# Configure AP Firmware in Bridge Mode

These are the steps to configure the AP firmware after it has been installed in the Deliberant CPE-2. This configuration with establish a Bridge Mode of operation that will be connected to a wireless router as one of the LAN devices (not the WAN port) so that the wireless router signal can be broadcasted over a larger area.

Assumptions:

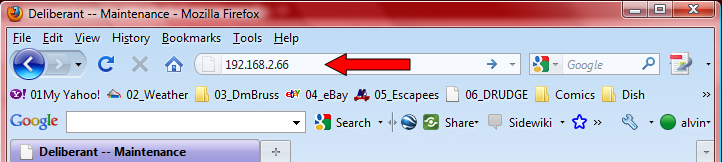
The assumption is that the AP firmware has been installed in the CPE-2 and the Factory Defaults have been set.

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 **Changing Your PC’s IP Address**.

## Configuration Steps.

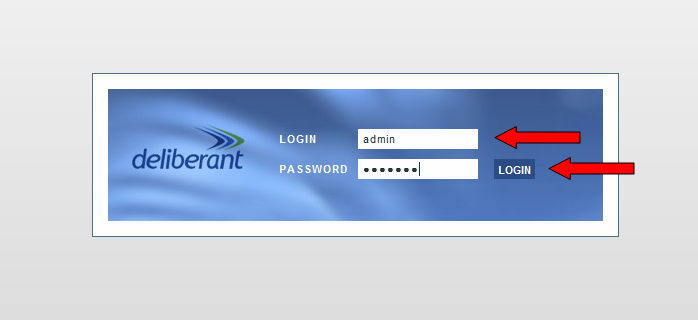
1. Open a web browser like Internet Explorer or Forefox.



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 AP Firmware **Login Window**:



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

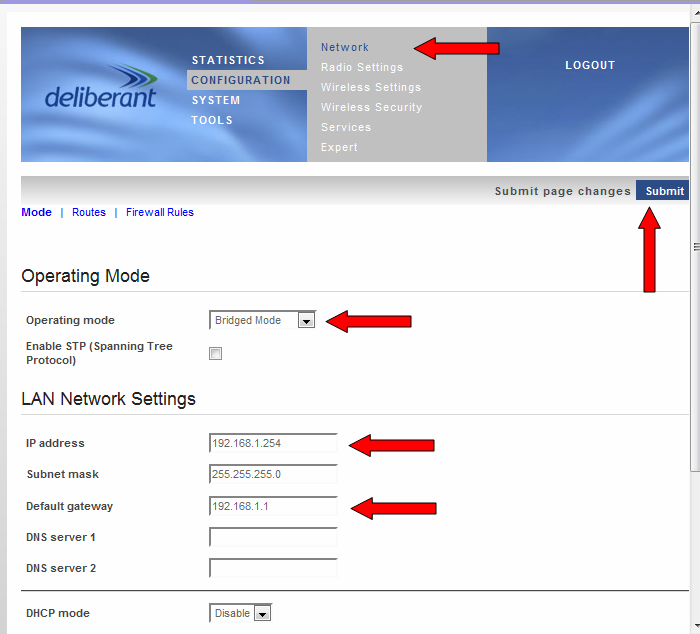
Click the **LOGIN** button.

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



Click on the **CONFIGURATION** button.

4. In the **CONFIGURATION** – **Network** screen:



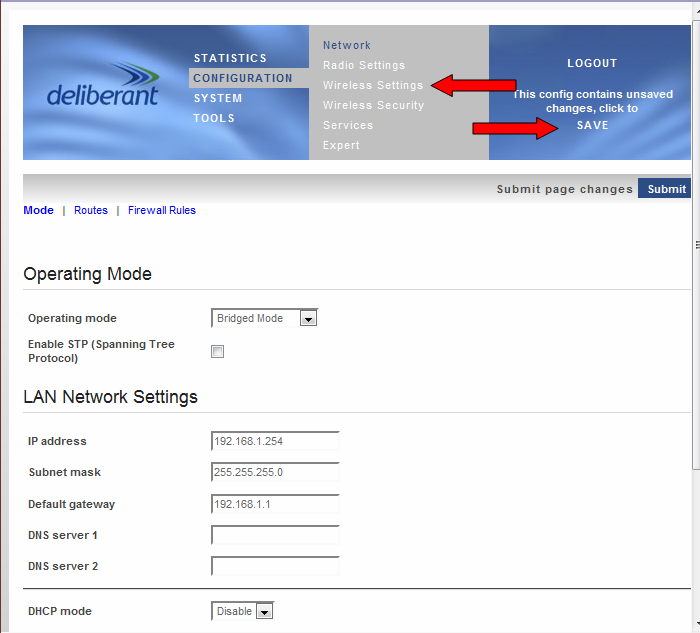
Insure **Operating Mode** is set to ***Bridged Mode***.

