# Steps to configure your Deliberant 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:

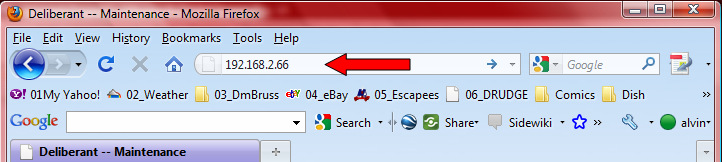
The assumption is that the CPE firmware has been installed in the CPE-2 and the Factory Defaults have been set.

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 192.168.2.201 as described in **The Steps to Change Your PC’s IP Address**.

Configuration Steps

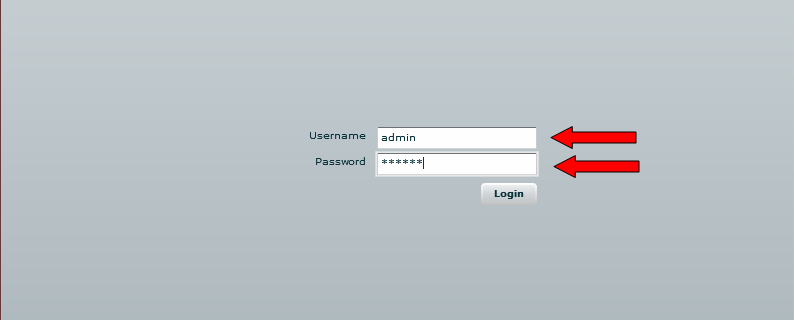
1. Open a web browser like Internet Explorer or Forefox.



In the **URL Address field** of the browser, type ***192.168.2.66.***  This is the default address of the AP Firmware.

Hit the **Enter Key.**

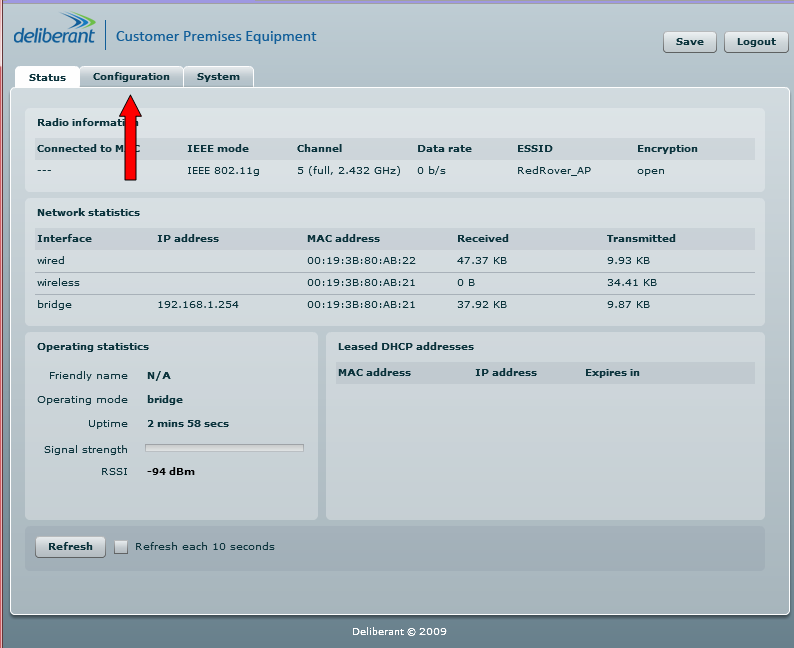
2. In the CPE firmware **LOGIN** screen:



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

Click the **Login** button.

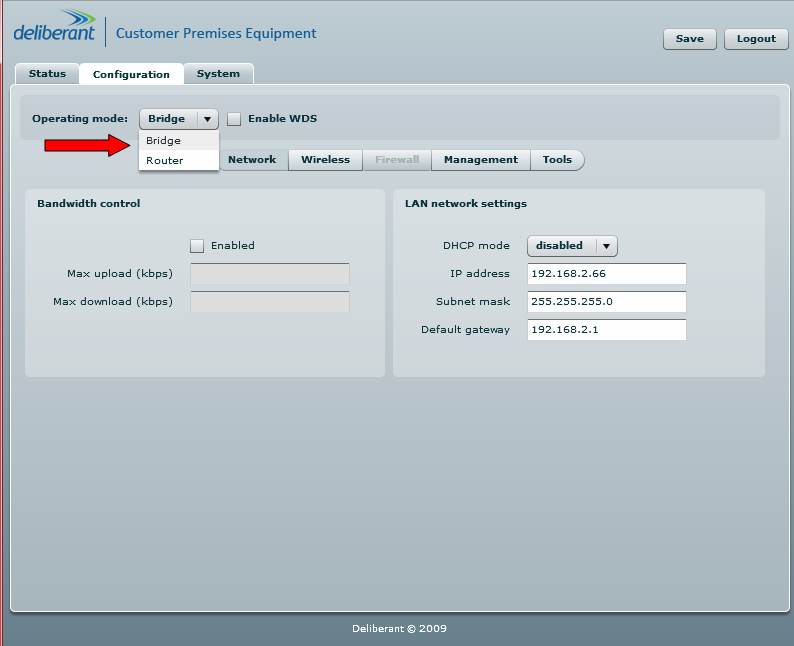
3. In the **Status** screen:



Normally you will be taken to the **Status** tab screen.

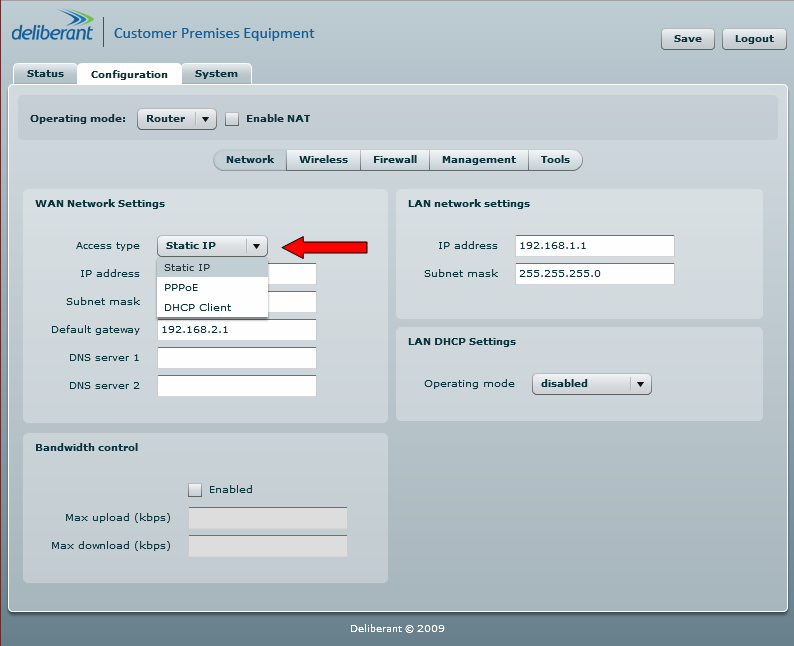
Click on the **Configuration** tab.

