already installed on the computer, you need to install it to configure the sensor.

1. Double-click the *.dmg file received from Marport.
2. From the installation window that appears, drag Mosa2 icon to **Applications**.



   Mosa2 is added to the **Launchpad**.
3. From the **Launchpad**, drag Mosa2 icon to the Dock at the bottom of the screen. Click its icon in the Dock to open it.



Connecting the Sensor to Mosa2

To configure the sensor, you need to connect it to Mosa2 using a wireless communication, the Configuration Cable or the Dock charger.

The connection options depend on the version of the sensor hardware. To know the version of the sensor's PCBA: open MASP website, then go to the list of the sensor components and look at the **Cat. Name** and **Hard Rev.** fields of the board.

Type of connection	**Compatible hardware**		
	A1	**A2S Gen 2**	**A2S Gen 3, A2S Gen 4, A2H, A2F**
Short-range wireless connection	Yes	Yes	
WiFi		Yes	
Configuration Cable connected to computer	Yes	Yes	Yes
Configuration Cable connected to Dock (Revision 1 and 4)	Yes	Yes	
Configuration Cable Revision 3 connected to Dock	Yes		
Dock charger plug			Yes

Note: Refer to the label on the Configuration Cable to identify its revision number. Also note that the Configuration Cable Revision 3 and Revision 4 have an M logo on the plug .

Note: Configuration Cable Revision 3 is compatible only with Mosa2 version 02.11.14 and later.

Using a wireless connection

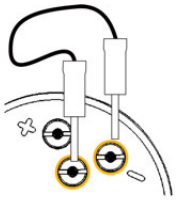
Important: Only sensors with an A1 PCBA and A2S PCBA revision 02 can connect to Mosa2 using a wireless connection.

Important: Mosa running on macOS Monterey and Ventura: A1 sensors cannot connect by short range wireless signal. You must use a Configuration Cable.

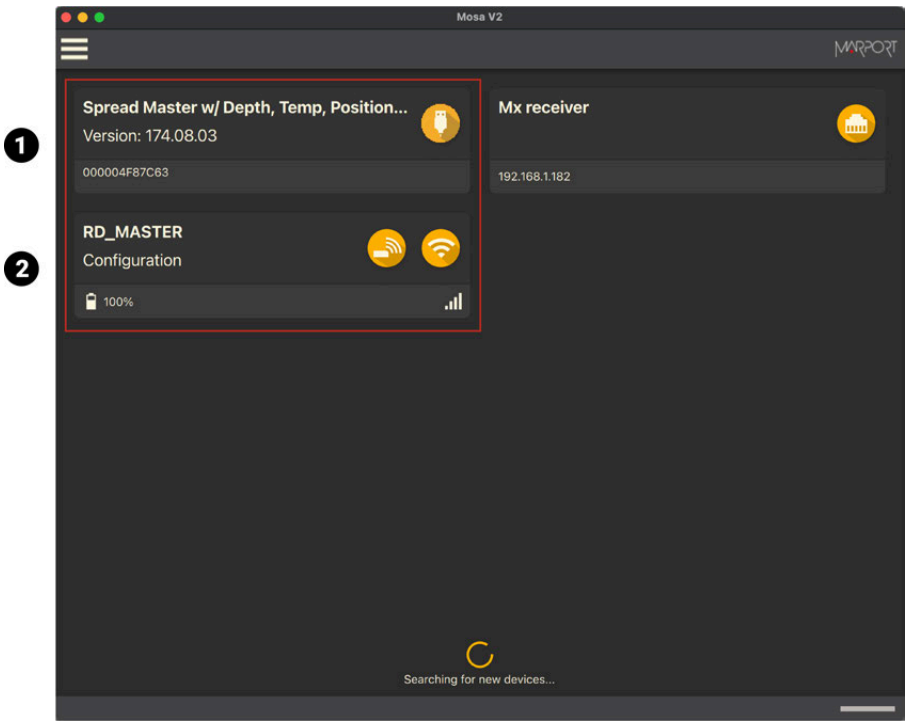
1. Open Mosa2.



