

# RMON Alarms Configuration on 300 Series Managed Switches

## Objective

The objective of this document is to configure the alarms on the switch for an event which needs to be monitored and alarmed to the network administrators. A rising event is triggered when the rising threshold is crossed. Similarly a falling event is triggered when the falling threshold is crossed.

**Note:** Alarms can be configured only if there is a RMON event configured on the switch. For more information on how to configure a RMON event, refer to the article *RMON Events on 200/300 Series Managed Switches*.

## Applicable Devices

- SF/SG 300 Series Managed Switches

## Software Version

- 1.3.0.62

## RMON Alarm Configuration

Step 1. Log in to the web configuration utility and choose **Status and Statistics > RMON > Alarms**. The *Alarms* page opens:



Alarm Entry No.	Interface	Counter Name	Counter Value	Sample Type	Rising Threshold	Rising Event	Falling Threshold	Falling Event	Startup Alarm	Interval (sec.)	Owner
0 results found.											
Add... Edit... Delete											

Step 2. Click **Add**. The *Add Alarm Entry* window appears.

Alarm Entry:	1	
Interface:	<input checked="" type="radio"/> Port <span>GE1</span> <input type="radio"/> LAG <span>1</span>	
Counter Name:	<span>Total Bytes (Octets)- Receive</span>	
Sample Type:	<input checked="" type="radio"/> Absolute <input type="radio"/> Delta	
Rising Threshold:	<input type="text" value="100"/>	(Range: 0 - 2147483647, Default: 100)
Rising Event:	<span>1 - Default Description</span>	
Falling Threshold:	<input type="text" value="20"/>	(Range: 0 - 2147483647, Default: 20)
Falling Event:	<span>1 - Default Description</span>	
Startup Alarm:	<input checked="" type="radio"/> Rising Alarm <input type="radio"/> Falling Alarm <input type="radio"/> Rising and Falling	
Interval:	<input type="text" value="100"/>	sec. (Range: 1 - 2147483647, Default: 100)
Owner:	<input type="text"/>	(0/160 Characters Used)

**Note:** The Alarm Entry field displays the number of the alarm that is currently being configured.

Step 3. Click a type of interface in the interface field to define to which interface the alarm is applied. The available options are:

- Port — This option lets you choose from the Port drop-down list the port you wish to assign an event alarm.
- LAG — This option lets you choose from the Link Aggregation Group (LAG) drop-down list the LAG port you wish to assign an event alarm. A LAG port combine individual interfaces into a single logical link with higher bandwidth.

Alarm Entry: 1

Interface:  Port GE1  LAG 1

Counter Name: Total Bytes (Octets)- Receive

Sample Type: Total Bytes (Octets)- Receive

Rising Threshold: 33647, Default: 100

Rising Event: Multicast Packets - Transmit

Falling Threshold: 33647, Default: 20

Falling Event: Single Collision Frames

Startup Alarm: Excessive Collisions

Interval: 47483647, Default: 100

Owner: (Used)

Apply Close

Step 4. Choose from the Counter Name drop-down list the counter name which indicates the Management Information Base (MIB) to be measured by the alarm.

**Note:** For information about MIB, refer to the article *Simple Network Management Protocol (SNMP) Views Configuration on the 300 Series Managed Switches*.

Alarm Entry: 1

Interface:  Port GE1  LAG 1

Counter Name: Multicast Packets - Receive

Sample Type:  Absolute  Delta

Rising Threshold: 400 (Range: 0 - 2147483647, Default: 100)

Rising Event: 1 - Default Description

Falling Threshold: 50 (Range: 0 - 2147483647, Default: 20)

Falling Event: 1 - Default Description

Startup Alarm:  Rising Alarm  Falling Alarm  Rising and Falling

Interval: 200 sec. (Range: 1 - 2147483647, Default: 100)

Owner: Admin (5/160 Characters Used)

Apply Close

Step 5. Click a sample method to generated an alarm. The available options are:

- Absolute — This option uses the information measured of the current sample to generate the alarm.
- Delta — This option uses the difference between two consecutive samples to generate the alarm.

Step 6. Enter the rising treshold in the Rising Treshold field to trigger the rising treshold alarm.

Step 7. Choose from the Rising Event drop-down list the event you wish to be performed when a rising event is triggered.

Step 8. Enter the falling treshold in the Falling treshold field to trigger the falling treshold alarm.

**Note:** Falling threshold must be less than rising threshold.

Step 9. Choose from the Falling Event drop-down list the event you wish to be performed when a falling event is triggered.

Step 10. Click the startup alarm from which you prefer to start. The available options are:

- Rising Alarm — This option triggers as startup alarm the rising event.
- Falling Alarm — This option triggers as startup alarm the falling event.
- Rising and Falling Alarm — This option triggers both rising and falling events.

Step 11. Enter the interval time between each alarm in the Interval field.

Step 12. (Optional) Enter the name of the user or system that receives the alarm.

Step 13. Click **Apply** to save your configuration.

The screenshot shows a web interface titled "Alarms" with a table of alarm configurations. The table has columns for Alarm Interface, Counter Name, Counter Sample Type, Rising Rising Event, Falling Falling Event, Startup Alarm, Interval, and Owner. A single row is visible with the following data: Alarm Interface: 1 GE1, Counter Name: Multicast Packets - Receive, Counter Sample Type: 0 Delta, Rising Rising Event: 400 Default Description, Falling Falling Event: 50 Default Description, Startup Alarm: Rising Alarm, Interval: 200, Owner: Admin. Below the table are buttons for Add, Edit, and Delete.

<input checked="" type="checkbox"/>	Alarm Interface	Counter Name	Counter Sample Type	Rising Rising Event	Falling Falling Event	Startup Alarm	Interval	Owner
	Entry No.		Value	Threshold	Threshold		(sec.)	
<input checked="" type="checkbox"/>	1 GE1	Multicast Packets - Receive	0 Delta	400 Default Description	50 Default Description	Rising Alarm	200	Admin

Step 14. (Optional) To edit a current alarm, check the check box of the alarm you wish to edit and click **Edit**.

Step 15. (Optional) T delete a current alarm, check the check box of the alarm you wish to delete and click **Delete**.