

## How to Update Firmware & HTML - iPower Generation 2

You will need the following 3 files in order to update the firmware and HTML -

1. PDU\_Bootloader.exe (Windows executable program used to load firmware into PDU)
2. PDUSNMP10506.hex (the firmware file version 1.05.06)
3. PDUSNMP10305.bin (the HTML file version 1.03.05)

NOTE - please make sure these files are in a location on your PC (such as a folder on your Desktop) so they are readily accessible to use when needed.

\* The above version numbers were correct at time of going to press (16/08/16) and may now be different. Please check with your vendor if in doubt.

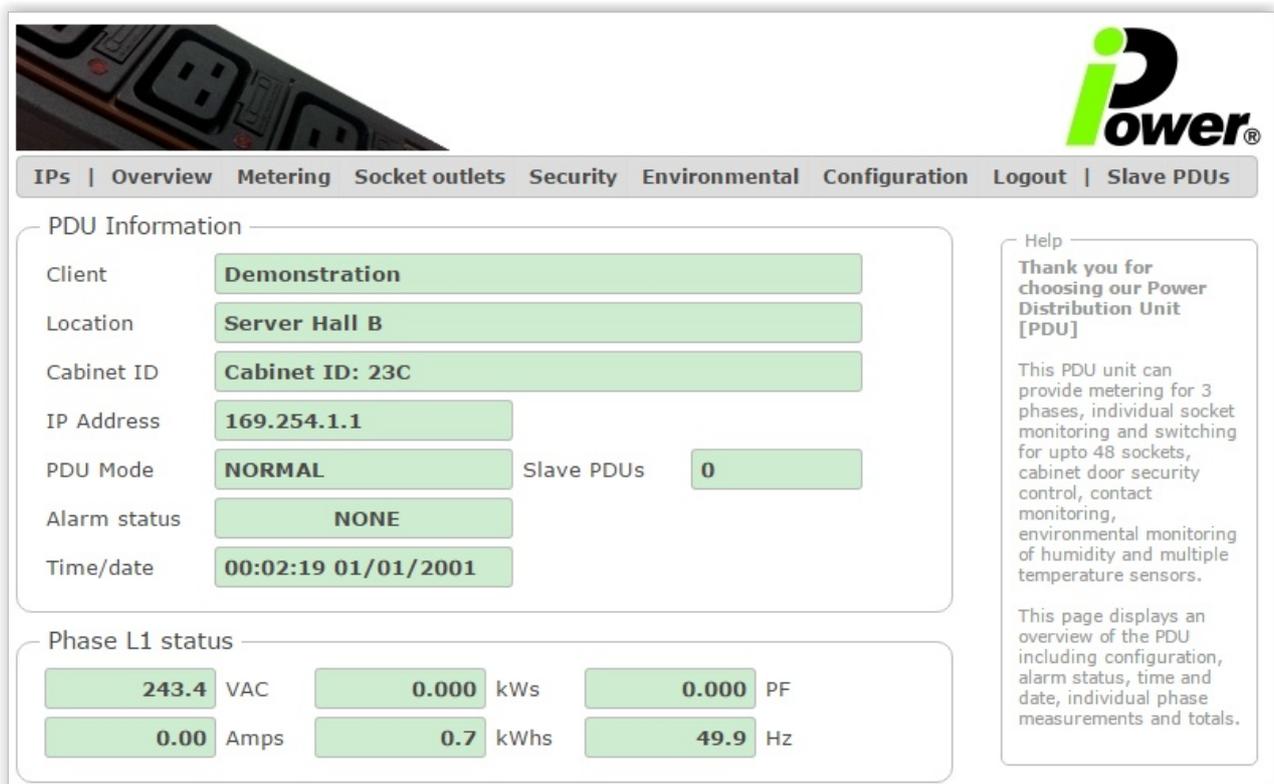
IMPORTANT - please follow the update procedures EXACTLY as shown to avoid problems.

Connect the iPower unit to a Windows PC or Laptop via the Ethernet Socket and switch the iPower Unit On.

The default IP address should be 169.254.1.1 unless you have changed it.

Ensure you can see the web interface on your Windows PC or Laptop web browser by typing in the IP address in the browser address bar then log in using Admin / Admin or whatever you have your iPower Unit login set to.

You should now be able to see a web page similar to the following -



The screenshot displays the iPower web interface. At the top right is the iPower logo. Below it is a navigation menu with the following items: IPs | Overview | Metering | Socket outlets | Security | Environmental | Configuration | Logout | Slave PDUs. The main content area is divided into two sections: PDU Information and Phase L1 status.