2. Connect the water-switch.



   The light on the transducer flashes red.
3. Disconnect the water-switch.
   After a few seconds, the light flashes green.
4. Wait a few seconds for the sensor to be recognized.

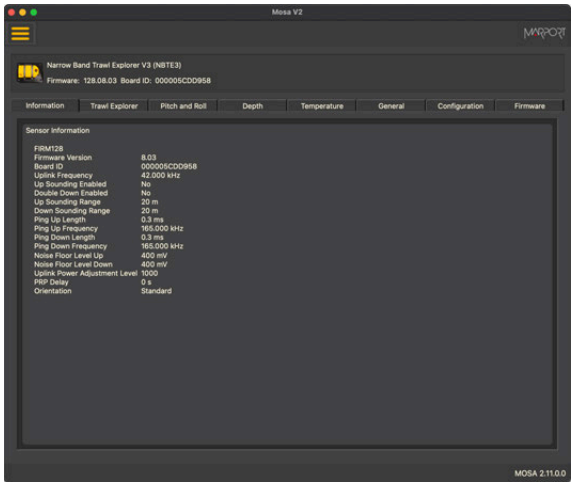


1. A1 sensor / **2.** A2S rev02 sensor

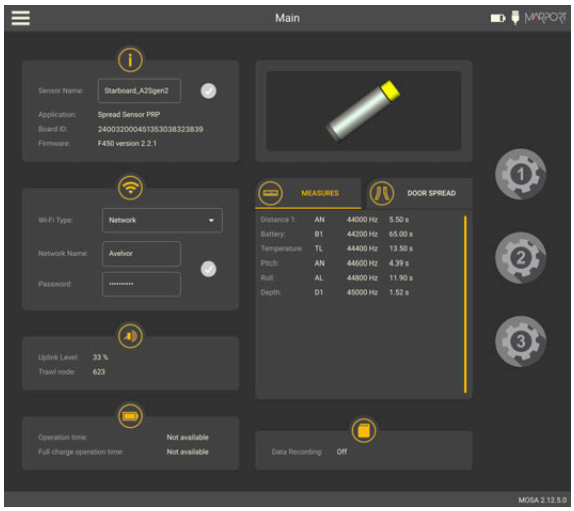
5. **A1 sensors** (**1**): click when the sensor appears on the discovery page.
6. **A2S sensors** (**2**):
    a. Click to connect in short-range wireless communication.
    b. If the sensors has a PCBA revision 02, click the WiFi icon to connect using the WiFi network of the vessel or using the sensor as a WiFi access point.

The sensor configuration pages are displayed.

Note: A2S sensors: click **> Advanced** to change settings.



A1 sensor



A2S rev02 sensor

You can now configure the sensor. Refer to the sensor's user guide for details about the settings.

Using the Configuration Cable

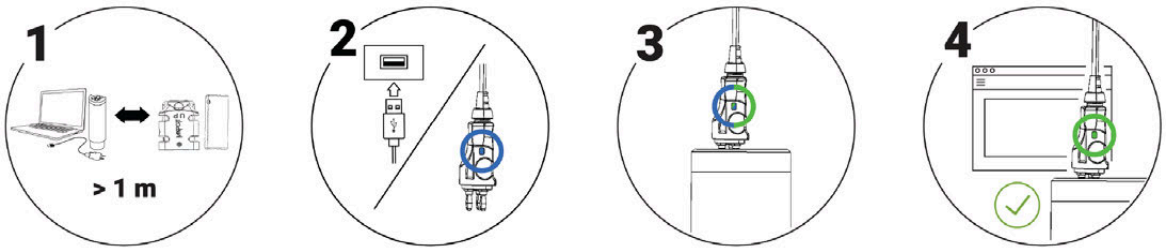
Connect the Configuration Cable from the computer to the sensor to display the sensor configuration page on Mosa2.

