Cisco Configuration Professional Express 3.5 Administration Guide

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C O N T E N T S

Preface

This guide describes how to install, configure, and use the Cisco Configuration Professional Express (Cisco CP Express).

Audience

This guide is for network administrators who use the Cisco CP Express Admin View.

Purpose

The purpose of this guide is to help administrators get started with the Cisco CP Express. It consists of these chapters:

Conventions

This document uses these conventions:

Convention	Indication
bold font	Commands, keywords, and user-entered text appear in **bold** font.
italic font	Document titles, new or emphasized terms, and arguments for which you supply values are in *italic* font.
[ ]	Elements in square brackets are optional.
{ x	y	z }	Required alternative keywords are grouped in braces and separated by vertical bars.
[x	y	z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.

string	A nonquoted set of characters. Do not use quotation marks around the string, or the string will include the quotation marks.
courier font	Terminal sessions and information the system displays appear in courier font.
< >	Nonprinting characters such as passwords are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

Note Means *reader take note*.

Tip Means *the following information will help you solve a problem*.

Caution Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.

Timesaver Means *the described action saves time*. You can save time by performing the action described in the paragraph.

Warning **Means *reader be warned*. In this situation, you might perform an action that could result in bodily injury.**

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

CHAPTER 1

Introduction

Overview

The Cisco Configuration Professional Express (Cisco CP Express) is an embedded, device-management tool that provides the ability to configure bootstrap configuration and provision an Integrated Services Router (ISR).

Administrators use the Cisco CP Express Admin View for router administrative tasks such as setting up WAN uplinks, creating Virtual Local Area Networks (VLAN), IP routes, users, Dynamic Host Configuration Protocol (DHCP), and so on.

Cisco CP Express provides you two options to bring up a brand new router. You can use the Quick Setup Wizard to perform the basic configuration tasks and Advanced Setup option for detailed configuration options. For a brand new router Quick setup wizard is the preferred option.

Prerequisites

Software Requirements

For Cisco CP Express to be fully functional, you will need Cisco IOS Software Release 15.2.4M2 in M trains and 15.3.1T in T trains or later for all SKUs. To get all security features support, use the release 15.5(1)T. For CCP Express 3.1, it is highly recommended to use release 15.5(1)T.

Memory Requirements

Cisco CP Express Admin View

To install the Cisco CP Express Admin View, you must have at least 4 MB of free space on the flash memory of the router. This space is required to hold the compressed *ccpexpressAdmin_3_3-en.tar* file, in addition to the host folder and extracted files.

Table 1 lists the Cisco CP Express Admin View files, and the minimum memory required to support them.

Table 1   ***Cisco CP Express Admin View File List***

File/Folder Name	Size	Description
ccpexpressAdmin_3_3_en.tar	Approximately 1.8 MB on the router flash	Cisco CP Express Admin View application file
ccpExpress_ap_express-security_en.shtml.gz	Approximately 100 KB on the flash of the Wireless Access Point (WAP)	Cisco CP Express Admin View support file

Table 2 lists the routers that Cisco CP Express supports.

Table 2   ***Supported Routers***

Supported Routers
Cisco 812 Series
C812G+7-K9
C812G-CIFI+7-E-K9
C812G-CIFI+7-N-K9
C812G-CIFI-V-A-K9
C812G-CIFI-S-A-K9
Cisco 815 Series
CISCO815
CISCO815-VPN-K9
Cisco 819 Series
C819HGW+7-E-K9
C819HGW+7-N-K9
C819HGW+7-A-A-K9
C819HGW-V-A-K9
C819HGW-S-A-K9
C819H-K9
C819HWD-E-K9
C819HWD-A-K9
C819HG-4G-V-K9
C819HG-4G-A-K9
C819HG-4G-G-K9
C819G-4G-V-K9
C819G-4G-A-K9
C819G-4G-G-K9
C819HG-U-K9