in the **IP address** field, enter the desired loop address. ***192.168.nn.254.***  The ***nn*** is the loop node number.

In the **Default gateway** field, enter the desird loop gateway. ***192.168.nn.1*** where ***nn*** is equal to the ***nn*** in the **IP Address** field.

When done, click on the **Submit** button.

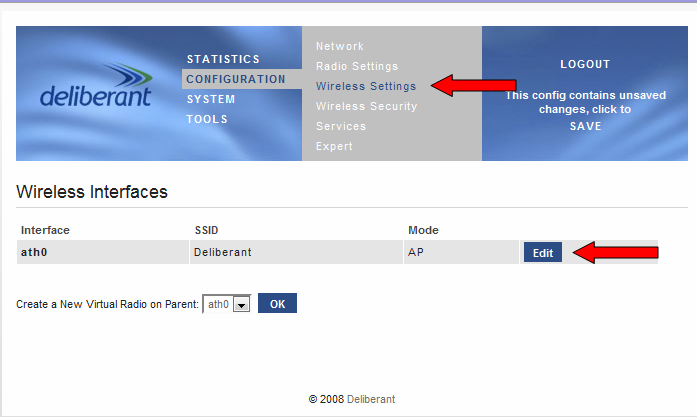
5. In the **CONFIGURATION** – **Network** screen:



Note the **SAVE** option has appeared but do not click on it yet.

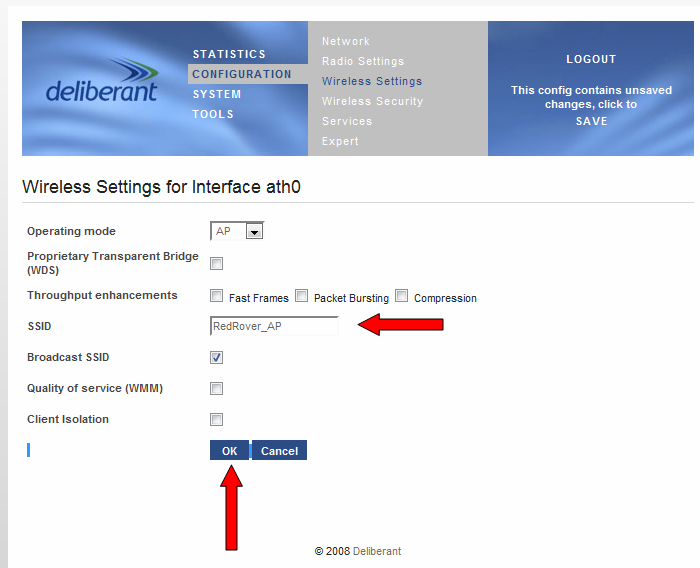
Click on the **Wireless** **Settings** button.

6. In the **CONFIGURATION** – **Wireless** **Settings** screen:



Click on the **Edit** button.

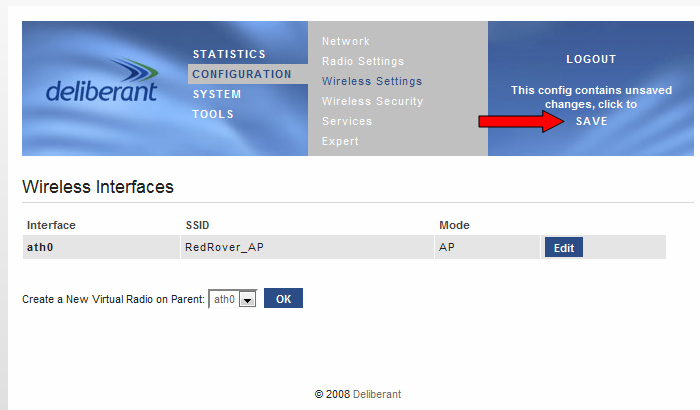
7. In the **CONFIGURATION** – **Wireless Settings for interface ath0** screen:



Change the **SSID** field from ***Deliberant*** to a name that you want your AP to appears in a wireless scan. In this case, ***RedRover\_AP*** was entered.