4. On the **Configuration** – **Network** screen:



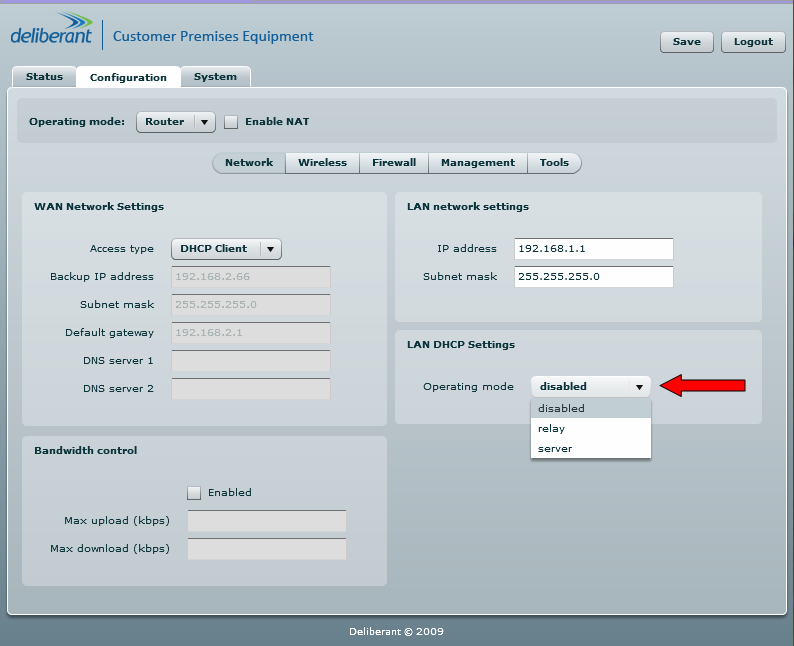
On the Configuration tab and the Network sub-tab: click on **the Operating Mode** ▼. Select ***Router*** for the pull-down menu.

5. On the **Configuration** – **Network** screen:



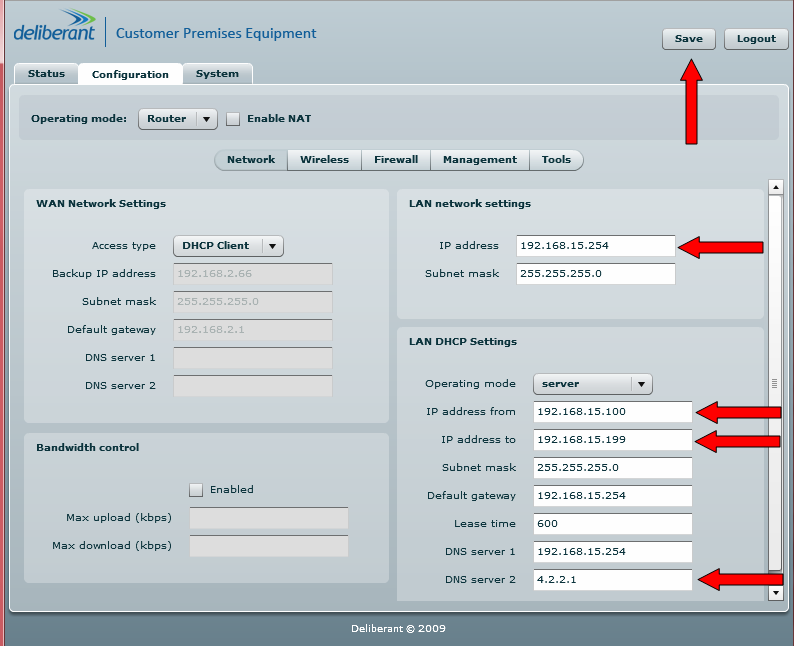
Click on the **Access type** ▼ and select ***DHCP Client*** from the pull-down menu.

6. On the **Configuration** – **Network** screen:



Click on the **Operating Mode** ▼ and select ***server*** from the pull-down menu.

7. On the **Configuration** – **Network** screen:



In the **IP address** field, enter ***192.168.nn.254*** where ***nn*** is the loop address desired. In this case, ***nn*** = ***15***.

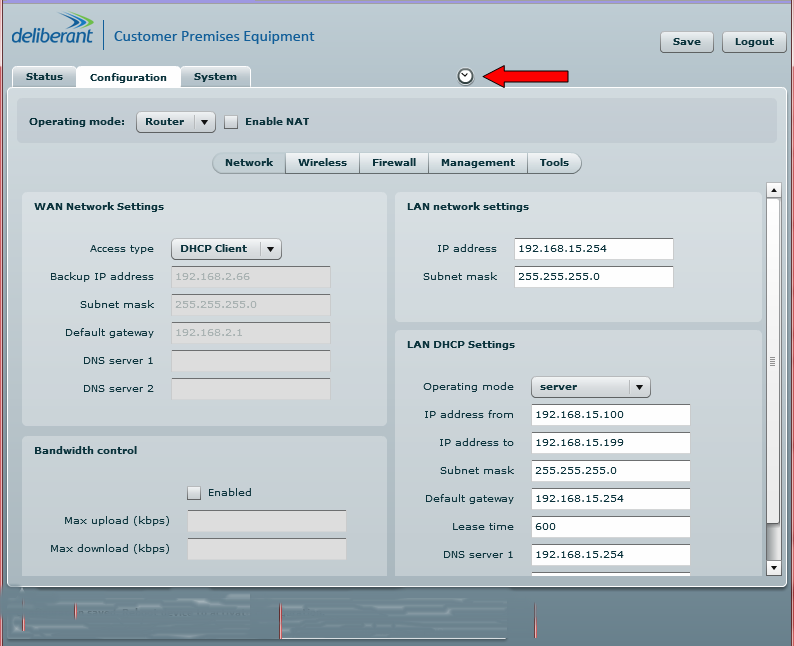
In the **IP address from f**ield, change the entry to ***192.168.nn.100*** where ***nn*** = the desired loop address. In the case ***nn*** = ***15***.

In the **IP address to f**ield, change the entry to ***192.168.nn.199*** where ***nn*** = the desired loop address. In the case ***nn*** = ***15***.

In the **DNS server 2 f**ield, change the entry to ***4.2.2.1***.