Supported Routers
Cisco 851 Series
CISCO851-K9
CISCO851W-G-A-K9
CISCO851W-G-E-K9
CISCO851W-G-J-K9
Cisco 857 Series
CISCO857-K9
CISCO857W-G-A-K9
CISCO857W-G-E-K9
Cisco 861 Series
CISCO861-K9
CISCO861W-GN-A-K9
CISCO861W-GN-E-K9
CISCO861W-GN-P-K9
Cisco 866 Series
CISCO866VAE-W-E-K9
Cisco 867 Series
CISCO867VAE-K9
CISCO867-K9
CISCO867VA-K9
CISCO867W-GN-A-K9
CISCO867W-GN-E-K9
CISCO867VAE-W-A-K9
CISCO867VAE-W-E-K9
CISCO867VAE-POE-W-A-K9
Cisco 871 Series
CISCO871-K9
CISCO871W-G-A-K9
CISCO871W-G-E-K9
CISCO871W-G-J-K9
Cisco 876 Series
CISCO876-K9
CISCO876W-G-E-K9
Cisco 877 Series

Supported Routers
CISCO877-K9
CISCO877-M-K9
CISCO877W-G-A-K9
CISCO877W-G-E-K9
CISCO877W-G-E-M-K9
Cisco 878 Series
CISCO878-K9
CISCO878W-G-A-K9
CISCO878W-G-E-K9
Cisco 881 Series

Supported Routers
CISCO881-K9
CISCO881-PCI-K9
CISCO881-SEC-K9
C881W-A-K9
C881W-P-K9
C881-V-K9
C881GW+7-A-K9
C881GW+7-E-K9
C881GW-S-A-K9
C881GW-V-A-K9
C881WD-A-K9
C881WD-E-K9
CISCO881W-GN-A-K9
CISCO881W-GN-E-K9
CISCO881W-GN-P-K9
CISCO881W-A-K9
CISCO881W-E-K9
CISCO881G-K9
CISCO881GW-GN-A-K9
CISCO881GW-GN-E-K9
CISCO881G-S-K9
CISCO881G-V-K9
CISCO881G-A-K9
C881G-U-K9
C881G-S-K9
C881G-V-K9
C881G-B-K9
C881G+7-K9
C881G+7-A-K9
C881SRST-K9
C881SRSTW-GN-A-K9
C881SRSTW-GN-E-K9
Cisco 886 Series

Supported Routers
CISCO886-K9
CISCO886G-K9
CISCO886VA-K9
C886VA-W-E-K9
C886VAG+7-K9
CISCO886GW-GN-E-K9
Cisco 887 Series
C887VA-V-K9
C887VA-W-A-K9
C887VAG-S-K9
C887VAGW+7-A-K9
C887VAGW+7-E-K9
C887VA-WD-A-K9
C887VA-WD-E-K9
CISCO887-K9
CISCO887VA-K9
CISCO887VA-M-K9
C887VA-W-A-K9
C887VA-W-E-K9
C887VAM-W-E-K9
C887VAG-S-K9
C887VAG+7-K9
C887VAMG+7-K9
CISCO887W-GN-A-K9
CISCO887W-GN-E-K9
CISCO887M-K9
CISCO887MW-GN-E-K9
CISCO887G-K9
CISCO887GW-GN-A-K9
CISCO887GW-GN-E-K9
CISCO887V-K9
CISCO887VW-GNA-K9
CISCO887VW-GNE-K9
CISCO887VG-K9
CISCO887VGW-GNA-K9
CISCO887VGW-GNE-K9