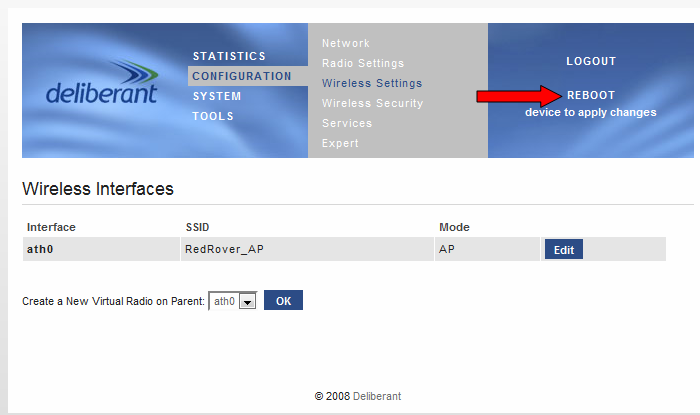
Then click on the **OK** button.

8. In the **CONFIGURATION** – **Wireless** **Settings** screen:



Now click on the **SAVE** button.

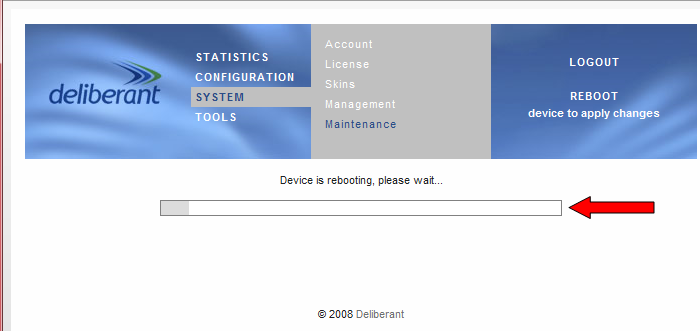
9. In the **CONFIGURATION** – **Wireless** **Settings** screen:



After a short delay, the screen will refresh with the **REBOOT** button appears.

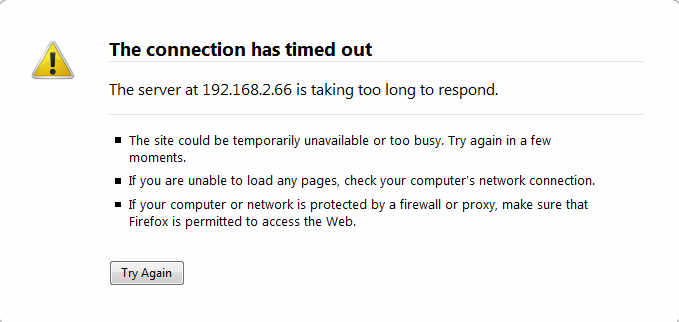
Click on the **REBOOT** button.

10. With the Device is rebooting, please wait display:



Do just that, wait. This may take 2 to 4 minutes.

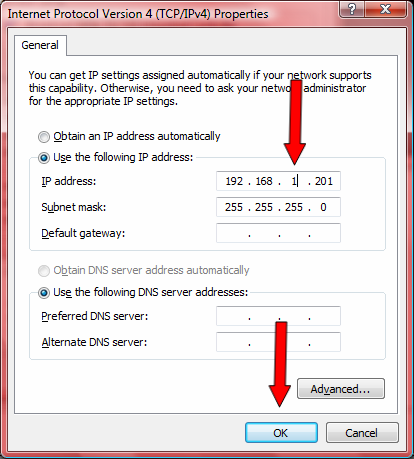
11. When the **The connection has timed out** screen appears:



Since the address of the AP has been changed, you now need to change the IP Address of you PC.

All the steps have been covered in **Changing You PC’s IP Address**.

