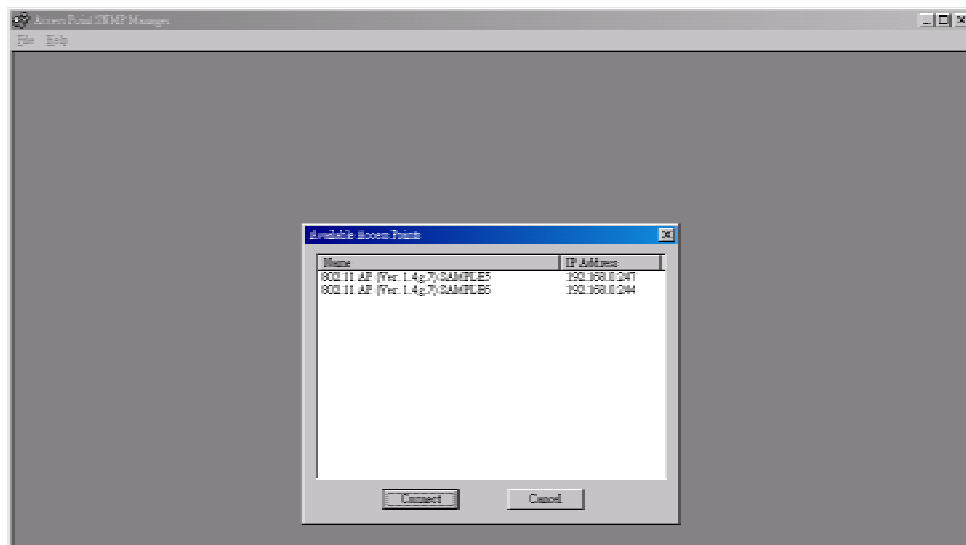


6. Setting Up Configurations by AP SNMP

Manager:

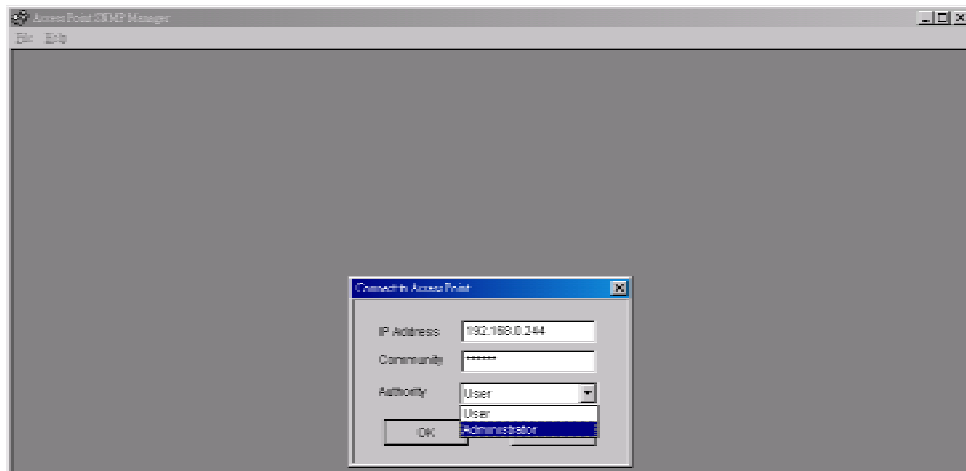
6.1. Connect to your AP

6.1.1. Find Access Point



Select **Find Access Point** on **File** menu. If there are other APs exists on the same subnet, the list of the APs will appear. You can double-click on the AP to connect to it. You can also select the AP and Click **Connect** to connect to it.

6.1.2. Connect to Access Point

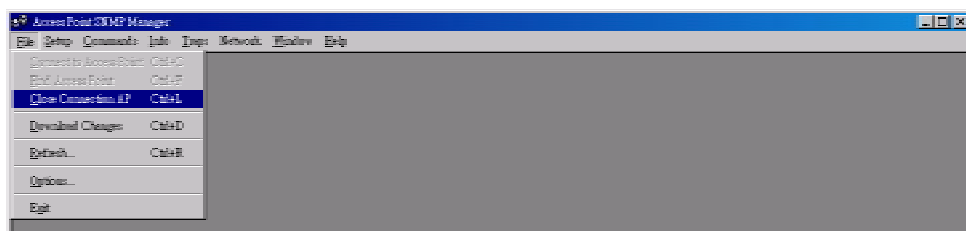


After Click **Connect to Access Point** on **File** menu, or after select connection target from APs List, the “Connect to Access Point” frame will appear.