Tip: Refer to the Configuration Cable Quick Reference Guide available on our website for more details about the use of this product.

1. Move other electrical devices minimum 1 m away from the computer.
2. Connect the USB connector directly to the computer.

Mosa2 opens automatically and the startup wizard is displayed. The LED on the plug is solid blue.

3. Connect the three-pin plug to the sensor.
   The LED on the plug blinks alternatively blue and green.
4. Wait a few seconds. The configuration page of the sensor is displayed on Mosa2.
   The LED on the plug is solid green.



You can now configure the sensor.

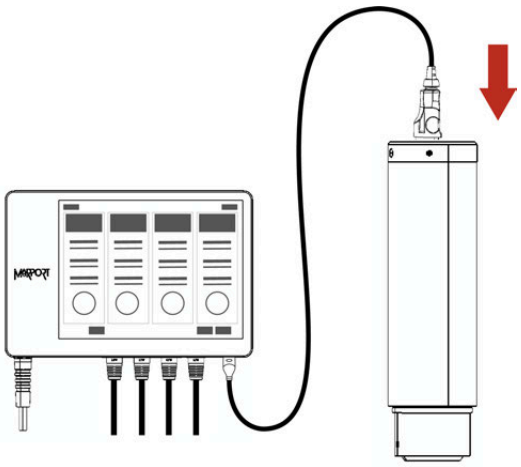
Note: You can keep the Configuration Cable continuously connected by USB, and virtually eject or connect it. When no sensor is connected to the Configuration Cable, click **Menu** **> Eject Config Plug** or **Connect Config Plug**. When ejected, you come back to the discovery page. It stays disconnected until you virtually connect to it or manually disconnect then connect it.

Using the Dock and a Configuration Cable

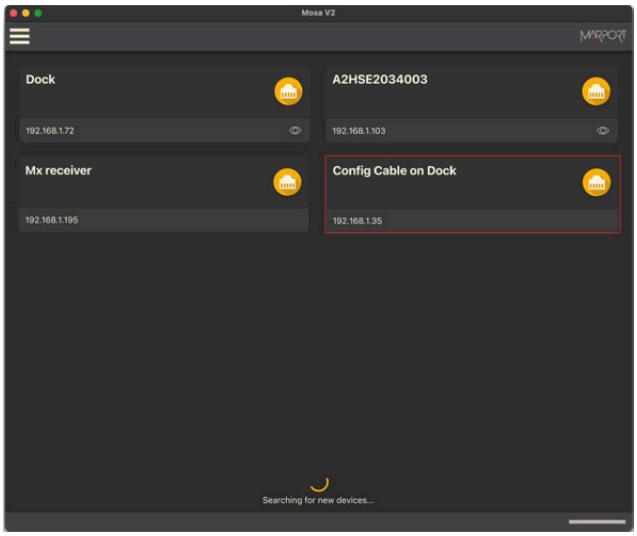
Important: Only sensors with an A1 PCBA and A2S PCBA revision 02 can connect to Mosa2 via the Dock using the Configuration Cable. For the Pro line of sensors, use the charging plugs of the Dock.

Note: The firmware of the sensors with A1 and A2S rev02 PCBA cannot be updated with this type of connection, use a wireless connection instead.

1. Connect the USB connector of the Configuration Cable to the Dock and the plug to the sensor's endcap.



2. Open Mosa2. The Configuration Cable is displayed on the discovery page.



Click  to open the sensor configuration page.

