

Using CiscoWorks Windows Applications

CiscoWorks Windows is a suite of integrated PC-based network configuration and diagnostic tools for small to medium-sized networks or remote workgroups.

This chapter contains the following sections on CiscoWorks Windows applications and features:

- Starting Applications
- Configuration Builder
- Show Commands
- Health Monitor
- Using Online Help

The CiscoWorks Windows Show Commands and Health Monitor applications can only run under CastleRock SNMPc. Configuration Builder and CiscoView can run as standalone applications or within the SNMPc platform.

Note For detailed information on all CiscoWorks Windows applications, see the context-sensitive online help system. This comprehensive online help system provides procedures, overview material, and links to related information.

Starting Applications

To start an application in CiscoWorks Windows, go to the Toolbar and double click on the icon for the application. If the icon is grayed out, or if the icon is not displayed, the application is not supported on this device.

Configuration Builder

With Configuration Builder, you can create configuration files for multiple Cisco routers, access servers, hubs and devices without having to remember complicated command-line syntax for the devices. Using Configuration Builder, you can configure Cisco devices with the most common Cisco IOS features. See Table 3-1 through Table 3-9 for a brief overview of supported Configuration Builder features. You can launch Configuration Builder or from auxiliary and console ports.

Note Advanced features or features added in Cisco IOS releases later than those listed in the online help or “Supported Cisco Internetworking Operating System Versions and Devices” section of the Cisco Connection Documentation, are supported through the Configuration Builder Add Commands window—see the online help system for more details.

Configuration Builder provides the following features:

- Multiple device configuration windows

You can configure multiple devices simultaneously for remote source-route bridging and Synchronous Data Link Control (SDLC) Transport. For example, when you configure a new router into an existing remote source-route bridging (SRB) virtual ring group, configuration files of all devices in the same virtual ring group are automatically updated.

- Configuration snap-ins

You can quickly import predefined priority queuing lists, Internet Protocol (IP) or Internetwork Packet Exchange (IPX) access lists, IPX Service Advertisement Protocol (SAP) filters, and AppleTalk filters into multiple configuration files. This ensures consistency among devices that share common configuration parameters.

- Duplicate address and configuration checking

You can check for duplicate IP, IPX, and AppleTalk addresses in all open configuration files. You can also check for valid entries for common configuration parameters such as addresses, costs for DECnet and Open Shortest Path First (OSPF), and AppleTalk cable ranges.

- Guided configuration

You can automatically move through the sequence of dialog boxes that need to be filled out to create a configuration file. To do so, complete the initial configuration dialog box and then do *one* of the following after you complete each configuration dialog box:

- Press the **F2** key.
- Select the Guided Configuration icon from the toolbar in the main window.
- Select the **Guided Configuration** command from the Global menu.

- Learn hardware capability

You can detect the model, software version and image type, and the number and type of installed interfaces on the router you are configuring. You can also learn the number of lines on an access server, and whether or not a hub is connected to a device. This information is automatically placed in the configuration file.

- Remote configuration capability

You can configure remote devices if the PC is running a TCP/IP stack that is WINSOCK-compliant and has access via TCP/IP to the router you are configuring. The router must have the following minimum configuration:

- IP routing enabled
- An IP address assigned to an interface
- Enable and virtual terminal passwords

- Configure access servers

You can perform the following configuration tasks for Cisco hubs and access servers:

- Grouping and ungrouping lines
- Using expert mode to quickly configure related features
- Configuring chat scripts
- Using list boxes to quickly select device features and modem communication parameters
- Configuring lines for IP, IPX, or AppleTalk Remote Access (ARA) protocols to allow flexibility for remote users to log in
- Configuring terminal services
- Setting up security
- Configuring dial-on-demand routing (DDR) to include asynchronous or synchronous serial lines and assigning them to a rotary group
- Configuring protocol translation to enable connections between hosts and resources running different protocols

Note For detailed information on all Configuration Builder features, see the context-sensitive online help system. This comprehensive online help system provides procedures, overview material, and links to related information. Open Configuration Builder and select **Help**.