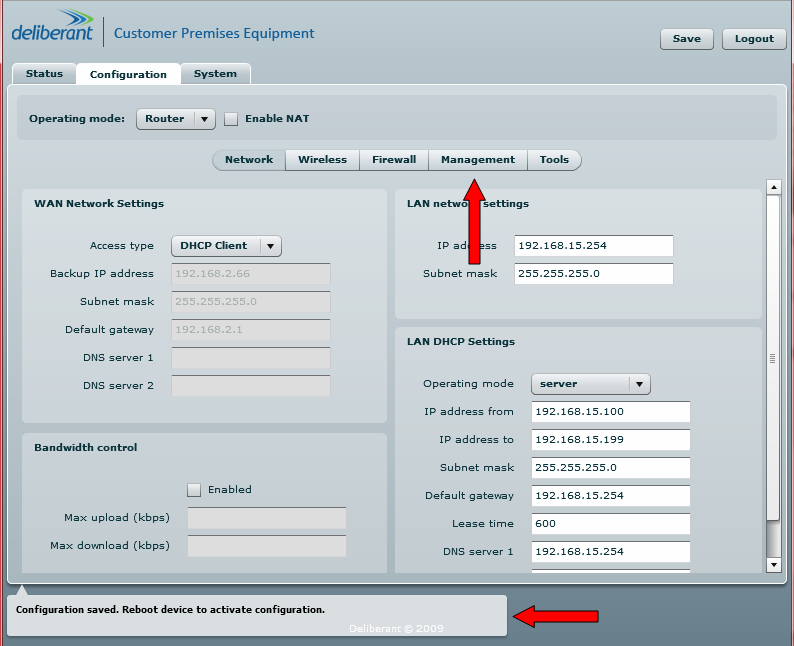
Finally click the **Save** button.

8. On the **Configuration** – **Network** screen:



A little clock will appear at the cursor while the save is in process. Wait.

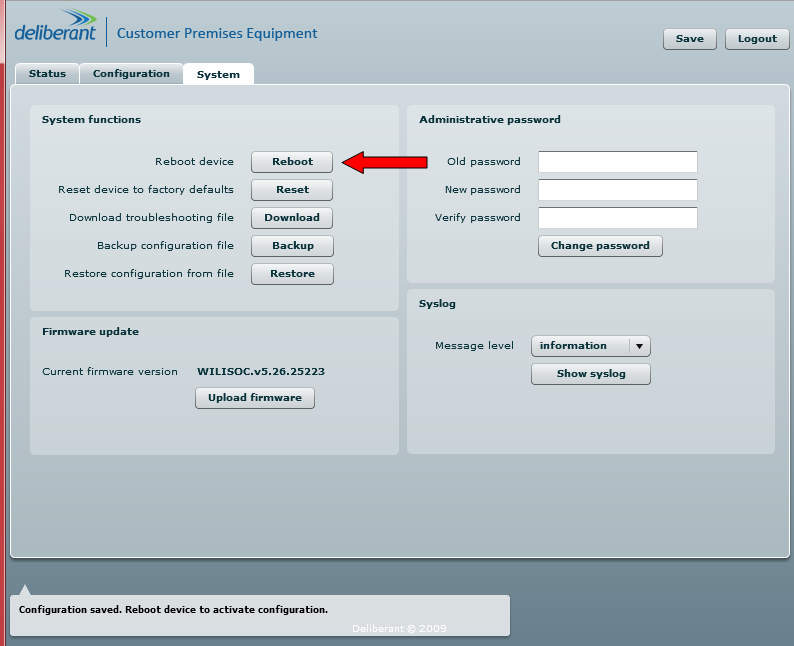
9. On the **Configuration** – **Network** screen:



When the save is done, the “*Configuration saved.”* message will appear.

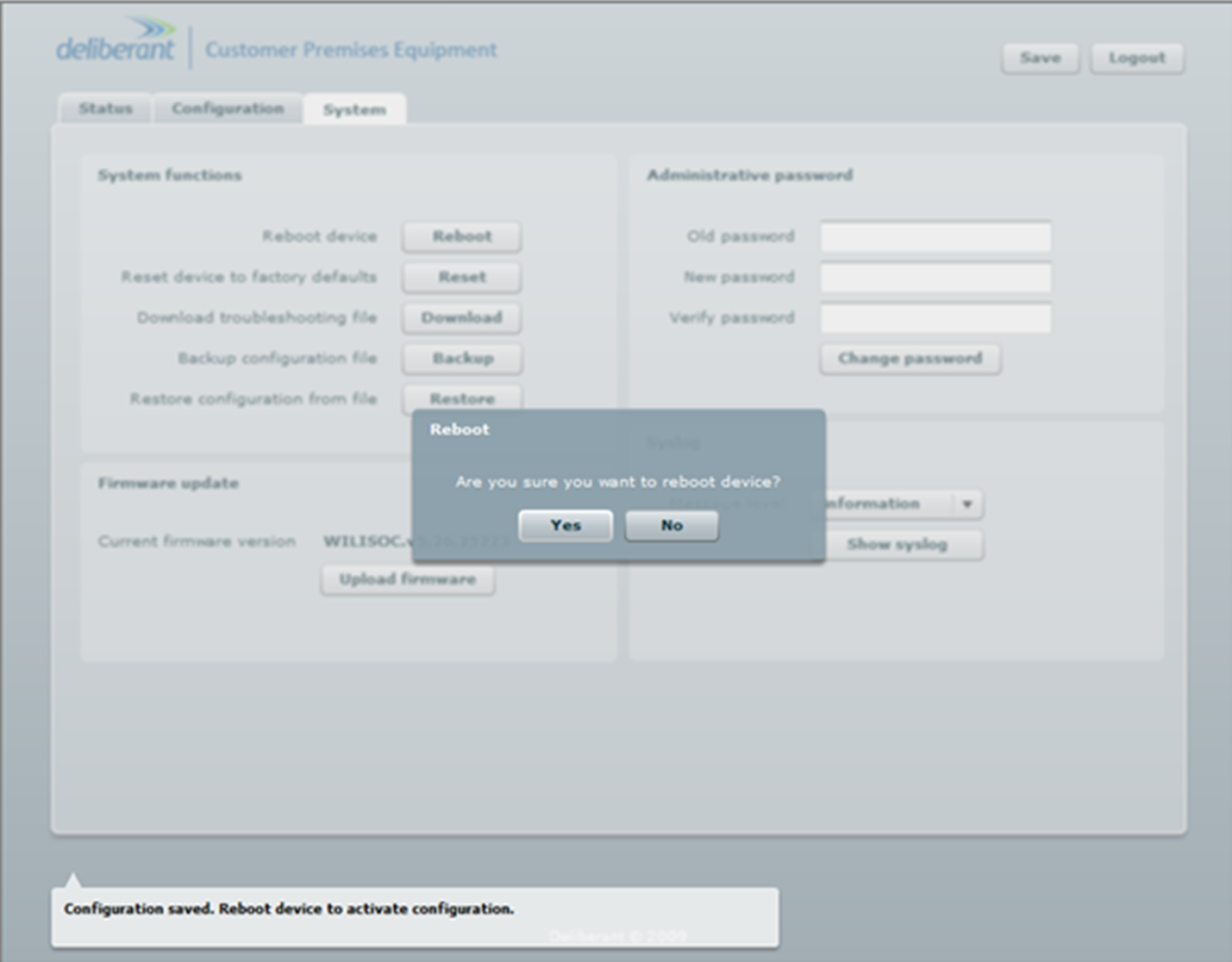
Click on the **Management** tab.