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

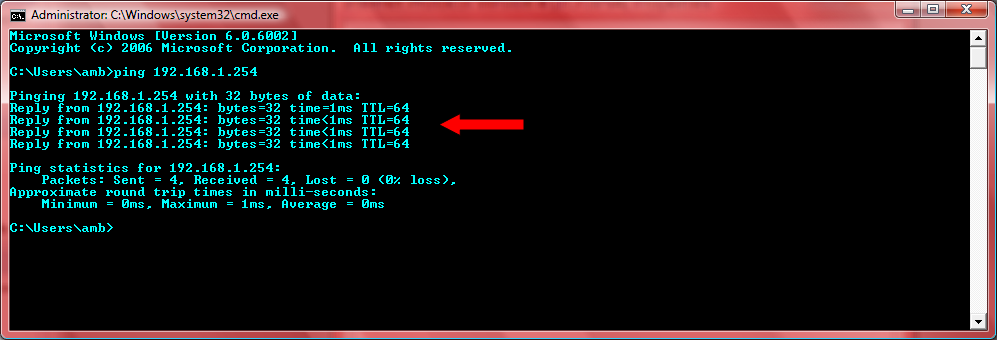


Change the third field in the IP address filed to the same ***nn*** and was entered back in the AP **CONFIGURATION** – **Network** screen;

In this case, ***nn*** is ***1***.

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

13. In a **Command** window:

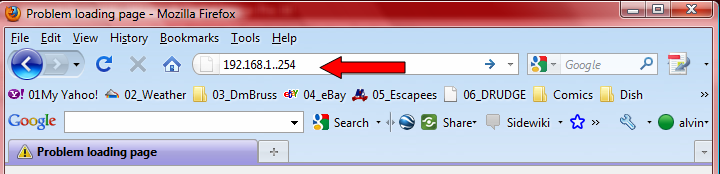


In **Pinging You PC’s IP Address**, all the steps are covered.

In the Command window: enter the IP Address you set in the AP **CONFIGURATION** – **Network** screen, in this case, ***192.168.1.254***

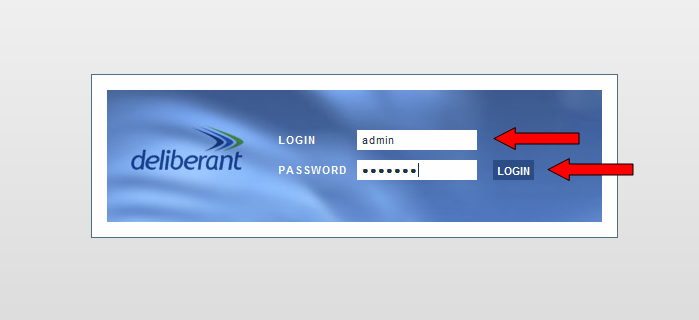
Observe that the AP is responding to the Ping command.

14. In your web browser window:



Enter the AP IP Address set in the AP **CONFIGURATION** – **Network** screen. In this case, ***192.168.1.254***.

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



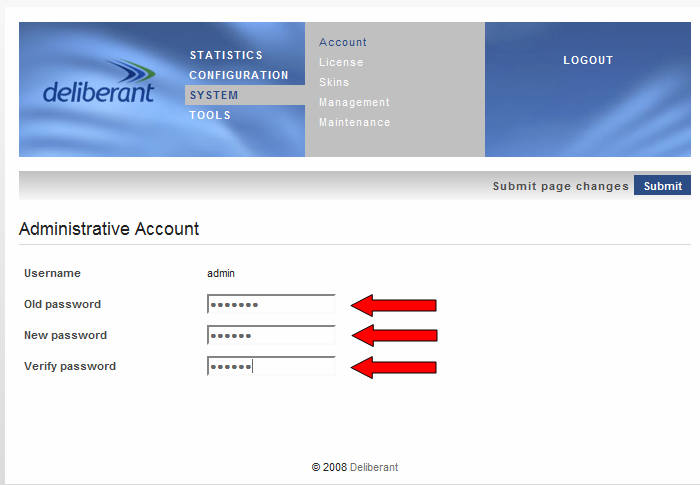
Again enter the username and password, ***admin*** and ***admin01***.

16. In the **STATISTICS** –**System Information** screen:



Click on the **SYSTEM** button.

