



## Li-ion Tamer GEN 3 Hub/Sensor Firmware Update Procedure

User Guide

Doc LS10443-351LT-E

Rev A | 09-Dec-2025

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# SECTION 1: INTRODUCTION

## Preface

This Guide details how to update the Li-ion Tamer GEN 3 Hub and Sensor firmware using an Apache server.

**Related Products:** Li-ion Tamer GEN 3

The Li-ion Tamer GEN 3 Hubs (LT-ACC-HUB-PWR-HON and LT-ACC-HUB-POE-HON) and Sensors (LT-SEN-M3 and LT-SEN-R3) will periodically have new firmware released for the purposes of addressing field issues or modifying sensitivity of the system based on site-specific parameters. The following sections detail the required materials and how to update firmware on the hubs and sensors.

## SECTION 2: APACHE SERVER SETUP

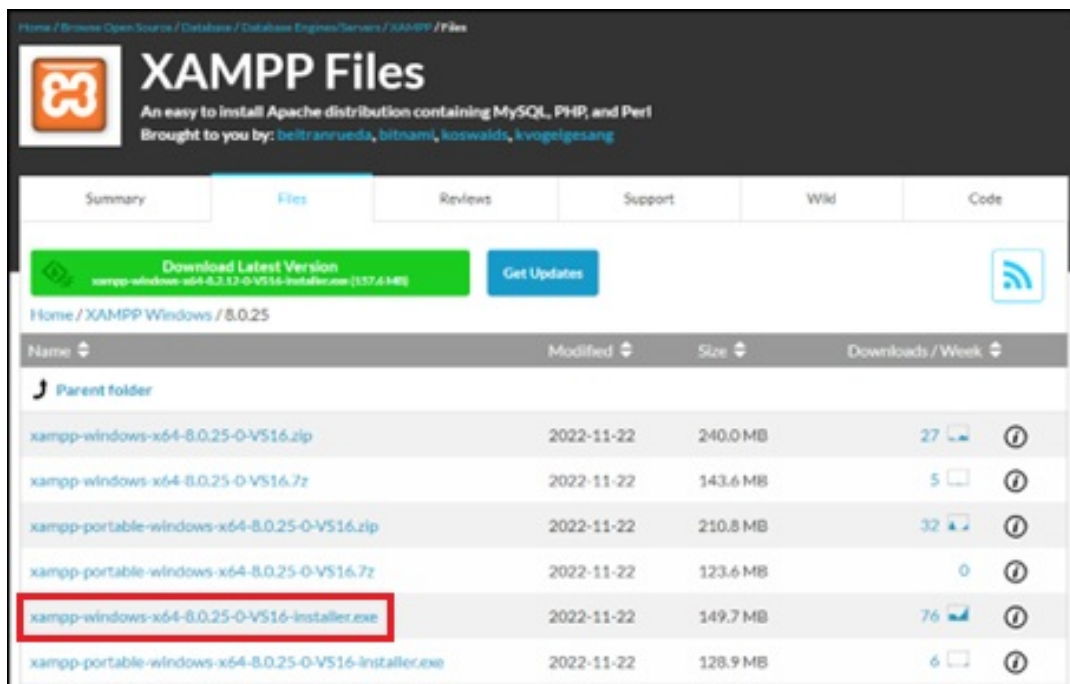
The firmware update process requires the installation of XAMPP, which is a third-party software that runs an Apache server for hosting firmware files.



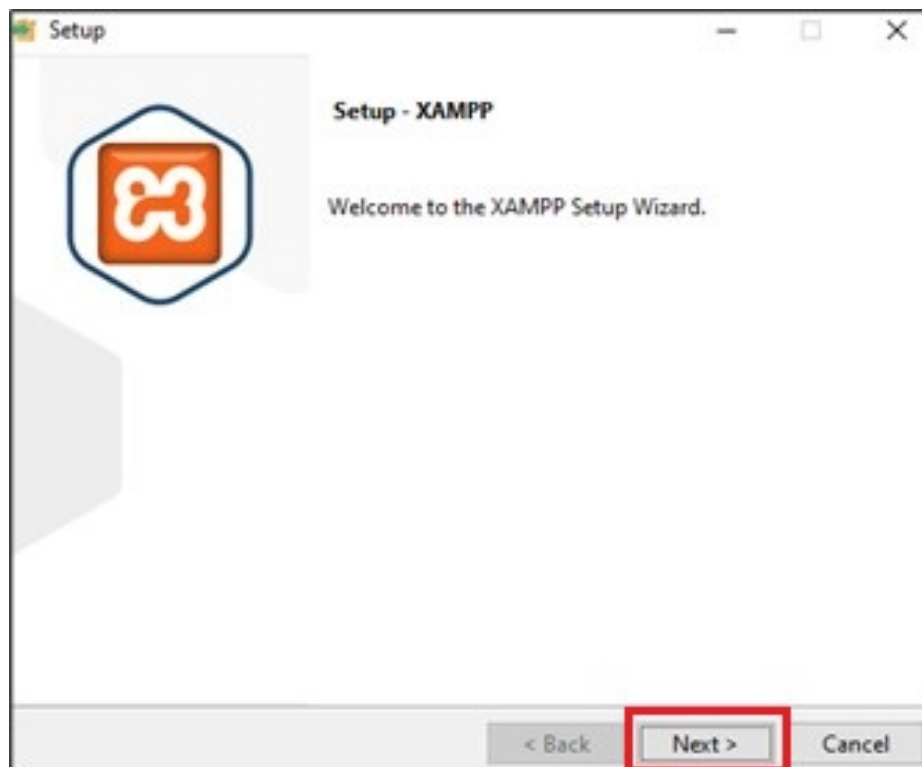
**NOTE:** The XAMPP software has only been verified on Windows. Mac OS and Linux versions are available, but this guide pertains to the Windows version.

The steps below detail how to download, install, and set up the XAMPP software:

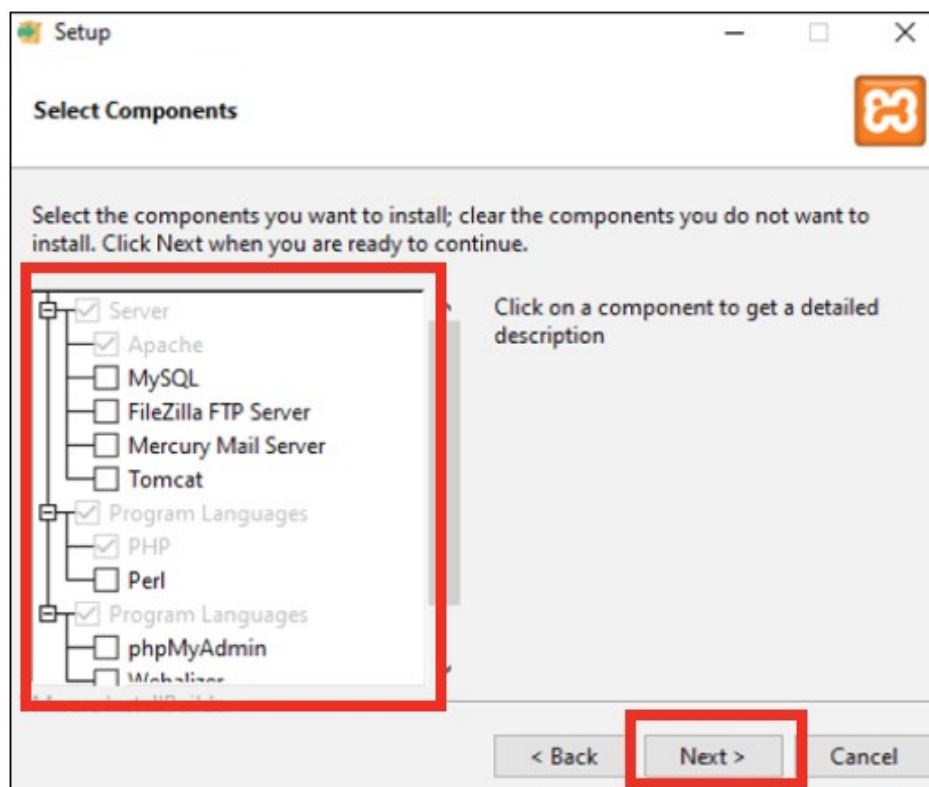
01. Download XAMPP version 8.0.25 for Windows from the following link:  
<https://sourceforge.net/projects/xampp/files/XAMPP%20Windows/8.0.25/>



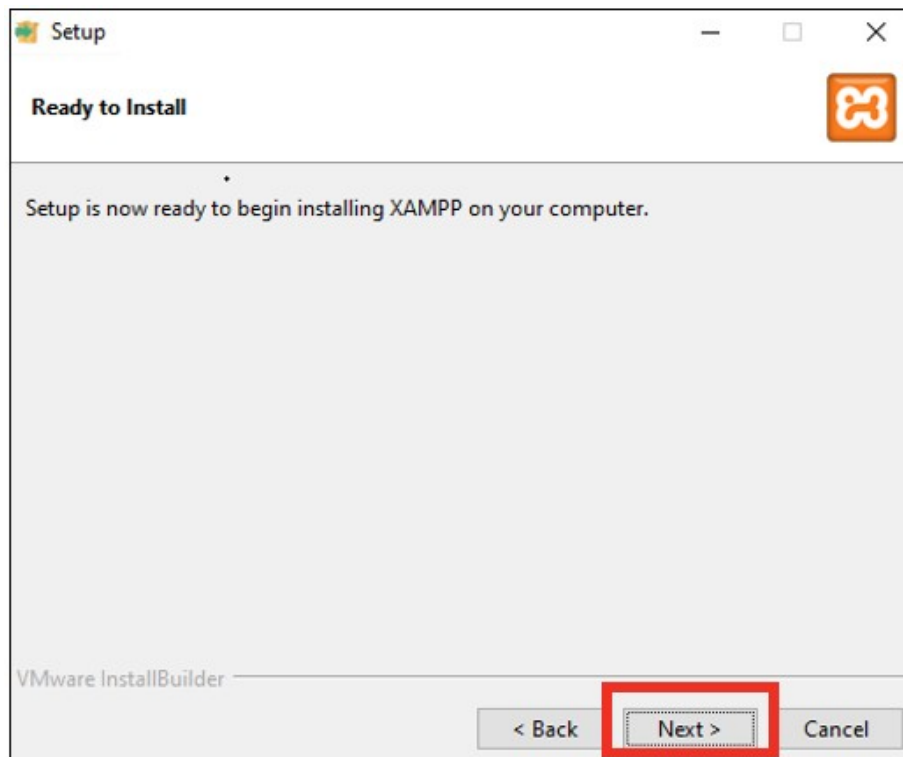
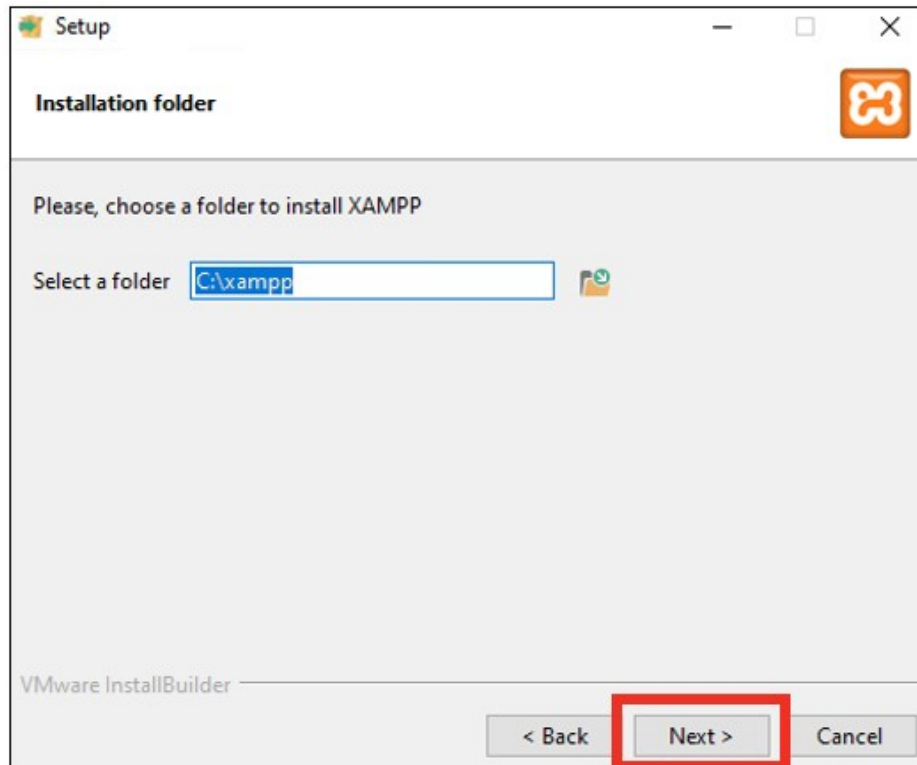
02. Run the executable file to install XAMPP, the following dialogue box appears:

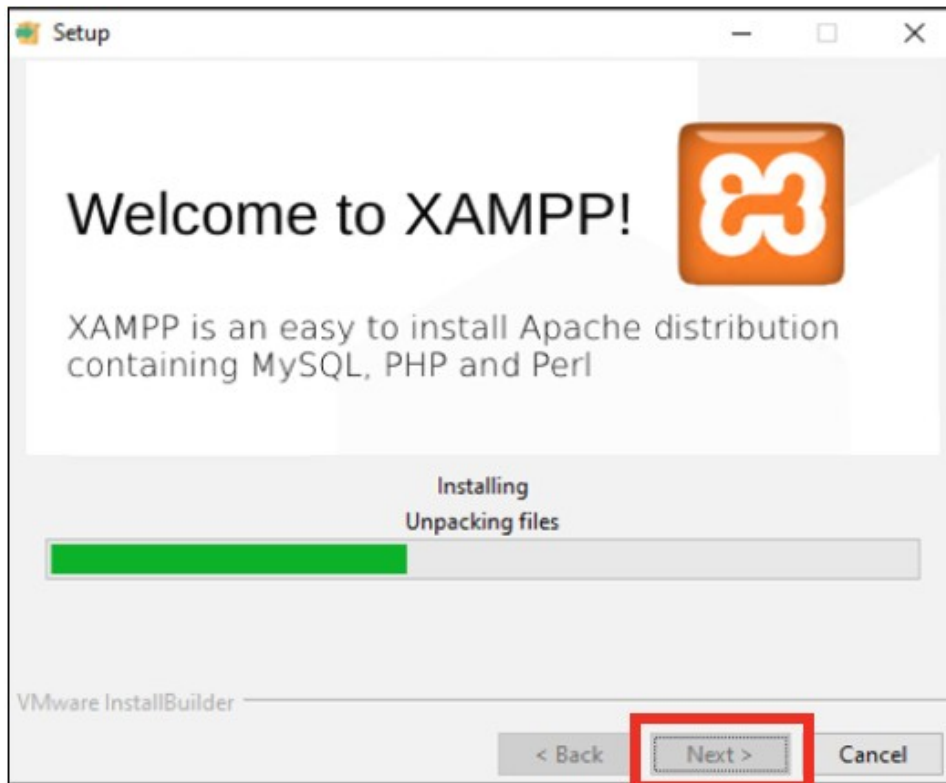


03. Click “Next” to proceed with the installation, the following dialogue box appears:

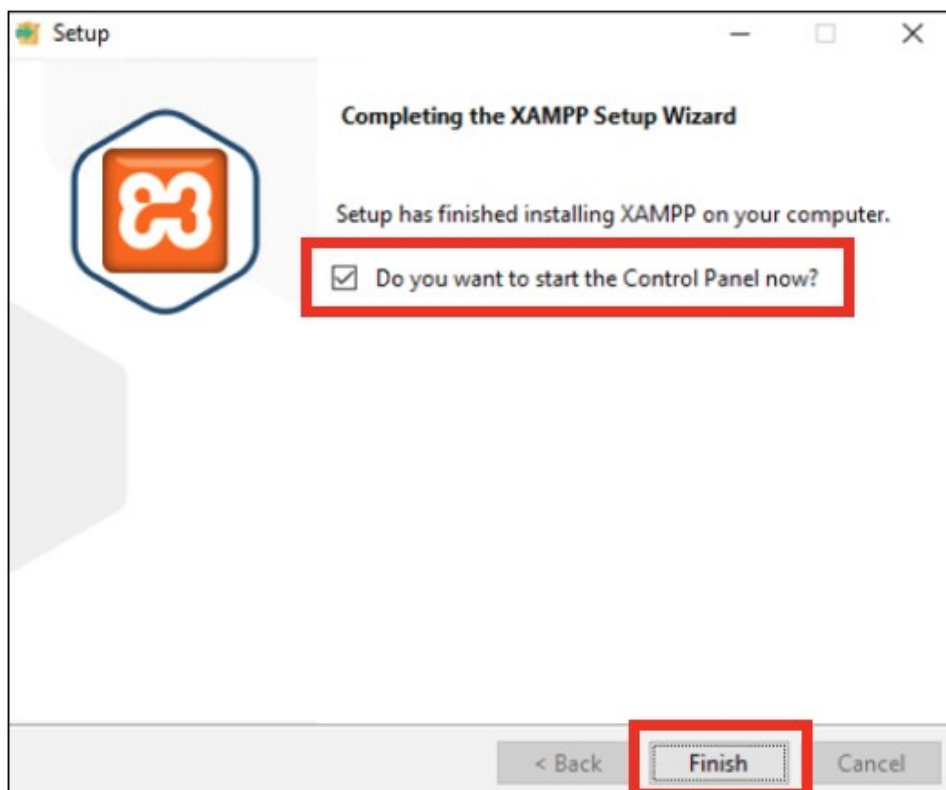


04. Uncheck all optional tools then click “Next”.
05. Leave the default installation folder as is then click “Next” on the following screens:



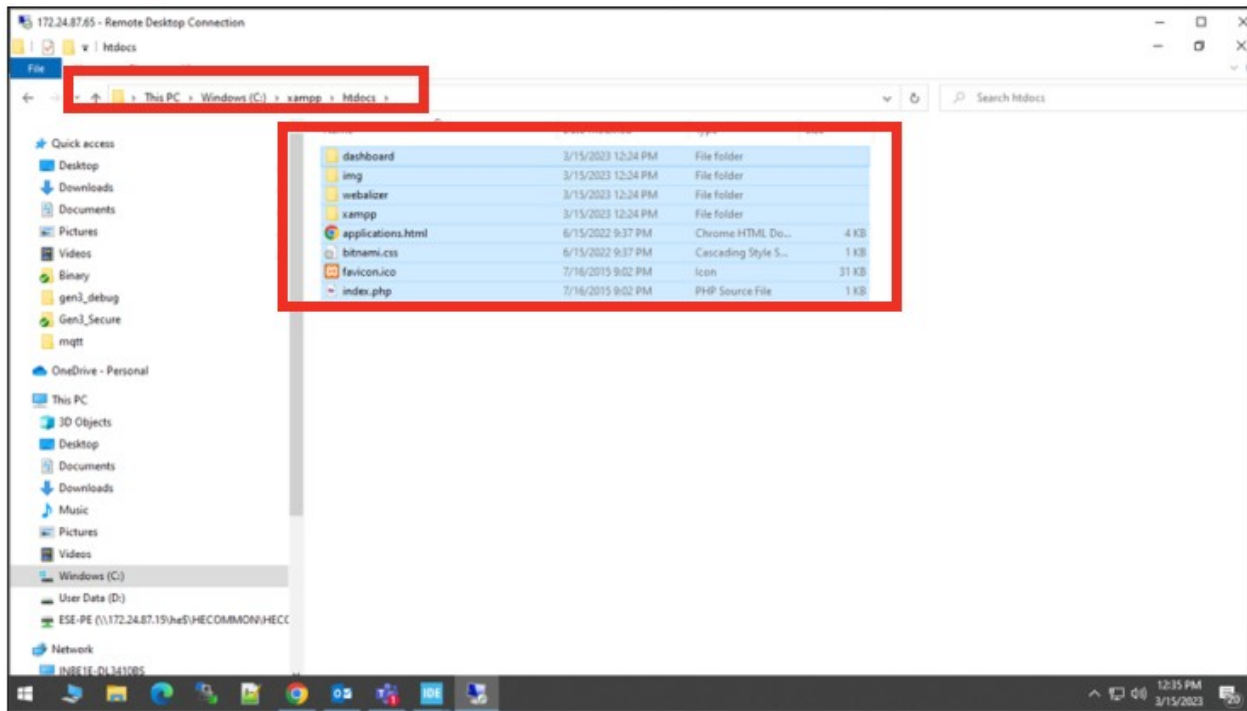


06. After the installation is completed, click “Next”, the following dialog box appears:

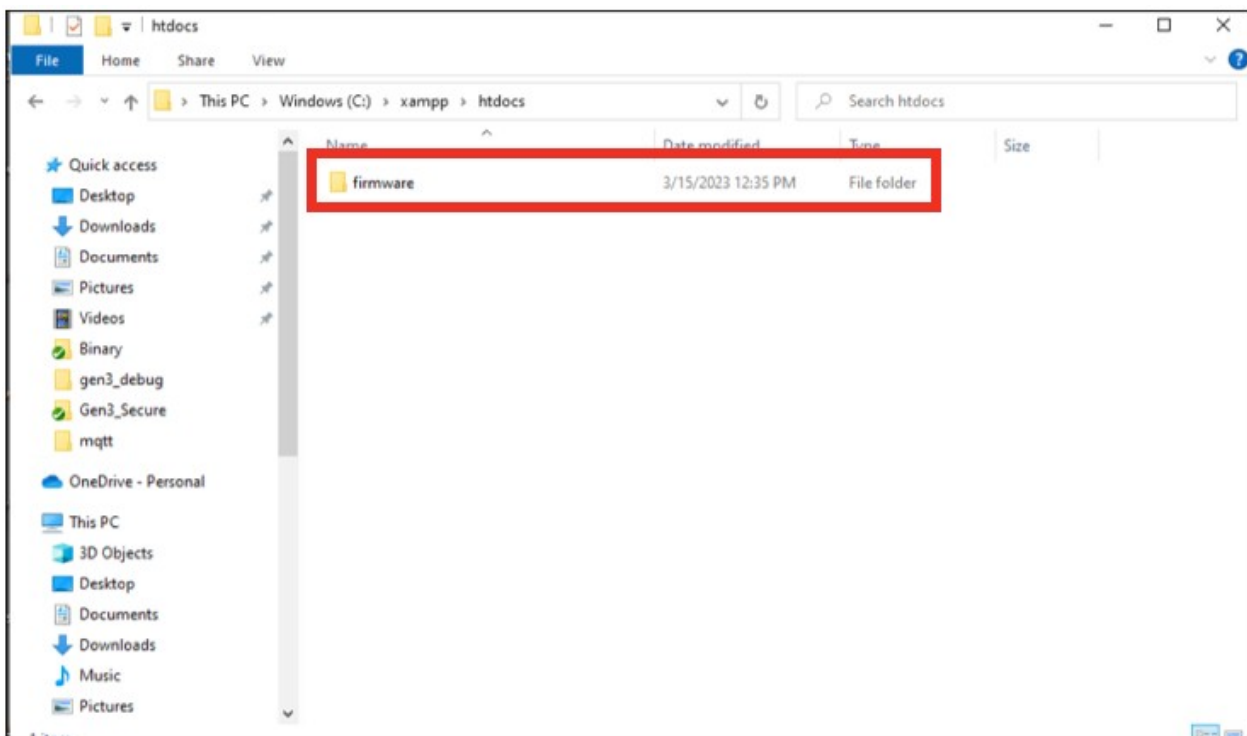


07. Select the option to open the Control Panel now then click “Finish”.

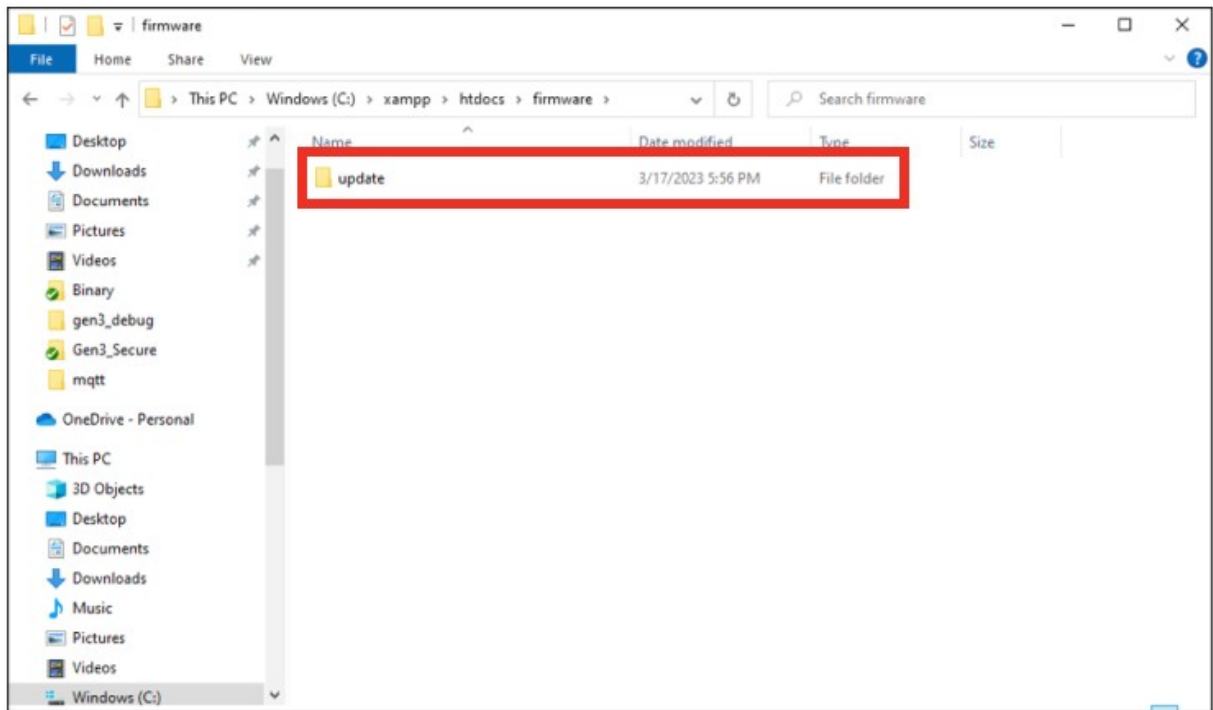
08. Open the folder (C://xampp/htdocs) and delete the following files:



09. Create a new folder in (C://xampp/htdocs) and name it (firmware), as shown below:



10. Open the (firmware) folder and create a new folder inside and name it (update), as shown below:

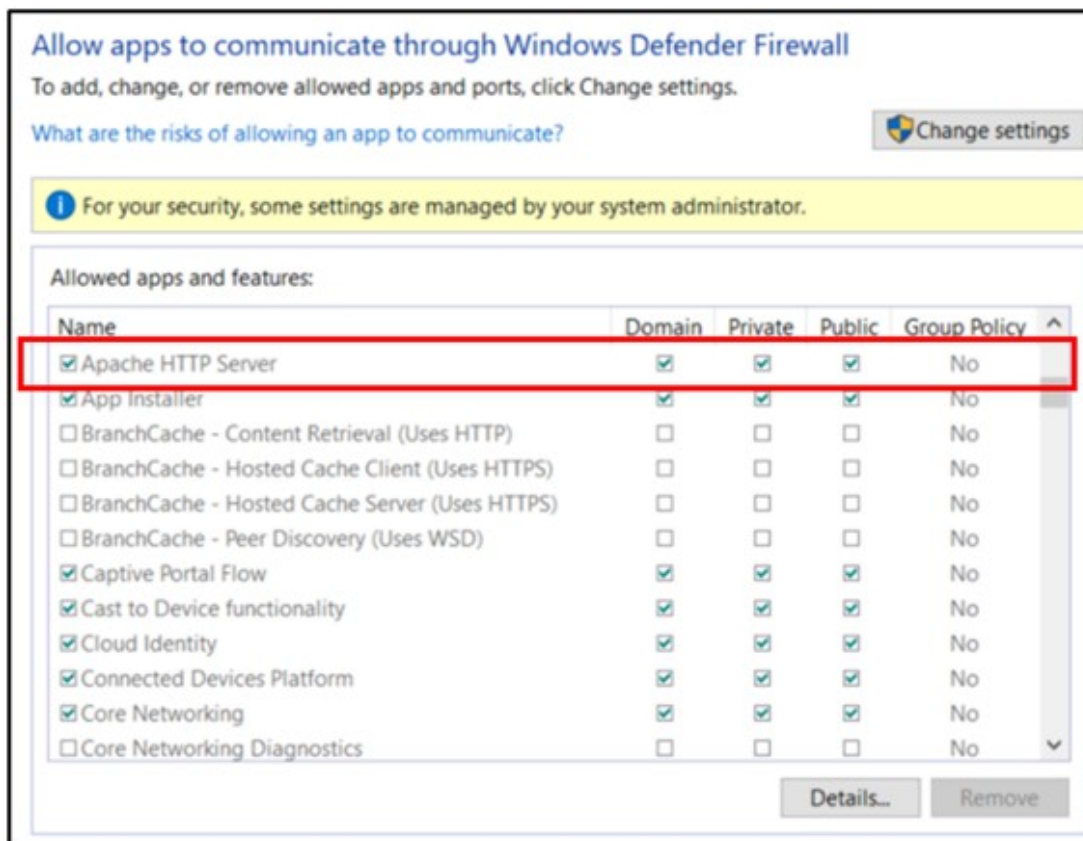


The setup of the XAMPP software is now complete.

## SECTION 3: RUNNING APACHE SERVER

The procedure to run the Apache server, which setup is explained in the previous section, is as follows:

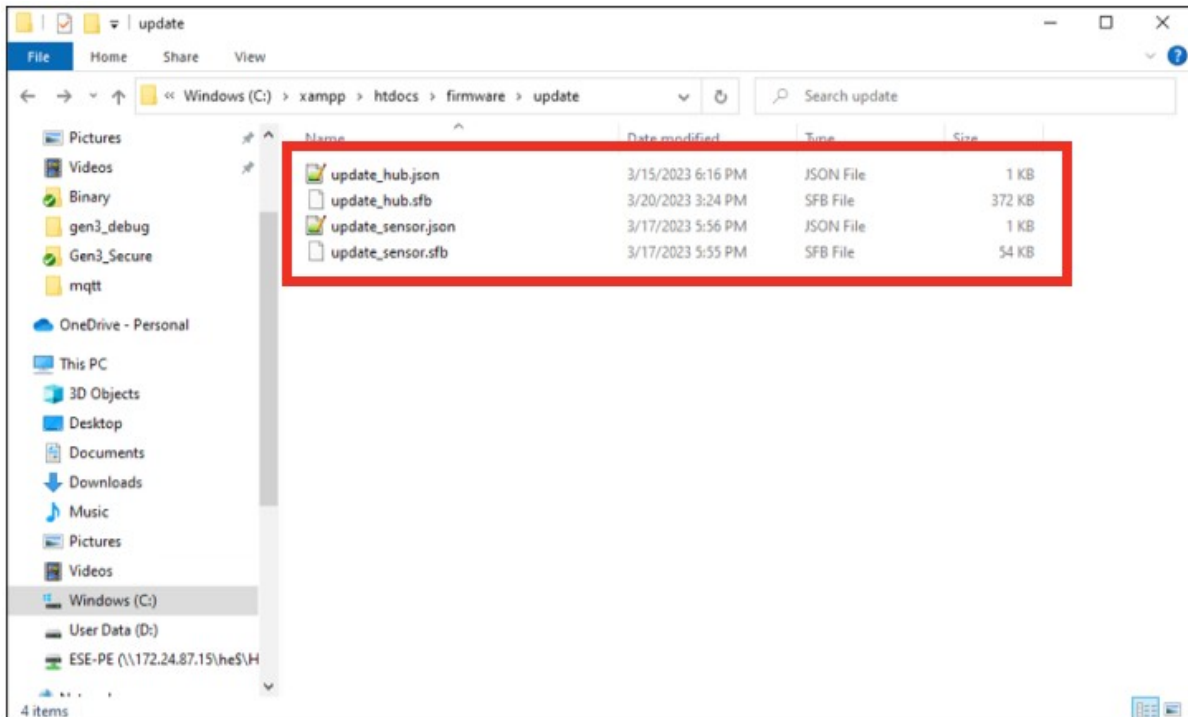
01. Ensure that the Apache server has permission to communicate through any firewalls on the laptop.
  - From the Windows Control Panel, navigate to Windows Defender Firewall and Allowed Apps. Verify that the Apache HTTP Server is allowed to communicate through all firewalls, as shown below. If necessary, use “Change settings” to give the Apache server permission.



02. Copy the firmware update files to the folder (C://xampp/htdocs/firmware/update) as shown below. There are two files for the sensor firmware (.sfh and .json) and another two files for the hub firmware.

