# Resources: 1200 AP g Radio Upgrade Instructions

## Who Should Read This Document

This document is intended for customers who are upgrading a Cisco Aironet 1200 Series Access Point to the 802.11g radio module. This document is intended to supplement the Cisco Aironet 802.11g Radio Upgrade Instructions that came in the box with the radio module.

These instructions are intended to address the Note on Page 1 of the upgrade instructions:

**Note** Before installing your 802.11g radio, make sure that you upgrade to Cisco IOS Release 12.2(13)JA or later. If you do not upgrade, the access point will continually reboot.

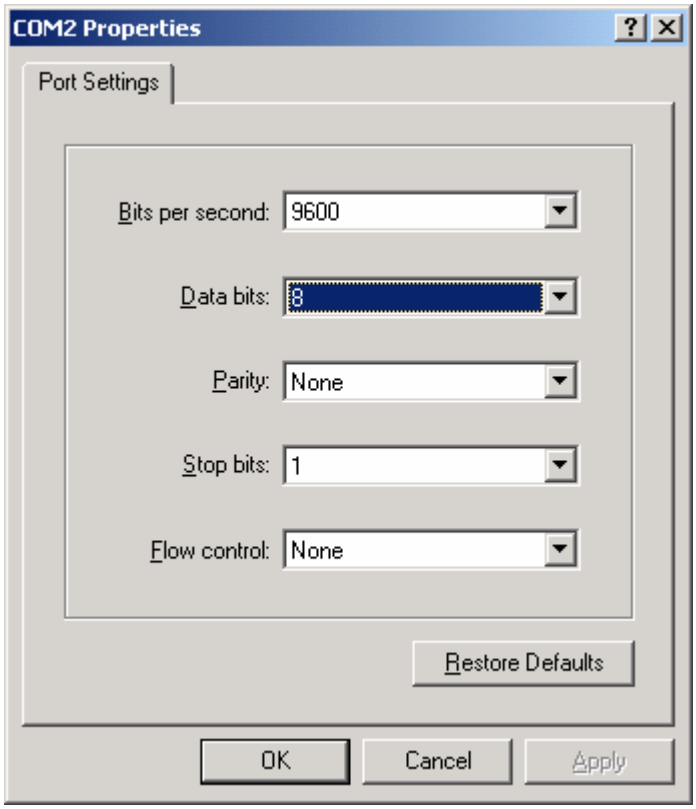
If you have already installed the 802.11g radio upgrade module and cannot access the CLI due to continual rebooting, the easiest solution is to temporarily remove the 802.11g radio module. With the radio module removed, complete the upgrade steps and then reinstall the module. Remember to disconnect the power supply before opening the back cover.

## Step 1 Check IOS version

To view the current version of IOS software on the access point, complete the following steps:

1) Connect a PC to the access point via the console connection.

2) Connect to the access point with a terminal emulation program such as HyperTerminal:



3) Reset the access point to factory defaults by holding in the Mode button while applying the power cable. Release the Mode button when the center LED turns amber.

4) When the access points completes the boot process type the following commands to view the current IOS version:

```
ap>enable

Password: Cisco

ap#show version

Cisco Internetwork Operating System Software

IOS (tm) C1200 Software (C1200-K9W7-M), Version 12.2(11)JA, EARLY
DEPLOYMENT RELEASE SOFTWARE (fc2)

<output omitted>
```

5) If the IOS version is 12.2(13)JA or higher, complete the radio installation without upgrading the IOS. If the IOS version is not 12.2(13)JA or higher, continue with the next step.

## Step 2 Download a compatible IOS file

To upgrade the IOS image in the access point to an image compatible with the 802.11g radio, you should login to CCO and download a compatible file to your local computer.