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



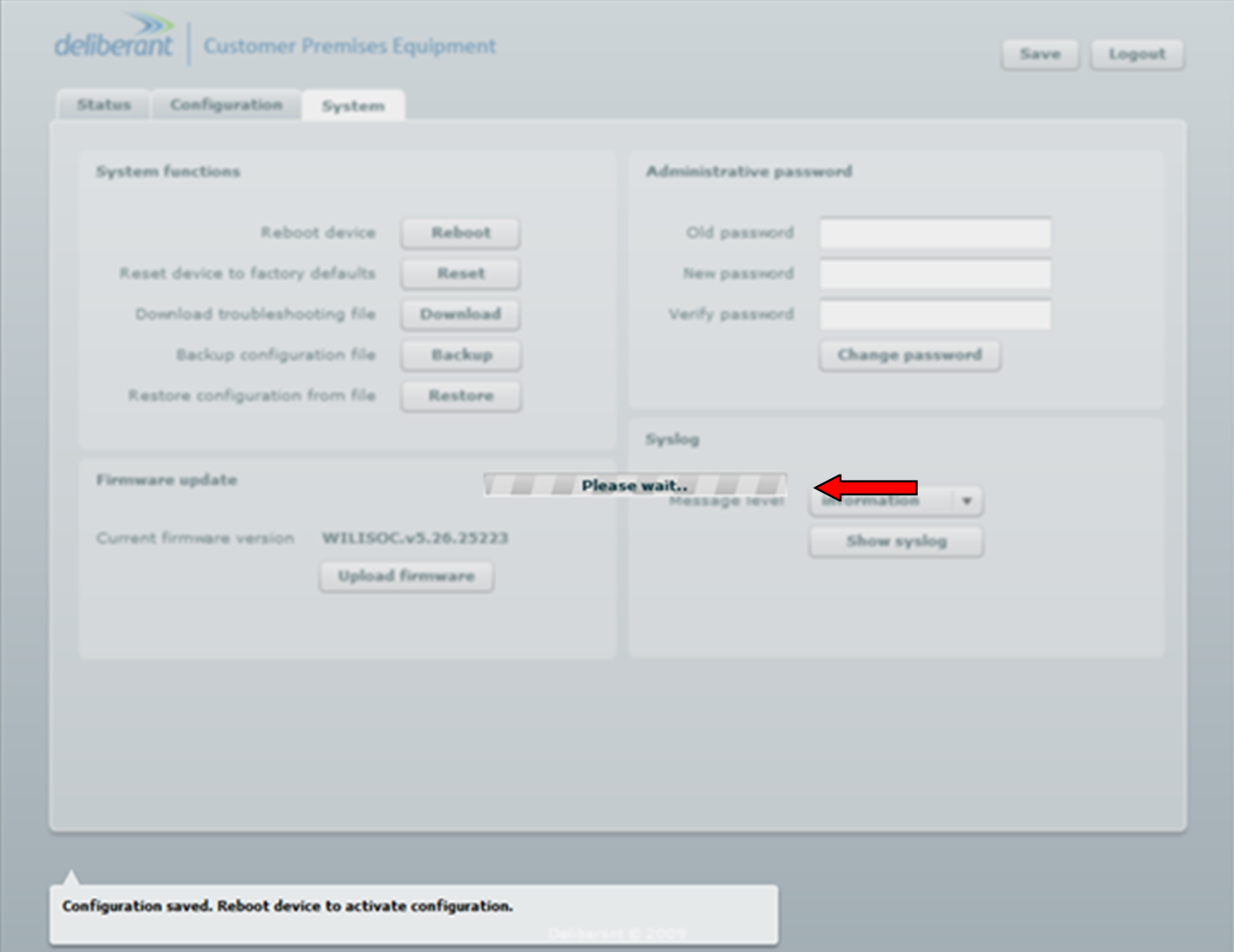
Click on the **Reboot** button.

11. **Reboot** confirmation.



A box will pop up to confirm that you want to reboot. Click on the **Yes** button.

12. Please wait screen:



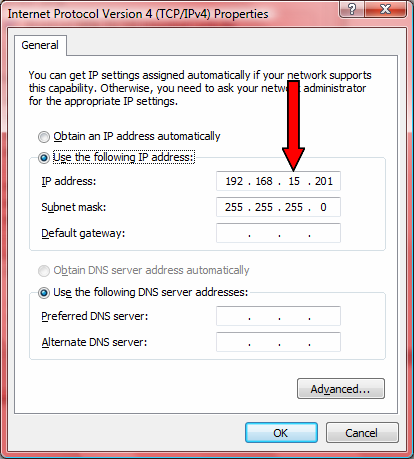
The indicated **Please Wait** bar will appear while the CPE is rebooting. This takes a while, be patient. Figure about 2 minutes.

13. CPE firmware **Login** screen:



When this screen appears, you cannot login. This is one of the last steps in the configuration change / reboot process. The IP address for the CPE has changed and you will have to change the PC’s IP Address.

14. In the **Internet Protocol Version 4** screen:

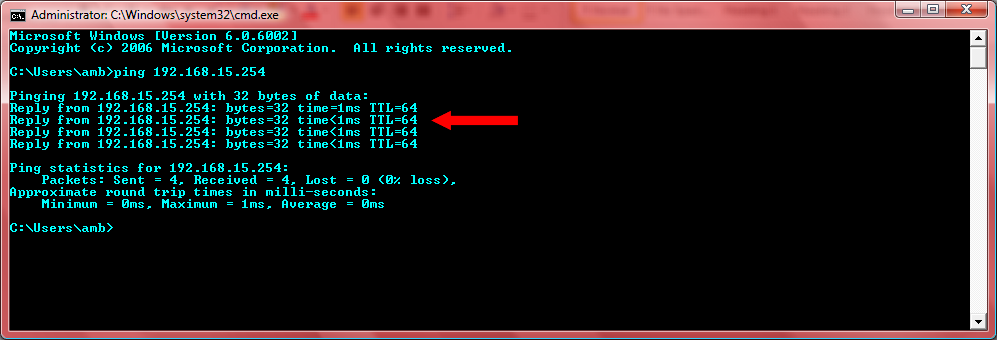


Change the third field in the IP address filed to the same ***nn*** and was entered back in the CPE **Configuration** – **Network** screen;.