Supported Routers
Cisco 888 Series
CISCO888-K9
CISCO888-SEC-K9
CISCO888W-GN-E-K9
CISCO888E-K9
CISCO888EW-GNE-K9
C888EA-K9
C888SRST-K9
C888ESRST-K9
C888ESRSTW-GNA-K9
C888ESRSTW-GNE-K9
CISCO888-K9
CISCO888W-GN-A-K9
CISCO888W-GN-E-K9
CISCO888E-K9
CISCO888EW-GN-A-K9
CISCO888EW-GN-E-K9
CISCO888G-K9
CISCO888GW-G-NA-K9
CISCO888GW-G-NE-K9
C888EG+7-K9
C888SRST-K9
C888SRSTW-GN-A-K9
C888SRSTW-GN-E-K9
Cisco 891 Series
CISCO891W-AGN-A-K9
CISCO891W-AGN-C-K9
CISCO891W-AGN-N-K9
CISCO891-K9
C891F-K9
C891FJ-K9
Cisco 892 Series

Supported Routers
CISCO892J-K9
CISCO892FW-A-K9
CISCO892W-AGN-P-K9
C892FSP-K9
CISCO892-K9
CISCO892F-K9
CISCO892W-AGN-E-K9
Cisco 896
C896VA-K9
Cisco 897
C897VA-K9
C897VAW-A-K9
C897VAW-E-K9
C897VA-M-K9
C897VAM-W-E-K9
Cisco 898
C898EA-K9
Cisco 1801
CISCO1801
CISCO1801/K9
CISCO1801-M
CISCO1801-M/K9
CISCO1801W-AG-B/K9
CISCO1801W-AG-C/K9
CISCO1801W-AG-N/K9
CISCO1801WM-AGB/K9
Cisco 1802
CISCO1802
CISCO1802/K9
Cisco 1803
CISCO1803/K9
CISCO1803W-AG-B/K9
CISCO1803W-AG-E/K9
Cisco 1805
CISCO1805-D
CISCO1805-D/K9
CISCO1805-EJ

Supported Routers
Cisco 1811
CISCO1811/K9
CISCO1811W-AG-B/K9
CISCO1811W-AG-C/K9
CISCO1811W-AG-N/K9
Cisco 1812
CISCO1812/K9
CISCO1812-J/K9
CISCO1812 W-AG-C/K9
CISCO1812W-AG-P/K9
Cisco 1841
CISCO1841
Cisco 1861
CISCO1861-SRST-B/K9
CISCO1861-SRST-C-B/K9
CISCO1861-SRST-C-F/K9
CISCO1861-SRST-F/K9
CISCO1861-UC-2BRI-K9
CISCO1861-UC-4FXO-K9
CISCO1861E-SRST-B/K9
CISCO1861E-SRST-C-B/K9
CISCO1861E-SRST-C-F/K9
CISCO1861E-SRST-F/K9
CISCO1861E-UC-2BRI-K9
CISCO1861E-UC-4FXO-K9
CISCO1861W-SRST-C-B/K9
CISCO1861W-SRST-C-F/K9
CISCO1861W-SRST-B/K9
CISCO1861W-SRST-F/K9
CISCO1861W-UC-2BRI-K9
CISCO1861W-UC-4FXO-K9
Cisco 1902
CISCO1902/K9
Cisco 1905
Cisco1905/K9
Cisco 1921

Supported Routers
Cisco1921/K9
Cisco 1921DC/K9
Cisco 1941
Cisco 1941/K9
Cisco1941W-A/K9
Cisco1941W-E/K9
Cisco1941W-P/K9
Cisco1941W-N/K9
Cisco1941W-C/K9
Cisco 2800 Series
CISCO2801
CISCO2811
CISCO2821
CISCO2851
Cisco 2900 Series
CISCO2901/K9
CISCO2911/K9
CISCO2921/K9
CISCO2951/K9
Cisco 3800 Series
CISCO3825
CISCO3825-NOVPN
CISCO3845
CISCO3845-NOVPN
Cisco 3900 Series
CISCO3925/K9
CISCO3925E/K9
CISCO3945/K9
CISCO3945E/K9

Supported HWIC Cards

Table 3 lists the HWIC cards that Cisco CP Express supports.