Configuration Builder Files

Configuration Builder generates and stores the following files in the *\data* directory:

<i>*.cdf</i>	configuration files (binary)
<i>*.cfg</i>	configuration files (text)
<i>*.cbk</i>	configuration backup files

snmphost.chl SNMP host names file

zones.apt AppleTalk zones file

Configuration Builder generates and stores the following files in the *\data\snapin* directory:

**.aal* AppleTalk access lists

**.ial* IP access lists

**.nal* IPX access lists

**.nsl* IPX SAP filter lists

**.pql* Priority queuing lists

The *\data\srb* directory contains files with the extension **.srb*. These files define remote source-route bridging (SRB) groups.

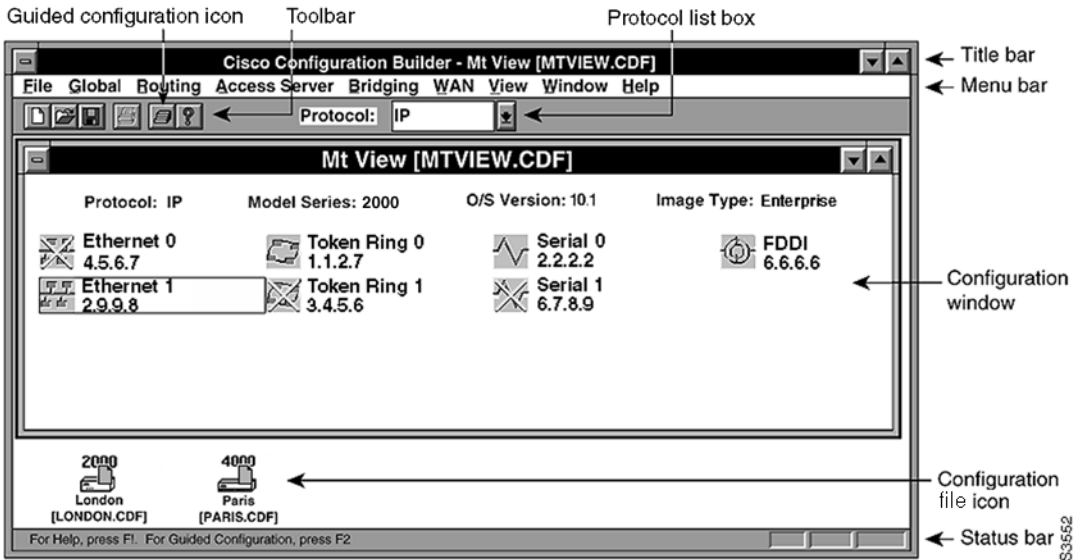
The *\data\sdlc* directory contains files with the extension **.s*. These files define SDLC tunnel groups.

Note If you create additional Configuration Builder icons through the Windows Program Manager, be sure to include the directory name in which you installed Configuration Builder and the **cisco**cb**.exe** command. The working directory must specify the *\data* subdirectory.

Configuration Builder Main Window

The Configuration Builder main window is illustrated in Figure 3-1. The number and types of network icons displayed in the main window vary according to your network configuration.

Figure 3-1 Configuration Builder Main Window



The Configuration Builder main window consists of the following elements:

- Title bar—Displays the application name and the name of the currently active router configuration. The active configuration name includes the router host name, followed by the file name in brackets. In Figure 3-1, the host name is Mt View, and the file name is MTVIEW.CDF.
- Menu bar—Provides access to all Configuration Builder dialog boxes. Table 3-1 through Table 3-9 list and explain the options under each menu.
- Toolbar—Provides the Guided Configuration icon in addition to the standard Create File, Open File, Save File, Print File, and Help icons. You can use the Guided Configuration icon or the F2 key to activate the guided configuration.
- Protocol list box—Used to select a routing protocol with configuration windows. The configuration window indicates whether interfaces are enabled for the specified routing protocol. In Figure 3-1, IP is the selected protocol. With this selected, you can double-click on any interface icon to open the IP Routing Configuration window.

