

Enable Loopback Detection on a Switch

Objective

Loopback Detection (LBD) is a feature that protects against loops by sending out loop protocol packets when it has loop protection enabled. When the switch transmits a loop protocol packet and the port receives the same packet, it shuts down the port that received the packet. Although similar to the Spanning Tree Protocol (STP), LBD is not dependent on STP. The port that received the loop is put on Shut Down state. A trap is then sent, and then the event logged.

Applicable Devices

- Sx250 Series
- Sx350 Series
- SG350X Series
- Sx550X Series

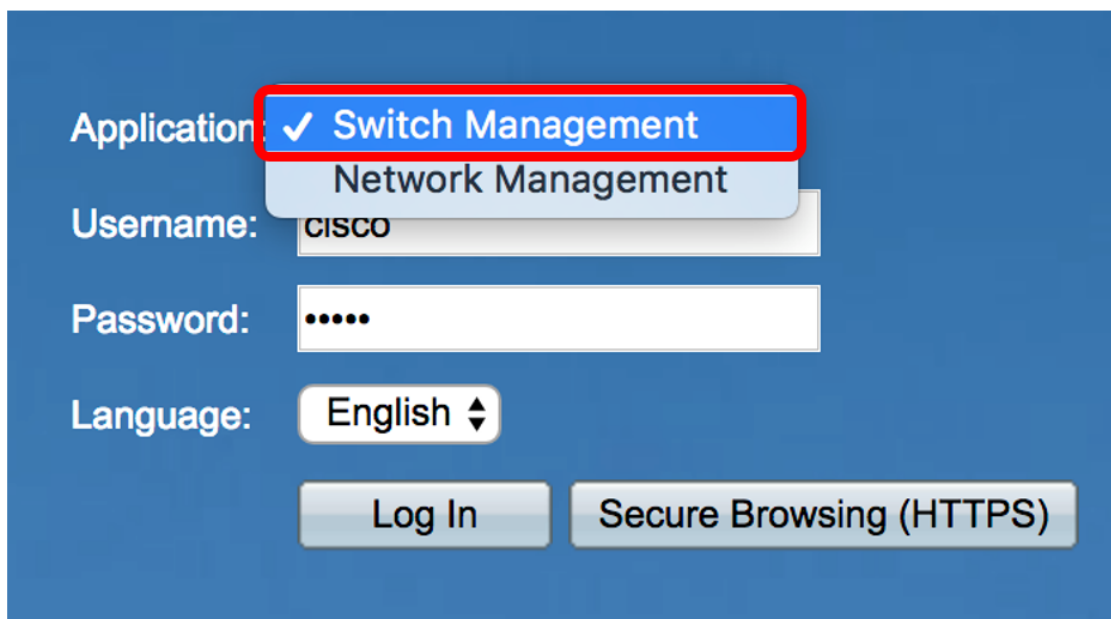
Software Version

- 2.3.5.63

Enable Loopback Detection on the Switch

Step 1. Choose whether to manage the switch or manage the network.

Note: In this example, Switch Management is chosen.



The screenshot shows a login interface on a blue background. The 'Application' dropdown menu is open, with 'Switch Management' selected and highlighted in blue with a white checkmark. Below it, 'Network Management' is visible. The 'Username' field contains the text 'cisco'. The 'Password' field is masked with six dots. The 'Language' dropdown menu is set to 'English'. At the bottom, there are two buttons: 'Log In' and 'Secure Browsing (HTTPS)'.

Step 2. Enter your credentials and then click **Log In**.

Application: Switch Management

Username: cisco

Password:

Language: English

Log In Secure Browsing (HTTPS)

Step 3. Click the Display Mode drop-down list and then choose **Advanced**.

English Display Mode Basic Advanced

Step 4. Choose **Port Management > Loopback Detection** Settings.

- Getting Started
- Dashboard
- Configuration Wizards
- Search
- ▶ Status and Statistics
- ▶ Administration
- ▼ **Port Management**
 - Port Settings
 - Error Recovery Settings
 - Loopback Detection Settings**
 - ▶ Link Aggregation
 - ▶ UDLD
 - ▶ Green Ethernet

Step 5. Check the Loopback Detection **Enable** check box.

Loopback Detection: Enable

⚙️ Detection Interval:

Apply Cancel

Step 6. Enter the Detection Interval value.

Note: The valid range is from 10 to 60. The default value is 30. In this example, 25 is entered.

Loopback Detection: Enable

⚙️ Detection Interval:

Apply Cancel

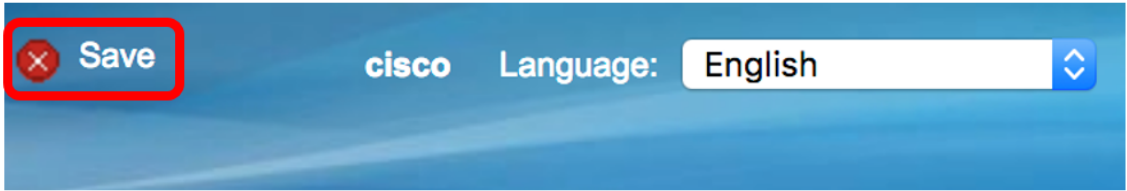
Step 7. Click **Apply**.

Loopback Detection: Enable

⚙️ Detection Interval:

Apply Cancel

Step 8. (Optional) Click **Save** to save the configuration permanently.



Enable Loopback Detection on the Port

Step 1. On the Loopback Detection Port Setting Table, click the radio button that corresponds to the port that needs to be configured.

<input type="radio"/>	47	GE47	Disabled	Disabled
<input type="radio"/>	48	GE48	Disabled	Disabled
<input checked="" type="radio"/>	49	XG3	Disabled	Disabled
<input type="radio"/>	50	XG4	Disabled	Disabled

Copy Settings... Edit...

Note: In this example, XG3 is chosen.

Step 2. Click **Edit**.

<input type="radio"/>	47	GE47	Disabled	Disabled
<input type="radio"/>	48	GE48	Disabled	Disabled
<input checked="" type="radio"/>	49	XG3	Disabled	Disabled
<input type="radio"/>	50	XG4	Disabled	Disabled

Copy Settings... Edit...

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

Interface: Unit 1 Port XG3 LAG 1

Loopback Detection State: Enable

Apply Close

Step 4. Click **Apply**.

Interface: Unit LAG

Unit: 1 Port: XG3 LAG: 1

Loopback Detection State: Enable

Apply Close

Step 5. Click **Save** to save the configuration permanently.

Save cisco Language: English

Step 6. Verify that the Loopback Detection Administrative state is enabled.

<input type="radio"/>	47	GE47	Disabled	Disabled
<input type="radio"/>	48	GE48	Disabled	Disabled
<input type="radio"/>	49	XG3	Enabled	Disabled
<input type="radio"/>	50	XG4	Disabled	Disabled

Copy Settings... Edit...

Step 7. (Optional) Repeat the steps for each port that needs to have LBD enabled.

You should now have successfully enabled loopback detection on your switch.