# Steps to change from CPE to AP mode for the CPE-2

These are the steps to configure the CPE firmware after it has been installed in the Deliberant CPE-2. This configuration with establish a WISP Mode of operation that will be connected to a wireless router in the WAN port so wireless router can be connected to a wireless AP (like a RV park Wi-Fi).

Assumptions:

The assumption is that the CPE firmware has been installed in the CPE-2.

There is a CPE configuration file.

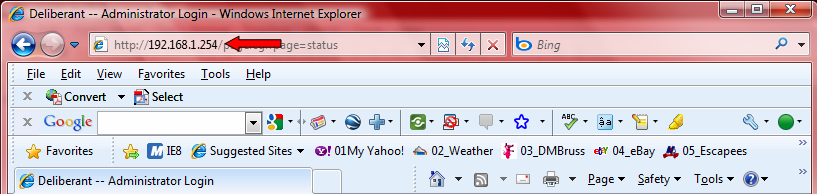
The PC is directly connected with a CAT-5 cable to the CPE POE Power Injector.

The PC’s IP address has been set to 192.168.nn.201where nn is the CPE working IP address node as described in **Changing Your PC’s IP Address**.

The PC is directly connected with a CAT-5 cable to the CPE POE Power Injector.

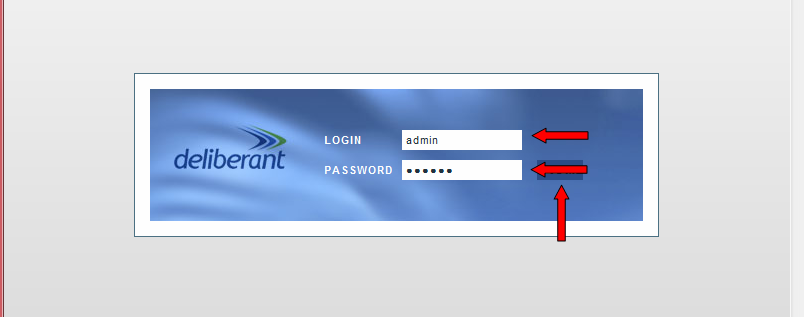
Configuration Steps

1. In the Internet browser window:



Enter the IP Address of CPE LAN address. In this case it is **192.168.1.254**.

2. In the AP firmware **LOGIN** screen:



Enter ***admin*** in the **LOGIN** field and ***the Unique password*** in the **PASSWORD** field.

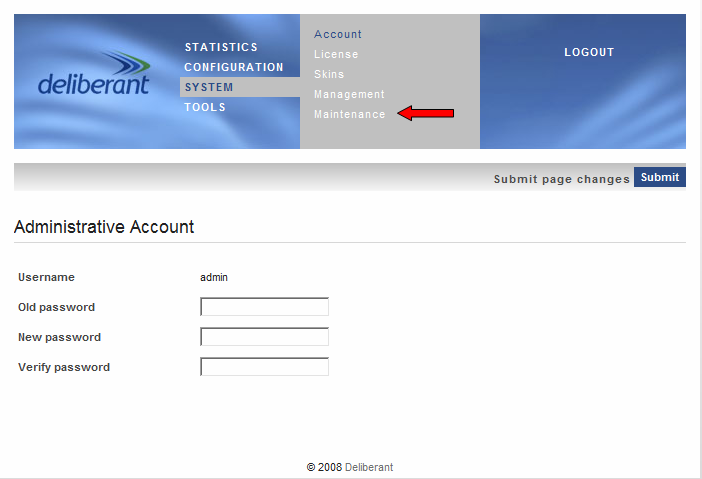
Click the **Login** button.

3. On the **STATISTICS** – **System** **Information** screen:



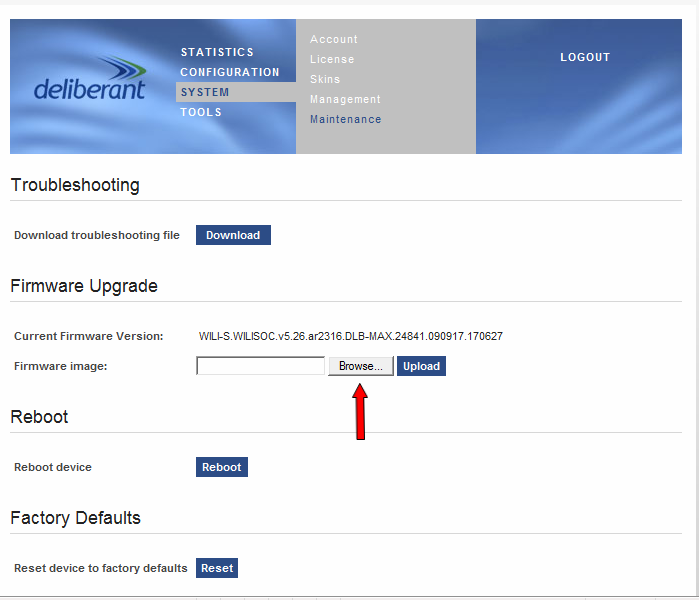
Click on the **SYSTEM** button.