- IP Address: Your AP's IP Address.
- Community: Community to connect your AP.
- Authority: You can only read configurations from AP if you select “User”. If you select “Administrator”, you can read the configurations and also modify the configurations.

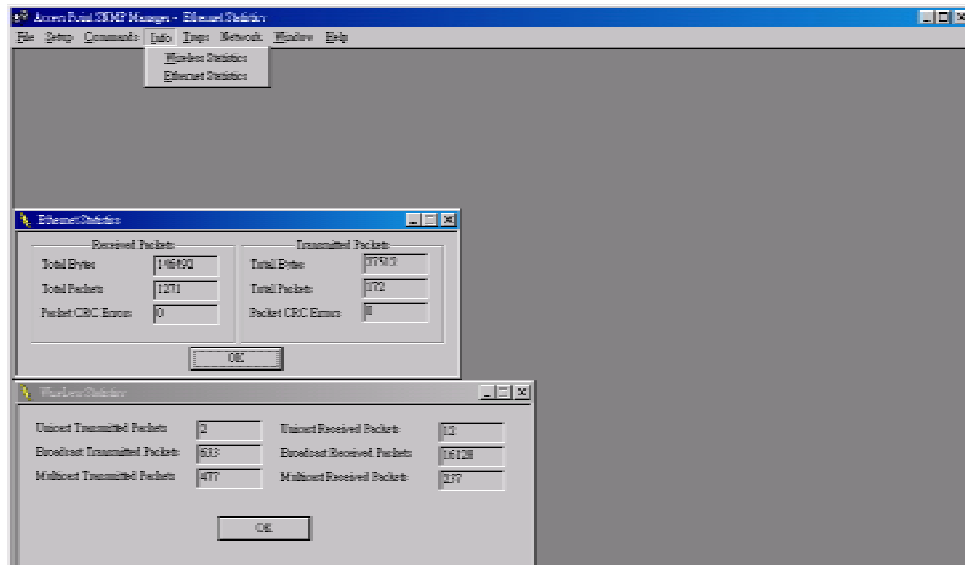
After all settings, click **OK** to connect to AP.

6.2. Close Connection of AP

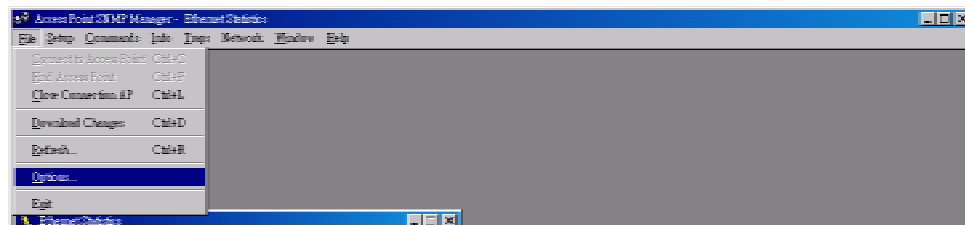


Select **Close Connection AP** on **File** menu to disconnect the connection between PC and AP.

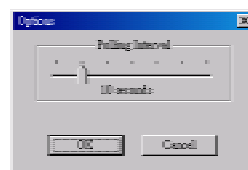
6.3. Get Statistics



After connect to AP, select **Wireless Statistics** or **Ethernet Statistics** on **Info** menu. You'll find network statistics in the frames. For default, the statistics will not update automatically.