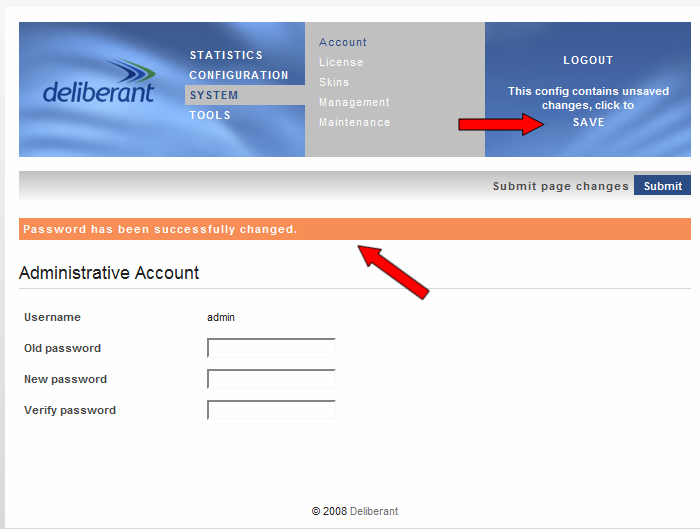
17. In the **SYSTEM** – **Account** screen:



In the **Old** **password** field, enter ***admin01***.

In the **New** **password** and Verify **password** fields, enter a unique password.

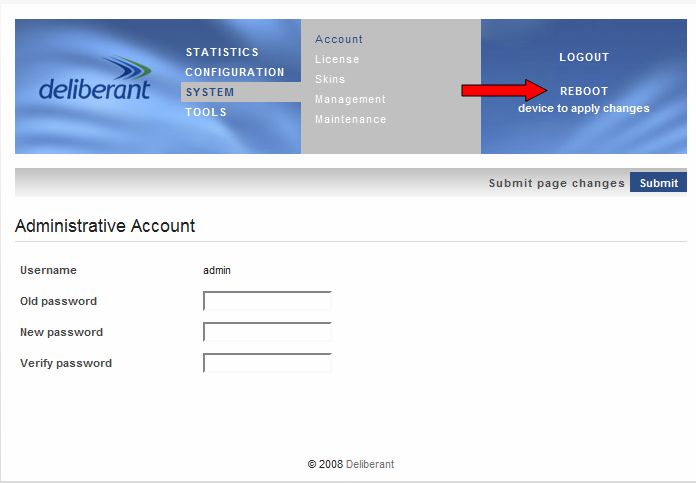
18. In the **SYSTEM** – **Account** screen:



Note the “*Password has been successfully changed*” banner.

Click on the SAVE Button.

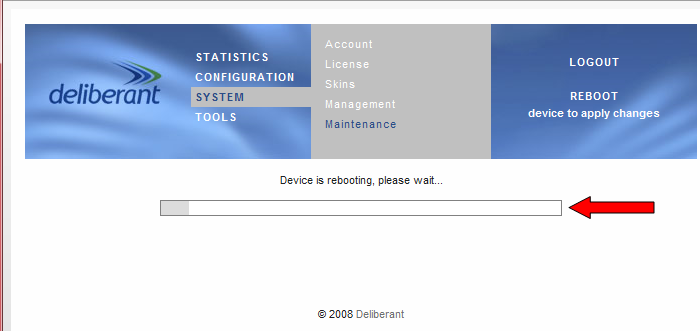
19. In the **SYSTEM** – **Account** screen:



After a short delay, the screen will refresh with a **REBOOT** button.

Click on the **REBOOT** button.

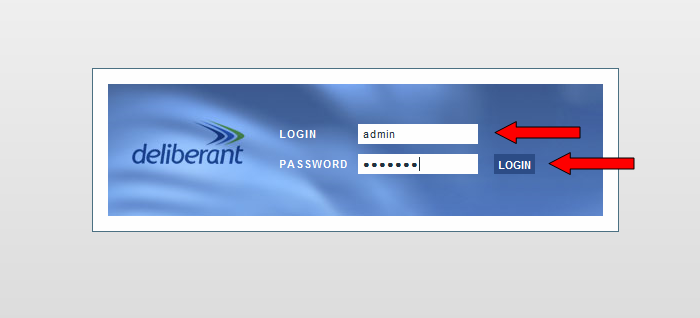
20. With the Device is rebooting, please wait display:



Do just that, wait. This may take 2 to 4 minutes

You will not receive “*The connection has timed out*” screen. Just wait the 2 to 4 minutes and refresh you browser.