4. On the **SYSTEM** – **Account** screen:



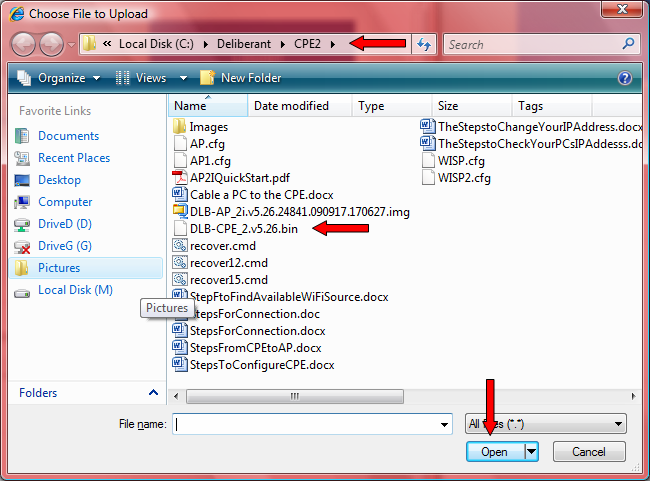
Click on the **Maintenance** button.

5. On the **SYSTEM** – **Maintenance** screen:



Click on the **Browse** button.

6. In the **Choose File to Upload** window:

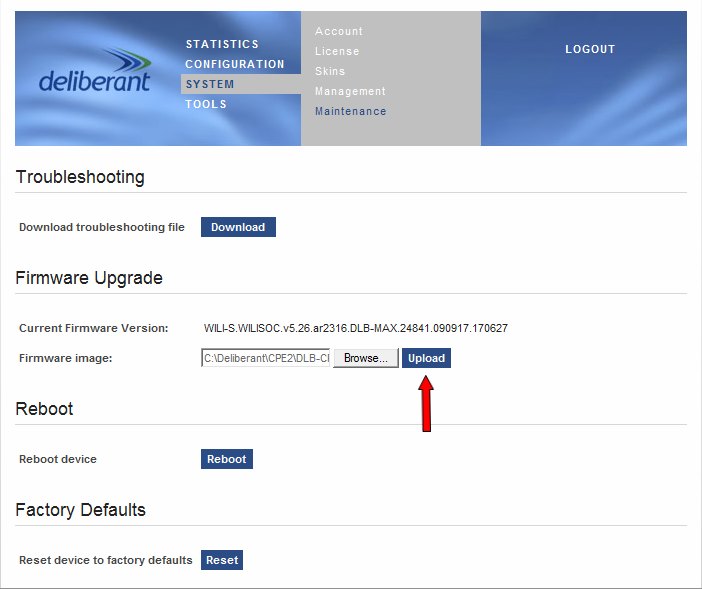


In the **Look in** field, navigate to where the Deliberant files are located. In this case ***CPE2.***

Locate the AP firmware; in this case it is ***DLB-AP\_2i.v5.26.24841.090917.170627.img***.

Click on the **Open** button.

7. On the **SYSTEM** – **Maintenance** screen:



After a short period the screen will refresh with the selected file.

Click on the **Upload** button.

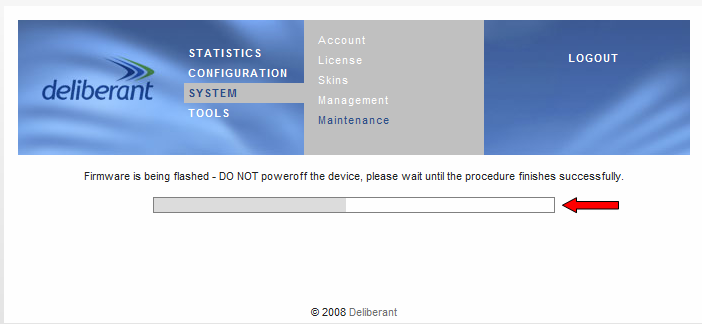
8. On the **SYSTEM** – **Maintenance** screen:



After the firmware file is uploaded to the CPE-2, the Firmware Upgrade screen will appear