- Configuration windows—Appear within the main window and indicate the router model, Cisco software version and image type, and interface status information.
- Configuration file icons—Display for any open configuration window that is iconized. In Figure 3-1, the London and Paris configurations are iconized.
- Status bar—Provides a brief description of the currently selected menu item.

Table 3-1 Configuration Builder File Menu Items

Items	Explanation
New	Create a new configuration file.
Open	Open an existing file.
Close	Close an existing file.
Save	Save changes to a file.
Save Backup	Create a backup of a configuration file.
Save As Text	Save a configuration file as a text file so it can be edited with a word processor or stored on a network server.
Delete	Delete a configuration file.
Communication Timeouts	Specify the timeouts to be used for data transfer from the Configuration Builder to the router.
Send	Send a configuration file to a local or remote router.
Print	Print a configuration file.
Print Setup	Set up printer parameters.
Exit	Exit Configuration Builder.

Table 3-2 Configuration Builder Global Menu Items

Item	Explanation
Guided Configuration	Step through the guided configuration.
Basic	Set basic system parameters, including host names, passwords, and banner.

Item	Explanation
SNMP	Specify SNMP parameters for network management data, set community strings, and restrict SNMP access to the device.
Priority Queuing	Create new priority output queuing lists or import snap-in lists.
Modify Interfaces	Add or delete device interfaces and specify device type, software version, and image type. Specify device interfaces and lines. Change the sequence of the guided configuration.
Add Commands	Configure advanced features and features added in later Cisco IOS releases.
Hub	Enable hub configuration features.

Table 3-3 Configuration Builder Routing Menu Options

Item	Explanation
IP:	
Configuration Routing Protocols	Configure primary and secondary IP addresses. Configure Routing Information Protocol (RIP), Interior Gateway Routing Protocol (IGRP), and/or OSPF.
Access Lists	Create new access lists or import snap-in lists.
AppleTalk:	
Configuration	Configure AppleTalk addresses, cable ranges, and zones.
Distribute-Out Filters	Create access lists for filtering AppleTalk packets.
IPX:	
Configuration	Configure IPX addresses.
Access Lists	Create new access lists or import snap-in lists.
SAP Filters	Create new SAP filters or import snap-in lists.

Table 3-4 Configuration Builder Access Server Menu Options

Item	Explanation
Line Characteristics:	
Chat Script Manager	Configure modem or login chat scripts.
Line Configuration	Configure line characteristics for TTY and auxiliary lines.

Item	Explanation
Remote Node:	
Extended BootP Manager	Configure an access server for BootP to allow Serial Line Internet Protocol (SLIP) and Point-to-Point Protocol (PPP) requests from clients.
ARA	Configure AppleTalk Remote Access (ARA).
Line Configuration	Configure remote nodes for TTY and auxiliary lines.
Terminal Services:	
LAT Manager	Configure Local Area Transport (LAT).
XRemote Manager	Configure XRemote protocol.
Line Configuration	Configure terminal services for console, TTY, auxiliary, and virtual terminal lines.
Security:	
Local User Name Manager	Assign usernames and passwords.
TACACS Manager	Configure login method, line passwords, Point-to-Point PPP authentication, and assign IP access lists.
Line Configuration	Configure security for console, TTY, auxiliary, and virtual terminal lines.
Dial-on-Demand:	
Dialer Rotary Group	Configure the dialer rotary group.
IP	Configure DDR for IP.
IPX	Configure DDR for IPX.
Protocol Translation	View configuration protocol translation features.

Table 3-5 Configuration Builder Bridging Menu Items

Item	Explanation
Transparent Bridging:	
Configuration	Configure transparent bridging.
Bridge Groups	Create bridge groups and set spanning-tree and circuit options.
Source-Route:	
Simple	Configure simple SRB options.
Remote	Configure remote SRB options. Remote source-route bridging provides multiple router configuration capability. That is, equivalent statements in the configuration files of devices in the same virtual ring are automatically updated.
SR/TLB	Configure source-route translational bridging (SR/TLB).