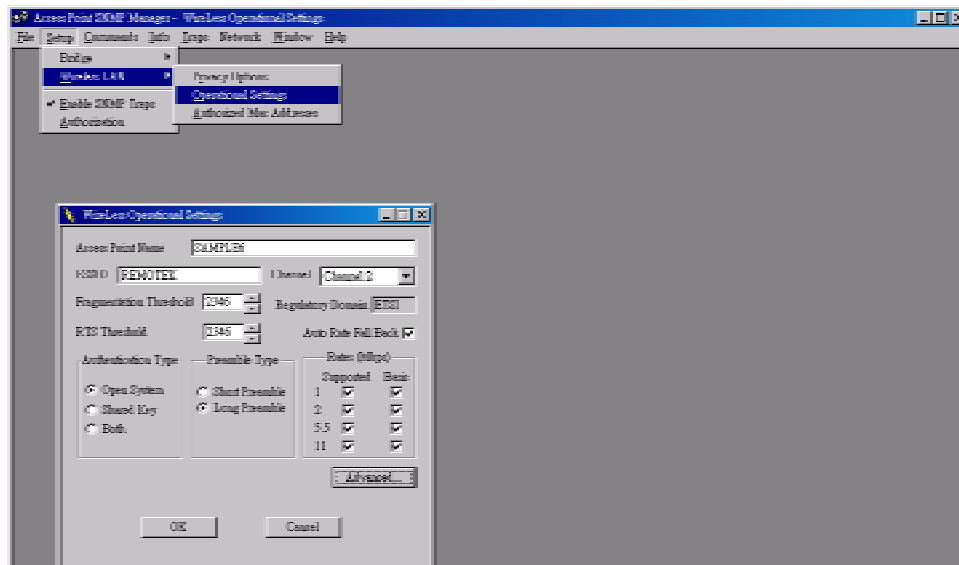


To enable statistics update automatically, select **Options** on **File** menu.



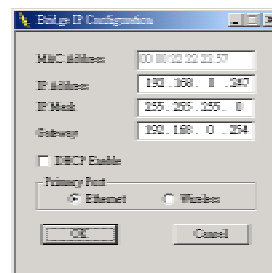
On Options frame, slide to decide automatically update period. Click OK to make the setting valid.

6.4. Modify Configurations



Most of the settings will not be downloaded to AP immediately after modifying. You should download the settings by selecting **Download Changes** on **File** menu to make the settings valid.

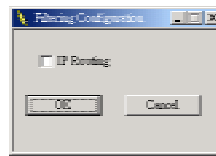
6.4.1. Modify Bridge IP Configuration



Select **IP Configuration** from **Bridge** submenu on **Setup** menu.

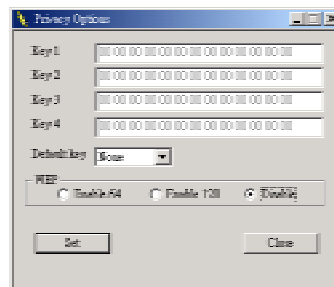
- MAC Address: The MAC address of the AP. You can't modify this field.
- IP Address: AP's IP address
- IP Mask: AP's mask
- Gateway: AP's gateway
- DHCP enable: Enable DHCP client service that gets IP settings from DHCP server.
- Primary Port: Select where the DHCP server is.

6.4.2. Modify Filtering Configuration



Select **Filtering** from **Bridge** submenu on **Setup** menu. If you check IP Routing, only IP Packet will pass through AP between Ethernet and Wireless LAN.

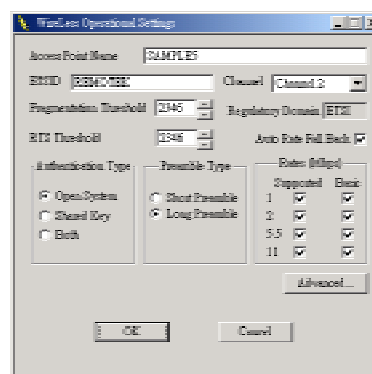
6.4.3. Modify Privacy Options



Select **Filtering** from **Wireless LAN** submenu on **Setup** menu.

- Key 1 ~ Key 4: Fill keys for WEP. 13 octets for 128-bit WEP, and 5 octets for 64-bit WEP.
- Default Key: Select default key from Key 1 ~ Key 4.
- WEP: Select WEP mode. 64-bit WEP, 128-bit WEP, or disable WEP.

6.4.4. Modify Wireless Operation Settings



Select **Operation Settings** from **Wireless LAN** submenu on **Setup** menu.