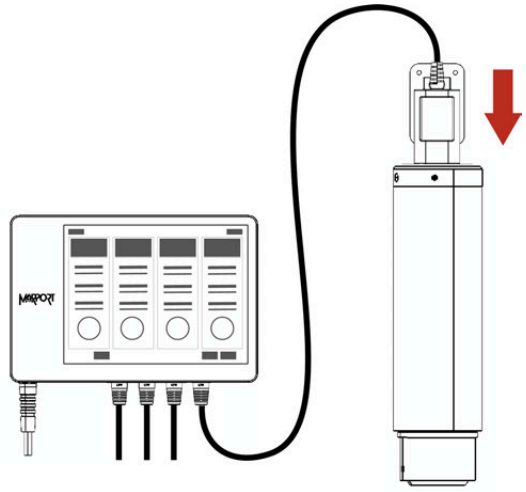
3. To leave Mosa2 configuration page and come back to the discovery page, click ☰ > **Disconnect**.

Using a Dock Charger Plug

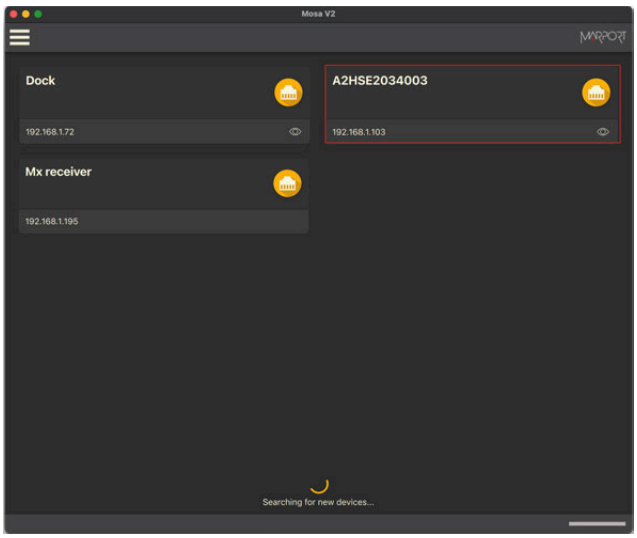
Important: Only Pro line of sensors with an A2S PCBA revision 03 and later, or A2H and A2F PCBA can connect to Mosa2 via the Dock using the charger plug.

Tip: Refer to Dock user manual to have more details about the use of this product.

1. Connect one Dock charging plug to the sensor's endcap.



2. Mosa2 discovery page opens. The sensor is displayed.



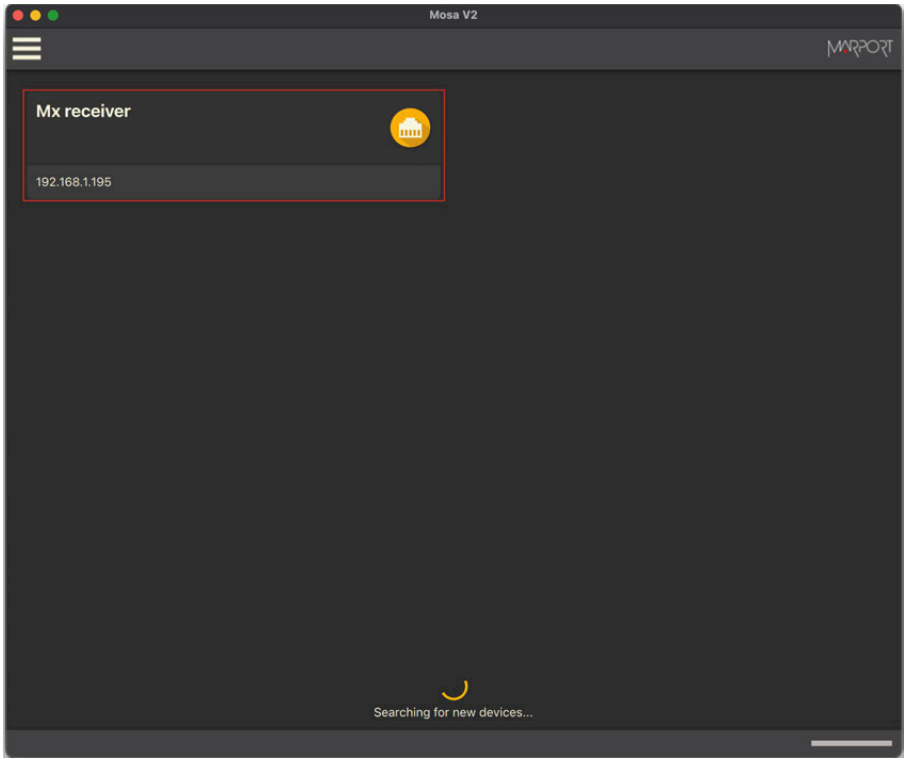
- Click  to open the sensor configuration page.
- Click  to show the deploy animation on the charger plug for 30 seconds.