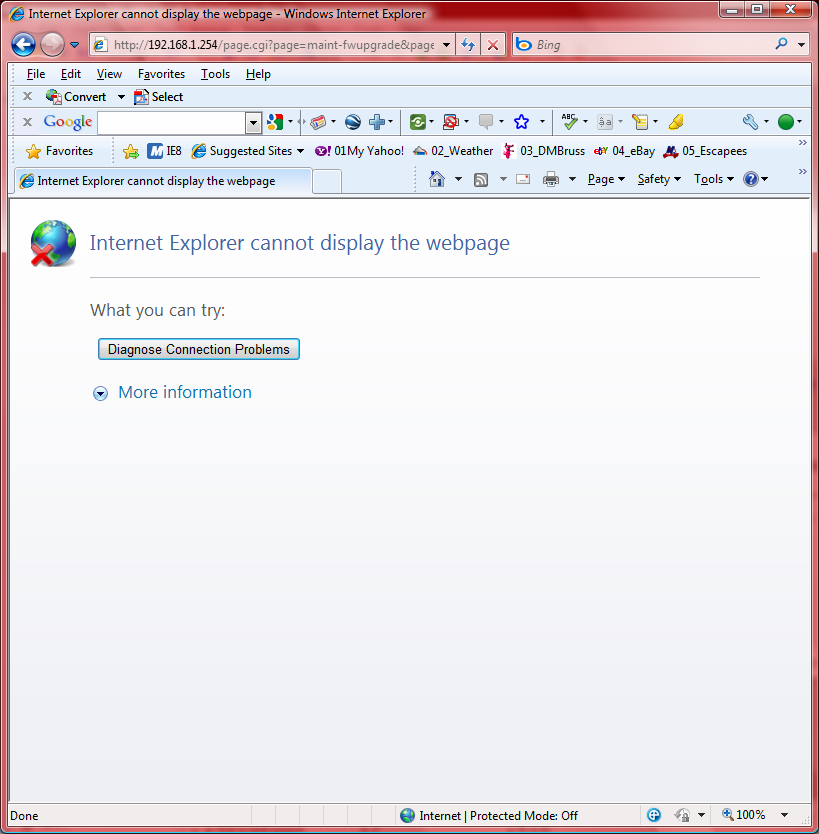
Click on the **Upgrade** button.

9. On the Firmware wait screen:



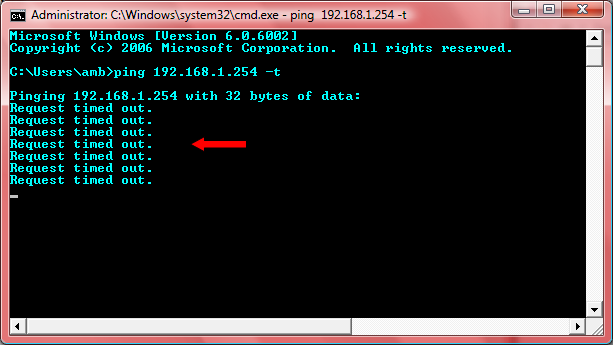
As the screen says, wait.

10. In the Internet browser window:



When this error appears, the firmware upgrade has occurred and the CPE is rebooting.

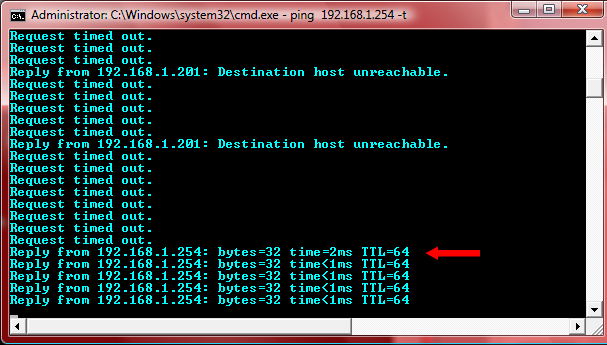
11. In a **Command** window:



A trick to know when to proceed is to open a Command window, see **The Steps to Check Your PC IP Addre*ss.***

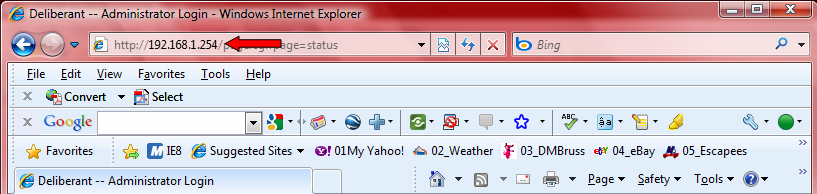
Ping the IP Address of the AP, in this case ***192.168.1.254*** with a ***–t*** which causes a continuous ping.