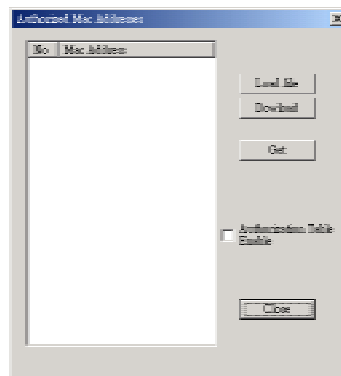
- Access Point Name: Fill in User-Friendly Name.
- ESSID: Fill in Access Point's ESSID. Adaptors could roam over the APs that have same ESSID.
- Channel: Working channel through Channel 1 ~ Channel 13
- Fragmentation Threshold: Packet fragment size.
- RTS Threshold: RTS will not send if the packet is smaller than RTS

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Threshold.

- Authentication Type:
 - ♦ Open System: Any adaptor could connect to AP.
 - ♦ Shared Key: Adaptors using shared key encryption could connect to AP.
 - ♦ Both: Adaptors could connect to AP by both kind of authentication type.
- Preamble Type: Select the type of preamble field of PPDU. If select short preamble, throughput performance will be improved.
- Auto Rate Fall Back: Rate will fall back due to interferences.
- Rates: Select support rates and basic rates here.
- Advance: Please refer to [7. Wireless LAN AP Operation Modes](#).

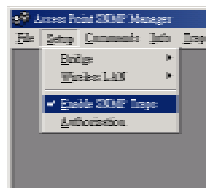
6.4.5. Modify Authorized MAC Addresses



Select **Authorized Mac Addresses** from **Wireless LAN** submenu on **Setup** menu. Different from most other configurations in **Setup** menu, all settings could be valid in this frame.

- Load file: You can build a text file that consists a list of MAC Addresses
Ex. 001122334455
998877665544
means 00:11:22:33:44:55 and 99:88:77:66:55:44 will be load to the list of MAC addresses.
- Download: Download MAC addresses from the list to AP.
- Get: Get MAC addresses from AP to the list.
- Authorization Table Enable: If checked, only devices using MAC address in authorization table could connect to the AP.
- Close: Close the Frame

6.4.6. Traps

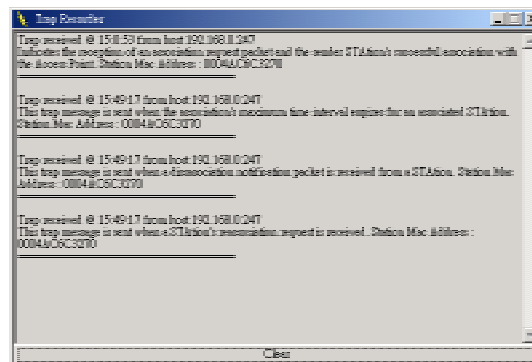


Select **Enable SNMP Traps** on **Setup** menu. If checked, AP SNMP Manager may receive trap messages from AP.



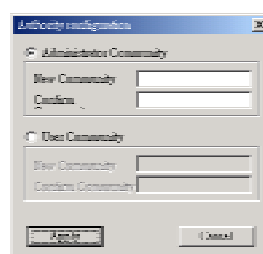
When AP SNMP Manager receives trap messages from AP, " # <Trap Received> " will appear on bottom-right of AP SNMP Manager.

Select **View Records** on **Traps** menu.



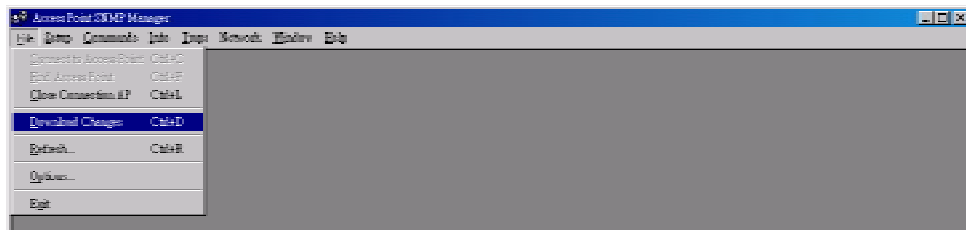
You can read all traps in this frame. Click **Clear** to clear all traps and leave.

