



CHAPTER 10

Configuring CIP

Finding Feature Information

Your software release may not support all the features documented in this chapter. For the latest feature information and caveats, see the release notes for your platform and software release.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.

Restrictions for Configuring CIP

CIP can be enabled on only one VLAN on the switch.

Information About Configuring CIP

The Common Industrial Protocol (CIP) is an industrial protocol for industrial automation applications. It is supported by Open DeviceNet Vendors Association (ODVA), an organization that supports network technologies based upon CIP such as DeviceNet, EtherNet/IP, CIP Safety and CIP Sync.

Previously known as Control and Information Protocol, CIP encompasses a comprehensive suite of messages and services for the collection of manufacturing automation applications - control, safety, synchronization, motion, configuration and information. CIP allows users to integrate these manufacturing applications with enterprise-level Ethernet networks and the Internet.

How to Configure CIP

Default Configuration

By default, CIP is not enabled.

Enabling CIP

	Command	Purpose
Step 1	configure terminal	Enters global configuration mode.
Step 2	cip security { password <i>password</i> window timeout <i>value</i> }	Sets CIP security options on the switch.
Step 3	interface vlan 20	Enters interface configuration mode.
Step 4	cip enable	Enables CIP on a VLAN.
Step 5	end	Returns to privileged EXEC mode.
Step 6	show running-config	Verifies your entries.
Step 7	copy running-config startup-config	(Optional) Saves your entries in the configuration file.

Monitoring CIP

Table 10-1 Commands for Displaying the CIP Configuration

Command	Purpose
show cip { connection faults file miscellaneous object security session status }	Displays information about the CIP subsystem.

Troubleshooting CIP

Table 10-2 Commands for Troubleshooting the CIP Configuration

Command	Purpose
debug cip { assembly connection manager errors event file io packet request response security session socket }	Enables debugging of the CIP subsystem.

Additional References

The following sections provide references related to switch administration:

Related Documents

Related Topic	Document Title
Cisco IE 2000 commands	<i>Cisco IE 2000 Switch Command Reference</i> , Release 15.0(2)EA
Cisco IOS basic commands	<i>Cisco IOS Configuration Fundamentals Command Reference</i>
CIP configuration through Express Setup	<i>Cisco IE 2000 Switch Getting Started Guide</i>

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	—

MIBs

MIBs	MIBs Link
—	To locate and download MIBs using Cisco IOS XR software, use the Cisco MIB Locator found at the following URL and choose a platform under the Cisco Access Products menu: http://cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

RFCs

RFCs	Title
No new or modified RFCs are supported by this feature, and support for existing RFCs has not been modified by this feature.	—

Technical Assistance

Description	Link
The Cisco Technical Support website contains thousands of pages of searchable technical content, including links to products, technologies, solutions, technical tips, and tools. Registered Cisco.com users can log in from this page to access even more content.	http://www.cisco.com/techsupport

