



# Cisco Configuration Professional Express Administration Guide

Version 3.5 on the IR800 Series

#### **Americas Headquarters**

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#### Cisco Configuration Professional Express Administration Guide

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# Preface

This guide describes how to install, configure, and use the Cisco Configuration Professional Express (Cisco CP Express) on the IR800 Series Routers.

## 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:

- Introduction
- Installing and Setting Up Cisco CP Express Admin View
- Uninstalling and Upgrading Cisco CP Express Admin View

### Conventions

This document uses these conventions:

Convention	Indication
bold font	Commands, keywords, and user-entered text appear in <b>bold</b> font.
italic font	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic</i> 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. Notes contain helpful suggestions or references to additional information and material.

Obtaining Documentation and Submitting a Service Request

**CAUTION**: This symbol means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

**TIP**: Means *the following information will help you solve a problem*. The tip information might not be troubleshooting or even an action, but could be useful information.

#### WARNING: IMPORTANT SAFETY INSTRUCTIONS

Means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

### 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.

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# 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 Industrial Integrated Services Router (IR).

This document explains how to use Cisco Configuration Professional Express (Cisco CP Express) Release 3.5 on the Cisco 800 Series Industrial Integrated Services Routers (IR807, IR809, and IR829).

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 15.6.(3)M2.

#### **Browser Requirements**

Cisco CP Express is supported on these browsers:

- Mozilla Firefox 25 or later
- Google Chrome 30 or later
- Microsoft Internet Explorer 11 or later
- Safari 9.1
- Microsoft Edge Version 38

### Memory Requirements

#### Cisco CP Express Admin View

To install the Cisco CP Express Admin View, you must have at least 20 MB of free space on the flash memory of the router. This space is required to hold the compressed *ccpexpressAdmin\_3\_5\_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_5_en.tar	Approximately 8 MB on the router flash	Cisco CP Express Admin View application file

### Supported Routers

Release 3.5 supports the following Cisco 800 Series Industrial Integrated Services Routers (IR829, IR809, and IR807).

IB829 SKU ID	Description
IR829GW-LTE-NA-AK9	Multimode Cisco LTE 2.0 for carriers operating in LTE 700 MHz (band 17), 1900 MHz (band 2 PCS), or 1700/2100 MHz (band 4 AWS) frequencies; backward-compatible with UMTS and HSPA+: 850 MHz (band 5), 900 MHz (band 8), 1900 MHz (band 2 PCS), and 1700/2100 MHz (band 4 AWS).
IR829GW-LTE-VZ-AK9	Multimode Cisco LTE 2.0 for carriers operating in LTE 700 MHz (band 13), 1700/2100 MHz (band 4 AWS), or 1900 MHz (band 25 extended PCS) frequencies; backward-compatible with EVDO Rev A/CDMA 1x BC0, BC1, BC10.
IR829GW-LTE-GA-EK9 IR829GW-LTE-GA-ZK9 IR829GW-LTE-GA-CK9 IR829GW-LTE-GA-SK9	Multimode Cisco LTE 2.0 for carriers operating in LTE 800 MHz (band 20), 900 MHz (band 8), 1800 MHz (band 3), 2100 MHz (band 1), or 2600 MHz (band 7) frequencies; backward-compatible with UMTS and HSPA+: 850 MHz (band 5), 900 MHz (band 8),1900 MHz (band 2), and 2100 MHz (band 1).
IR829-2LTE-EA-AK9	Dual Modem LTE for Canada
IR829-2LTE-EA-BK9	Dual Modem LTE for USA
IR829-2LTE-EA-EK9	Dual Modem LTE for Europe
IR829GW-LTE-LA-QK9	Single Modem LTE for Japan
IR829GW-LTE-LA-DK9	Single Modem LTE for India
IR829GW-LTE-LA-ZK9	Single Modem LTE for Australia/New Zealand
IR829GW-LTE-LA-KK9	Single Modem LTE for Korea
IR829GW-LTE-LA-SK9	Single Modem LTE for Hong Kong
IR829GW-LTE-LA-NK9	Single Modem LTE for Panama

IR809 SKU ID	Description
IR809G-LTE-NA-K9	Multimode 4G/3G/2G connectivity to cellular networks operating in LTE 1900 MHz (band 2 PCS), 1700/2100 MHz (band 4 AWS), 850 MHz (band 5), 700 MHz (band 17) and 1900 MHz (band 25 extended PCS) frequencies; backward-compatible with UMTS and HSPA+: 850 MHz (band 5), 900 MHz (band 8), 1900 MHz (band 2 PCS), and 1700/2100 MHz (band 4 AWS).
IR809G-LTE-VZ-K9	Multimode 4G/3G/2G connectivity to cellular networks operating in LTE 700 MHz (band 13), 1700/2100 MHz (band 4 AWS), or 1900 MHz (band 25 extended PCS) frequencies; backward-compatible with EVDO Rev A/CDMA 1x BC0, BC1, BC10.