Table 3-6 Configuration Builder WAN Menu Items

Item	Explanation
Wide-Area Protocols	Configure wide-area network (WAN) protocols, including High-Level Data Link Control (HDLC), PPP, X.25, Frame Relay, and Switched Multimegabit Data Service (SMDS).
Dial-on-Demand	Configure DDR destination subnet, subnet mask, telephone numbers, destination router IP address, and timers.
Dial Backup	Configure dial backup interfaces and delay options.
SDLC Transport	Configure devices for SDLC transport, a subset of serial tunneling (STUN). Provides multiple router configuration capability. That is, equivalent statements in the configuration files of other SDLC devices are automatically updated.

Table 3-7 Configuration Builder View Menu Items

Item	Explanation
By Protocol	Display configuration commands grouped by protocol type.
By Interface	Display configuration commands grouped by interface.
Configuration	Display the configuration as a text file.
Toolbar	Display or hide the toolbar.
Status Bar	Display or hide the status bar.
Expert Mode	Select expert mode to enable an additional path for configuring global access server features.

Table 3-8 Configuration Builder Window Menu Items

Item	Explanation
Cascade	Resize and layer windows so that each title bar is visible.
Tile	Resize and arrange windows side by side.
Arrange Icons	Arrange icons evenly.
File selection	Select a previously opened configuration file.

Table 3-9 Configuration Builder Help Menu Items

Item	Explanation
Contents	Open the Configuration Builder help system table of contents.
Cisco Support Information	Find out how to contact Cisco Systems for product support and how to obtain additional documentation.
Using Help	Learn how to use the online help system.
About Configuration Builder	Display Configuration Builder software release and copyright information.

Show Commands

With Show Commands, you can quickly display detailed system and protocol information for routers without having to remember complicated command-line syntax for each device. Launch Show Commands by clicking on the Show icon in the CiscoView toolbar.

What's in This Release

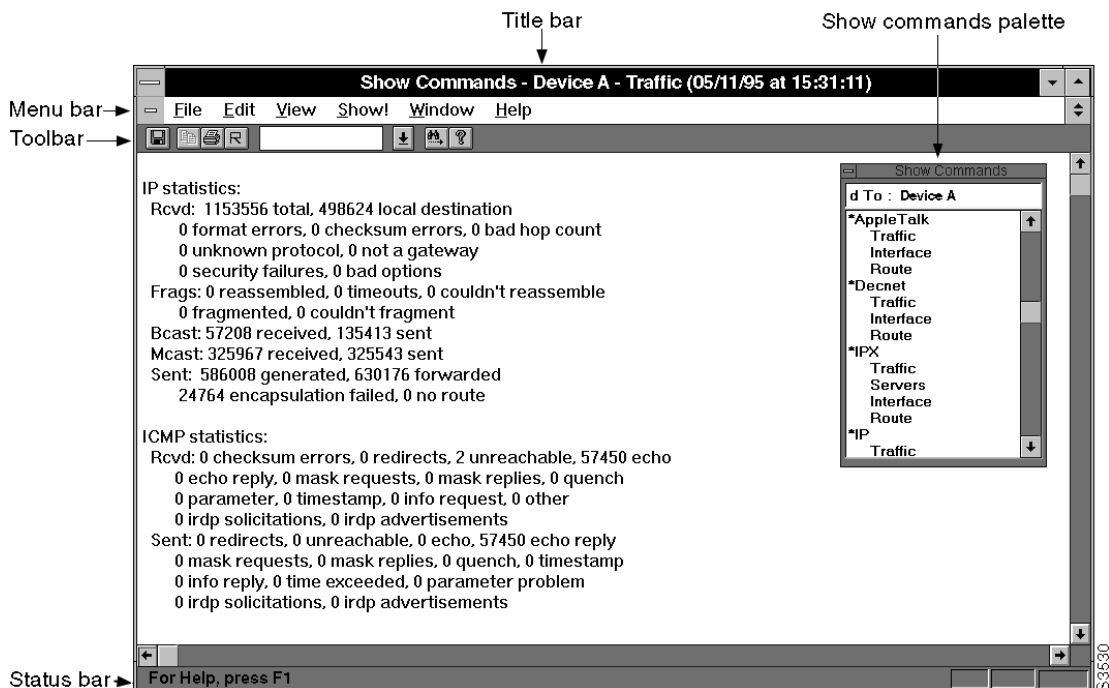
You can display the following system information for devices:

- Software version
Shows which version of the device you are using.
- Device configuration (running memory and nonvolatile random-access memory [NVRAM])
Shows the configuration information of the device, card or port.
- Controller status
- Buffer status
- Device voltage and temperature status
- Flash memory status

Note For detailed information on all Show Commands features, see the context-sensitive online help system. This comprehensive online help system provides procedures, overview material, and links to related information. Open Show Commands and select **Help**.

Show Commands Main Window

The Show Commands main window is illustrated in Figure 3-2.

Figure 3-2 Show Commands Main Window

The Show Commands main window consists of the following elements:

- Title bar—Displays the Show Commands application name, the active device name, and the name of the current Show Commands window.
- Menu bar—Provides access to all Show Commands dialog boxes. Table 3-10 through Table 3-15 list and explain the items under each menu.
- Toolbar—Provides Save File, Copy Text, Print File, Window Refresh, Enter Text for Searching, Find Entered Text, and Help icons.
- Status bar—Provides a brief description of the currently selected menu item.
- Show Commands palette—Floating window from which you can access all Show Commands options.

Table 3-10 Show Commands File Menu Items

Item	Explanation
Close	Closes the Show Commands window.
Save	Save changes to a file.
Save As	Save Show Commands output to a new filename.
Connect	Connect to a specific device.
Print	Send a Show Commands screen display to a printer.
Print Preview	View the file before printing. Zoom in or out and scan pages.
Print Setup	Set printing options.
Exit	Exit the Show Commands application.

Table 3-11 Show Commands Edit Menu Items

Item	Explanation
Copy	Copy text from an active window.
Select All	Select all text within an active window.
Find	Find a keyword within an active window.

Table 3-12 Show Commands View Menu Items

Item	Explanation
Toolbar	Display or hide the toolbar.
Status Bar	Display or hide the status bar.
Show Command Palette	Display the Show Commands Palette floating window.

Table 3-13 Show Commands Show Menu Items

Item	Explanation
Show!	Display the Show Commands window from which you can execute and display output from a specific show command.

Table 3-14 Show Commands Window Menu Items

Item	Explanation
Cascade	Resize and layer windows so that each title bar is visible.
Tile	Resize and arrange windows side by side.
Arrange Icons	Arrange icons evenly.
Close All	Close all open Show Commands windows.
Refresh	Refresh the active Show Commands window. The time and date are updated.
window selection	Select a previously opened Show Commands window.

Table 3-15 Show Commands Help Menu Items

Item	Explanation
Contents	Open the Show Commands help system table of contents.
Help for Current Show Command	Open the help window specific to the active show command window.
Cisco Support Information	Find out how to contact Cisco Systems for product support and how to obtain additional documentation.
Using Help	Learn how to use the online help system.
About Show Commands	Display Show Commands software release and copyright information.

Health Monitor

Health Monitor is a dynamic fault and performance management tool that provides real-time statistics on device characteristics, interface status and utilization, and protocol utilization. Launch Health Monitor by clicking on the Health Monitor icon in the CiscoView toolbar.

With Health Monitor, you can customize feedback on device and interface status with settings in the Preferences dialog box:

- Choose fatal and warning thresholds for CPU load and interface types.

Fatal and warning indications are provided by color changes. Color indications include:

- Green (up)
- Yellow (warning)
- Red (fatal)

Color indications are provided within the IfErrors, IfUtilization, IfStatus, and Environment tabs. For the overall health of a device, color indication is also provided within the Health Monitor application icon.