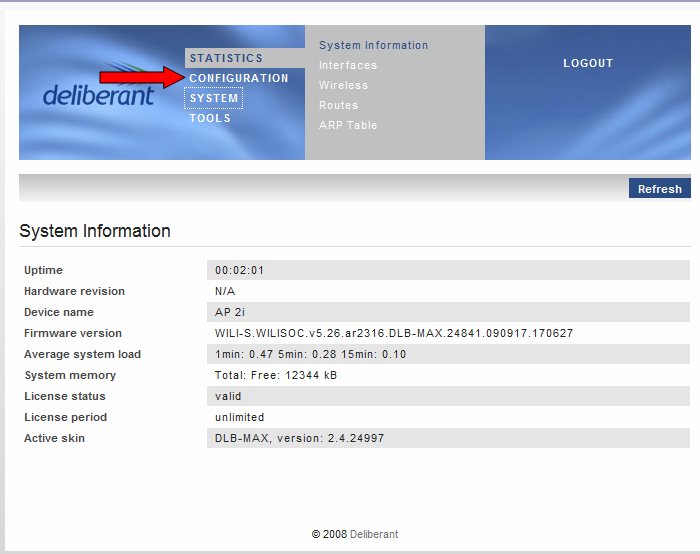
21. In the AP firmware **LOGIN** screen:



Enter ***admin*** in the **LOGIN** field and the ***Unique password*** you entered in the **SYSTEM** – **Account** screen in the **PASSWORD** field.

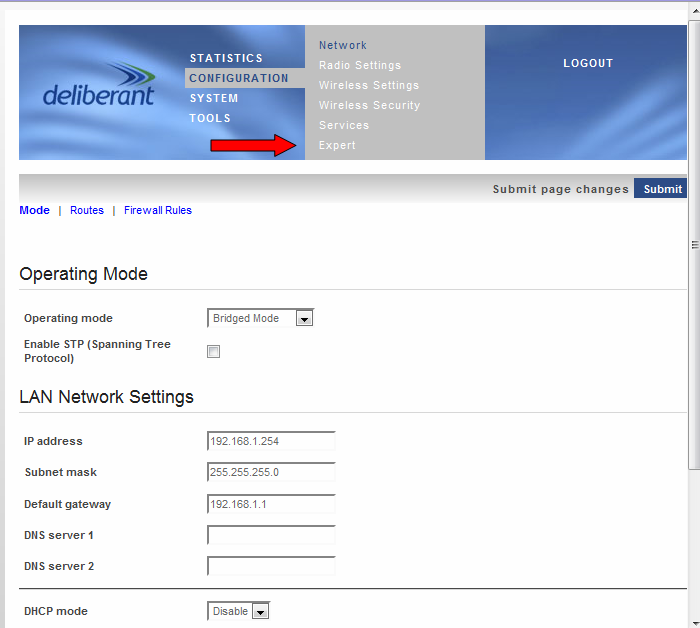
Click on the **LOGIN** button.

22. In the **STATISTICS** – **System** **Information** screen:



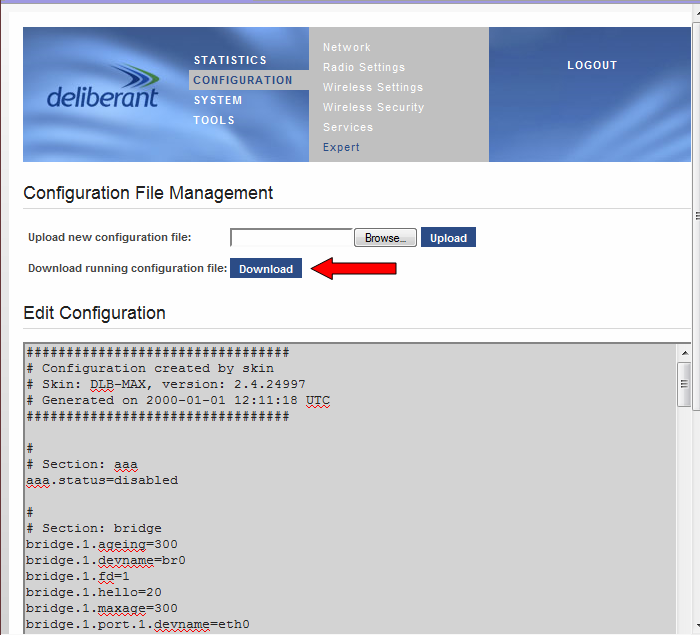
Click on the **CONFIGURATION** button.