12. In a **Command** window:



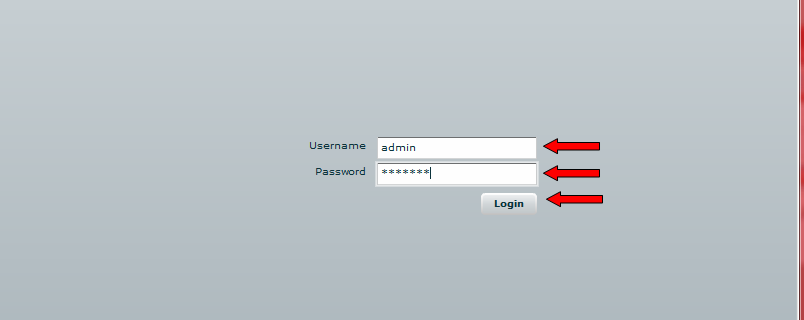
When the AP starts to respond to the ping you can continue.

13. In the Internet browser window:



You have to enter the IP Address of the AP, in this case ***192.168.1.254.***

14. On the CPE firmware **Login** screen:

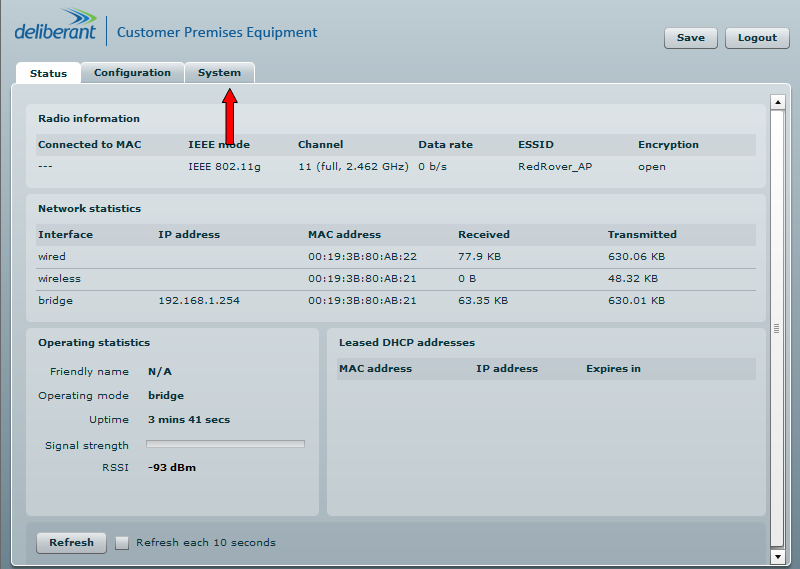


You will note the screens have changed.

Enter ***admin*** in the **Username** field and ***the Unique password*** in the **Password** field.

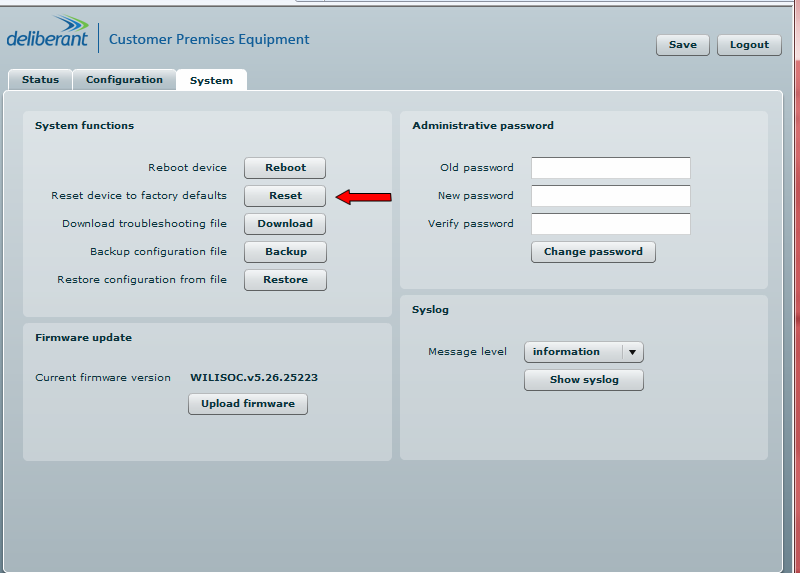
Click the **Login** button.