6.4.7. Modify Authorization Configuration



Select **Authorization** on **Setup** menu. You can change Administrator's and User's communities here.

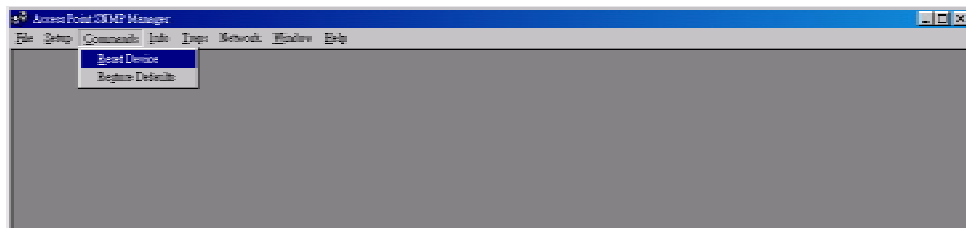
6.5. Download Changes to AP or Refresh Setting from AP



Select **Download Changes** on **File** menu, then all settings will download to AP. After that, AP SNMP Manager will command AP to reset.

If you want to get the original settings on AP, please select **Refresh** on **File** menu.

6.6. Reset AP or Restore Defaults

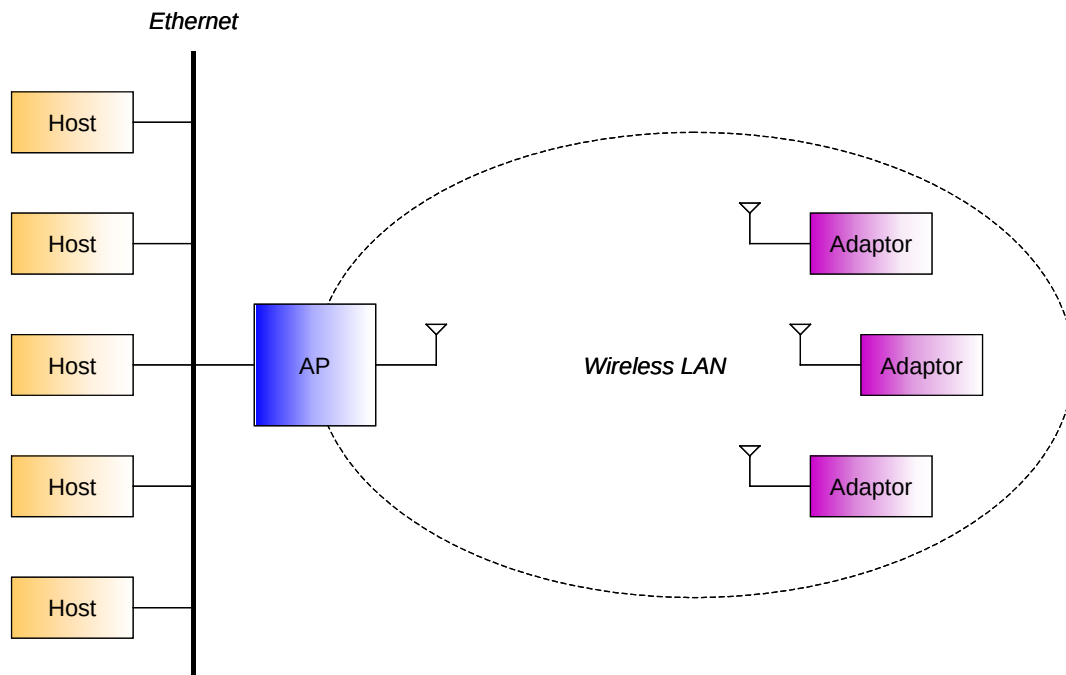


Select **Reset Device** on **Commands** menu. The AP will be reset.

Select **Restore Device** on **Commands** menu. The AP will restore default settings.