Table 3   Supported HWIC Cards

HWIC Cards
EHWIC-VA-DSL-A
HWIC-4SHDSL
EHWIC-VA-DSL-M
HWIC-2SHDSL
HWIC-3G-GSM
HWIC-3G-CDMA-V
HWIC-3G-CDMA- Global
HWIC-3G-CDMA-S
EHWIC-3G-EVDO-V
EHWIC-3G-EVDO-B
EHWIC-3G-HSPA+7
EHWIC-4G-LTE-V

Supported Browsers

Cisco CP Express is supported on these browsers:

- Mozilla Firefox 25, or later
- Google Chrome 30, or later
- Internet Explorer 10, 11

CHAPTER **2**

Installing and Setting Up
Cisco CP Express Admin View

This chapter contains these sections:

Downloading Cisco CP Express Admin View

To download Cisco CP Express Admin View, perform these steps:

Step 1 Launch the browser, and go to the following web link:

https://software.cisco.com/download/release.html?i=!y&mdfid=281795035&softwareid=282159854&release=3.5&os

Step 2 When a login page appears, enter your login credentials and click **Log In**.
If you do not have login credentials, register and obtain login credentials. Click **Register** (at the top of the page) to complete the registration process, and then return to this page. The Download Software page displays.

Step 3 From the Download Software page, choose the release to download.

Step 4 Select the **Cisco Configuration Professional Express 3.4** package link and click **Download** to download the compressed file, *cisco-config-pro-exp-admin-k9-3_4-en.zip* to the system.

This compressed file contains the Cisco CP Express Admin View installation files.

Installing Cisco CP Express Admin View

To install the Cisco CP Express Admin View on the router's flash memory, perform these steps:

Step 1 Download the compressed file, *cisco-config-pro-exp-admin-k9-3_4-en.zip* from the following web link:

https://software.cisco.com/download/release.html?i=!y&mdfid=281795035&softwareid=282159854&release=3.5&os

Note   For Japanese version, download *cisco-config-pro-exp-admin-k9-3_5-ja.zip* then follow the remaining instructions.

Step 2   Extract the compressed file, *cisco-config-pro-exp-admin-k9-3_5-en.zip* file into the system. The *cisco-config-pro-exp-admin-k9-3_5-en.zip* file contains these files: *ccpexpressAdmin3_5_en.tar and ccpExpress_ap_express-security_en.shtml.gz.*

Step 3   Using an FTP or TFTP server, copy the extracted files onto the router's flash memory.

```
router> enable
Password: password
router# copy tftp: flash
```

Step 4   Specify the IP address of the FTP or TFTP server, as shown in this example:

```
Address or name of remote host []? <xxx.xxx.xxx.xxx>
```
where *xxx.xxx.xxx.xxx* is the IP address of the FTP or TFTP server.

Step 5   Specify the name of the source file that is to be copied onto the router's flash memory, as shown in this example:

```
Source filename []? ccpexpressAdmin_3_5_en.tar
```

Step 6   Specify the name of the destination file, as shown in this example:

```
Destination file name []? ccpexpressAdmin_3_5_en.tar
```

Step 7   Extract the *ccpexpressAdmin31.tar* file onto the router's flash memory, as shown in this example:

```
router# archive tar /xtract flash:ccpexpressAdmin_3_5_en.tar flash:/
```

Step 8   If the router supports a wireless configuration, configure it, thus:

a.   Telnet to the WAP of the router, as shown in this example:

```
ap#> enable
Password: password
```

b.   Verify that the *ccpExpress_ap_express-security_en.shtml.gz* file already exists on the "*ap-801-*" or "*ap802-*" folder of the wireless flash memory, as shown in this example:

```
ap# cd ap802-xxxxx-xx.xxx-xxx.xxx/html/level/15/
ap# dir
```

