

USER'S GUIDE

iServer 2

Firmware Upgrade Guide



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WARRANTY

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1. Introduction

This guide provides instructions on how to manually upgrade the firmware on an iServer 2 device.

To perform an automatic firmware upgrade, factory reset the iServer 2 and connect the iServer 2 to the Internet.

2. Downloading the Latest Firmware

The instructions below will outline the steps necessary to download the latest firmware files for the iServer 2. The user should note that there are two download files that will appear when an update is available for the iServer 2.

Step 1: Ensure the iServer 2 has been setup, operational, and that the user has access to a PC or laptop with a web browser.

Step 2: Navigate to the iServer 2 webserver login user interface by entering one of the following URLs into a web browser search bar:

http://is2-omegaXXXX.local

(the XXXX should be replaced by the **last 4 digits of the iServer 2 device MAC address**; located on the underside label of the device)

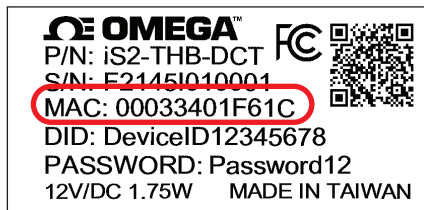


Figure 1: iServer 2 device label

or

Enter the **IP address assigned to the iServer 2** by the local-area network it is connected to.

(Example: **http://XXX.XXX.X.XXX** the X should be replaced by the numerical values that make up the IP address of the connected iServer 2 device)

Step 3: Log in to the iServer 2 webserver.

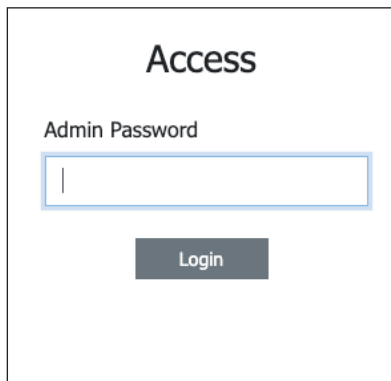


Figure 2: iServer 2 webserver login

Step 4: From the iServer 2 webserver interface, click the **System** tab on the upper right of the screen. A **System Configuration** pop-up window will appear.

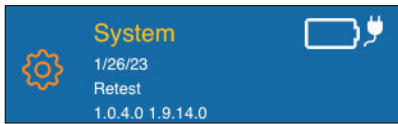


Figure 3: Webserver UI System tab

Step 5: Click the **Download Firmware** button. Note that two download links will appear.

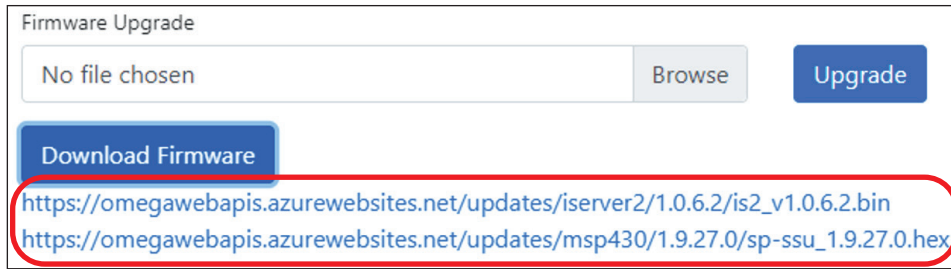
Important: iServer 2 devices require two firmware files to complete the firmware upgrade process: a .bin and .hex file. Both download URLs should appear when the user clicks the Download Firmware button.

iServer 2 devices that are using an older firmware version may only have one download link appear at a time. In case only one firmware link appears, proceed to download and install the file according to the steps outlined in the rest of this section and the following section, then clear the web browser cache being used, and finally repeat the process starting from **Step 5** of this section, until the iServer 2 firmware is up-to-date.