23. In the **CONFIGURATION** – **Network** screen.



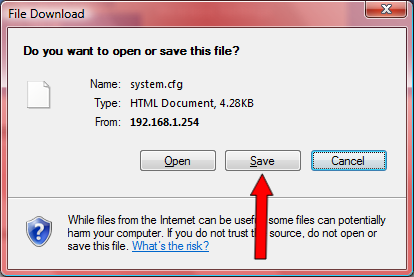
Click on the Expert button.

24. In the **CONFIGURATION** – **Expert** screen:



Click on the **Download** button.

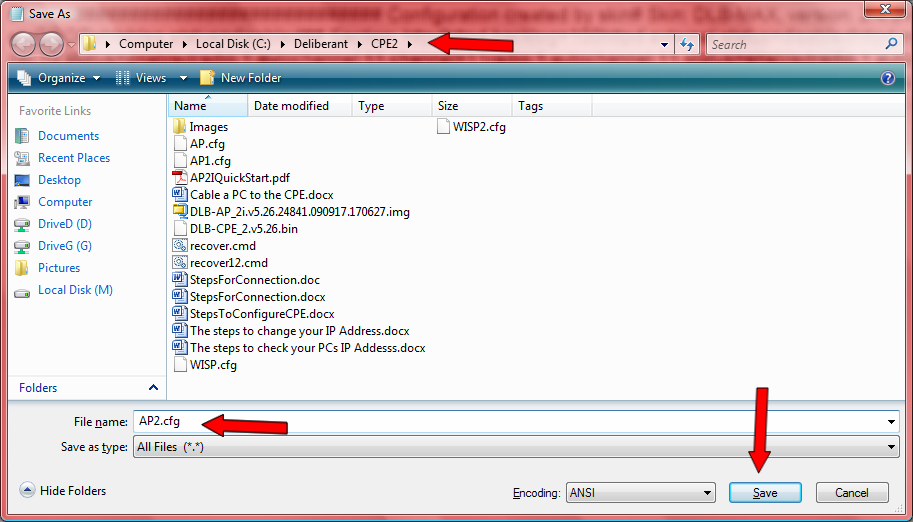
24. in the **File Download** window:



This window will depend on your Internet browser. This is the Internet Explorer window. FireFox will have a similar window,

Click on the **Save** button.

24. In the **Save As** window:



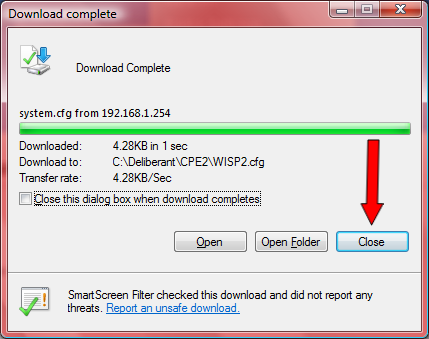
This is what Internet Explorer will display. FireFox will have a similar display.

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 ***AP2.***cfg that describes this saved configuration file as an AP file.

Click on the **Save** button.

25. In the **Download complete** window:



This is the Internet Explorer result window. FireFox may load the file to the **Downloads** folder. In that case, open the **Downloads** folder and move the file, which will probably have the name, ***system.cfg***, to the folder where all the Deliberant files are located. Rename the file to something appropriate that indicates that this is an AP configuration file, like **AP2.cfg**.

26. Completion.

You have configured the AP firmware and saved that configuration is case it needs to be reloaded.

As long as the configuration stays the same, the IP Address for the AP firmware will be the one entered in the **CONFIGURATION** – **Network** screen and the password for logging in will be the ***Unique password*** entered in the **SYSTEM** – **Account** screen.