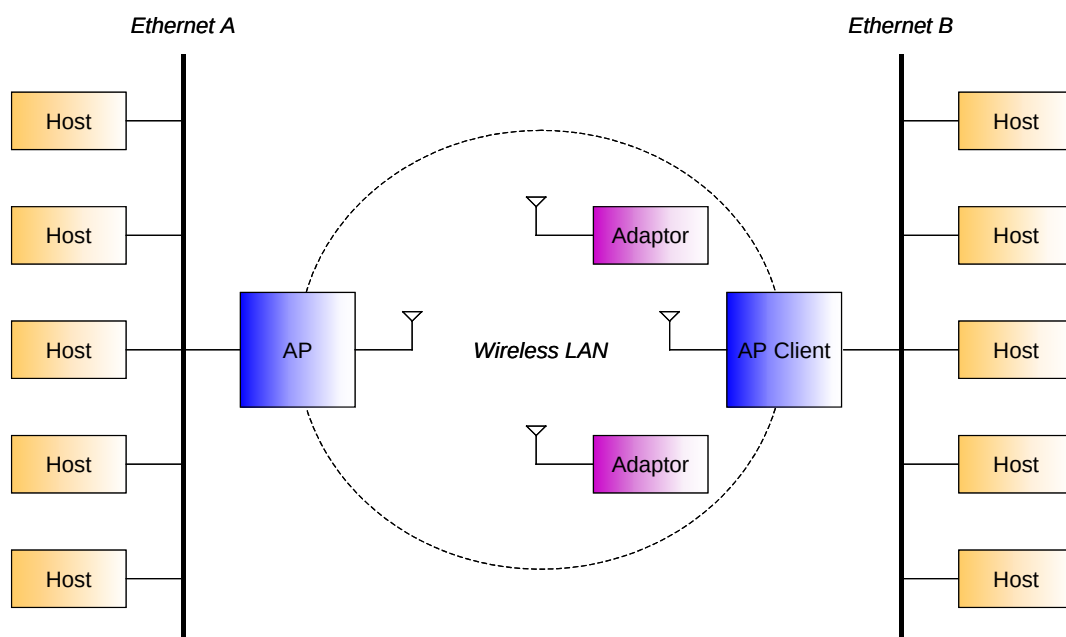
7. Wireless LAN AP Operation Modes:

7.1. Wireless LAN Access Point



AP provides the capability of connecting Wireless LAN to Ethernet. Adaptors can connect to Ethernet through AP.

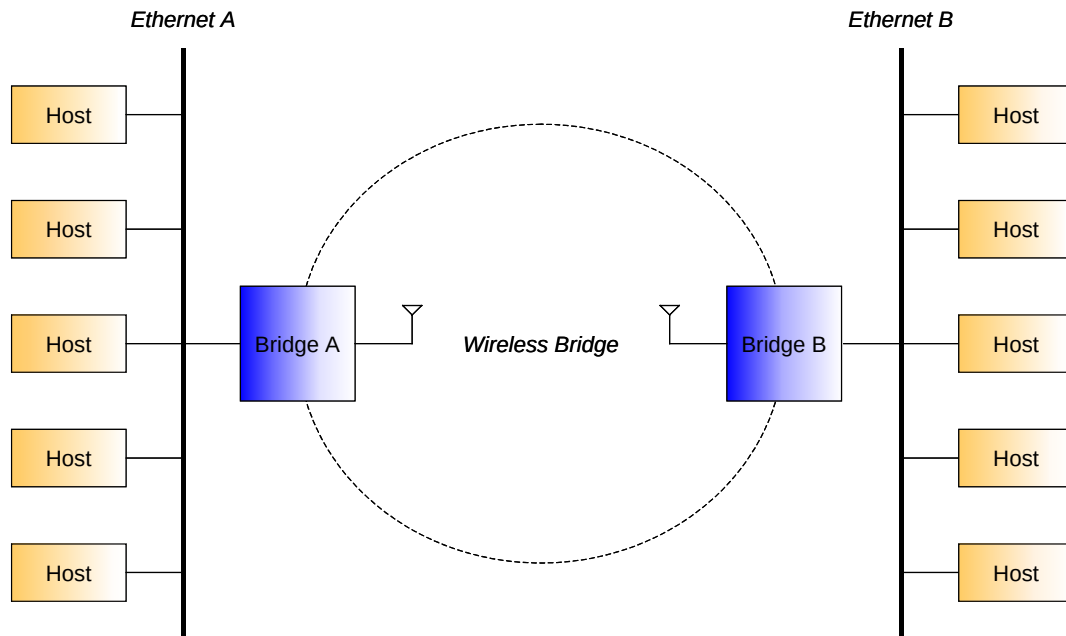
7.2. AP Client



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AP Client could connect to the AP like an adaptor. The figure shows that Ethernet B has connected to Ethernet A. Adaptors still could connect to the AP that the AP Client connected to.