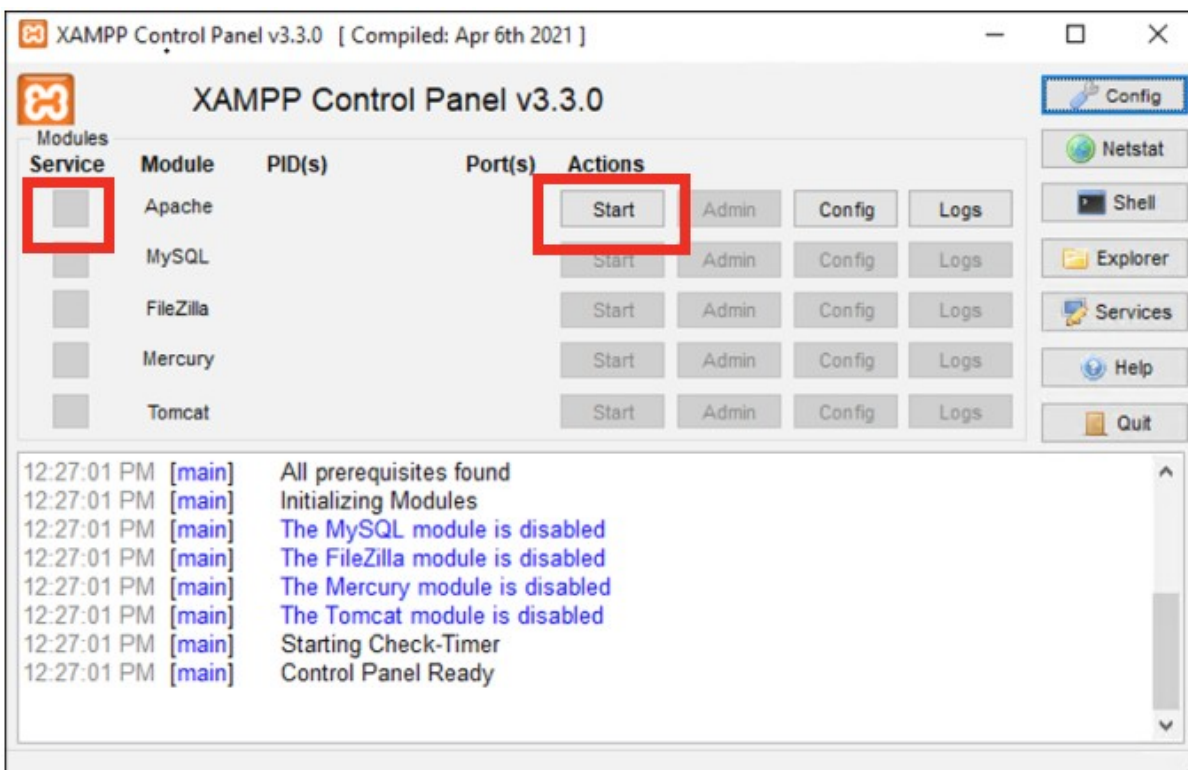


**NOTE:** To update either the hub or the sensor, only move the respective device's files to the (update) folder. For example, to only update the sensor firmware, only copy the sensor's (.sfh and .json) files to the (update) folder.

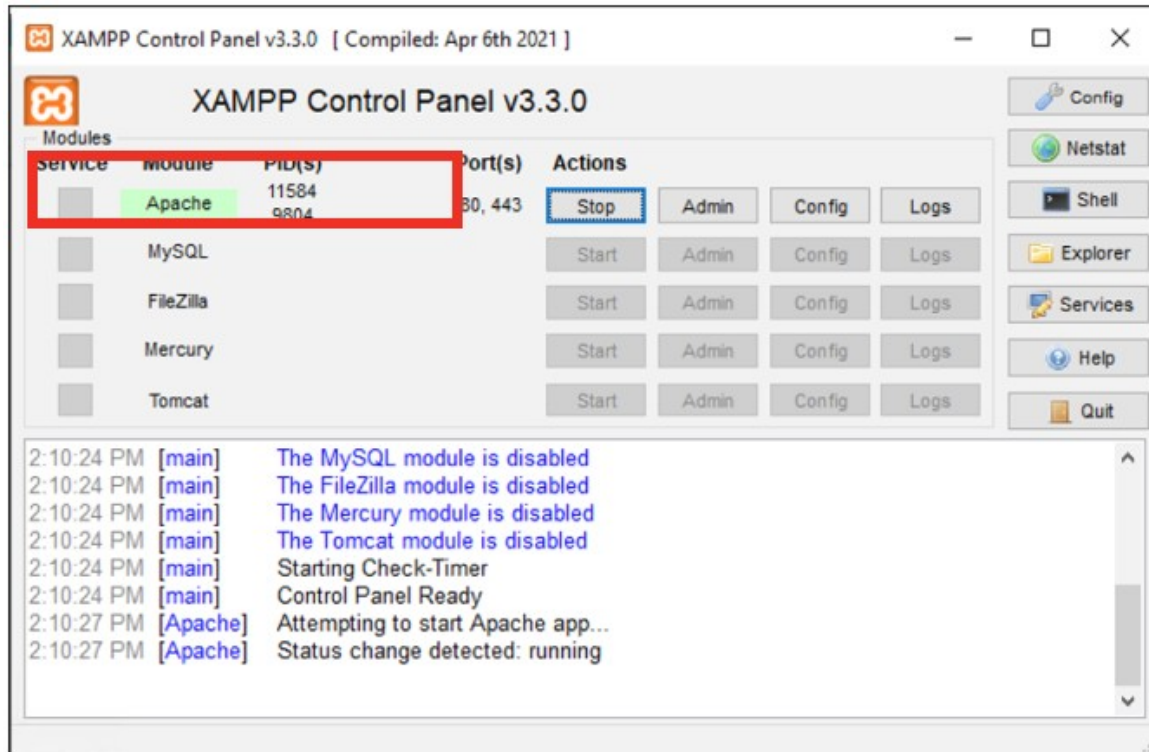


03. On the XAMPP software control panel that is shown below, click “Start”. If there is a red “X” in the checkbox next to the Apache service module, click that checkbox and follow the prompts to enable the Apache service module.

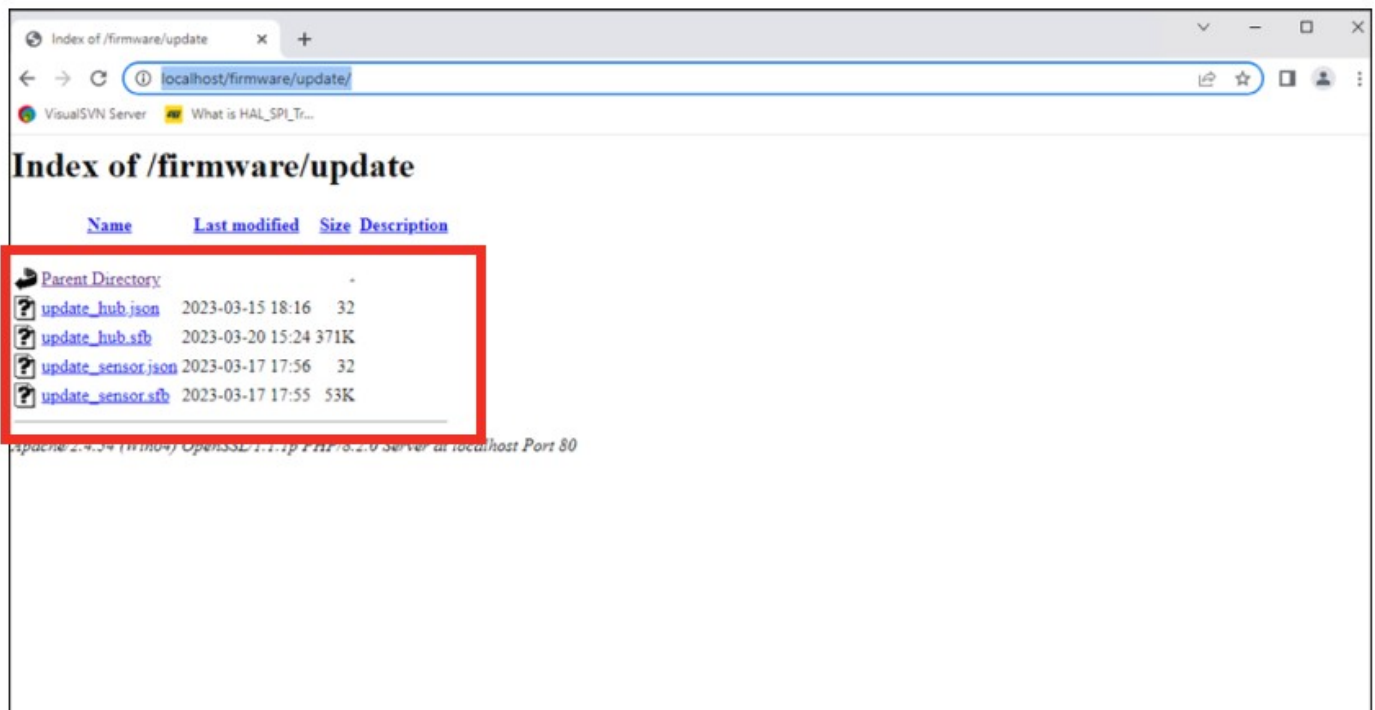
The Apache service checkbox should either be empty, as shown below, or the Apache module is highlighted in green before proceeding.