**PDU Information**

Client	Demonstration		
Location	Server Hall B		
Cabinet ID	Cabinet ID: 23C		
IP Address	169.254.1.1		
PDU Mode	NORMAL	Slave PDUs	0
Alarm status	NONE		
Time/date	00:02:19 01/01/2001		

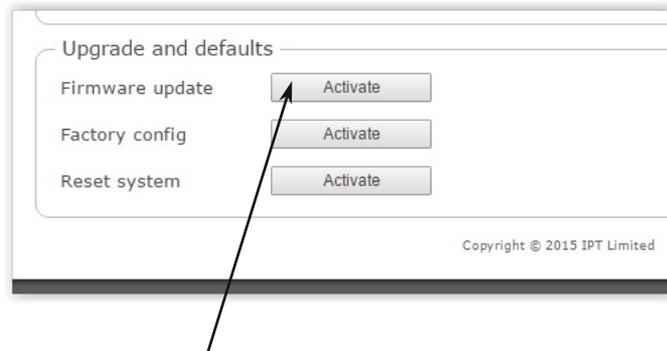
**Phase L1 status**

243.4	VAC	0.000	kWs	0.000	PF
0.00	Amps	0.7	kWhs	49.9	Hz

**Help**  
 Thank you for choosing our Power Distribution Unit [PDU]  
 This PDU unit can provide metering for 3 phases, individual socket monitoring and switching for upto 48 sockets, cabinet door security control, contact monitoring, environmental monitoring of humidity and multiple temperature sensors.  
 This page displays an overview of the PDU including configuration, alarm status, time and date, individual phase measurements and totals.

Click the 'Configuration' tab and scroll to the bottom of the page.

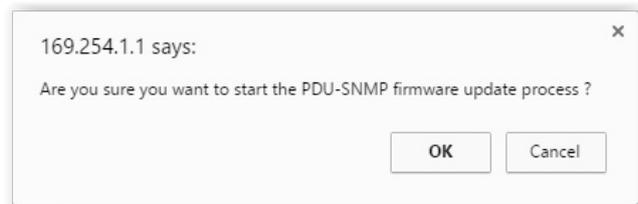
You will see the following -



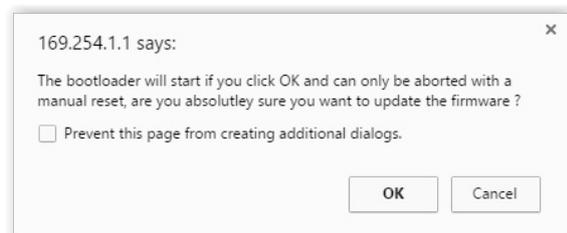
Click the 'Activate' button for the 'Firmware update'.

You will see the following series of pop-up screens. In each case just click OK.

Click OK

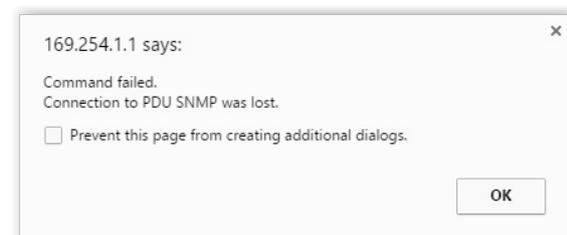


Click OK



By starting the update procedure the web interface is now disconnected from the network. This is correct and nothing to worry about.

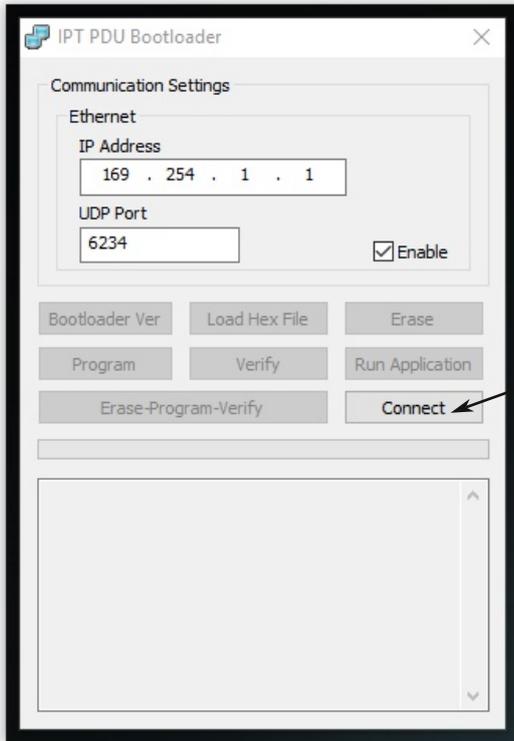
Click OK and move on to the next stage.