15. On the **Status** tab screen:



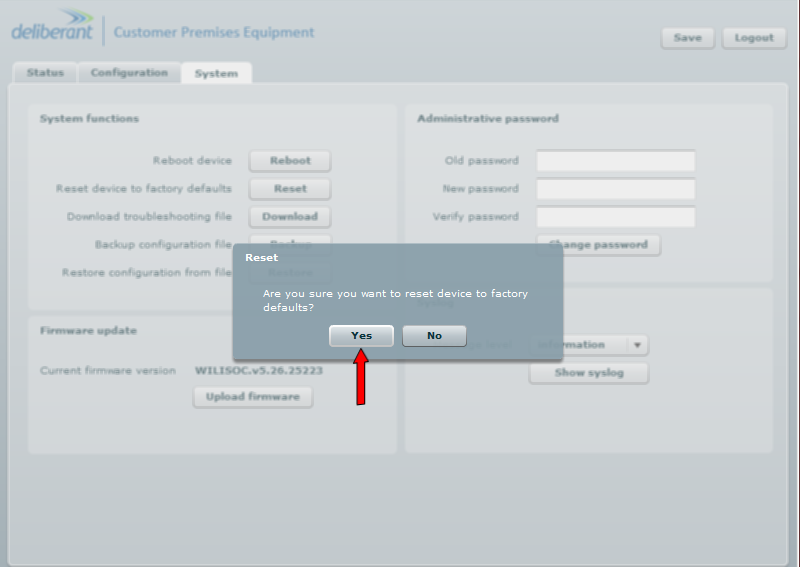
Click on the **System** tab.

16. On the **System** tab screen:



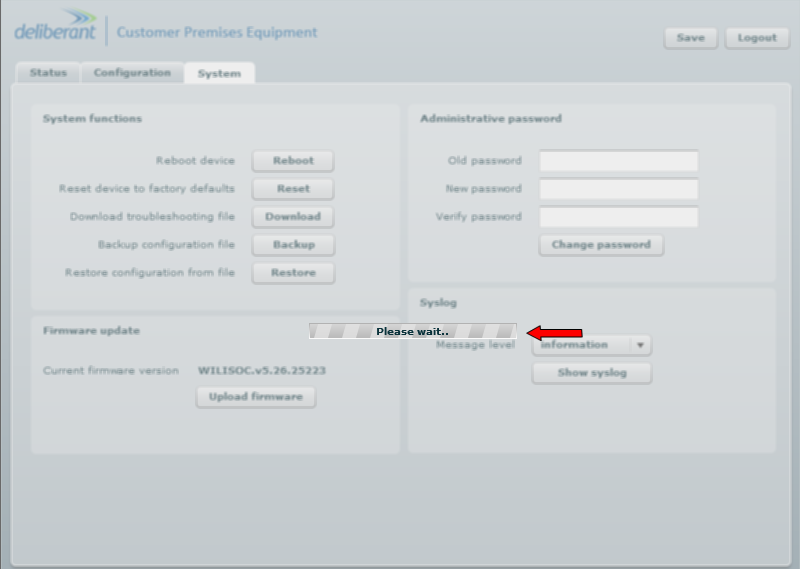
Click on the **Reset** button.

17. On the Reboot Confirm screen:



Click on the **Yes** button.

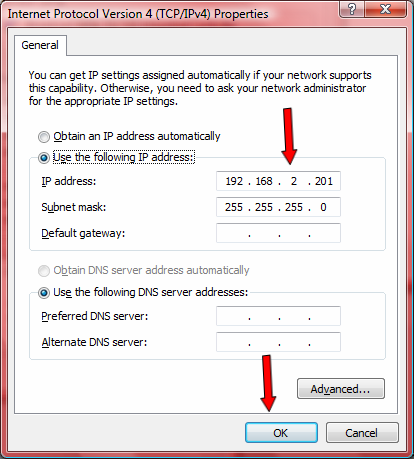
18. On the Please Wait screen:



Do as it says, wait.

Since the CPE IP Address has been changed because of the Factory Defaults, it is time to change the PC’s address as described in **The Steps to Change Your PC’s IP Address.**

19. In the **Internet Protocol Version 4 (TCP/IPv4) Properties** window:



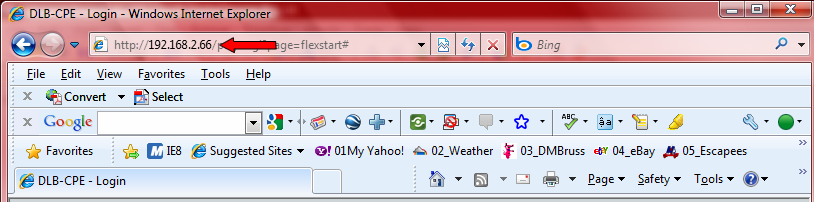
Select the **Use the following IP address:** radio button. Then enter the **IP address** that you need which is ***192 168.2.201***

The **Subnet mask:** should automatically be filled with “255.255.255.0” If not, enter the digits.