A screenshot of the "System Configuration" pop-up window. It has a title bar with a close button (X). Below the title bar are three tabs: "System" (selected), "Profile", and "Units". The main content area is divided into three sections. The first section is "Probe Settings" with a sub-header "Smart Probe Password Protection". It contains a warning icon and text: "Data will always be stored on the iServer2 whether this feature is on or off. Disabling the password will allow anyone with physical access to the Smart Probe to access it's stored data." Below this is a checkbox labeled "Enabled Probe Password" which is currently unchecked. The second section is "Probe Connected" with the text "How many probes are connected to your iServer 2?". It contains a dropdown menu labeled "Dual Probe" and an "Update" button. The third section is "System Setting" with a sub-header "System Name". It contains a text input field with "iServer2" and an "Update" button. Below this are two rows: "Set Time" with a text input field showing "01/05/2024 05:15:09 PM" and "Time Zone" with a dropdown menu showing "US/Pacific" and a "Set" button. The bottom section is "Firmware Upgrade" with a text input field showing "No file chosen", a "Browse" button, and an "Upgrade" button. A red circle highlights the "Download Firmware" button at the bottom left of the window.

Figure 4: System Configuration pop-up window, Download Firmware button

Step 6: Click on both download links that appear to download both firmware upgrade files. Note that both files are necessary to successfully complete the firmware upgrade.



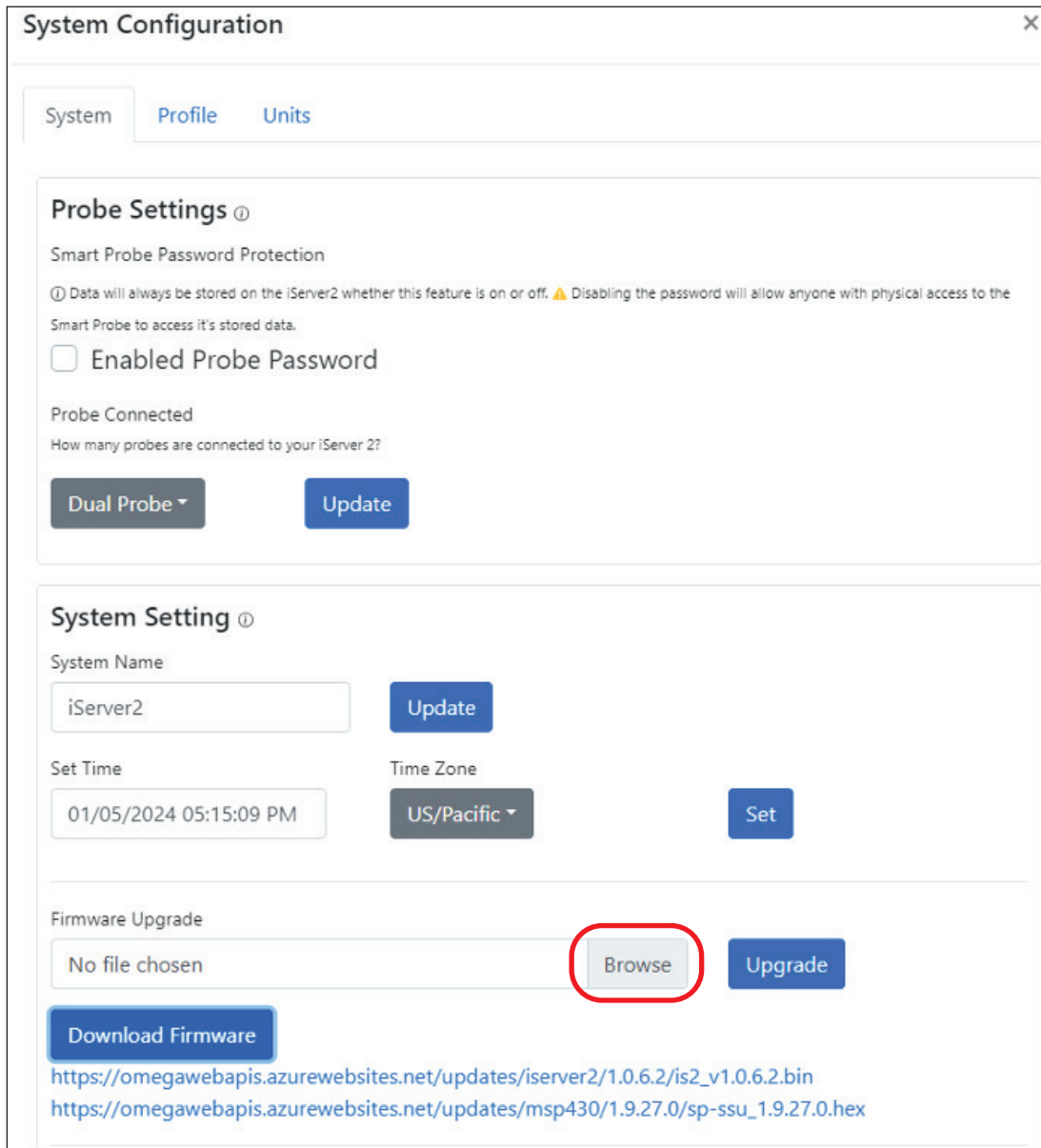
The screenshot shows a web interface titled "Firmware Upgrade". At the top, there is a file selection area with a text box containing "No file chosen", a "Browse" button, and an "Upgrade" button. Below this, there is a blue button labeled "Download Firmware". Underneath the button, two URLs are listed: https://omegawebapis.azurewebsites.net/updates/iserver2/1.0.6.2/is2_v1.0.6.2.bin and https://omegawebapis.azurewebsites.net/updates/msp430/1.9.27.0/sp-ssu_1.9.27.0.hex. These two links are enclosed in a red rounded rectangle.

