

Checking Basic Settings

Mismatched basic settings are the most common causes of lost connectivity with wireless clients. If the access point does not communicate with client devices, check the following areas.

SSID

Wireless clients attempting to associate with the access point must use the same SSID as the access point. If a client device's SSID does not match the SSID of an access point in radio range, the client device will not associate. The access point default SSID is *tsunami*.

WEP Keys

The WEP key you use to transmit data must be set up exactly the same on your access point and any wireless devices with which it associates. For example, if you set WEP Key 3 on your client adapter to 0987654321 and select it as the transmit key, you must set WEP Key 3 on the access point to exactly the same value. The access point does not need to use Key 3 as its transmit key, however.

Refer to [Chapter 9, “Configuring Cipher Suites and WEP,”](#) for instructions on setting the access point's WEP keys.

Security Settings

Wireless clients attempting to authenticate with your access point must support the same security options configured in the access point, such as EAP or LEAP, MAC address authentication, Message Integrity Check (MIC), WEP key hashing, and 802.1X protocol versions.

If a wireless client is unable to authenticate with your access point, contact the system administrator for proper security settings in the client adapter and for the client adapter driver and firmware versions that are compatible with the access point settings.

**Note**

The access point MAC address that appears on the Status page in the Aironet Client Utility (ACU) is the MAC address for the access point radio. The MAC address for the access point Ethernet port is printed on the label on the back of the access point.

Resetting to the Default Configuration

If you forget the password that allows you to configure the access point, you may need to completely reset the configuration. On 1100 and 1200 series access points, you can use the MODE button on the access point or the web-browser interface. On 350 series access points, you can use the web-browser or CLI interfaces.

**Note**

The following steps reset *all* configuration settings to factory defaults, including passwords, WEP keys, the IP address, and the SSID. The default username and password are both **Cisco**, which is case-sensitive.

Using the MODE Button

Follow these steps to delete the current configuration and return all access point settings to the factory defaults using the MODE button.


Note

You cannot use the mode button to reset the configuration to defaults on 350 series access points. To reset the configuration on 350 series access points, follow the instructions in the [“Using the Web Browser Interface”](#) section on page 22-6, or in the [“Using the CLI”](#) section on page 22-7.

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- Step 1** Disconnect power (the power jack for external power or the Ethernet cable for in-line power) from the access point.
 - Step 2** Press and hold the **MODE** button while you reconnect power to the access point.
 - Step 3** Hold the **MODE** button until the Status LED turns amber (approximately 1 to 2 seconds), and release the button.
 - Step 4** After the access point reboots, you must reconfigure the access point by using the Web-browser interface or the CLI.


Note

The access point is configured with the factory default values including the IP address (set to receive an IP address using DHCP). The default username and password are **Cisco**, which is case-sensitive.

Using the Web Browser Interface

Follow these steps to delete the current configuration and return all access point settings to the factory defaults using the web browser interface:

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- Step 1** Open your Internet browser. You must use Microsoft Internet Explorer (version 5.x or later) or Netscape Navigator (version 4.x).
 - Step 2** Enter the access point’s IP address in the browser address line and press **Enter**. An Enter Network Password screen appears.
 - Step 3** Enter your username in the User Name field.
 - Step 4** Enter the access point password in the Password field and press **Enter**. The Summary Status page appears.
 - Step 5** Click **System Software** and the System Software screen appears.
 - Step 6** Click **System Configuration** and the System Configuration screen appears.
 - Step 7** Click the **Reset to Defaults** button.


Note

If the access point is configured with a static IP address, the IP address does not change.

- Step 8** After the access point reboots, you must reconfigure the access point by using the Web-browser interface or the CLI. The default username and password are **Cisco**, which is case-sensitive.

Using the CLI

Follow the steps below to delete the current configuration and return all access point settings to the factory defaults using the CLI.

- Step 1** Open the CLI using a Telnet session or a connection to the access point console port.
- Step 2** Reboot the access point by removing power and reapplying power.
- Step 3** Let the access point boot until the command prompt appears and the access point begins to inflate the image. When you see these lines on the CLI, press **Esc**:

```
Loading "flash:/c350-k9w7-mx.v122_13_ja.20031010/c350-k9w7-mx.v122_13_ja.20031010"
...#####
#####
#####
#####
#####
```

- Step 4** At the `ap:` prompt, enter the `flash_init` command to initialize the Flash.

```
ap: flash_init
Initializing Flash...
flashfs[0]: 142 files, 6 directories
flashfs[0]: 0 orphaned files, 0 orphaned directories
flashfs[0]: Total bytes: 7612416
flashfs[0]: Bytes used: 3407360
flashfs[0]: Bytes available: 4205056
flashfs[0]: flashfs fsck took 0 seconds.
...done initializing Flash.
```

- Step 5** Use the `dir flash:` command to display the contents of Flash and find the `config.txt` configuration file.

```
ap: dir flash:
Directory of flash:/
 3 .rwx 223 <date> env_vars
 4 .rwx 2190 <date> config.txt
 5 .rwx 27 <date> private.config
150 drwx 320 <date> c350.k9w7.mx.122.13.JA
4207616 bytes available (3404800 bytes used)
```

- Step 6** Use the `rename` command to change the name of the `config.txt` file to `config.old`.

```
ap: rename flash:config.txt flash:config.old
```

- Step 7** Use the `reset` command to reboot the access point.

```
ap: reset
Are you sure you want to reset the system (y/n)?y
System resetting..Xmodem file system is available.
flashfs[0]: 142 files, 6 directories
flashfs[0]: 0 orphaned files, 0 orphaned directories
flashfs[0]: Total bytes: 7612416
flashfs[0]: Bytes used: 3407360
flashfs[0]: Bytes available: 4205056
flashfs[0]: flashfs fsck took 0 seconds.
Reading cookie from flash parameter block...done.
```

```
Base ethernet MAC Address: 00:40:96:41:e4:df
Loading "flash:/c350.k9w7.mx.122.13.JA/c350.k9w7.mx.122.13.JA".....##### . . .
```

**Note**

The access point is configured with factory default values, including the IP address (set to receive an IP address using DHCP) and the default username and password (**Cisco**).

Step 8

When IOS software is loaded, you can use the **del** privileged EXEC command to delete the config.old file from Flash.

```
ap# del flash:config.old
Delete filename [config.old]
Delete flash:config.old [confirm]
ap#
```

Reloading the Access Point Image

If your access point has a firmware failure, you must reload the complete access point image file using the Web browser interface or on 1100 and 1200 series access points, by pressing and holding the MODE button for around 30 seconds. You can use the browser interface if the access point firmware is still fully operational and you want to upgrade the firmware image. However, you can use the MODE button when the access point has a corrupt firmware image. On 350 series access points, you cannot use the MODE button to reload the image file, but you can use the CLI through a Telnet or console port connection.

Using the MODE button

You can use the MODE button on 1100 and 1200 series access points to reload the access point image file from an active Trivial File Transfer Protocol (TFTP) server on your network or on a PC connected to the access point Ethernet port.

**Note**

You cannot use the mode button to reload the image file on 350 series access points. To reload the image file on 350 series access points, follow the instructions in the [“Using the CLI” section on page 22-10](#).

**Note**

If your access point experiences a firmware failure or a corrupt firmware image, indicated by three red LED indicators, you must reload the image from a connected TFTP server.

**Note**

This process resets *all* configuration settings to factory defaults, including passwords, WEP keys, the access point IP address, and SSIDs.