After starting the Apache server, the control panel should appear as shown below:



04. Open this link (<http://localhost/firmware/update>), the below page should appear with the update files listed:



## SECTION 4: FIRMWARE UPDATE PROCEDURE

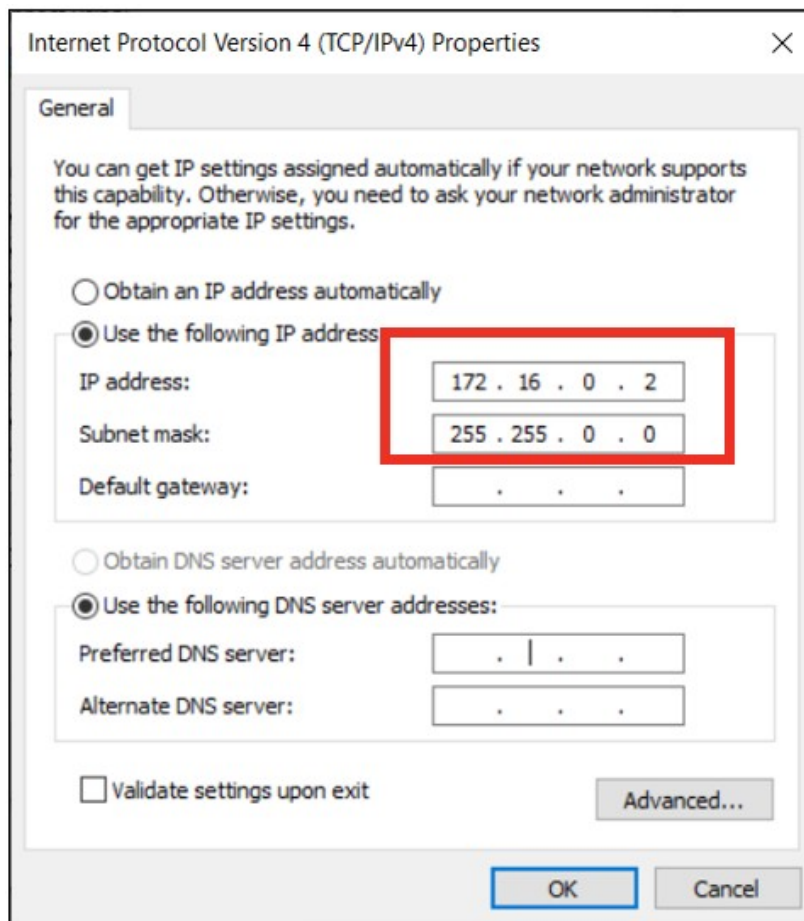
Follow the procedure below to update the sensor and hub's firmware.

### Required Materials for Testing:

- Laptop with ethernet port or adapter
- WiFi (from local network or cellphone hotspot) or LAN connection
- Li-ion Tamer GEN 3 system, setup as typical

### Option A (WiFi):

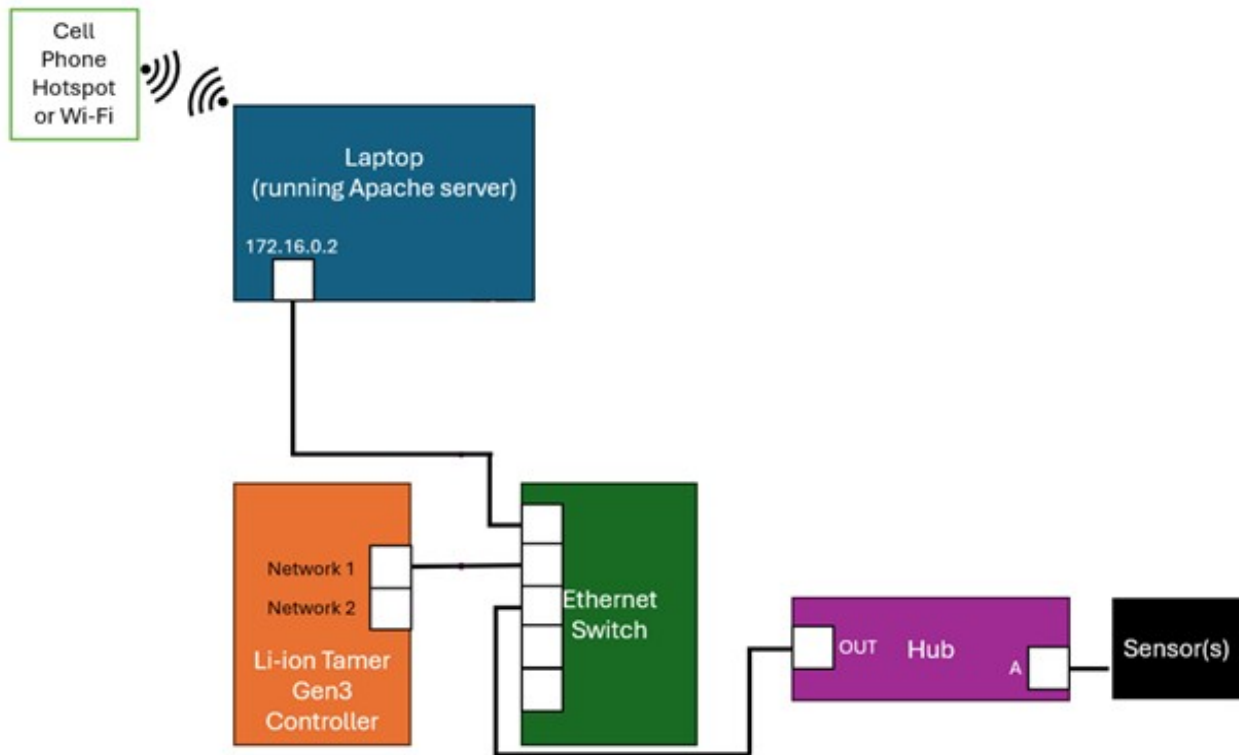
01. Power OFF the hub and sensor chains that require the firmware update. Multiple hub and sensor chains can be updated simultaneously.
02. Set the laptop ethernet port to a static IP address of 172.16.0.2, as shown below:



03. Set up the system by following the below steps:

- a. Connect the laptop to WiFi from either a local network or cellphone hotspot.
- b. Connect the laptop ethernet port (set to a static IP in Step 01) to the ethernet switch that is connected to the Network 1 port of the Li-ion Tamer Controller.