#### Prerequisites

IR809 SKU ID	Description
IR809G-LTE-GA-K9	Multimode 4G/3G/2G connectivity to cellular networks operating in LTE 800 MHz (band 20), 900 MHz (band 8), 1800 MHz (band 3), 2100 MHz (band 1), or 2600 MHz (band 7) frequencies; backward-compatible with UMTS and HSPA+: 850 MHz (band 5), 900 MHz (band 8),1900 MHz (band 2), and 2100 MHz (band 1).
IR809G-LTE-LA-K9	Multimode 4G/3G connectivity to cellular networks operating in FDD LTE 2100 MHz (band 1), 1800 MHz (band 3), 850 MHz (band 5), 2600 (band 7), 900 (band 8), 850 (band18, band19), 1500 (band 21), 700 (band 28) and TDD LTE 2600 (band 38), 1900 (band 39), 2300 (band 40) and 2500 (band 41); backward-compatible with WCDMA 2100 MHz (band 1), 850 MHz (band 5), 800 MHz (band 6, band 19), 900 MHz (band 8), 1700 MHz (band 9) and TD-SCDMA 1900 MHz (band 39).

IR807 SKU ID	Description
IR807G-LTE-NA-K9	Multimode 4G, 3G, and 2G connectivity to cellular networks operating in LTE 1900 MHz (band 2 PCS), 1700/2100 MHz (band 4 AWS), 850 MHz (band 5), 700 MHz (band 12), 700 MHz (band 17), 1900 MHz (band 25 extended PCS), and 850 MHz (band 26 extended CLR) frequencies; backward-compatible with UMTS and HSPA+ 850 MHz (band 5), 1900 MHz (band 2 PCS), and 1700/2100 MHz (band 4 AWS) and CDMA BC0, BC1, and BC10.
IR807G-LTE-VZ-K9	4G connectivity to cellular networks operating in LTE 700 MHz (band 13) and 1700/2100 MHz (band 4 AWS).
IR807G-LTE-GA-K9	Multimode 4G, 3G, and 2G connectivity to cellular networks operating in LTE 800 MHz (band 20), 900 MHz (band 8), 1800 MHz (band 3), 2100 MHz (band 1), and 2600 MHz (band 7) frequencies; backward-compatible with UMTS and HSPA+ 900 MHz (band 8) and 2100 MHz (band 1) and EDGE/GSM/GPRS 900 MHz and 1900 MHz.

### **Related Documentation**

You can find all of the IR800 series documentation here:

http://www.cisco.com/c/en/us/support/routers/800-series-industrial-routers/tsd-products-support-series-home.html

Cisco Configuration Professional Express Quick Start Guide:

http://www.cisco.com/c/en/us/td/docs/routers/access/800/829/software/cisco\_configuration\_professional\_express/v3\_5/guides/quickstart/CiscoCPExpress\_qsg.html

Release Notes for Cisco Configuration Professional Express 3.5

https://www.cisco.com/c/en/us/td/docs/routers/access/800/829/software/cisco\_configuration\_professional\_express /v3\_5/guides/release-notes/ccp-express-rn-3-5.html

Cisco Configuration Professional Express 3.5 Feature Guide

https://www.cisco.com/c/en/us/td/docs/net\_mgmt/cisco\_configuration\_professional\_express/v3\_5/guides/featuregui de/ccp\_express\_Feature\_Guide\_3\_5.html

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Introduction
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Prerequisites

## ·I|III|II CISCO

# Installing and Setting Up Cisco CP Express Admin View

This chapter contains these sections:

- Downloading Cisco CP Express Admin View, page 5
- Installing Cisco CP Express Admin View, page 5
- Using Cisco CP Express Admin View, page 6

### Downloading Cisco CP Express Admin View

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

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

- 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.
- 3. From the Download Software page, choose the release to download.
- Select the Cisco Configuration Professional Express 3.5 package link and click Download to download the compressed file, cisco-config-pro-exp-admin-k9-3\_5-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:

1. Download the compressed file, cisco-config-pro-exp-admin-k9-3\_5-en.zip from the following web link:

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

- **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*.
- 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
```

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.

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

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

Destination file name []? ccpexpressAdmin\_3\_5\_en.tar

7. Extract the *ccpexpressAdmin35.tar* file onto the router's flash memory, as shown in this example:

router# archive tar /xtract flash:ccpexpressAdmin\_3\_5\_en.tar flash:/

8. After the installation is complete, delete the *ccpexpressAdmin\_3\_5\_en.tar* file from the flash memory of the router, as shown in this example:

router# delete flash:ccpexpressAdmin\_3\_5\_en.tar

9. Press Return to confirm the deletion.

### Using Cisco CP Express Admin View

This section contains the following:

- Prerequisites, page 6
- Enabling HTTP Server or Secure Server, page 6
- Launching Cisco CP Express Admin View, page 7

#### 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 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/routers/access/800/829/software/cisco\_configuration\_professional\_express/v3\_5/guides/quickstart/CiscoCPExpress\_qsg.html

**CAUTION:** This product is shipped with a default configuration which is unique to each device. The default configuration allows the user to access the CCP Express Quick Setup Wizard to perform basic configuration. Erasing or any other manual configuration changes prior to using CCP Express is strongly discouraged as the default configuration is mandatory for CCP Express to operate. For any guidance on these scenarios, users are requested to reach out to their platform support team.

#### Procedure

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

- 1. Launch the browser.
- 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 http://myir800.com https://10.10.10.1 or https://myir800.com

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

#### Figure 1 Authentication Page

Required
http://10.10.10.1 is requesting your username and password. The site says: "level_15 or view_access"
OK Cancel

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.

#### 4. Click Log In.

The Cisco CP Express launches and is ready for use. With the one-time user present, you get redirected to the Wizard page with the prompt to create a new user.

Create New User		
he username cisco is a	onetime user. Create a new	user and login with the same.
JserName:	ciscocp	
New Password:	•••••	
Confirm New Password:	•••••	
	This connection is not secure. Logins entered here could be compromised.	

**CAUTION:** This step is mandatory as it is crucial to retain access to the router. The one-time user will be automatically removed at this stage.

Enter the username/password for the new user to be created, and click **Ok**. You will be prompted a second time to enter the username/password of the new user just created.

The Quick Setup Wizard & Advanced Setup choice page appears:



The Quick Setup Wizard is highly recommended, as it helps to bring up the device with basic configuration. The Advanced Settings option takes you to the Landing page displayed later in this document. Click on the **Quick Setup Wizard** to begin a quick and easy WAN/LAN setup wizard. The **Welcome** screen appears:

Bef	ore you begin:
+	This wizard helps to bring up your WAN/LAN connectivity quickly.
+	Ensure that you have all information from your service provider for completing the configuration. Click here for checklist
•	If you are configuring non 3G/4G based WAN connection then ensure physical WAN cable connectivity with Service Provider is proper.
+	If 3G/4G is configured as WAN then ensure SIM (Subscriber Information Module) is inserted properly in the Router slot.
+	The wizard by default enables some recommended configuration. Unless you have strong reason to change that, have them as desired.
+	You can always change the configuration and add advanced feature support once the configuration is successfully completed.
<b>→</b>	Best Practice: When using CCP Express to configure a device, do not delete/modify the config directly by logging onto the device as it will ad to misconfiguration.
+	Important Note: It is strongly recommended to use Quick Setup Wizard only when device is factory fresh.

Read through the **Before you begin** notes to make sure you have all of the information you need. When you are ready to begin, click **Get Started**. The **Basic Settings** screen appears:

	Basic	Primary WAN	Backup WAN	LAN	IOX	Wi-Fi	Security & App Exp.	Confirm & Apply
Basic Settings					Help a	nd Tips 🔞		
Router Name * :	IR829							
Domain Name * :	cisco.com				<ul> <li>The sy</li> </ul>	mbol * * " indi	tates Mandatory fiel	ld.
TimeZone * :	(GMT+05:30) Chennai, Kolkata, Mumbai, New Delhi	٠						
Synchronize with f	NTP Server							
Make this router a	is NTP Master							