Note   By default, the *ccpExpress_ap_express-security_en.shtml.gz* file is available on some versions of the IOS AP.

c.   If the *ccpExpress_ap_express-security_en.shtml.gz* file is not available on the wireless flash memory, proceed to step d. Otherwise proceed to step 9.

d.   Copy the *ccpExpress_ap_express-security_en.shtml.gz* file to the wireless flash, as shown in this example:

```
ap# copy tftp: flash
```

Note   Ensure that you copy the *ccpExpress_ap_express-security_en.shtml.gz* file to that folder with a name beginning with the prefix "*ap-801-*" or "*ap802-*", and ensure that this folder contains the *html/level/15/* sub-directories under it.

e.   Specify the IP address of the FTP or TFTP server, as shown in this example:

```
Address or name of remote host []? <xxx.xxx.xxx.xxx>
```
where *xxx.xxx.xxx.xxx* is the IP address of the FTP or TFTP server.

f.   Specify the name of the source file that is to be copied onto the router's flash memory, as shown in this example:

```
Source filename []? ccpExpress_ap_express-security_en.shtml.gz
```

g.   Specify the name of the destination file, as shown in this example:

```
Destination file name []? ccpExpress_ap_express-security_en.shtml.gz
```

Step 9   After the installation is complete, delete the *ccpexpressAdmin_3_4_en.tar* file from the flash memory of the router, as shown in this example:

```
router# delete flash:ccpexpressAdmin_3_5_en.tar
```

Step 10   Press **Return** to confirm the deletion.

Using Cisco CP Express Admin View

This section contains the following:

- Prerequisites, page 2-3
- Enabling HTTP Server or Secure Server, page 2-3
- Launching Cisco CP Express Admin View, page 2-4

Prerequisites

Before you launch the Cisco CP Express Admin View, gather the following information from your service provider:

- Virtual Channel Identifier (VCI) and Virtual Path Identifier (VPI) values if you use Asymmetric Digital Subscriber Line (ADSL) as a Wide Area Network (WAN)
- Username and password to access the Password Authentication Protocol (PAP) or Challenge Handshake Authentication Protocol (CHAP) if you use ADSL as a WAN
- (Optional) Primary and secondary DNS IP addresses
- IP subnet
- DHCP pool network

Enabling HTTP Server or Secure Server

Cisco CP Express can be accessed in one of these two modes:

- Secure mode—Uses HTTPS and requires HTTP Secure Server to be enabled on the router.
- Non-Secure mode—Uses HTTP and requires HTTP Server to be enabled on the router.

Note   By default, the HTTP and secure server are enabled for factory fresh routers.

You must enable HTTP or HTTPS before launching the Cisco CP Express.

The login to the http service must point to the local database on the router, because the Cisco CP Express End User View is configured locally on the router.

1. To configure the router as an http server, execute this command:

```
router(config)# ip http server
```

2. To configure the router as an https server, execute this command:

```
router(config)# ip http secure-server
```

Launching Cisco CP Express Admin View

Prerequisite

Before you proceed with launching the Cisco CP Express Admin View, you must complete tasks detailed in the Cisco CP Express Quick Start Guide at the following web link:

http://www.cisco.com/c/en/us/td/docs/net_mgmt/cisco_configuration_professional_express/v3_2/guides/quick_start/CiscoCPExpress_qsg.html

Procedure

To launch the Cisco CP Express Admin View, perform these steps:

Step 1   Launch the browser.

Step 2   In the address bar, type the IP address of the router where Cisco CP Express Admin View is installed.