**WARNING - Under NO circumstances** must you switch off the PDU or disconnect the network cable from the PDU or PC during this process.

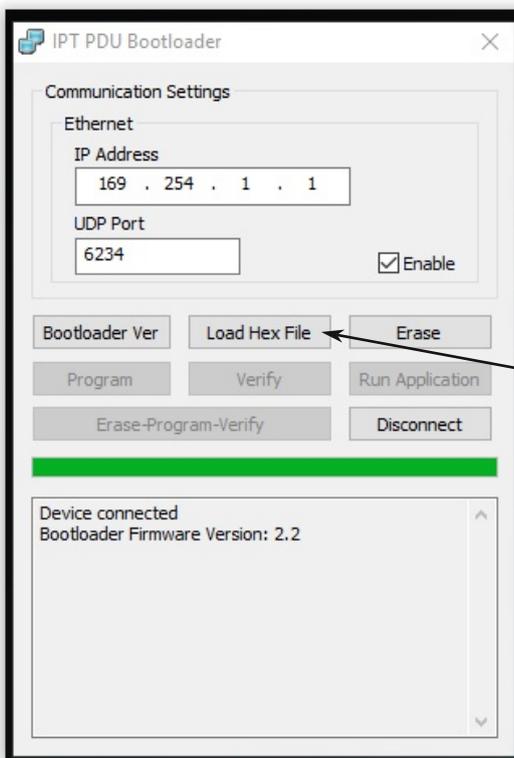
Double click the PDU\_Bootloader to start the Firmware update software.

You should see the following -



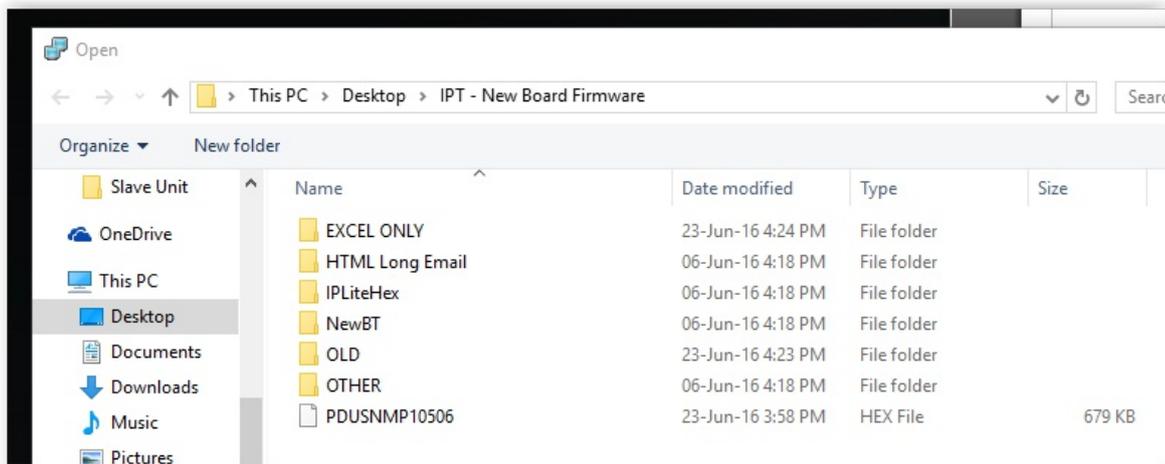
Ensure that the IP address is correct for the unit you are updating.

Click the 'Connect' button.