- Select a polling frequency value to control when you receive device and interface feedback.
- Set the no-response timeout value to control the duration of time that Health Monitor waits for a reply from a monitored device.
- Sort interfaces by status or media type.

What's in This Release

Health Monitor provides the following device and interface information:

- System

Provides device name, type, Cisco IOS version, location, and device contact information. Lists total and available RAM, flash memory, and NVRAM. Also provides a reason for the last restart of the device.

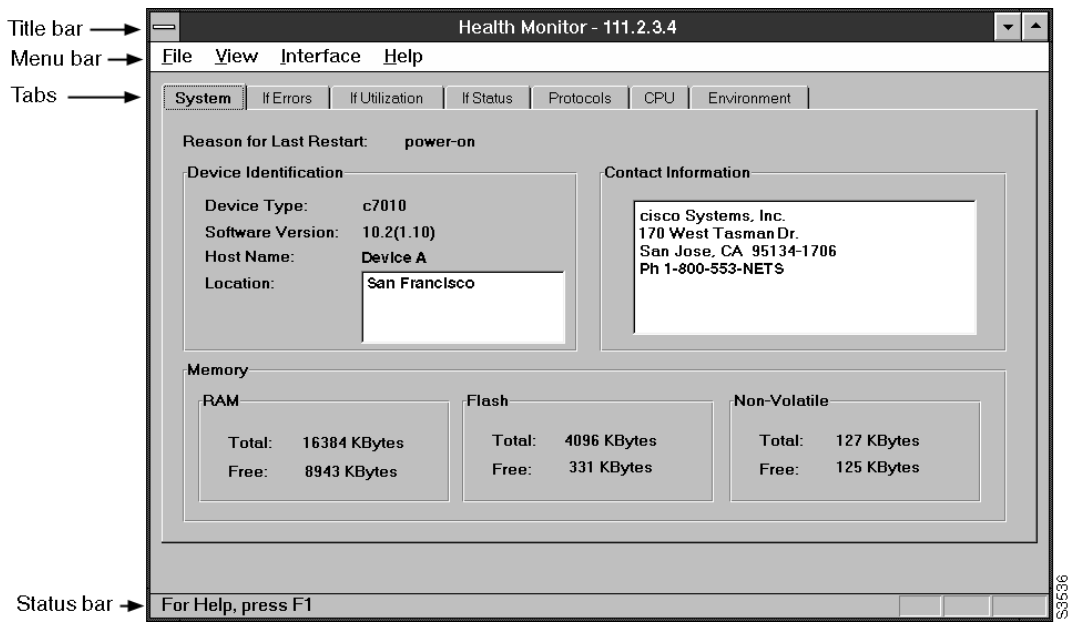
- **Interface errors**
Graphs interface error rates and provides color warning and fatal threshold indications for interface error rates.
- **Interface utilization**
Graphs interface utilization and provides color warning and fatal threshold indications for interface utilization.
- **Interface status**
Graphs the number of bytes per protocol that an interface has sent or received. Provides interface status by color indication: up (green), test (magenta), dormant or waiting for an external event (cyan), administratively down (brown), and operational failure (red).
- **Protocols**
Graphs the number of packets per protocol that the device has forwarded.
- **CPU**
Graphs the device CPU utilization in 5-second, 1-minute, and 5-minute intervals.
- **Environmental card status**
Depicts air temperature and power supply voltage readings for a device. Provides color warning and fatal threshold indications for these readings.

Note For detailed information on all Health Monitor features, see the context-sensitive online help system. The comprehensive online help system provides procedures, overview material, and links to related information. Open Health Monitor and select **Help**.

Health Monitor Main Window

The Health Monitor main window is illustrated in Figure 3-3.

Figure 3-3 Health Monitor Main Window



The Health Monitor main window consists of the following elements:

- Title bar—Provides the Health Monitor application name and the name of the current connected device.
- Menu bar—Provides access to all Health Monitor dialog boxes. Table 3-16 through Table 3-19 list and explain the items under each menu.
- Tabs—Provides access to all Health Monitor tabs. Table 3-20 lists and explains each tab item.
- Status bar—Provides a brief description of the currently selected menu item.