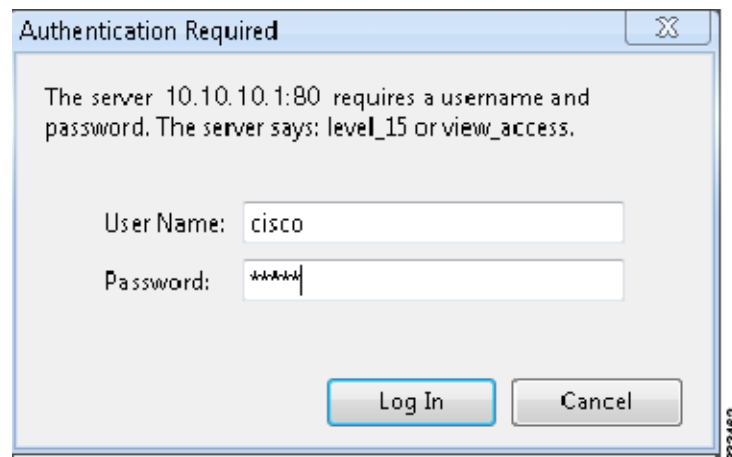For example, type *http://10.10.10.1* or *https://10.10.10.1*

Note   User can alos launch Cisco CP Express by typing myisr.com for Cico 4000 Series or myir800.com for Cisco IR routers.

**Step 3**   Specify the username and the password of the router.

Figure 1 Authentication Page

If you are using the router for the first time, use the one-time username and password (by default, *cisco/cisco*) configured for the router.

Step 4   Click **Log In**.
The Cisco CP Express Admin View launches and is ready for use.

Figure 2 shows the Cisco CP Express Admin View page.

Figure 2   The Cisco CP Express Admin View page

3
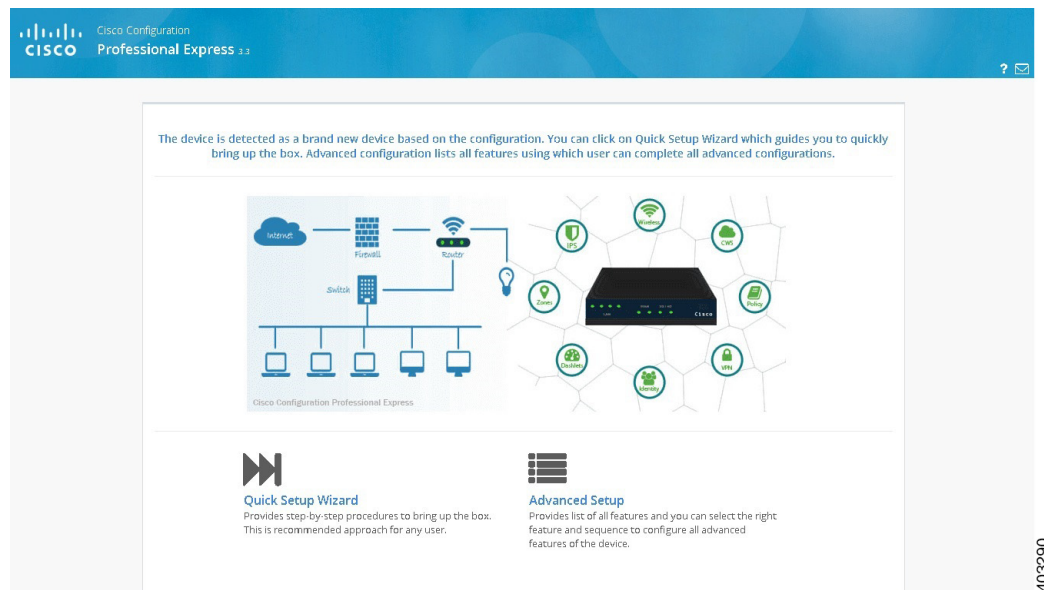
Accessing the Wireless Interface

You can access the Wireless feature of the Cisco CP Express by choosing the **Wireless** link.
The Cisco CP Express Admin View supports Wi-Fi Protected Access 2 (WPA2) encryption, which uses the ciphers aes-ccm tkip encryption mode.

Note The Wireless feature is displayed on the Cisco CP Express only if your router supports a WAP.