Figure 5: iServer 2 firmware download links

3. Upgrading the iServer 2 with the Latest Firmware

The instructions below will outline the steps necessary to perform the iServer 2 firmware upgrade process using the recently downloaded firmware files.

Step 1: From the System tab in the iServer 2 webserver interface, click on the **Browse** button to locate the first firmware file that will be used in the upgrade. The user may choose to start with either firmware file (.bin or .hex) as the order does not matter.



The screenshot shows the 'System Configuration' window with three tabs: 'System', 'Profile', and 'Units'. The 'System' tab is active. It contains two main sections: 'Probe Settings' and 'System Setting'.

Probe Settings

- Smart Probe Password Protection**
① Data will always be stored on the iServer2 whether this feature is on or off. ⚠ Disabling the password will allow anyone with physical access to the Smart Probe to access its stored data.
☐ Enabled Probe Password
- Probe Connected**
How many probes are connected to your iServer 2?
Dual Probe ▾ Update

System Setting

- System Name**
iServer2 Update
- Set Time**
01/05/2024 05:15:09 PM
- Time Zone**
US/Pacific ▾ Set

Firmware Upgrade

- No file chosen Browse Upgrade
- Download Firmware
- https://omegawebapis.azurewebsites.net/updates/iserver2/1.0.6.2/is2_v1.0.6.2.bin
- https://omegawebapis.azurewebsites.net/updates/msp430/1.9.27.0/sp-ssu_1.9.27.0.hex

Figure 6: System Configuration pop-up window, Browse button

Step 2: A pop-up window will appear allowing the user to select one of the recently downloaded firmware files to be used for the upgrade. Click **Open** to finalize the selection.