When you are done, click on the **OK** and **Close** buttons to close the open windows.

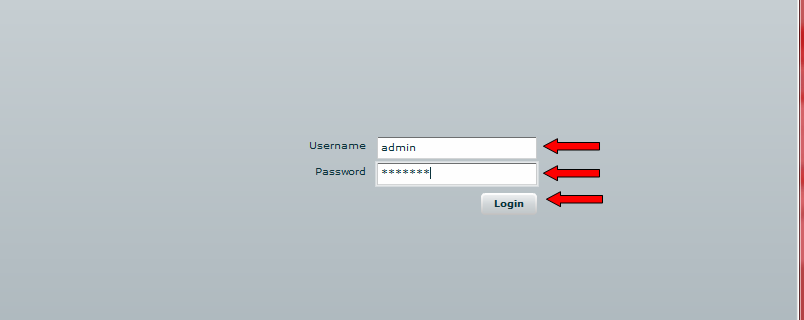
One thing to do to insure that the *Reboot* process has finished, use **The Steps to Check Your PC’s IP Address** and *PING* the IP Address 192.168.2.66 until you get responses.

20. In the Internet browser window:



Enter the IP Address of the Default CPE LAN address. In this case it is **192.168.2.66**.

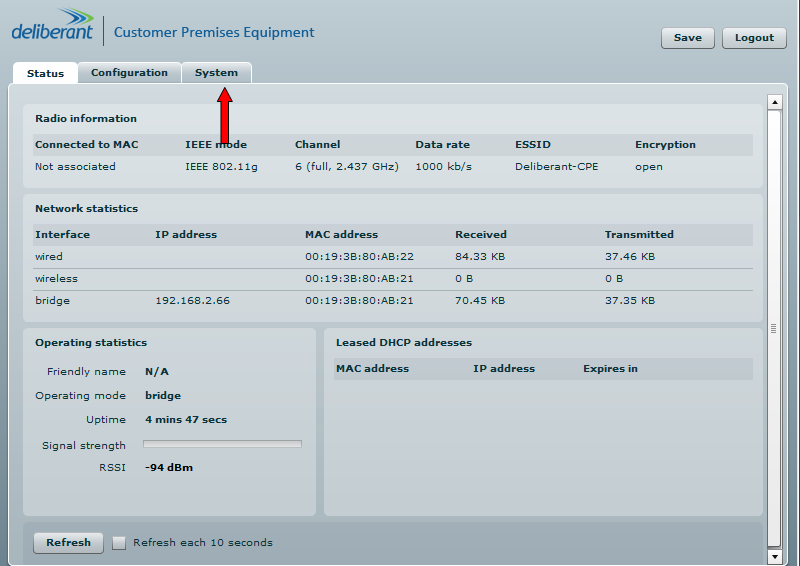
21. In the CPE firmware **Login** screen:



Enter ***admin*** in the **LOGIN** field and ***admin01*** in the **PASSWORD** field. These are the default username and password,

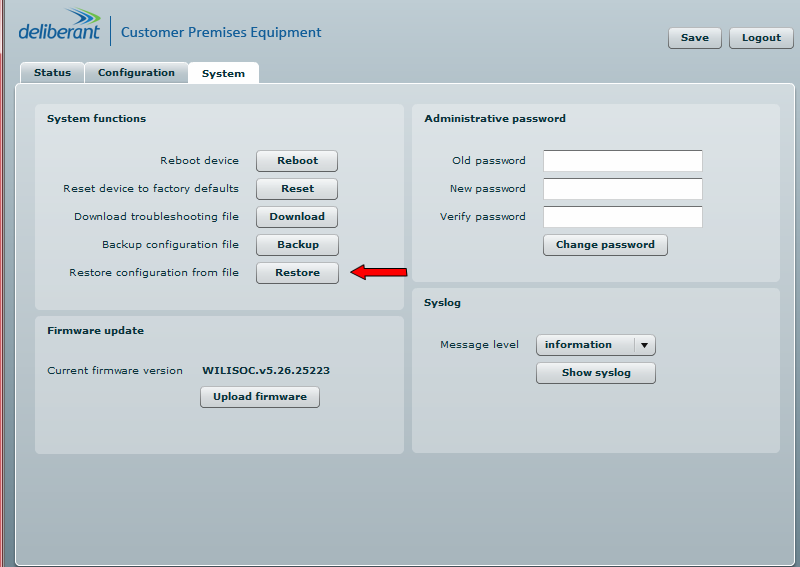
Click the **Login** button.