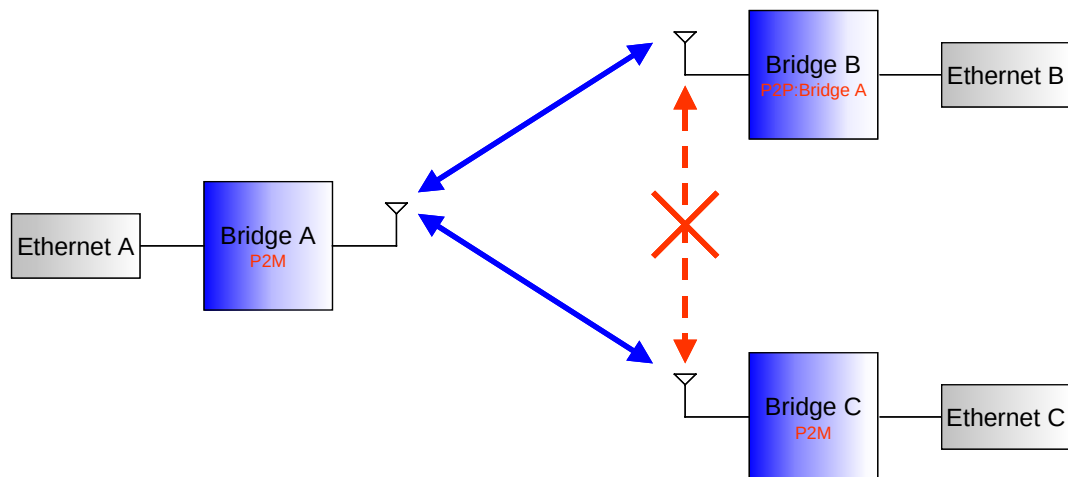
7.3. Bridge



Different from the AP – AP Client mode, no adaptors could connect to any bridge in bridge mode. And there are two bridge modes.

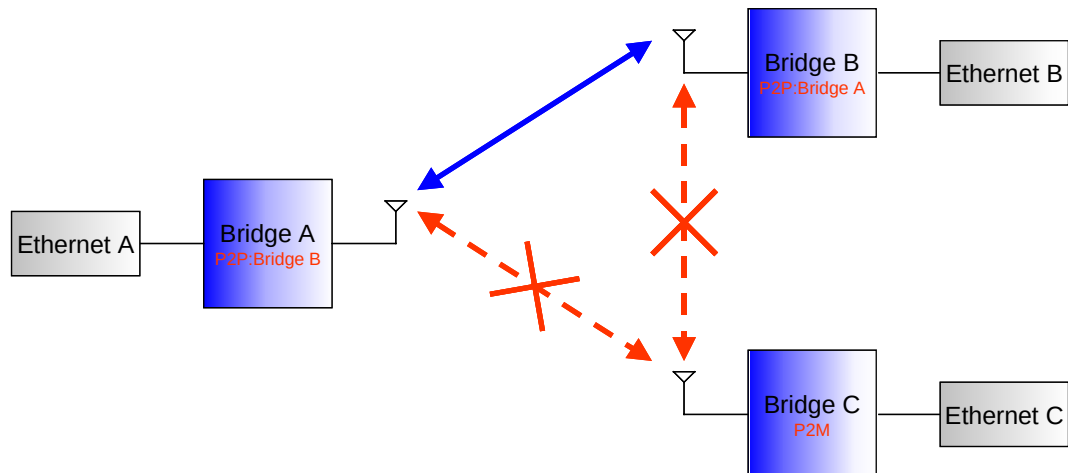
- Wireless Bridge Point-to-Point
Bridge in this mode will only connect to one fixed bridge.
- Wireless Bridge Point-to-Multipoint
Bridge in this mode will connect to any other bridges nearby.