Configuring the Receiver

You can use Mosa2 to see information about the receiver, change its IP address, update its firmware, export and import its configuration.

Mosa2 can detect all the receivers that are on the same Ethernet network as the computer.

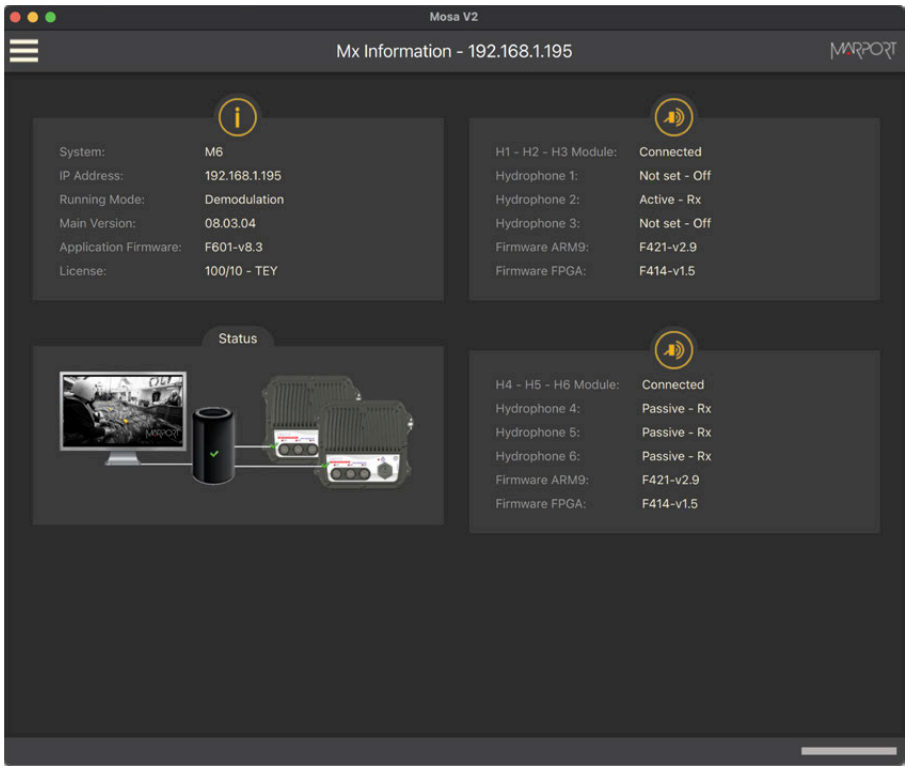
1. Click  when the receiver appears on the discovery page.