Hubs and sensors are powered OFF and connected as typical to the ethernet switch. PoE hubs will be unplugged from the PoE switch so they are powered OFF.



04. Verify that the controller and ethernet switch are powered ON.

05. Load the firmware files and run the Apache server according to [Section 3](#).

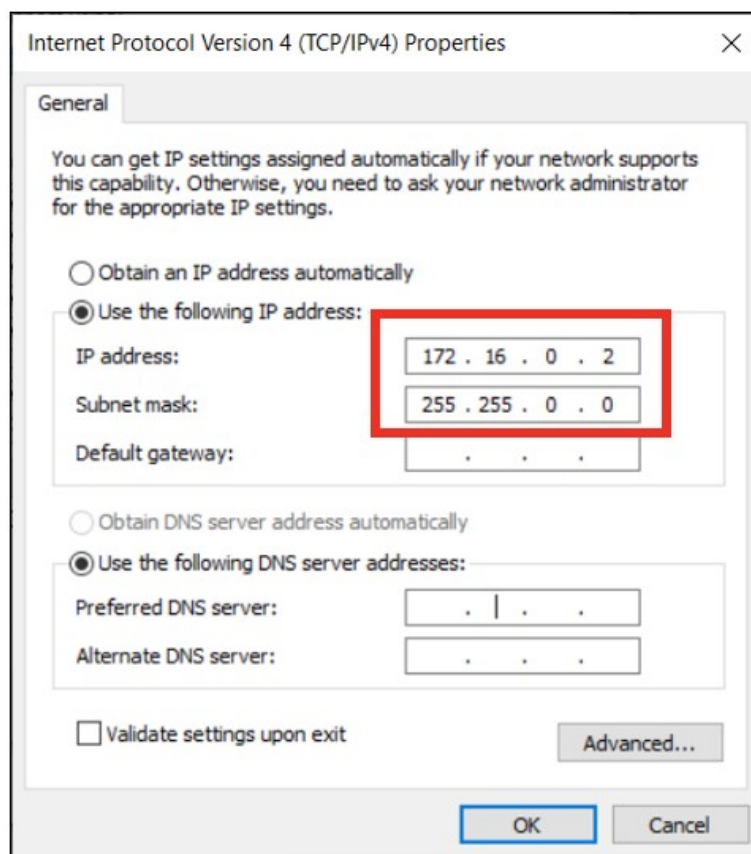
06. Power ON all hubs and sensors that require the firmware update. The firmware update process will begin in about 1 minute after powering ON.

- When the process is running, the devices receiving the firmware update will flash white LEDs.
- Firmware update typically takes 5 minutes. If device LEDs flash white for more than 10 minutes, contact a Honeywell representative as further troubleshooting may be needed.

- When sensor firmware update is complete, the sensor LEDs will stop flashing white and will transition to a slow blue flash, followed by the green blip indicating normal operation.
  - When hub firmware update is complete, the hub LEDs will stop flashing white and will transition to a slow blue flash, followed by fast blue flashing indicating they are connecting to the sensors.
07. Once the sensor LEDs indicate a green blip and the hub LEDs indicate a fast blue flash, power OFF all hubs and sensors that received the firmware update.
08. Stop the Apache server.
09. Power the hubs and sensors ON and confirm that they have received the new firmware version via the controller's software interface dashboard.

### Option B (LAN):

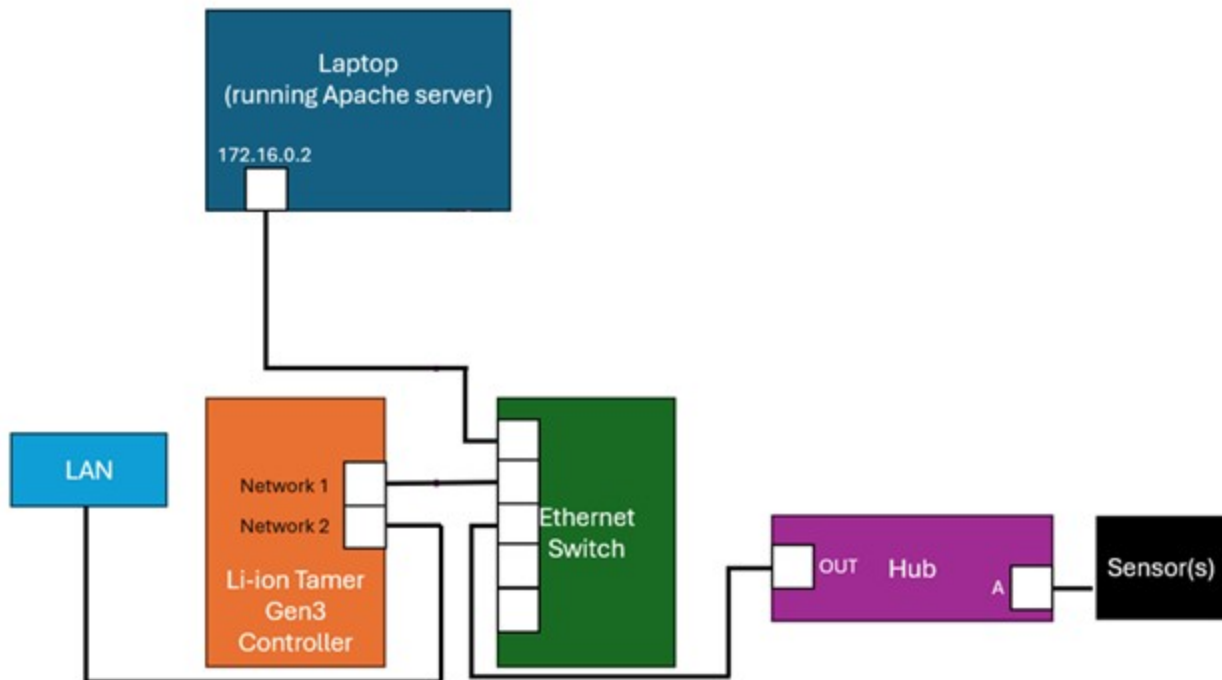
01. Power OFF the hub and sensor chains that require the firmware update. Multiple hub and sensor chains can be updated simultaneously.
02. Set the laptop ethernet port to a static IP address of 172.16.0.2, as shown next:



03. Set up the system by following the below steps:

- Connect the laptop ethernet port (set to a static IP in Step 01) to the ethernet switch that is connected to the Network 1 port of the Li-ion Tamer Controller.
- Connect Controller Network 2 port to a LAN.

Hubs and sensors are powered OFF and connected as typical to the ethernet switch. PoE hubs will be unplugged from the PoE switch so they are powered OFF.



04. Follow Steps 04 through 09 from Option A to continue updating sensor and hub firmware.

## SECTION 5: FURTHER SUPPORT

For firmware files, please contact a Honeywell representative.

For further information or inquiries, please contact a Honeywell office or distributor.