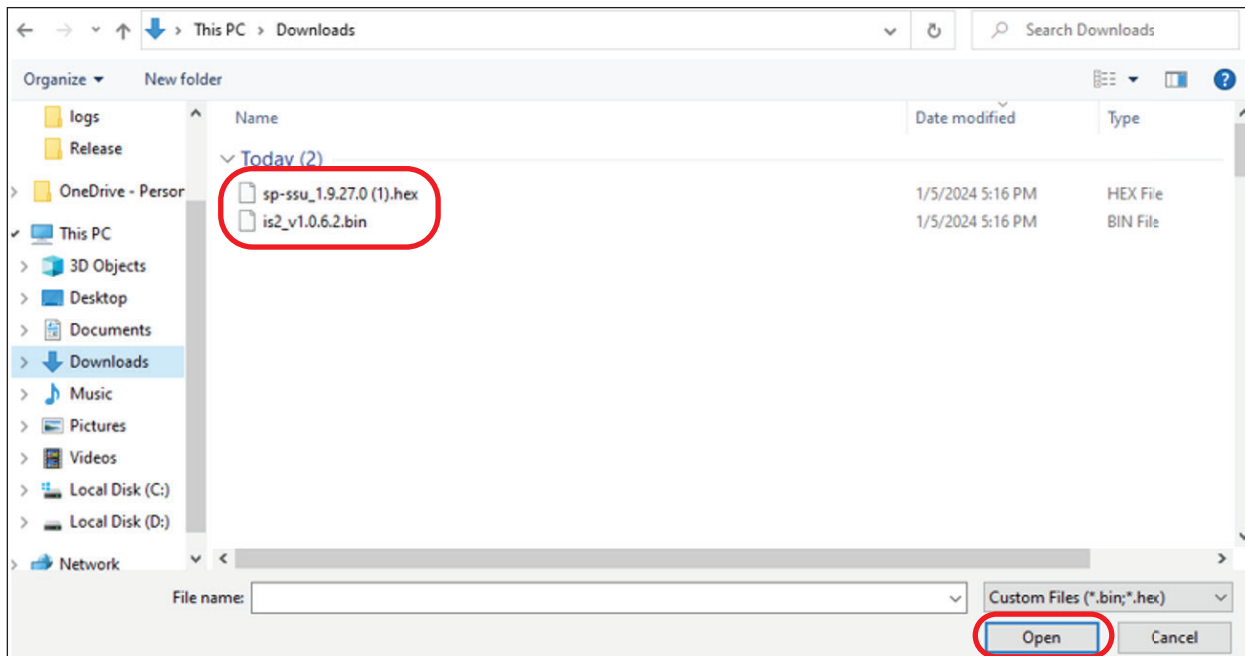


Figure 7: Firmware file selection for iServer 2 upgrade

Step 3: With one of the firmware files selected, click the **Upgrade** button. The iServer 2 will begin the upgrade process and will reboot when the process is complete.

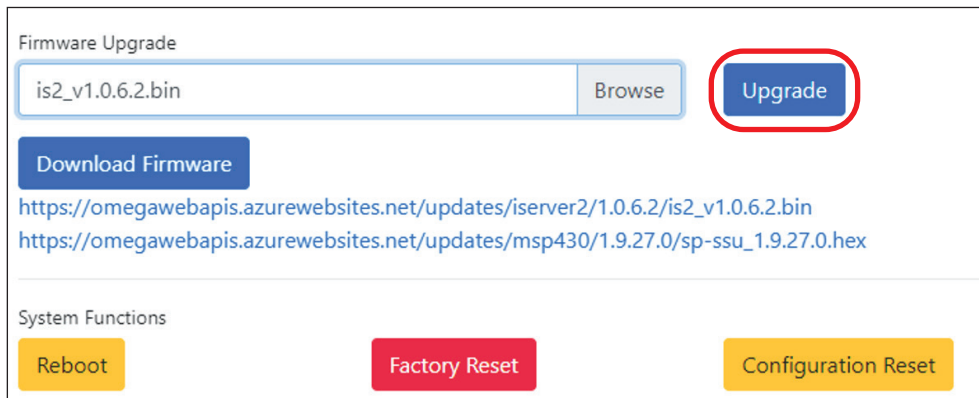


Figure 8: System Configuration Upgrade button

Step 4: Repeat the process starting from **Step 1** of this **Upgrade the iServer 2 with the Latest Firmware** section with the second firmware (.bin or .hex, depending on which was used for the upgrade first).

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3. Repair instructions and/or specific problems relative to the product.

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2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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