

Configuring WaveLAN for use on a Laptop

- Needed:**
- 2 – WaveLAN PCMCIA cards
 - 1 – Access Point 1000
 - 1 – External Range Amplifier (antenna) (optional)

Laptop Configuration

1. Plug the WaveLAN PCMCIA card into your laptop and power up. Window will auto-detect the card when you start the laptop.
2. Put the PCMCIA drivers CD into the CD-Rom drive and tell the drivers screen to search for a driver. This will load the driver and bring up an Add/Edit Configuration window.
3. Click Edit Configuration, click basic, enter 'ANY' (all caps) into Network Name, and click OK twice.
4. Click OK on Client Manager is not installed.
5. Click on finish and NO to restart.
6. Right click on My Network, click on Properties. Go to TCP/IP Orinoco PC Card and click on it and then click on Properties. Click "specify an IP address" and enter an open IP address within your network in the IP address field. Click on "gateway" tab at the top of the window and add your network's gateway IP address. Click on add, click OK twice and choose yes to restart.
7. After the laptop has rebooted, double-click My Computer, the CD-Rom drive, and then Setup. On the Install window, click Install Software, Client Manager. Click next, yes, next, & next. Uncheck read-me, & click on finish, Return to Main Menu, and exit. Remove the PCMCIA drivers CD from the drive.

Setting Up Access Point in the Network

1. Insert 2nd PCMCIA card into the Access Point box. Plug cat-5 Ethernet cable and power cable into the Access Point.
2. Insert the Access Point Software CD into the CD-Rom drive of a PC connected to the Access Point. The PC will auto-detect the CD-Rom and a menu will pop up.
3. Click Install Software, AP Manager, Next, Yes, Next, & Next. Uncheck read-me, and click finish, return to main menu, and exit.

*****Proceed with Forced Reload Document to set up Access Point on your network and set passwords*****

Forced Reload For The AP-1000

A Forced Reload allows you to recover from a situation where the access point:

1. Has stopped responding to the system
2. Has been configured with an incorrect IP address or Encryption Key, or you have forgotten the unique identifiers to access the access point.
3. Access Control password has been forgotten, or you would like to disable Access Control.
4. Is being set up in a new network and you are unsure of the settings.

The Forced Reload, will reset the access point and clear all configuration settings from the FlashROM, and load the Forced Reload Configuration Settings.

In Force Reload state, the access point will stop bridging operation.

To access the access point after a Forced Reload procedure (e.g. to restore your configuration parameters), you may need to reconfigure your AP Manager station to match the Forced Reload Configuration Settings.

Warning: Do **not** perform a 'Forced Reload' procedure at more than one access point simultaneously. This may cause unexpected administrative problems as you might configure multiple units with an identical configuration image and IP address!

Forced Reload Step-1: Preparations

1. A Forced Reload procedure can only be performed when you have physical access to the access point. Familiarize yourself with the location of the access point. Do you need special equipment to access the unit, such as a ladder or keys to get into the room where the unit is located?
2. Do you have a back-up copy of the unit's current configuration? (On new installs, use the 'default.cnf' file)
3. If Yes, you can use the back-up copy to restore the original configuration.
4. If No, you will need to set all the user-defined parameters for the access point that apply in your network again. If you have access to the Website, you might like to download the latest available access point software (*.bin) for your access point first.
5. Make sure the AP Manager station and the access point are connected to the same LAN segment (subnet). To communicate with an access point in 'Forced Reload' state, no routers are allowed between the target access point and the AP Manager station.
6. Familiarize yourself with the forced reload configuration parameter settings of the access point.
7. Write down the IP address that the access point currently uses or should use.

Forced Reload Step-2: Set the Access Point to `Forced Reload` Mode

1. Remove the cover of the access point if the cover is on.
2. Locate the two small holes on the long-edge side of the processor module, marked 'Reset and Reload'.
3. Use a small pointed object, such as the tip of a ballpoint, to press the Reset button.
4. Release the Reset button and wait 5 seconds. The access point will perform start-up diagnostics, characterized by a LED sequence, where the LED's will change color in the range 'Amber', 'Red' and 'Green.'
5. After 5 seconds, interrupt the start-up diagnostics by pressing the Reload button. Keep this button pressed for approximately 30 seconds. You will see the LED's changing color in the range 'Amber', 'Red' and 'Green' again.
6. When all LED's turn 'Amber', release the Reload button. The Power LED turns to 'Amber', other LED's will be off, or may flicker Green to indicate LAN activity on the associated interface
7. Start the AP Manager tool.