Based on the WAP settings, there may be variations in the way the Wireless feature functions. The variations may occur when:

1. **Accessing the Wireless feature for the first time**—When you click the **Wireless** link, it tries to automatically establish a connection to the wireless interface without prompting for a username and password, if one of these two options is true:

    • Your router is a factory fresh router.

    • Factory default username and password of the WAP have not been changed.
      The factory default username/password of your Wireless router is *cisco/cisco*.

2. **Password of WAP has changed**—You are prompted to specify the username and password of the WAP if the factory default username/password (*cisco/cisco*) have been changed.

3. **Username and password of WAP have changed**

    • If you are using the Mozilla Firefox browser, you are prompted to specify the username and password of the WAP.

    • If you are using the Google Chrome browser, you will encounter a "401 Unauthorized" error.

    Handling 401 Unauthorized error

    Choose the **Click here to open the wireless screen in a new browser tab link** to open the Wireless feature in a new browser tab.

Note The Wireless feature is not displayed on the Cisco CP Express if your router is any of the following: Cisco C866VAE-W-E-K9, C867VAE-W-A-K9, C867VAE-W-E-K9, and C867VAE-POE-W-A-K9. To view the wireless feature on CCP Express, follow the steps mentioned in the below link:
http://www.cisco.com/en/US/docs/routers/access/800/860-880-890/software/configuration/guide/config_WLAN.html#wp1251664

Uninstalling and Upgrading Cisco CP Express Admin View

This chapter contains these sections:

Uninstalling Cisco CP Express Admin View

To uninstall the Cisco CP Express Admin View from the flash memory of the router, perform these steps:

Step 1   On the router, navigate to the directory in which the Cisco CP Express Admin View files are located using this command:

```
router# cd flash:
```

Step 2   Use the delete command to remove all Cisco CP Express Admin View files and folders from the router's flash memory.

> ✎
> **Note**   Ensure that you delete the files extracted from the *ccpexpressAdmin_3_4_en.tar* file, and the *ccpExpress_ap_express-security_en.shtml.gz*.

   a.   Delete the *home.shtml* file:

```
router# delete /force /recursive home.shtml
```

   b.   Delete the *ccpexp* folder:

```
router# delete /force /recursive flash:ccpexp
```

   c.   Delete the *ccpExpress_ap_express-security_en.shtml.gz* file from the *ap802-xxxxx-xx.xxx-xxx.xxx/html/level/15/* folder of the flash memory of the WAP:

```
ap# delete
flash:/ap802-ccw7-mx.124-25d.JAX/html/level/15/ccpExpress_ap_express-security_en.shtml
.gz
```

Upgrading Cisco CP Express Admin View to a Later Version

When a new version of the Cisco CP Express Admin View is available, perform these steps to upgrade to the new version:

Step 1   Follow the steps detailed in the "Uninstalling Cisco CP Express Admin View" section on page 4-1 to uninstall an existing version of the Cisco CP Express Admin View.

Step 2   Follow the steps detailed in the "Downloading Cisco CP Express Admin View" section on page 2-1 to download the Cisco CP Express Admin View installation files.

Step 3   Follow the steps detailed in the "Installing Cisco CP Express Admin View" section on page 2-1 to install the Cisco CP Express Admin View.

Retrieving Lost or Misplaced Files

⚠

Caution   Exercise care while handling the Cisco CP Express Admin View files.

If you accidentally delete any of these files, perform these steps:

Step 1   From the router's flash memory, delete the files you extracted from the *cisco-config-pro-exp-admin-k9-3_4-en.zip* file. For more information, see the "Uninstalling Cisco CP Express Admin View" section on page 4-1.

Step 2   Follow the procedure detailed in Downloading Cisco CP Express Admin View to download the files.

Step 3   Copy the files to the router's flash memory, and follow the procedure detailed in the "Installing Cisco CP Express Admin View" section on page 2-1 to extract and install the Admin View files.