Table 3-16 Health Monitor File Menu Items

Item	Explanation
Connect	Connect to a specific device.
Preferences	Set the threshold value, interface sorting, polling frequency, and timeout preferences.
Exit	Exit the Health Monitor application.

Table 3-17 Health Monitor View Menu Items

Item	Explanation
Status Bar	Display or hide the status bar.

Table 3-18 Health Monitor Interface Menu Items

Item	Explanation
Utilization	View interface utilization.
Protocols	Determine interface protocol usage.
Errors	View interface error rates.
Show	View show interface command statistics for an interface.

Table 3-19 Health Monitor Help Menu Items

Item	Explanation
Contents	Open the Health Monitor help system table of contents.
Help on Current Tab	Open the help window specific to the active Health Monitor tab.
Cisco Support Information	Find out how to contact Cisco Systems for product support and how to obtain additional documentation.
Using Help	Learn how to use the online help system.
About Health Monitor	Display Health Monitor software release and copyright information.

Table 3-20 Health Monitor Tabs

Tab	Explanation
System	View information on restarts, device identification, contact information, and memory usage.
IfErrors	View interface error rates.
IfUtilization	View interface utilization.
IfStatus	Determine interface status (up, down, dormant, failure, or test). Determine interface protocol usage.
Protocols	View traffic forwarded per protocol for a device.
CPU	Measure the device CPU load.
Environment	Check the device temperature and power supply voltage.

Using Online Help

Context-sensitive online help provides you with step-by-step instructions on how to use CiscoWorks Windows applications. The online help system also provides a glossary and keyword search capability. The following table provides a quick guideline to access help from a number of vantage points:

For Information About	Do This
The help system for specific products	Select Help>Contents
How to use the help system	Select Help>Using Help
How to use CiscoWorks Windows applications	Open the CiscoWorks Windows application and select Help
Current CiscoWorks Windows versions	Select Help>About CiscoWorks Windows
The current device package version	Select Help>About Cisco Works Windows
How to view configuration and performance, dashboard windows and field descriptions	Click the Help button in the dialog window
How to change a component value	Press the Help button over the field
How to use help view	Select Help>On Help

Note Report any online help or documentation bugs to cs-ciscoworks@cisco.com or bug-doc@cisco.com

Jumps and Popups

Two key concepts in using the help system are jumps and popups. Click on a highlighted underlined topic to jump to a help window specific to that topic. When you jump to another topic, you have to click Back on the Menu Bar to go back to the previous help topic. Click on a dotted underlined term to open a popup help window, which provides a definition of that term. When you go to a popup, hit return to return to your previous help topic.

Help Contents Tab

The Help Contents Tab has three functional tabs:

- Contents tab—links CiscoWorks Windows device, application and help topics and subtopics.
- Index tab—searches keywords in the help system.
- Find tab—searches the help system and indexes every help word.

For information on how to use this table select **Help>On Help**.

Help Window Menu and Button Bars

Each help window has a menu bar and a button bar. The menu bar provides standard help functions for printing help topics, copying and pasting text from help topics, making online notes about particular help topics, and placing bookmarks.

The button bar provides the following buttons:

- Contents—Opens the current help table of contents. Help topics are highlighted and underlined. Select a help topic to open a help window specific to the underlined topic. Some topics open popup windows that contain a list of subtopics. Select a help subtopic to open a help window specific to the underlined subtopic.
- Back—Moves you back sequentially to previously opened help windows.

- **Print**—Prints current help topic window.
- **Browse**—Allows you to browse through sets of related help screens, providing quick access to overviews of particular help topics.

OverView and See Also Links

Many help windows have Overview and See Also links in the help window topics. You can select the Overview link to obtain background information for the procedure described in the current help window. Select the See Also link to view a list of related topics and go directly to those topics from the current help window.

Exit Help

Select **File>Exit** on the Menu Bar in the Help window to exit Help.