In this case, ***nn*** is ***15***.

Click the **OK** button and the other **OK** and **Close** buttons related to change your PC’s IP Address.

15. In a **Command** window:

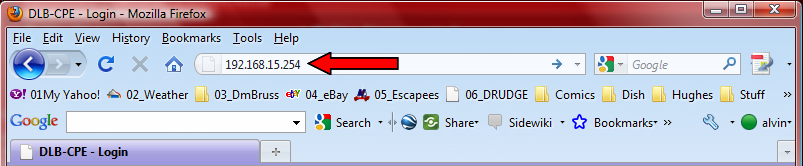


In **Pinging You PC’s IP Address**, all the steps are covered.

In the Command window: enter the IP Address you set in the CPE **Configuration** – **Network** screen, in this case, ***192.168.15.254***

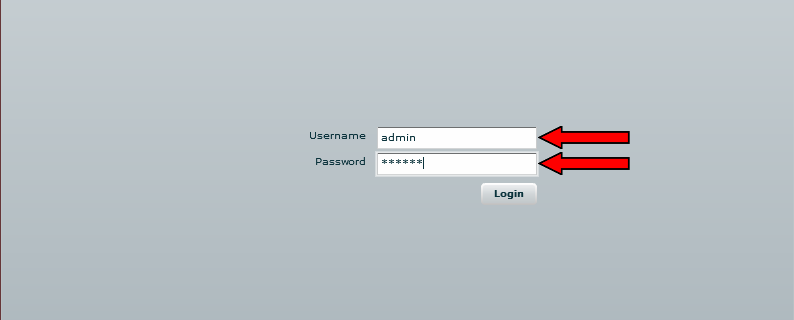
Observe that the CPE is responding to the Ping command.

16. In your web browser window:



Enter the AP IP Address set in the CPE **Configuration**– **Network** screen. In this case, ***192.168.15.254***.

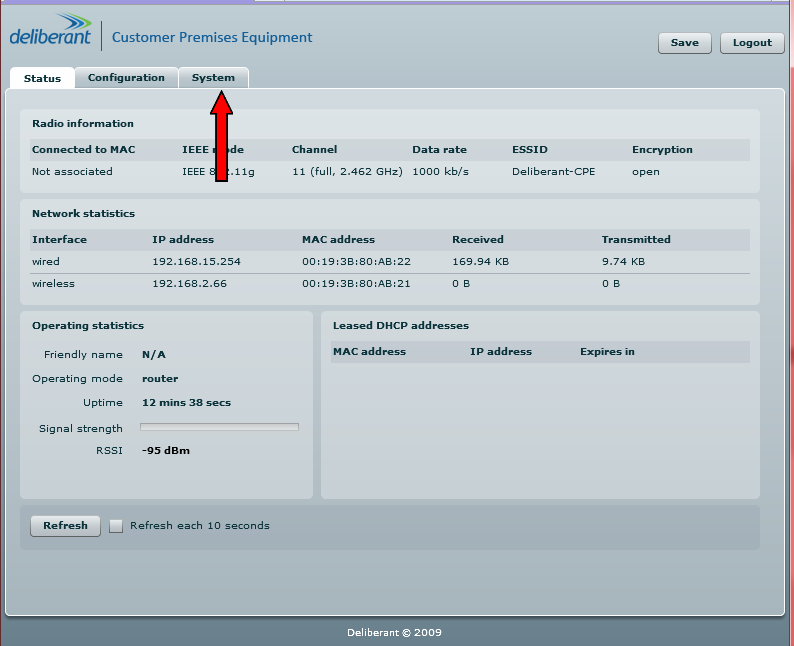
17. In the CPE firmware **LOGIN** screen:



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

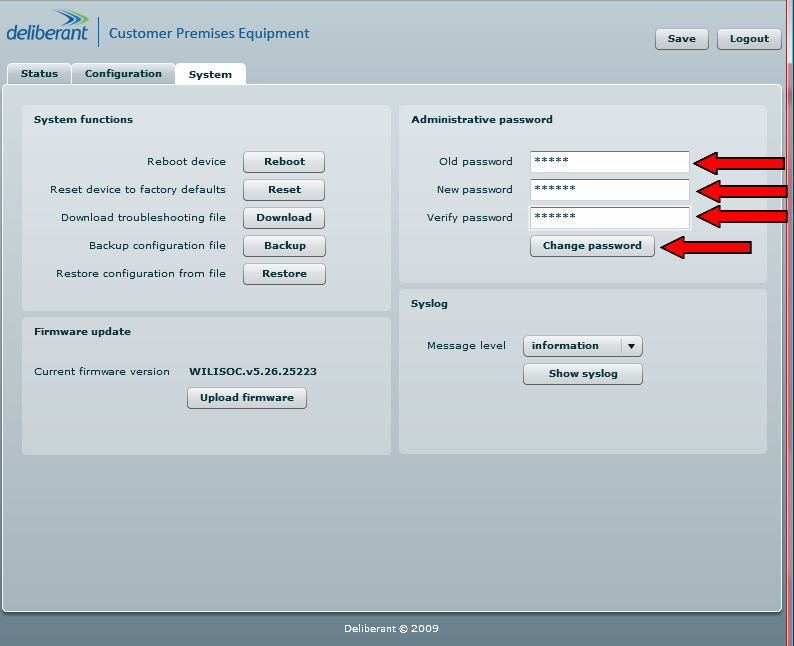
Click the **Login** button.

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



Click on the **System** tab.

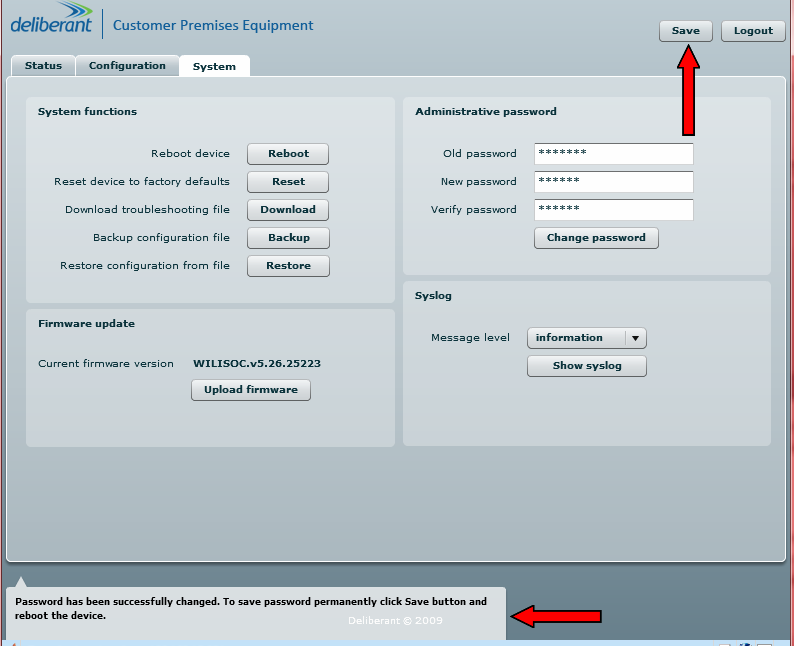
19. On the **System** tab screen:



Enter **admin01** in the **Old** **Password** field. Enter a Unique password in the **New** **password** field and the **Verify** **password** field. Write this password down and save in in a place where you will be sure to remember.