22. On the **Status** tab screen:



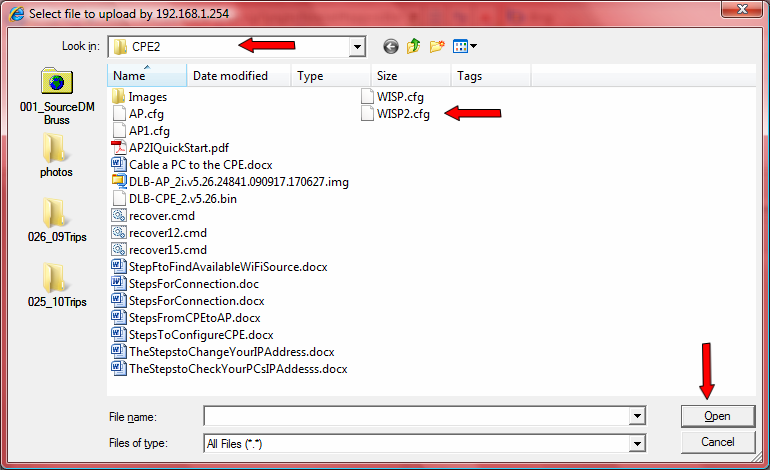
Click on the **System** tab.

23. On the **System** tab screen:



Click on the **Restore** button.

24. In the **Select file to upload** window:

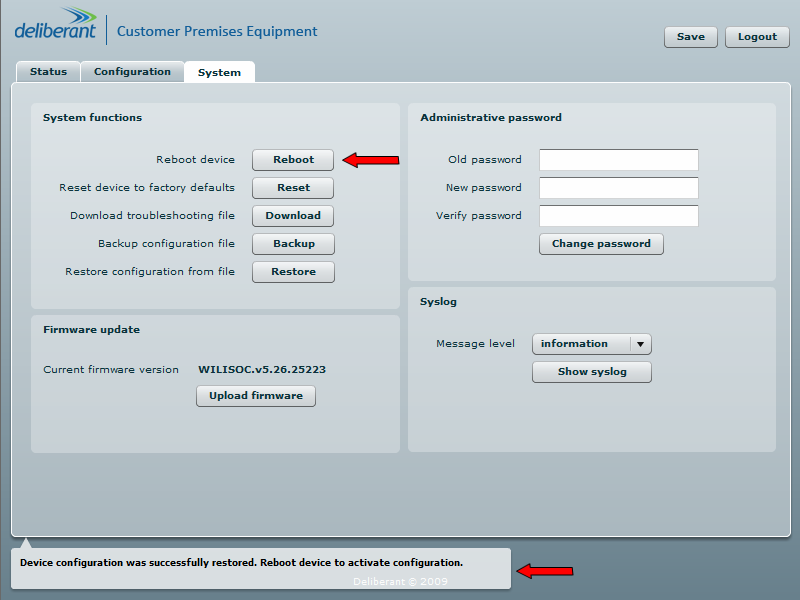


In the **Look in** field, navigate to where the Deliberant files are located. In this case ***CPE2.***

Locate the AP firmware; in this case it is ***WISP2.cfg***.

Click on the **Open** button.

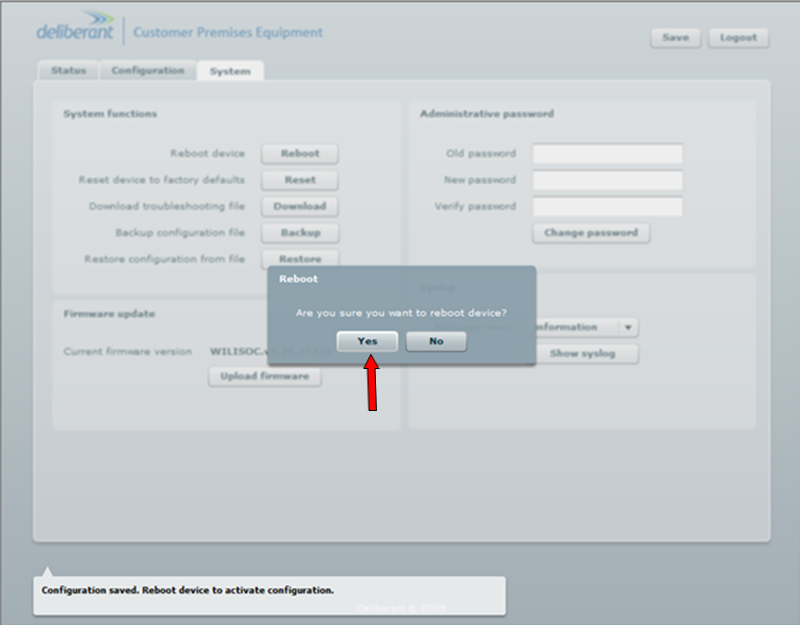
25. On the **System** tab screen:



After the configuration file is uploaded, the “Device configuration was ssuccessfully restored” message will appear.