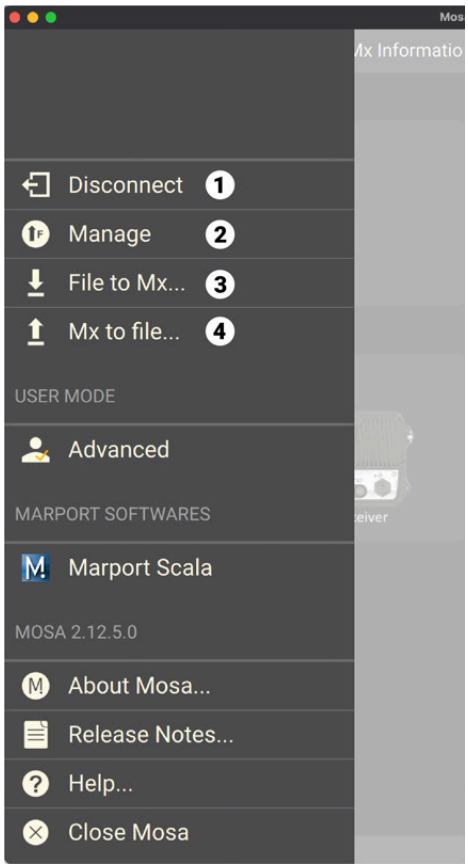


Trouble: If the receiver icon is gray , it means the receiver is not on the same sub-network as the computer. Click the icon to see details about the receiver, then click  if you need to change the receiver IP address.

The receiver information page is displayed.



2. Click **Menu** **> Advanced**. The menu gives you access to different settings:



1. **Disconnect**: leave the receiver page and come back to the discovery page.

2. **Manage**: go here to change the receiver IP address and update the receiver with the latest application.

3. **File to Mx**: apply to the receiver an existing configuration.

4. **Mx to File**: export the configuration of the receiver into a configuration file.

Note: Refer to the system user guides to have detailed procedures.

Troubleshooting

Learn how to solve common problems.

Mosa2 does not open due to error message

Mosa2 displays an error message saying it cannot be opened.

➜ Your Mac security preferences do not allow you to open applications not downloaded from the App Store.

1. From the upper left corner of the screen, click **Apple menu > System Preferences > Security & Privacy**.
2. Click the lock icon and enter the password, if applicable.
3. At **Allow apps downloaded from**, select **Anywhere**, then close the dialog box.
4. **macOS Sierra or later: Anywhere** option is not displayed by default. To display **Anywhere**:
    a. Click the magnifying glass from the top right corner of your screen and type `Terminal`.
    b. Click **Terminal** from the results.
    c. Enter in the terminal: `sudo spctl --master-disable`.
    d. Press Enter.

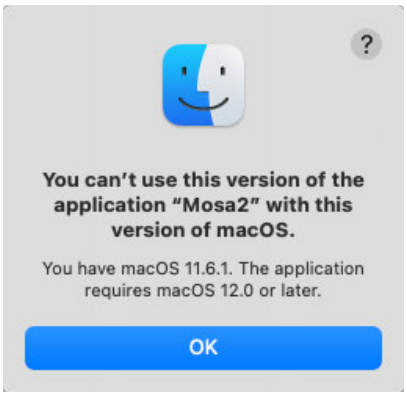
    Anywhere option is now displayed in **Security & Privacy** preferences.

Mosa2 icon has a small warning icon and does not open

Mosa2 app icon looks like the following image when trying to install it, or in the dock if already installed:



You should also see the following message:



➜ From Mosa2 version **2.15.x**, this icon is displayed on computers using Big Sur macOS, when Mosa2 version is not compatible with Big Sur macOS. These computers must use a specific Mosa2 version. Ask Marport support for the correct version.

Sensor cannot connect in wireless connection

When trying to connect to the sensor by wireless connection, the sensor appears on Mosa2 discovery page but you cannot click it OR the sensor does not appear on the discovery page.

Remember: First, always connect the sensor to a charger, then disconnect it. The sensor will reboot and this may resolve the issue.

➜ The sensor is out of the range of the wireless signal.

- Bring the sensor closer to the computer.

➜ If the sensor is not detected by Mosa2, the issue might come from the short-range wireless connection of the computer.

1. Close Mosa2.
2. Click the short-range wireless symbol in the top-right corner of the menu bar while holding the Shift (⇧) + ALT (⌥) keys on your Mac's keyboard.
3. Click **Debug > Remove all devices**.
4. Open Mosa2.