Click on the **Change password** button.

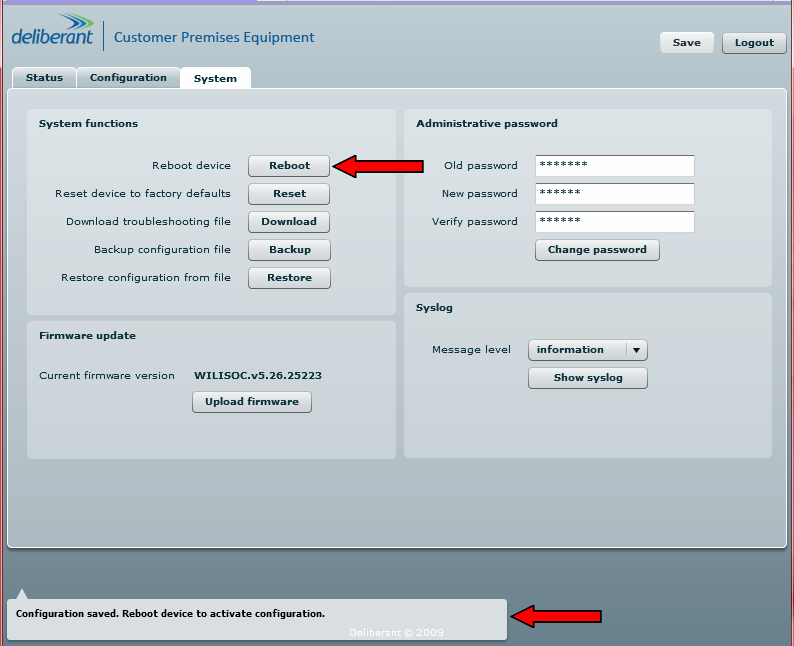
20. On the **System** tab screen:



After the clock cursor goes away, the “*Password has been changed*” message will appear.

Click on the **Save** button.

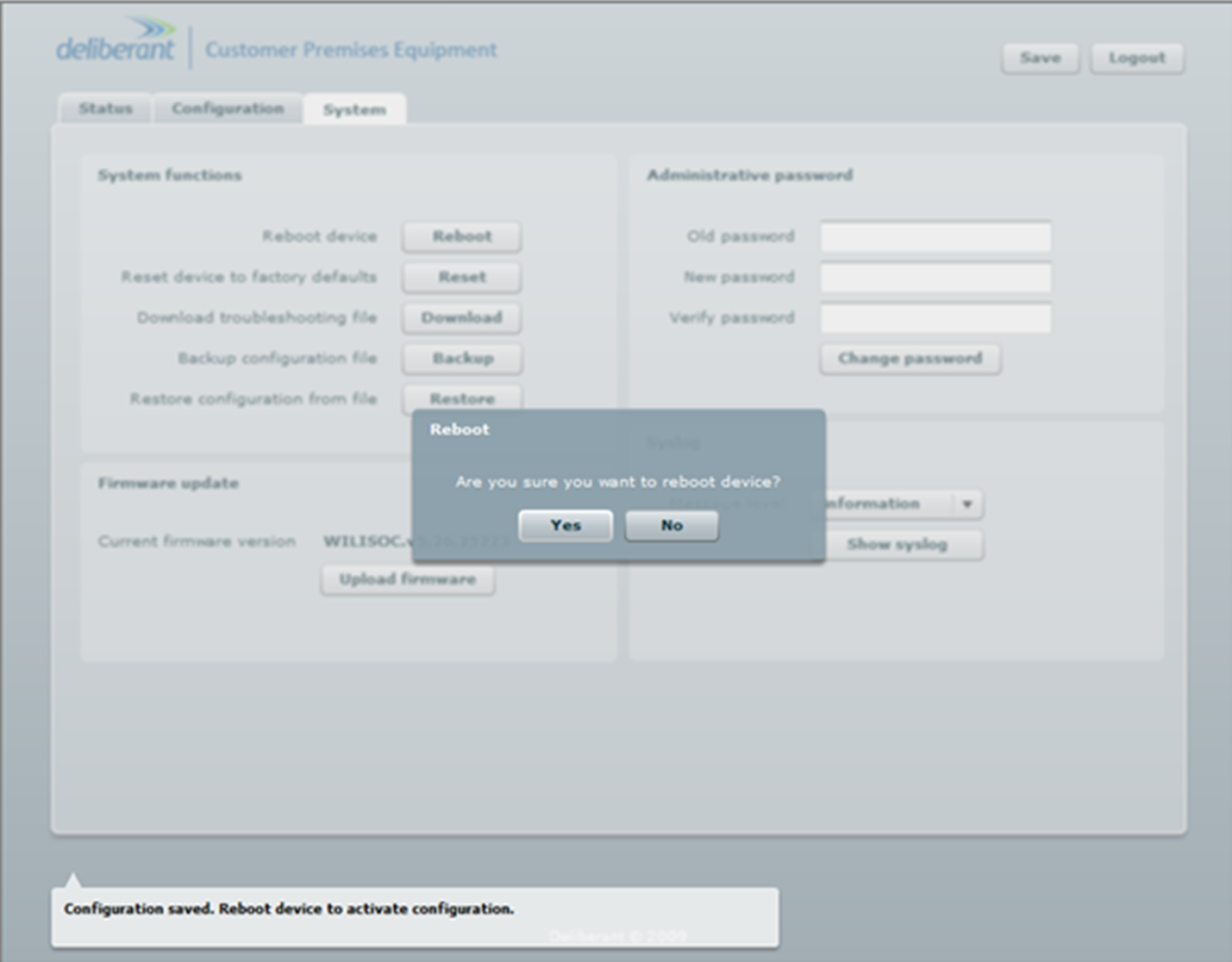
21. On the **System** tab screen:



When the clock cursor goes away and the save is complete, the “*Configuration saved*.” message appears.