All the Devices (DF	(CP Client) will have time synchronized with router							
# Cancel								

Mandatory fields are marked with a red asterisk (\*). Continue through the various screens by clicking **Next** to complete your basic configuration. When you are complete, the **Summary** screen appears:

Basic / IOX / Wilf         Image: Primary WAN         Image: Basic / IOX / Wilf         Image: Primary WAN         Image: Security & App Exp.           > Router Name: IR825         > WAN Interface: Calular 0/0         > WAN Interface: Calular 0/0         > WAN Interface: Calular 0/0         > South Name: ICC pool         > Coso recommended security settings:           > Domain Name: Icco.com         > lpoid: Namesing:         > LNI Removis: 100.100.0         Enabled           > TimuZone: (GMT-053) Choma; Logic Namesic         > lpoid: Namesic         > South Namesic:         > South Namesic:         > South Namesic:         Enabled           > Dist Secore: Automatic         > Pervisione: Disabled         > MAT Enabled         > Default gateway: Viant [10.10.01]         Enabled           > Didi Secore: Automatic         > Pervisione: Disabled         > Pervisione: Disabled </th <th>Summary</th> <th></th> <th></th> <th></th> <th></th>	Summary				
Nuter Name: R825     > WAN Interface: Cellular 010     > WAN Interface: GigabitEhreme®     > Pool Name: ccp-pool     > Cocar recommended security settings:       Domain Name: ticks.com     > Ipol: Automatic     > Ipol: Automatic     > LNN Network: 101.01.00     Enabled       Timniane: (BMT-R053) Chornal:     > Ipol: Automatic     > Such Network: 101.01.00     Enabled       Timniane: (BMT-R053) Chornal:     > Ipol: Automatic     > Such Network: 101.01.00     Enabled       Domain: Chornel Network: S25:S25:S25:S2     > Such Name: Compared     > Notificial Sector     > Cocar recommended security settings:       Diminiane: (BMT-R053) Chornal:     > Pool: Automatic     > Such Name: Cope Sector     > Enabled       Diminiane: (BMT-R016)     > NATE Enabled     > Default gateway: Viant [10.10.01.01]        NTP Server: Disabled     > Profile: Enabled     > Enabled     > Enabled       Nume: Roaded      > Enabled     > Enabled	💙 Basic / IOX / Wifi	< Primary WAN	🛩 Backup WAN	✓ LAN	< Security & App Exp.
	Router Name: (R829     Comain Name: cisco.com     TimeZone: (GMT+05:38) Chennal,     Kolata, Mimbak, New Dehin     ONS Server: Automatic     NITS Server: Disabled     Not Enabled     Vitri: Enabled     Witri: Enabled	WAN Interface: Cellular 0/0     Jovid: Automatic     Jovid: Not configured     NAT: Finabled     Persistance: Disabled	WAN Interface: GigabitEthernet0     Ipu4: Automatic     Ipu6: Not configured     VANT: Enabled     POPGE: Enabled	<ul> <li>Pool Name: ccp-pool</li> <li>LAN Network: 10.10.10.0</li> <li>Subnet Mask: 255.255.255.128</li> <li>Default gateway: Vian1 [10.10.10.1]</li> </ul>	<ul> <li>Cisco recommended security settings: Enabled</li> </ul>

Review your settings and if satisfied, click **Submit**. Once the configuration is pushed, you will be automatically redirected to the Dashboard page.



You can now use Cisco CP Express to configure additional features or modify existing feature configurations. This is the same page that will be displayed to you once the basic configuration is present on the device.

## 

# Uninstalling and Upgrading Cisco CP Express Admin View

This chapter contains these sections:

- Uninstalling Cisco CP Express Admin View, page 13
- Upgrading Cisco CP Express Admin View to a Later Version, page 13
- Retrieving Lost or Misplaced Files, page 14

### Uninstalling Cisco CP Express Admin View

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

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:

 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\_5\_en.tar file.

a. Delete the home.html file:

router# delete /force /recursive home.html

**b.** Delete the *ccpexp* folder:

router# delete /force /recursive flash:ccpexp

### 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:

- 1. Follow the steps detailed in the Uninstalling Cisco CP Express Admin View, page 13 to uninstall an existing version of the Cisco CP Express Admin View.
- Follow the steps detailed in the Downloading Cisco CP Express Admin View, page 5 to download the Cisco CP Express Admin View installation files.
- Follow the steps detailed in the Installing Cisco CP Express Admin View, page 5 to install the Cisco CP Express Admin View.

**Retrieving Lost or Misplaced Files** 

### **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:

- 1. From the router's flash memory, delete the files you extracted from the *cisco-config-pro-exp-admin-k9-3\_5-en.zip* file. For more information, see the Uninstalling Cisco CP Express Admin View, page 13.
- 2. Follow the procedure detailed in Downloading Cisco CP Express Admin View, page 5 to download the files.
- **3.** Copy the files to the router's flash memory, and follow the procedure detailed in the Installing Cisco CP Express Admin View, page 5 to extract and install the Admin View files.