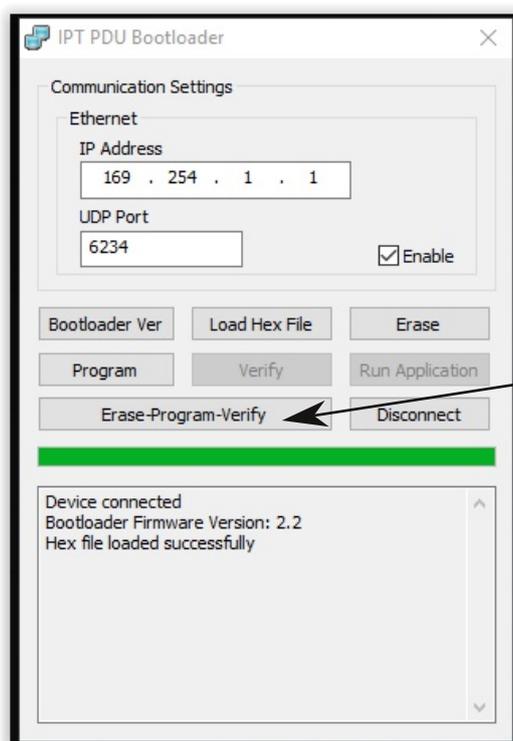
You should now see the following showing you have correctly connected the update software to the PDU.

Next click the 'Load Hex File' button to load the firmware into the software ready to send to the PDU.



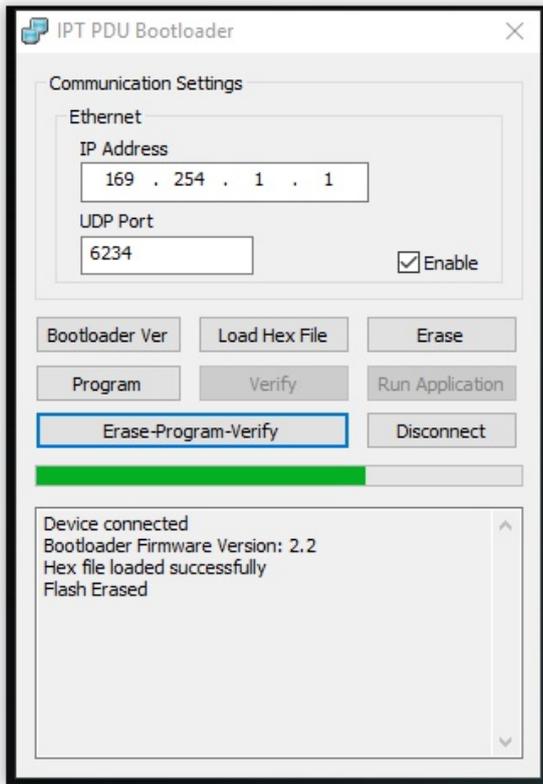
Windows File Manager will open up.

Double click the PDUSNMP10506.hex file from the folder or location you put it in.



The software will then indicate you have correctly loaded the hex file ready for use.

At this point you can start the update procedure by clicking the 'Erase-Program-Verify' button.



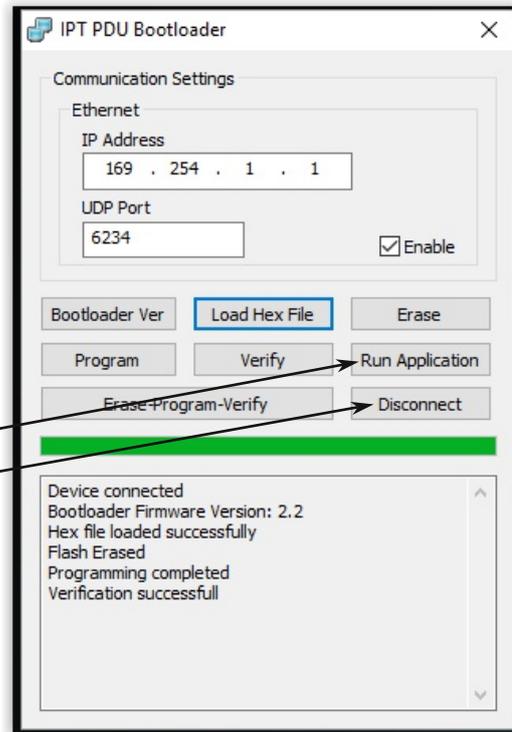
The software will then erase the flash memory, insert the new firmware and verify that all is well.

This screen shot shows the operation just after it has started. The progress bar scrolls to indicate each stage.

When done the screen will look like this.

Now click the 'Run Application' button followed by the 'Disconnect' button.

This restarts the PDU with it's new firmware in place and disconnects the firmware update software.