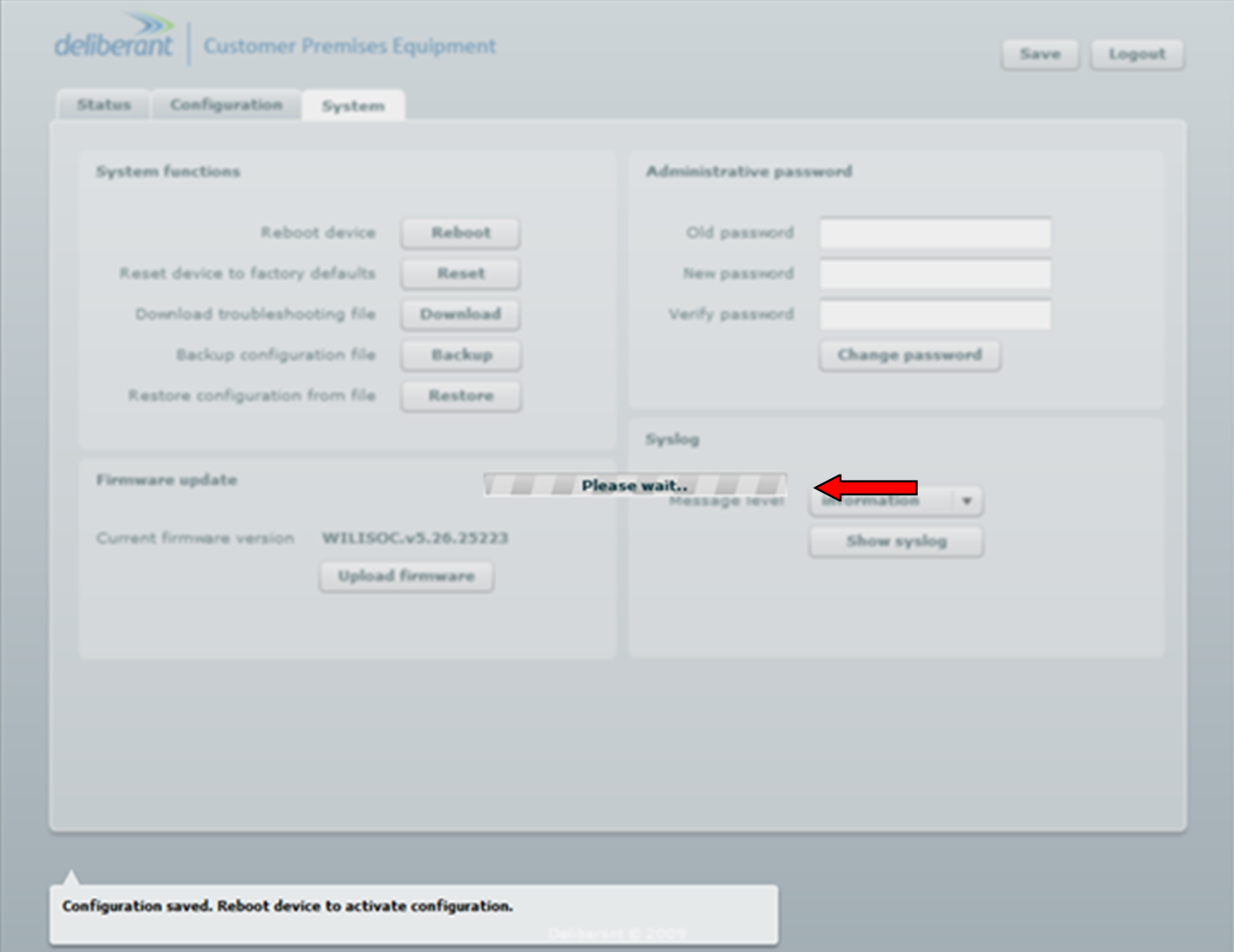
Click on the **Reboot** Button.

22. **Reboot** confirmation.



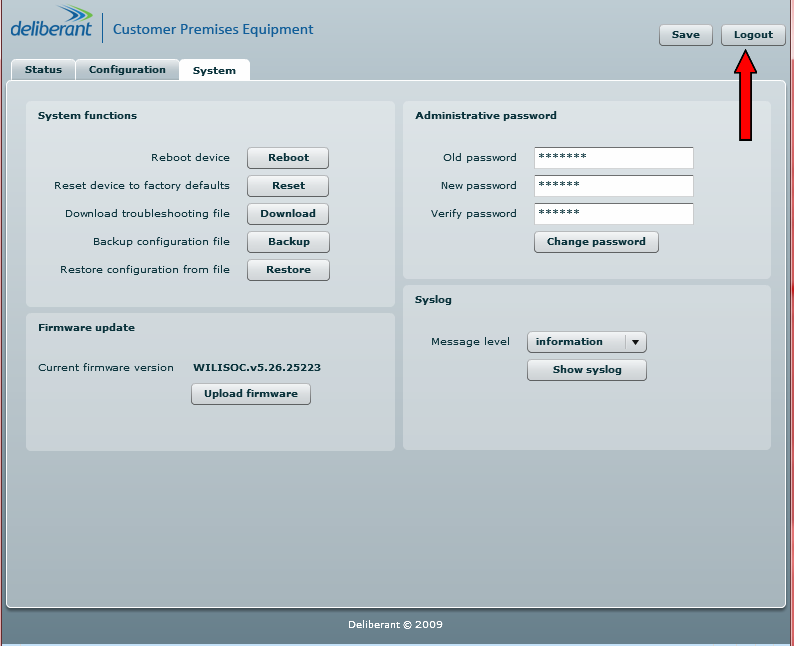
A box will pop up to confirm that you want to reboot. Click on the **Yes** button.

23. Please wait screen:



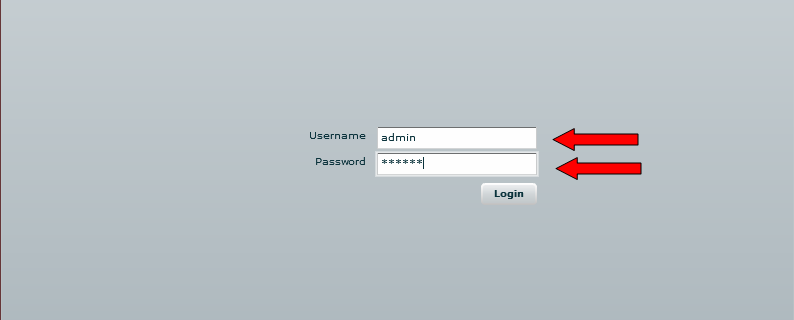
The indicated **Please Wait** bar will appear while the CPE is rebooting. This takes a while, be patient. Figure about 2-4 minutes.

