# **Enable Loopback Detection on the Cisco 220 Series Smart Plus Switches**

## **Objective**

Loopback Detection (LBD) is a feature on the switch that provides protection against loops by transmitting loop protocol packets out of ports where loop protection has been enabled. When the switch sends out a loop protocol packet and then receives the same packet, it shuts down the port that received the packet.

LBD operates independently of Spanning Tree Protocol (STP). After a loop is discovered, the port that received the loops is placed in the Shut Down state. A trap is sent and the event is logged. Network administrators can define a Detection Interval that sets the time interval between LBD packets.

- The following conditions must be set in order for LBD to be active on a specified port:
- LBD is globally enabled.
- LBD is enabled on the specific port.
- Port Operational status is up.
- Port is in STP Forwarding or Disabled state.

This article aims to show how to enable Loopback Detection on the Cisco 220 Series Smart Plus Switches.

## **Applicable Devices**

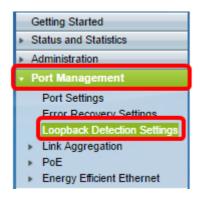
Sx220 Series

#### **Software Version**

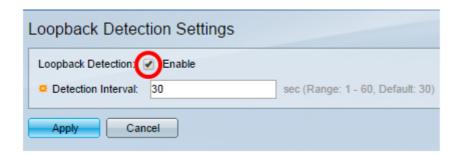
• 1.1.0.14

## **Enable Loopback Detection**

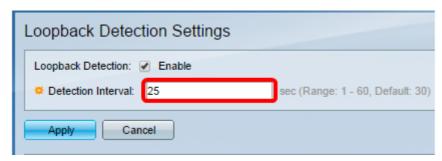
Step 1. Log in to the switch web-based utility and choose **Port Management > Loopback Detection Settings**.



Step 2. Check the **Enable** check box for Loopback Detection.



Step 3. Enter a value in the *Detection Interval* field. This would set the time interval in seconds between LBD packets.



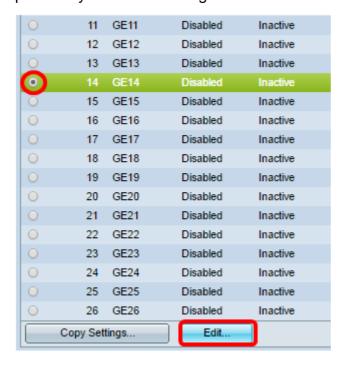
Note: In this example, 25 is used.

Step 4. Click Apply.

Step 5. To save the configuration permanently, go to the Copy/Save Configuration page or click the Save icon at the upper portion of the page.

## **Enable Loopback Detection on the Port**

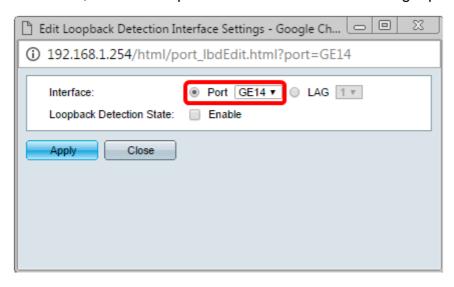
Step 1. Under the Loopback Detection Port Setting Table, click on the radio button of the port that you want to configure then click **Edit**.



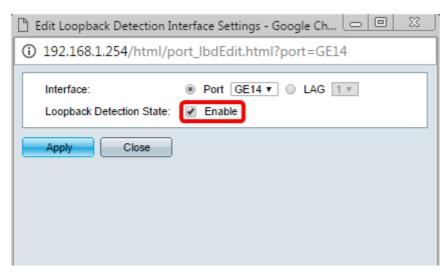
**Note:** In this example, Port GE14 is chosen.

Step 2. The Edit Loopback Detection Interface Settings window will then appear. From the

Interface drop-down list, make sure the specified port is the one you chose in Step 1. Otherwise, click the drop-down arrow and choose the right port.



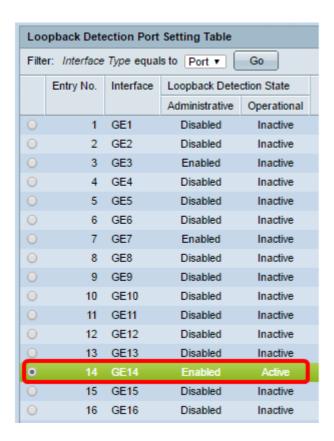
Step 3. Check the **Enable** check box for Loopback Detection State.



Step 4. Click Apply.

Step 5. To save the configuration permanently, go to the Copy/Save Configuration page or click the Save icon at the upper portion of the page.

Step 6. Return to **Port Management > Loopback Detection Settings** window to verify your configuration. The Loopback Detection Administrative State should now show **Enabled** and the Operational State should now be **Active**.



Step 7. Repeat Steps 1 to 4 for each port that you want LBD to be enabled.

You should now have successfully enabled Loopback Detection on specific ports on your switch.