7.3.1. Bridge Connection Example 1



Bridge A and Bridge C are in Point-to-Multipoint mode, Bridge B in Point-to-Point mode that only connect to Bridge A. In this case, Bridge A could connect to both Bridge B and Bridge C, but Bridge C could only connect to Bridge A.

7.3.2. Bridge Connection Example 2

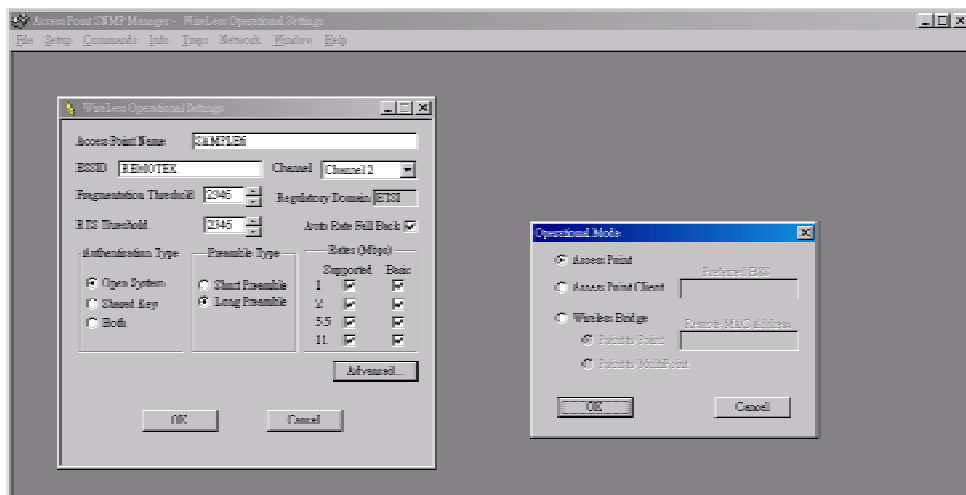


If we set Bridge A to be Point-to-Point mode that only connect to Bridge B. Bridge C can't connect to either Bridge A or Bridge B.

7.4. Modify Operation Mode by AP SNMP Manager



Select **Operation Settings** from **Wireless LAN** submenu on **Setup** menu.



Click **Advanced...**, Operation Mode frame will appear.

- Access Point: Normal Access Point mode
- Access Point Client: You have to fill AP's BSSID in Preferred BSSID field. And the ESSID of AP Client should be the same as AP's.
- Wireless Bridge: All Bridges should use same channel in same connection.
 - ♦ Point-to-Point: You have to fill in the MAC address of the Bridge that you want to connect.
 - ♦ Point-to-Multipoint: In Point-to-Multipoint mode, you don't have to set MAC addresses.

8. Specification:

Standard Compatibility

- IEEE802.11b, FCC, ETSI, Wi-Fi compatible
- All major networking standards, including IP, IPX
- Wireless Network Interface: IEEE 802.11b (CSMA/CA)
- Wired Network Interface: RJ45(10Base-T)
- Encryption: 64-bit WEP and 128-bit WEP

Environmental

- Operating Temperature is from 32°F to 131°F (0°C to 55°C)
- Humidity (non-condensing): 10 to 90%

Power specification

- Power Consumption: 5V±5%@800mA
- Power Requirements: 110-120V/220-240V

Radio Specifications

- RF Output Power: 15 dBm
- Modulation Technique: Direct Sequence Spread Spectrum
· CCK@5Mbps/11Mbps · DQPSK@2Mbps · DBPSK@1Mbps
- Typical Range: *50m indoors, 100m outdoors when 11Mbps
(May vary depending on operation environment)
- Frequency range: 2.4-2.4835 GHz
- Number of channels
- Antenna: Embedded Antenna Modulation with diversity support, gain?dB

Physical Dimensions

- 190*249*50mm?

Other Function

- Led Indicators: Status, network activity and RF Activity