

Configure Cisco Aironet Adapters To Use With Apple Airport Base Stations

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Introduction

If you want your Cisco 340 or 350 PCMCIA wireless client to work with your existing Apple Airport Base Station (ABS), use this step-by-step guide. Several weeks of research, configuration, and troubleshooting went into the creation of this document.

The goal of this document is to allow the Cisco Aironet Client Adapter to effectively communicate with the Apple ABS.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software and hardware versions:

- Apple Powerbook running MacOS version 9.2
- Cisco Aironet 340 series PCMCIA Client Adapter card.

Note: You must install the Cisco Aironet Client Adapter and the driver and software (available at the Cisco Wireless Software Center) before you proceed with the configuration. This document does not discuss advanced settings.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to the Cisco Technical Tips Conventions for more information on document conventions.

Configure

Airport Base Station Configuration

You must configure ABS, and ensure that ABS functions properly before you add the Cisco client to the network. The ABS controls interoperability between itself and the clients.

The user connects to the ABS through the Airport Admin Utility, which is available in the MacOS. The documentation that accompanies the ABS (and the MacOS help system) explains how to access and configure the ABS through the utility.

You must either use a crossover cable to directly connect your computer to the ABS for configuration, or connect both the computer and the ABS to a hub. The ABS documentation explains this procedure in detail.

1. In the Airport Admin Utility, select the **Airport** tab.
2. Select **Airport Network** and configure these settings:
 - a. Network Name: Type the name.

Note: The Network Name is the Service Set Identifier (SSID) and is case-sensitive. If this is already configured, make a note of the SSID for later use when you configure the Client Adapter.
 - b. Create a closed network: Enabled
 - c. Channel: Select any channel, but make a note of your selection for later use when you configure the Client Adapter.
 - d. Station density: Medium
 - e. Multicast rate: 2
 - f. Enable interference robustness: Not enabled
 - g. Enable encryption (using WEP): Not enabled
3. In the Airport Admin Utility, select the **Network** tab. Configure these settings:
 - a. Distribute IP address: Enabled
 - b. Ethernet client computers also share a single IP address (using NAT): Not enabled
 - c. DHCP Lease Time: 60 minutes
 - d. Enable DHCP server on Ethernet: Not enabled
 - e. Enable Airport to Ethernet bridging: Not enabled
4. In the Airport Admin Utility, select the **Access Control** tab, and delete any Airport ID (MAC) address.

Aironet Client Utility Configuration

Complete these steps to configure the Aironet Client Utility:

1. Start the Aironet Client Utility. Double-click the icon (which was added to the computer desktop when you installed the utilities).

2. In the **Basic Properties** window, delete any existing data from the SSID field.
3. Click **Apply** and close the window.
4. In the **Edit Properties** window, select the **System Parameters** tab, and configure these settings:
 - a. Client name: Type a unique name for the workstation.
 - b. SSID fields: Leave blank
 - c. Power Save Mode: Select any option
 - d. Network Type: Infrastructure mode
 - e. Network: Home network
5. Select the **RF Network Parameters** tab, and perform these tasks:
 - a. Click **Defaults**.
 - b. Allow association to mixed cells: Select **Enabled**
6. Select the **Home Networking** tab. Configure these settings:
 - a. Home radio network name: Type the SSID (same as Airport Base Station Configuration).
 - b. Home encryption key: Leave blank
 - c. Enable LEAP for home network: Not enabled
 - d. Enable WEP for home network: Not enabled
 - e. Home network type: Infrastructure
 - f. Home data rate: Auto
 - g. Home authentication type: Open
 - h. Home channel: Select any channel, but make a note of your selection for later use when you configure the Client Adapter.
7. Click **OK** to close the window.

Cisco Wireless LAN Adapter

Complete these steps:

1. Double-click the Cisco Wireless LAN Adapter desktop icon to bring up the TCP/IP window.
2. From the MacOS control panel, select **Location Manager** to create a unique location to use your Cisco Aironet client adapter. This prevents changes to existing TCP/IP or AppleTalk settings you have for other locations, such as your work LAN.

Note: You can search the MacOS Help system for help to configure **Location Manager**.
3. Type or select these values in the TCP/IP window:
 - a. Connect via: Cisco Wireless LAN Adapter
 - b. Configure: Using DHCP Server
 - c. DHCP Client ID: Enter a unique name for the workstation.
 - d. IP Address: Should be assigned via DHCP
 - e. Subnet mask: Should be assigned via DHCP
 - f. Router address: Must be the IP address of Airport BaseStation. Run the Airport Admin Utility to find the router address. As soon as the Airport BaseStation is found, the IP address appears in the list along with the user-assigned name of the base station.
 - g. Leave all other fields blank and do not enable them.

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

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