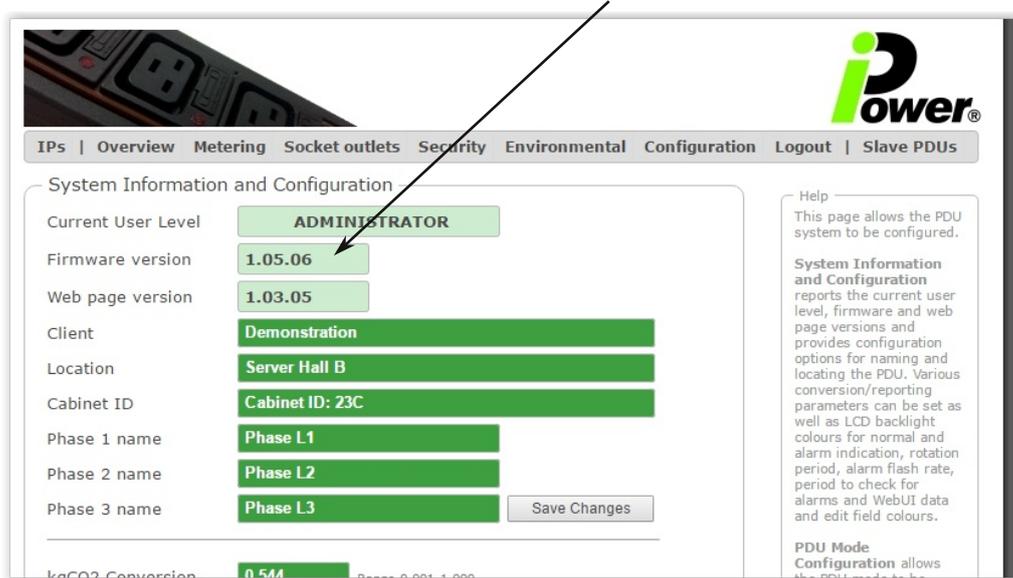


Next . . .

Please wait a couple of minutes then return to the web browser and a refresh (F5) and you should see the PDU again but this time with updated firmware.

To double check this click the 'Configuration' tab and check the Firmware version.

In our example the firmware version is now 1.05.06



Next you will need to update the HTML file to ensure functional compatibility between the HTML interface and the firmware. The pages for doing this are built into the PDU.

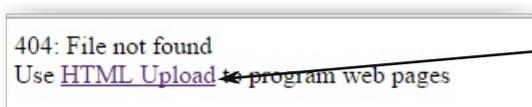
The procedure itself is quick and easy and simply involves uploading the .bin file to the PDU via the web browser.

## How to update the HTML

In the address bar of the web browser type in the following after your ipaddress  
http://your.ip.address/htmlupload/

example http://169.254.1.1/htmlupload/

You should then see the following -



Click the 'HTML' Upload' link



Click the 'Choose File' button and the file manager will open up.

Next . . .

PDU_Bootloader	07-May-14 4:43 PM	Application	1,923 KB
PDUSNMP10305.bin	03-May-16 11:51 ...	BIN File	282 KB
PDUSNMP10596	23-Jun-16 3:58 PM	HEX File	679 KB

Double click the PDUSNMP10305.bin file.

You should then see the following -

### HTML Image Upload

PDUSNMP10305.bin

Now click the 'Upload' button

At this point please wait until the page changes and updates itself.

You should see the following -

### HTML Update Successful

[Site main page](#)

Now click the 'Site main page' link and you should see the home page for your PDU -

The screenshot shows the iPower PDU management interface. At the top right is the iPower logo. Below it is a navigation menu with links: IPs | Overview | Metering | Socket outlets | Security | Environmental | Configuration | Logout | Slave PDUs. The main content area is divided into two sections. The first section is 'PDU Information' and contains the following data: Client: Demonstration; Location: Server Hall B; Cabinet ID: Cabinet ID: 23C; IP Address: 169.254.1.1; PDU Mode: NORMAL; Alarm status: NONE; Time/date: 00:02:19 01/01/2001. The second section is 'Phase L1 status' and contains the following data: 243.4 VAC, 0.000 kW, 0.000 PF, 0.00 Amps, 0.7 kWh, 49.9 Hz. On the right side of the interface, there is a 'Help' section with a message: 'Thank you for choosing our Power Distribution Unit [PDU]' and a description of the PDU unit's capabilities: 'This PDU unit can provide metering for 3 phases, individual socket monitoring and switching for upto 48 sockets, cabinet door security control, contact monitoring, environmental monitoring of humidity and multiple temperature sensors.' Below this is another message: 'This page displays an overview of the PDU including configuration, alarm status, time and date, individual phase measurements and totals.'

Next . . .

To double check your HTML version click the 'Configuration' tab.

In our example the HTML version is 1.03.05

That's it!

