

## Setting Up the Apple Airport Express for use with IOS Remote Devices

Before starting, make sure you have downloaded and installed the latest version of the **Airport Utility Program** from Apple

Go to the **Settings** on your computer and ensure that **WiFi** is turned **Off**

Plug a network cable into the jack on the **Airport Device** labeled <—> and plug the other end into a computer where the **Airport Utility** is installed.

Run the **Airport Utility App**

Note: The Airport Utility App is normally installed in the **Applications —> Utilities Folder**

Once the application is running it will show an icon your Your Airport Device

Click on the Airport Express icon and choose **Edit**

Click on the **Base Station Tab**

Base Station | Internet | Wireless | Network | AirPlay

Base Station Name:

Base Station Password:

Verify Password:

Remember this password in my keychain

Allow setup over WAN

Using Back to My Mac you can access this AirPort base station for services such as file sharing from your other computers that have Back to My Mac enabled. Click Add (+) and enter your Apple ID and password.

Back to My Mac:

Apple ID	Status

Assign a Base Station Name and Password. Note: This is the name of the device, not the wireless network.

If you check “Remember this password in my keychain” you won’t have to type it in each time you need to make a change.

Click on the **Internet Tab**

The screenshot shows a network configuration window with the following elements:

- Tabbed interface with 'Internet' selected.
- 'Connect Using' dropdown menu set to 'DHCP'.
- IPv4 Address: 169.254.159.218
- Subnet Mask: 255.255.0.0
- 'Renew DHCP Lease' button.
- 'Router Address:' label.
- 'DNS Servers:' label with two empty text input fields.
- 'IPv6 DNS Servers:' label with two empty text input fields.
- 'Domain Name:' label with one empty text input field.
- 'IPv6 Address:' label.
- 'Internet Options...' button.
- 'Cancel' and 'Update' buttons at the bottom right.

Ensure that **Connect Using** is set to **DHCP**

Click the **Internet Options Button**

**Internet Options**

Configure IPv6: **Link-local only**

Use dynamic global hostname

Hostname:

User:

Password:

**Cancel** **Save**

Ensure that the **Configure IPv6** is set to **Link-Local only**

Note: If this is not set properly, the LED on the device will always show yellow indicating that it is not attached to the internet.

By setting this, you are telling the device not to look for an internet connection and the LED will show green.

Click the **Save Button** to close the dialog box.

Click the **Wireless Tab**

Base Station | Internet | **Wireless** | Network | AirPlay

Network Mode: Create a wireless network

Wireless Network Name: Armadillo West

Wireless Security: WPA2 Personal

Wireless Password: .....

Verify Password: .....

Remember this password in my keychain

Enable Guest Network:

Wireless Options...

Cancel Update

Change the **Network Mode** to **Create Wireless Network**

Assign a descriptive name in the **Wireless Network Name Textbox**

Set the **Wireless Security** to **WPA2 Personal**

Type a password that you can remember into the **Wireless Password** and **Verify Password Text boxes**

Write down the name of the network and the password on a piece of paper and keep it somewhere safe. You will need it when you want to connect via iPad or iPhone

I placed a label on the bottom of my device with the name of the wireless network along with a password hint.

Click the **Wireless Options Button**

**Wireless Options**

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5GHz network name:

Country:

Create hidden network

Radio Mode:

2.4GHz Channel:

5GHz Channel:

Check the **Create hidden network Checkbox**

Note: You don't have to do this but if you don't, the network will be visible to all the devices in the venue. If any of those devices are set to automatically connect, they will attempt to connect to your network using valuable bandwidth. It is best to hide it.

Click the **Save Button** to close the dialog box

Click the **Network Tab**

The screenshot shows a network configuration window with the following elements:

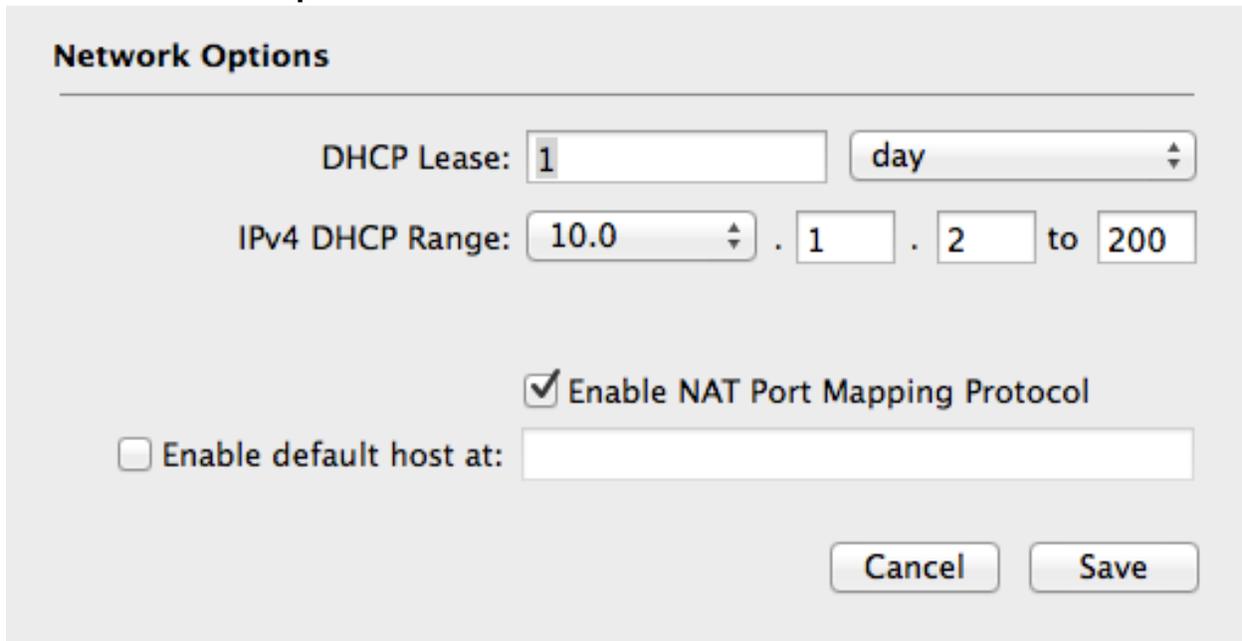
- Navigation tabs: Base Station, Internet, Wireless, **Network**, AirPlay
- Router Mode: DHCP and NAT
- DHCP Range: 10.0.1.2 to 10.0.1.200
- DHCP Reservations table:

Description	IP Address
- Port Settings table:

Description	Type
- Enable Access Control:  Timed Access Control...
- Network Options...
- Buttons: Cancel, Update

Set the **Router Mode** to **DHCP and NAT**

Click the **Network Options Button**



The image shows a 'Network Options' dialog box with a title bar and a horizontal line below the title. It contains the following elements:

- DHCP Lease:** A text input field containing '1' and a dropdown menu showing 'day'.
- IPv4 DHCP Range:** A series of input fields: '10.0', a dropdown arrow, '.', '1', '.', '2', 'to', and '200'.
- Enable NAT Port Mapping Protocol:** A checked checkbox.
- Enable default host at:** An unchecked checkbox followed by an empty text input field.
- Buttons:** 'Cancel' and 'Save' buttons at the bottom right.

Set the **DHCP Lease** to **1 day**

Set the range of available addresses. If you don't know what that means just set the **IPv4 DHCP Range** to the values above

Check the **Enable NAT Port Mapping Protocol Checkbox**

Click the **Save Button** to close the dialog box

Click the **Airplay Tab**

The screenshot shows a configuration window with a tabbed interface. The tabs are 'Base Station', 'Internet', 'Wireless', 'Network', and 'AirPlay'. The 'AirPlay' tab is active. Inside the window, there are two checkboxes: 'Enable AirPlay' (checked) and 'Enable AirPlay over WAN' (unchecked). Below these are three text input fields: 'AirPlay Speaker Name' (containing 'Martin America's AirPort Express'), 'AirPlay Speaker Password' (empty), and 'Verify Password' (empty). At the bottom right, there are two buttons: 'Cancel' and 'Update'.

This will enable you to stream audio from any IOS Device to the Airport Express.

Note: Not all Airport devices support Airplay

To Enable AirPlay, Check the **Enable AirPlay Checkbox** and assign it a meaningful name. This is the name that will show up on connected IOS devices.

Click the **Update Button**

This will send the settings to the Airport Device and cause it to restart. After a minute or so the indicator light will turn a solid green.

You should be able to connect an IOS Device.

On the IOS Device, Goto **Settings->WiFi** and click **Other**

Type the **Name** and **Password** that you assigned earlier and press the **Join Button**