



# Common Industrial Protocol (CIP)

- [CIP Restrictions, on page 1](#)
- [Enabling CIP, on page 1](#)
- [Additional References, on page 2](#)

## CIP Restrictions

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

## Enabling CIP

### Before you begin

By default, CIP is not enabled.

### SUMMARY STEPS

1. **Configure Terminal**
2. `cip security { password password | window timeout value }`
3. `interface vlan 20`
4. `cip enable`
5. `end`
6. `show running-config`
7. `copy running-config startup-config`
8. `show cip { connection | faults | file | miscellaneous | object | security | session | status }`
9. `debug cip { assembly | connection manager | errors | event | file | io | packet | request response | security | session | socket }`

### DETAILED STEPS

	Command or Action	Purpose
Step 1	Configure Terminal	Enters global configuration mode.

	Command or Action	Purpose
Step 2	<code>cip security { password <i>password</i>   window timeout <i>value</i> }</code>	Sets CIP security options on the switch.
Step 3	<code>interface vlan 20</code>	Enters interface configuration mode.
Step 4	<code>cip enable</code>	Enables CIP on a VLAN.
Step 5	<code>end</code>	Returns to privileged EXEC mode.
Step 6	<code>show running-config</code>	Verifies your entries.
Step 7	<code>copy running-config startup-config</code>	(Optional) Saves your entries in the configuration file.
Step 8	<code>show cip { connection   faults   file   miscellaneous   object   security   session   status }</code>	(Optional) Displays information about the CIP subsystem.
Step 9	<code>debug cip { assembly   connection manager   errors   event   file   io   packet   request response   security   session   socket }</code>	(Optional) Enables debugging of the CIP subsystem.

## Additional References

### Related Documents

Related Topic	Document Title
Cisco IOS basic commands	<i>Cisco IOS Configuration Fundamentals Command Reference</i>

### Standards and RFCs

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

### MIBs

MB	MIBs Link
	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: <a href="https://mibs.cloudapps.cisco.com/ITDIT/MIBS/servlet/index?dtid=osscdc000283">https://mibs.cloudapps.cisco.com/ITDIT/MIBS/servlet/index?dtid=osscdc000283</a>

**Technical Assistance**

<b>Description</b>	<b>Link</b>
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<a href="http://www.cisco.com/support">http://www.cisco.com/support</a>

■ Additional References