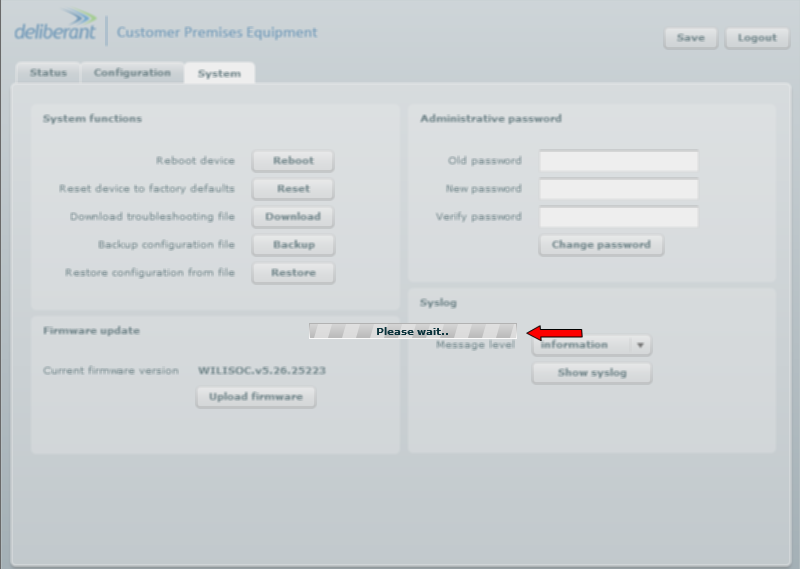
Click on the **Reboot** button.

26. On the Reb0ot Confirm screen:



Click on the **Yes** button.

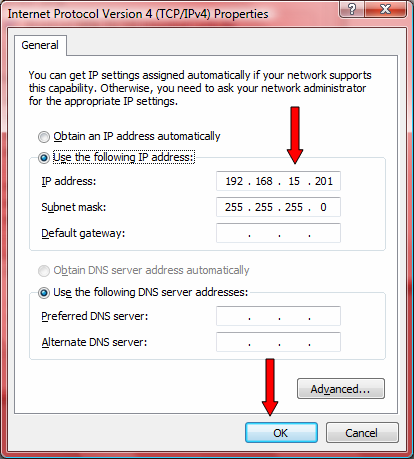
27.



Do as it says, wait.

Since the CPE IP Address has been changed because of the load of the configuration file, it is time to change the PC’s address as described in **The Steps to Change Your PC’s IP Address.**

28. In the **Internet Protocol Version 4 (TCP/IPv4) Properties** window:



Select the **Use the following IP address:** radio button. Then enter the **IP address** that you need which in this case is ***192 168.15.201***

The **Subnet mask:** should automatically be filled with “255.255.255.0” If not, enter the digits.

When you are done, click on the **OK** and **Close** buttons to close the open windows.

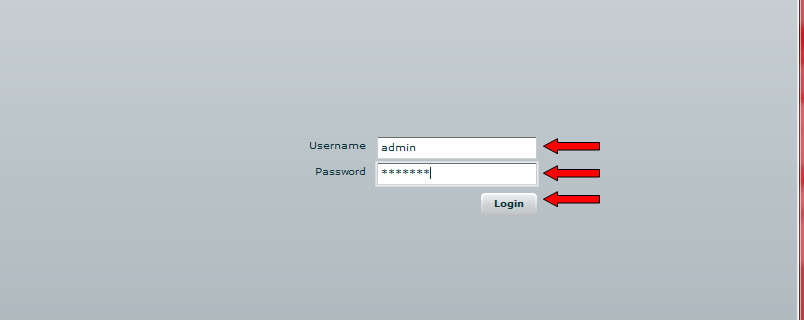
One thing to do to insure that the *Reboot* process has finished, use **The Steps to Check Your PC’s IP Address** and *PING* the IP Address 192.168.15.254 until you get responses.

29. In your Internet browser window:



Enter the IP Address of the Default CPE LAN address. In this case it is **192.168.15.254**.

30. In the CPE firmware **Login** screen:



Enter ***admin*** in the **LOGIN** field and ***the Unique password*** in the **PASSWORD** field.

Click the **Login** button.

You are done.