Application Note

This guide is for you to construct a network between wired and wireless network with the Access Point.

This sheet will guide you how to install **Access Point** mode and **Station/Bridge** mode on basic network step by step. If you encounter problems during the installation, please refer to your **User Manual**.

Introduction

The Access Point can swap between these two modes: **Access Point** and **Station/Bridge**. In this application note, we will give two examples to show you how to construct a network with the two modes of the Access Point. Figure 1 is the example of connecting two networks wirelessly. Figure 2 is the application of using the Access Point as an access point repeater.

*Note: To have your Access Point switched between the **Access Point** mode and the **Station/Bridge** mode, please refer to the **AP Station Upgrade Quick Guide**.*
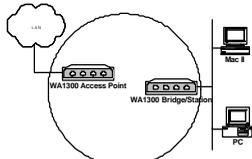

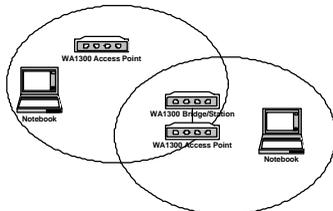Figure 1: Connect two networks wirelessly

Figure 2: AP Repeater

Figure 3: Installation Diagram

Application 1: Connect Two Networks Wirelessly

System Requirements

a) Two Access Point devices. One sets to **Access Point** mode and the other sets to **Station/Bridge** mode.

b) One or more PCs (desktop or notebook) with Ethernet interface. Set its **IP address,** for example, to 192.168.1.200 and **Subnet mask** to 255.255.255.0.

c) **TCP/IP** protocol must be installed on all PCs.

d) Network cables. Use standard 10/100BaseT network (UTP) cables with RJ45 connectors.

e) Microsoft Internet Explorer 5.0 or later or Netscape Navigator 4.7 or later.

Installation Instructions

a) Use straight LAN cable to connect the **Access Point** with one LAN, and **Station/Bridge** with the other. Figure 1 shows the placement.

b) Connect the power adapter to the power jacks on both of **Access Point** and **Station/Bridge**.

c) Open the Web browser to enter the **Access Point** Web management page, and then set the **Network Name** of **Access Point** to, for example, **wirelesslan**. Figure 4 shows the **Access Point** Web management configuration page.

Figure 4: **Access Point** Web management configuration page

d) In the **Station** Web management page, set the **Network Name** of **Station/Bridge** to **wirelesslan**. Figure 5 shows the **Station** Web management configuration page.

Figure 5: **Station** Web management configuration page

Once you have configured all of the PCs on your network with appropriate values, the setup and installation of connection between two networks are complete.

Application 2: AP Repeater

System Requirements

a) Three Access Point devices. Set two of them to **Access Point** mode and the other to **Bridge/Station** mode.
b) One PC (desktop or notebook) with Ethernet interface. Set its **IP address** to, for example, 192.168.1.200 and **Subnet mask** to 255.255.255.0. (For setting all Access Point devices)
c) TCP/IP protocol must be installed on PC.
d) Network cables. Use **crossover** 10/100BaseT network (UTP) cables with RJ45 connectors.
e) Microsoft Internet Explorer 5.0 or later or Netscape Navigator 4.7 or later.

Installation Instructions

a) Use crossover LAN cable to connect **PC** with one **Access Point.** Here we label it as **AP1** hereafter.
b) Connect the power adapter to the power jack on **AP1**.
c) Set the **Network Name** of AP1 to, for example, **rep** on AP1 Web management page. Figure 4 shows the **AP** Web management configuration page.
d) Set the **IP address** of AP1 to, for example, **192.168.1.80** on AP1 Web management page. Figure 6 shows the **AP** management administration page.
e) Use crossover LAN cable to connect **PC** (disconnect to **AP1**) with one **Bridge/Station.** Here we label it as **STA** hereafter.
f) Connect the adapter to power jack on **STA**.
g) Set the **Network Name** of STA to, for example, **wirelesslan** on **Station** Web management page. Figure 5 illustrates the **Station** Web management configuration page.
h) Set the **IP address** of STA to, for example, **192.168.1.99** in the **Station** Web management page. Figure 7 illustrates the **Station** Web management administration page.

Figure 6: **AP** management administration page

Figure 7: **Station** management administration page

i) Use crossover LAN cable to connect **PC** (disconnect to **STA**) with the other **Access Point**. Here we label it as **AP2** hereafter.
j) Connect the power adapter to the power jack on **AP2**.
k) Set the **Network Name** of AP2 to, for example,, **wirelesslan** on AP2 Web management page. Figure 4 shows the **Access Point** Web management configuration page.
l) Set the **IP address** of AP2 to, for example, **192.168.1.90** on AP2 Web management page. Figure 6 shows the **AP** management administration page.
m) Use crossover LAN cable to connect **AP1** (disconnect to **AP2**) with **STA**.

*Once you have configured all the Wireless PCs on the two networks with appropriate value of **Network name**, the **AP Repeater** setup and installation are complete.*