Forced Reload Step 3: Select Access Point Software

NOTE: Following this procedure, the AP Manager tool may occasionally ask you for a Password that allows you to write data to and/or read data from the target Access Point.

1. Select the Access Point that is in Forced Reload.
**An Access Point in Forced Reload is displayed at the top of the access point list and can be recognized as follows (you may need to refresh the list first using the Refresh Access Point option under the Access Point menu):
 - A. The Access Point is marked with the Forced reload icon
 - B. The Access Point is marked with the Status 'Forced Reload'
 - C. The Access Point has the IP address 153.69.254.254.
2. From the Access Point menu, select Upload Software.
3. The AP Manager tool will prompt you to open the Access Point Software File (*.BIN). Move to the directory where you have installed the AP Manager tool, or the directory where you saved the access point software file (*.bin) you downloaded from the Website.
4. From the list of displayed files, select the file wpntxxx.bin, (where 'xxx' identifies the version of the access point Software: Currently wpnt370.bin). Click Open to open the file.

Forced Reload Step-4: Select the Access Point Configuration

1. When performing a Forced Reload, you will need to set the configuration parameters for the access point again. The AP manager tool will ask you if you would like to import a configuration (.cnf) file.
 - A. If you select Yes, you can open a previously saved local configuration file (*.cnf). After opening the local configuration file you are advised to verify the settings before uploading the configuration. After selecting OK, you will end up in the Edit Configuration screen where you can verify and change the configuration settings.

NOTE: Be sure to enter the correct IP address for your network (IE: 192.168.1.???) and ensure the password is set to something that can be remembered (default is public).

- B. If you select No, you will need to edit the Access Point configuration that was embedded in the selected software file (see also: Access Point Software). You will end up in the Edit Configuration screen where you can verify and change the configuration settings, as you would do upon initial installation (i.e. assign a unique IP address, setup the wireless parameters and, if applicable, other parameters).
2. Click the Upload button in the Edit Configuration screen to upload the Access Point software and configuration to the Access Point in Forced Reload mode.

Forced Reload Step-5: Upload Software and Configuration

1. A Change IP window will come up if the IP address has been changed. Here you will put in the same IP address that you gave the access point in the edit configuration menu previously. Click ok. The message 'Please wait while trying to connect to the Access Point' appears in the Change IP window. Only if the IP address specified in the configuration already exists, you are prompted to enter a new (unique) IP address for the Access Point in Forced Reload. If the IP address is valid, the upload will continue.
2. When you are asked if you want to continue with the upload:
 - A. Select No to abort the upload procedure if you are not sure.
 - B. Select Yes if you are sure that you want to overwrite the current access point software with the selected file. A window will appear with the message that the access point will reboot shortly. Select OK.
3. If Access Point does not auto reboot (power light goes green) then the access point will have to be manually rebooted by depressing the reset button.
4. Once the AP Manager is restarted or the access point list is refreshed, the new IP address, the Access Point name and 'online' should show on the screen.

Final Configuration of WaveLAN on Laptop

1. Reboot the laptop to reinitiate the PCMCIA card and to reload the Client Manager.
2. Double-click on Client Manager Icon in the system tray (Should be a set of green bars).
3. Make sure that 'Connected to Network: ----' lists the same name as the access points network name which is found by going to the PC that the Access Point software is loaded on and click access point, edit access point, input the password you set-up (default is public). Look for Network Name when screen pops up. If network names are not the same, go back to the laptop. Click actions, Add/Edit Configuration, and type in the name of the network listed on the Access Point, and OK (NOTE: the Network Name is case sensitive).
4. Once the access point network name comes up on Connected to Network: ----, you have a working WaveLAN connection.

NOTE: if the signal from the laptop is not very strong, the External Range Amplifier can be connected to the card in the laptop by unplugging a small black cap in the center end of the PCMCIA card and plugging in the cable.