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



When the Please Wait bar goes away, you will need to **Logout**. Click on the indicated **Logout** button**.**

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

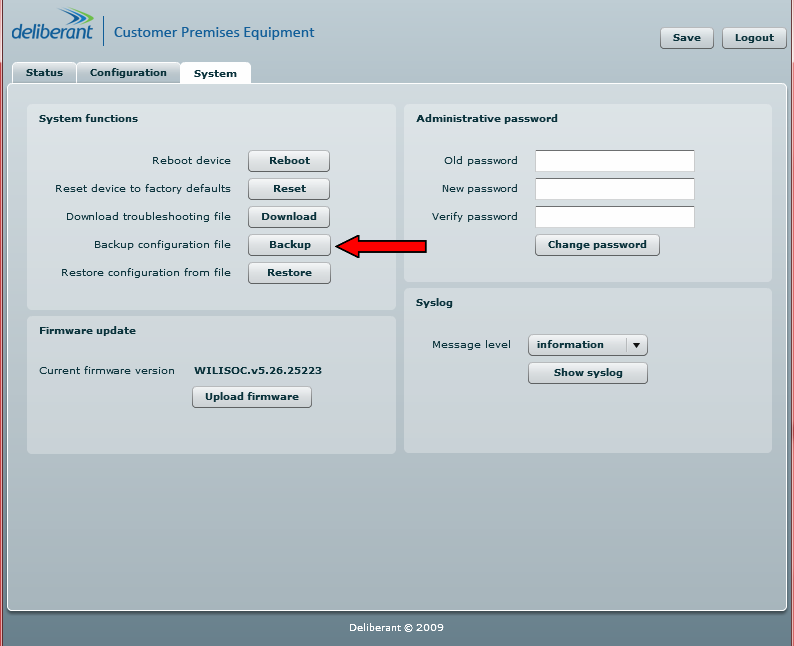


In the **Username** field, enter admin.

In the **Password** field, enter the ***Unique password*** entered in the CPE System tab screen.

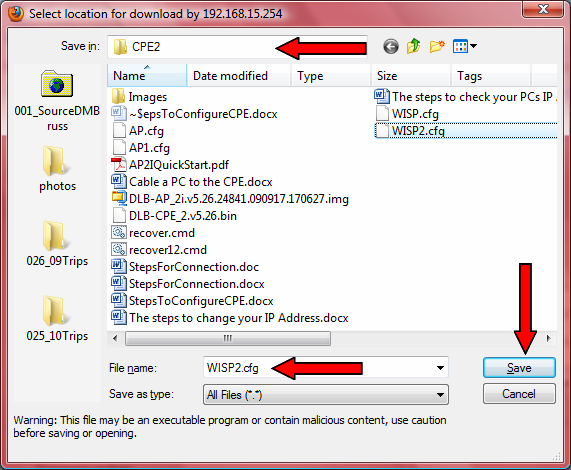
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26. On the **System** tab screen:



Click on the **Backup** button.

27. **Select location for download** window:



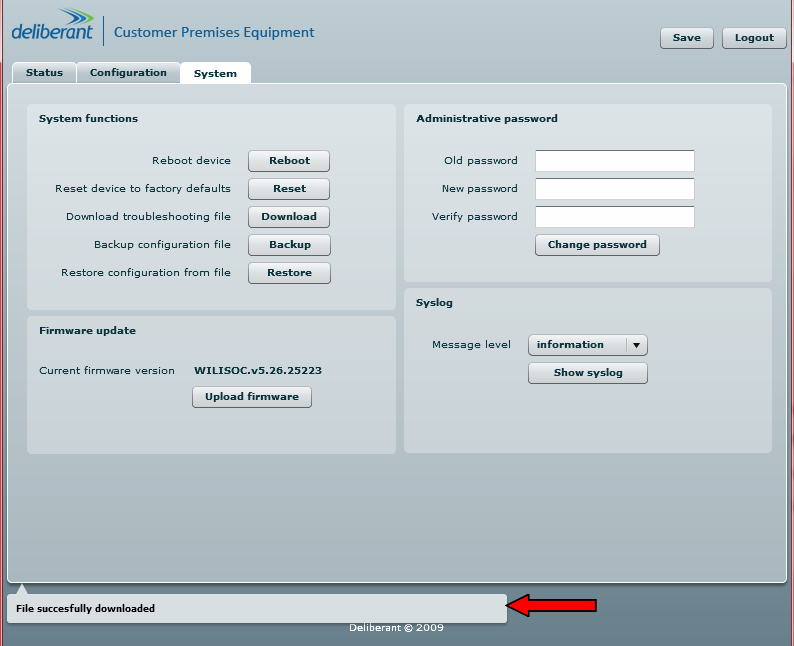
This is what FireFox will display. Internet Explorer will have a similar display.

Navigate to the fold where you are keeping all the Deliberant files in the upper address field.

Change the **File name** to an appropriate name like ***WISP2.***cfg that describes this saved configuration file as a CPE file.

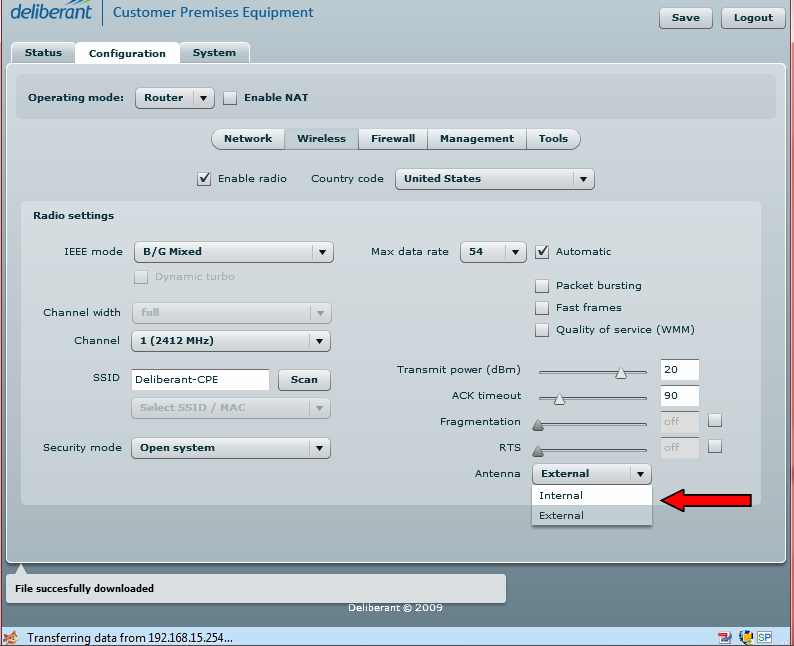
Click on the **Save** button.

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



When the “*Fire successfully downloaded*.” message appears, you are done.

29. On the **Configuration** tab – **Wireless** sub-tab screen:



The Antenna option selects the Internal or External antenna.