➜ In some cases, the computer keeps an history of some wireless devices and this interfere with the correct detection of sensors. You need to launch a script to uninstall Mosa2 and erase all wireless preferences.

Sensor does not connect correctly with Mosa2 when using the Configuration Cable

Remember:

If the sensor does not connect correctly with Mosa2, always:

- Disconnect both USB connector and three-pin plug.
- Connect again the Configuration Cable.
- Make sure the three pins are fully inserted inside the sensor.

➜ Mosa2 does not automatically open when connecting the Configuration Cable.

- Check that you see Marport Captain icon in the desktop taskbar. If you do not see it: close, then open Mosa2. The icon should appear in the taskbar.



Note: Marport Captain is a program running in the background. It allows Mosa2 automatic opening and displays shortcuts to Mosa2 and Scala2 applications installed on the computer. It should not be closed.

- If the problem persists, install Mosa2 again.

➜ At the end of step 2 of the startup wizard, the sensor does not respond. Mosa2 displays a red cross and the Configuration Cable LED is red.

- Check that no other instance of Mosa2 application is already running on the computer. If this is the case, close both applications, then open only one.
- Or else, connect the sensor to a charger and wait until it is fully charged.

➜ The sensor has been disconnected from Mosa2.

- Check that the Configuration Cable is not connected to a USB hub. The Configuration Cable must be connected directly to the computer.
- If the computer goes to sleep mode, the sensor may be disconnected. Change the settings on your computer to increase the time before sleep mode.
- If the problem persists, connect the sensor to a charger and wait until it is fully charged. Then try again to connect.

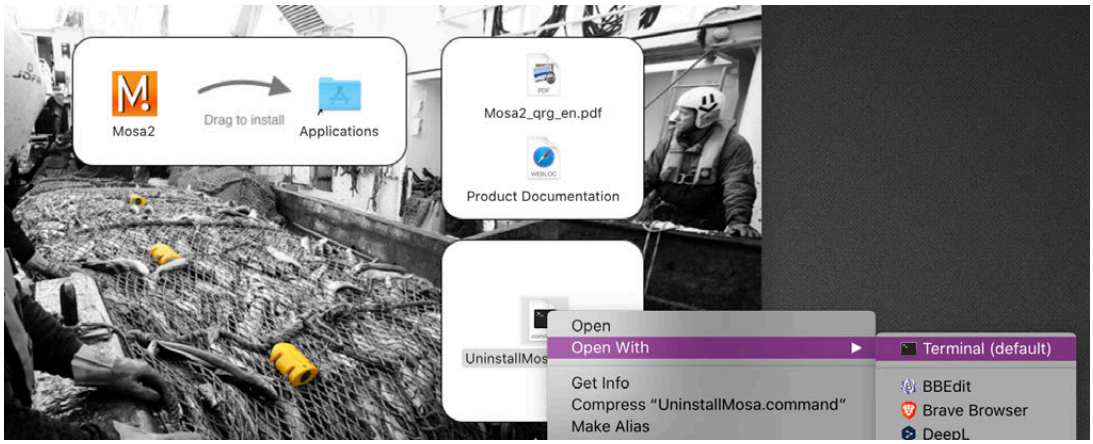
➜ Mosa2 displays a critical error message.

- Disconnect both USB connector and three-pin plug. Then, connect again the Configuration Cable. If the message is still displayed, it means there is an issue with the sensor's components. Contact Marport support.

Uninstalling Mosa2

You can uninstall Mosa2 from the computer.

1. Find the DMG file that you downloaded when you installed Mosa2 (version **02.03.00 and after**). By default it should be in the **Downloads** folder of the computer.
2. Right-click **UninstallMosa.command** and select **Open With > Terminal**.



3. From the terminal window, enter your computer password and press **Enter**.

   Note: For security reasons, the terminal window will not display anything when you type the password.

   The terminal window displays **Process completed** when the script is completed. Mosa2 is uninstalled from your computer.