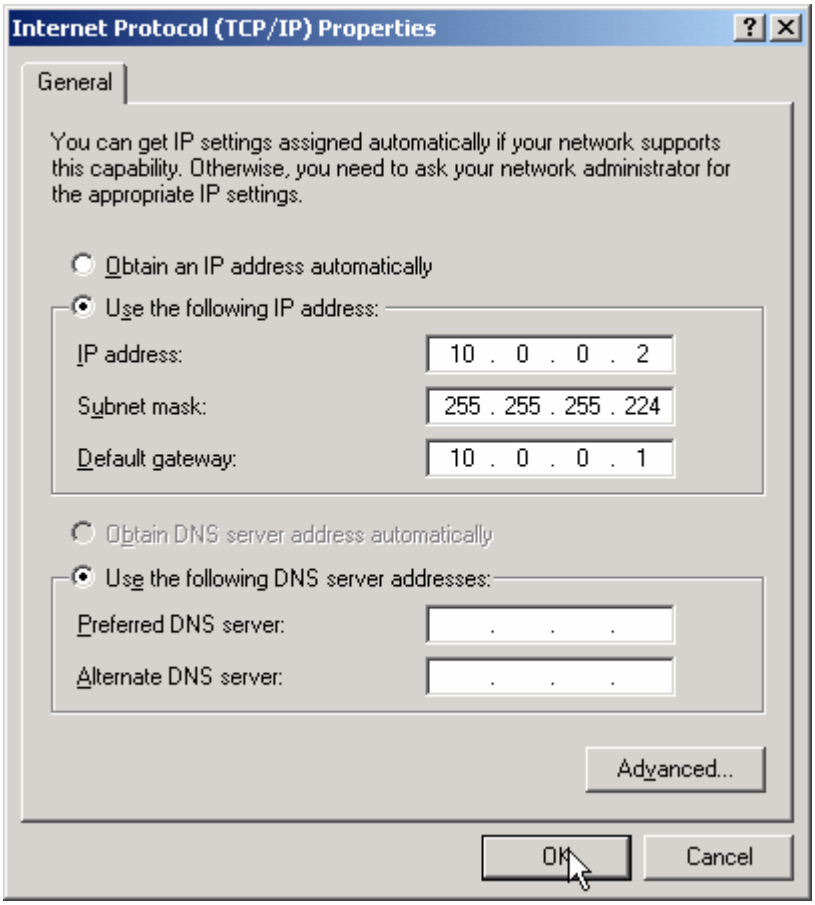
## Step 3 Configure PC

The local PC can be used as a TFTP server to send the new IOS file to the access point. This PC should be configured with TFTP software and a static IP address. Complete each of these steps to configure the PC to perform TFTP services for the access point.

1) Install TFTP server software on the PC if necessary.

2) Configure the PC with a static IP address:

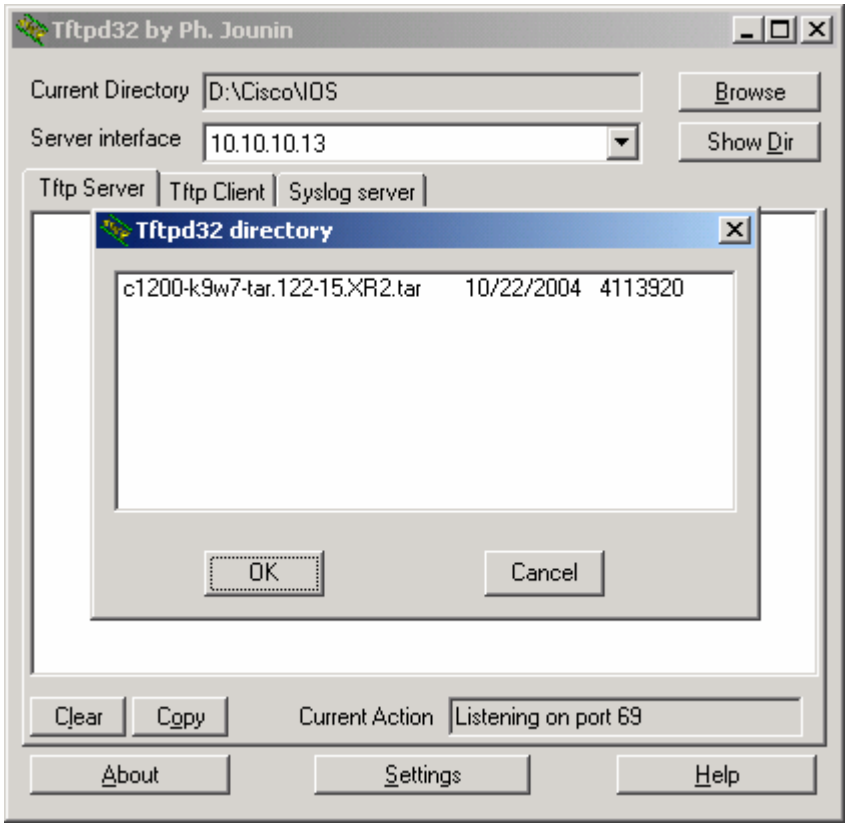
 




| | |
|---|---|
| **Note** | Make sure to disable any other Ethernet interfaces on the PC. (i.e. Disable the wireless adapter if present.) |

3) Copy the IOS image file to the correct directory on the PC. This will vary by TFTP vendor.
4) Launch the TFTP server software. Make sure that the IOS file is in the correct directory.




| **Note** | This screenshot shows the TFTPD32 server. This server is a free, non-commercial product and can be downloaded from http://tftpd32.jounin.net. |
|---|---|

5) Connect the PC to the access point Ethernet port using a crossover cable.

6) Check connectivity from the PC to the access point. If either ping is unsuccessful, troubleshoot as necessary before continuing.

   a) From PC command prompt ping the access point BVI address.

```
C:\ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time<10ms TTL=225
Reply from 10.0.0.1: bytes=32 time<10ms TTL=225
Reply from 10.0.0.1: bytes=32 time<10ms TTL=225
```

   b) From access point CLI ping PC:

```
ap#ping 10.0.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.0.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/2 ms
ap#
```

### Step 4 Download IOS to access point

When completing the IOS upgrade, it is important to ensure that both the TFTP server and the access point will have undisturbed power and connectivity. Make sure that the power cables and Ethernet crossover are not in an area where they might be inadvertently disconnected.

1) From the access point CLI enter the following commands from enabled mode. Remember to replace the *image-name* parameter with the name of the image you downloaded from CCO.

```
ap# archive download-sw /overwrite tftp://10.0.0.1/image-name
examining image…
Loading c1200-k9w7-tar.122-15.XR2.tar from 10.0.0.2 (via BVI1):!
Extracting info (232 bytes) !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
       <output omitted>
```

| **Note** | Do not interrupt the download process once it begins. |
|---|---|

2) When the last part of the image is downloaded, the access point will delete the previous IOS and configure the system to use the new image.

```
Deleting current version...
Deleting flash:/c1200-k9w7-mx.122-11.JA...done.
New software image installed in flash:/c1200-k9w7-mx.122-15.XR2
Configuring system to use new image...done.
ap#
```

3) View the contents of flash to verify that the new IOS image was saved.

```
ap#sh flash
Directory of flash:/
    6  drwx 384   Mar 01 1993 01:43:47  c1200-k9w7-mx.122-15.XR2
    4  -rwx   5   Mar 01 1993 00:15:38  private-config
  118  -rwx 680   Mar 01 1993 01:43:53  env_vars
7741440 bytes total (3687936 bytes free)
```

4) Reload the system from the CLI:

```
ap#reload
System configuration has been modified. Save? [yes/no]: yes
Proceed with reload? [confirm]
Radio system is preparing for reload...
Radio system is ready for reload.
*Mar  1 01:55:59.196: %SYS-5-RELOAD: Reload requested by console.
```

### Step 5 Install the 802.11g radio

With the upgrade complete, you can safely follow the installation instructions in the Quick Start Guide included with your radio module.