Configure Log Aggregation Settings on an Sx350 Series Managed Switch

Objective

A Syslog service accepts messages, and stores them in files or prints them according to a simple configuration file. This form of logging is the best available for Cisco devices because it can provide protected long-term storage for logs. This is useful both in routine troubleshooting and in incident handling.

Logging Aggregation means several syslog messages of the same type will not appear on the screen every time an instance occurs. Enabling logging aggregation allows you to filter the system messages that you will receive for a specific period of time. It collects a few syslog messages of the same type so they won't appear when they occur, but would rather appear on a specified interval.

This article provides instructions on how to configure the Log Aggregation Settings on your Sx350 Series Managed Switch.

Applicable Devices

SG350 Series

SF350 Series

Software Version

• 2.1.0.63

Configure Log Aggregation Settings

Enable Log Aggregation Settings

Step 1. Log in to the web-based utility of the switch then choose **Administration > System** Log > Log Settings.

Note: In this scenario, the SG350-28MP switch is used.



Step 2. Check the Enable **Syslog Aggregator** check box to enable the aggregation of Syslog messages and traps. If enabled, identical and contiguous Syslog messages and traps are aggregated over the specified Max. Aggregation Time and sent in a single message. The aggregated messages are sent in the order of their arrival. Each message states the number of times it was aggregated.

Log Settings		
Logging:	Enable	
Syslog Aggregator:	🗹 Enable	
Max. Aggregation Time:	300	sec (Range: 15 - 3600, Default: 300)
o Originator Identifier:	 None Hostname IPv4 Address IPv6 Address Licer Defined 	(0/150 obaractors used)

Note: The Syslog Aggregator is disabled by default.

Step 3. (Optional) Enter a value in seconds in the *Max. Aggregation Time* field to specify an interval of when messages would appear. The default value is 300 seconds.

Syslog Aggregator:	Enable	
🌣 Max. Aggregation Time:	300	sec (Range: 15 - 3600, Default: 300)

Step 4. (Optional) To add an origin identifier to Syslog messages, choose an Originator Identifier from the following options:

Originator Identifier:	 None Hostname IPv4 Address IPv6 Address 	
	 User Defined 	(0/160 characters used)

None — Do not include the origin identifier in Syslog messages

Hostname — Include the system hostname in Syslog messages

IPv4 Address — Include the IPv4 address of the sending interface in Syslog messages

IPv6 Address — Include the IPv6 address of the sending interface in Syslog messages

User Defined — Enter a description to be included in Syslog messages

Note: The default Originator Identifier is set to **None**.

Step 5. (Optional) In the RAM Memory Logging area, check or uncheck to choose the severity levels of messages to be logged to the Random Access Memory (RAM).

RAM Memory L	RAM Memory Logging		Flash Memory Logging		
Emergency:		Emergency:			
Alert:		Alert:			
Critical:		Critical:			
Error:		Error:			
Warning:		Warning:			
Notice:		Notice:			
Informational:		Informational:			
Debug:		Debug:			
Apply C	Apply Cancel				

The values for level are as follows:

- 0 Emergency
- 1 Alert
- 2 Critical
- 3 Error
- 4 Warning
- 5 Notice
- 6 Informational
- 7 Debug

Step 6. (Optional) In the Flash Memory Logging area, check or uncheck to choose the severity levels of messages to be logged to the Flash memory. Refer to the same values defined in <u>Step 5</u> above.

Step 7. Click **Apply** to save changes to the running configuration file.

Step 8. Click **Save** to update the startup configuration file.

9 28-Port Gigabi	Save cisco Language: English v D POE Managed Switch
Log Settings	
Logging: Syslog Aggregator:	Enable Enable
Max. Aggregation Time:	300 sec (Range: 15 - 3600, Default: 300)

You should now have configured the Log Aggregation Settings on your Sx350 Series Managed Switch.

View or Clear Logs from RAM

The RAM Memory page displays all messages that were saved in the RAM (cache) in chronological order. Entries are stored in the RAM log according to the configuration in the Log Settings page.

Step 1. To view logs from RAM Memory, choose **Status and Statistics > View Log > RAM Memory**.

cisco SG350-28M
Getting Started
Dashboard
Configuration Wizards
Search
Status and Statistics
System Summary
CPU Utilization
Interface
Etherlike
Port Utilization
GVRP
802.1x EAP
ACL
TCAM Utilization
Health
▶ SPAN
 Diagnostics
RMON
▶ sElow
▼ View Log
RAM Memory
Flash Memory
 Administration

Step 2. (Optional) To enable or disable the blinking of the alert icon, click the **Alert Icon Blinking** button. The default setting is Enabled and the button displays Disable Alert Icon Blinking. Note: In the image below, Alert Icon Blinking is enabled.

RAM Memory				
Alert Icon Blinkir	ng: Enabled	Disable Alert Icor	Blinking	
Log Popup:	Enabled	Disable Log F	Popup	
Current Logging	Threshold: Information	nal Edit		
RAM Memory	Log Table			
Log Index	Log Time	Severity	Description	
2147483593	2016-May-02 05:52:5	0 Informational	%AAA-I-CONNECT: New http connection f	
2147483594	2016-May-02 05:48:2	4 Informational	%AAA-I-DISCONNECT: http connection for	
2147483595	2016-May-02 05:37:1	1 Informational	%AAA-I-CONNECT: New http connection f	
2147483596	2016-May-02 05:37:0	6 Warning	%AAA-W-REJECT: New http connection fo	
2147483597	2016-May-02 04:07:3	4 Informational	%AAA-I-DISCONNECT: http connection for	
2147483598	2015-Dec-07 03:02:00	6 Informational	%AAA-I-CONNECT: New http connection f	
2147483599	2015-Dec-07 02:53:50	6 Informational	%BOOTP_DHCP_CL-I-DHCPCONFIGUR	
2147483600	2015-Dec-07 02:53:53	3 Warning	%BOOTP_DHCP_CL-W-DHCPIPCANDID	
2147483601	2015-Dec-07 02:53:49	9 Informational	%LINK-I-Up: Vlan 1	
2147483602	2015-Dec-07 02:53:49	9 Warning	%LINK-W-Down: Vlan 1	
2147483603	2015-Dec-07 02:53:44	4 Warning	%NT_GREEN-W-EeeLldpMultiNeighbours	
2147483604	2015-Dec-07 02:53:44	4 Warning	%STP-W-PORTSTATUS: gi24: STP status	
2147483605	2015-Dec-07 02:53:42	2 Informational	%LINK-I-Up: Vlan 1	
2147483606	2015-Dec-07 02:53:42	2 Informational	%LINK-I-Up: gi24	
2147483607	2015-Dec-07 02:51:03	3 Informational	%INIT-I-Startup: Cold Startup	
2147483608	2015-Dec-07 02:49:28	B Notice	%SYSLOG-N-LOGGING: Logging started.	

Step 3. (Optional) To enable or disable the Log Popup, click the **Log Popup** button. The default setting is Enabled and the button displays Disable Log Popup.

Alert Icon Blinking:	Enabled	Disable Alert Icon Blinking
Log Popup:	Enabled	Disable Log Popup
Current Logging Threshold:	Informatio	nal Edit

Note: The Current Logging Threshold displays the current RAM Logging settings. Clicking the Edit link will bring you to the Log Settings page.

The RAM Memory page contains the following fields:

Log Index — Log entry number

Log Time — Time when message was generated

Severity — Event severity

Description — Message text describing the event

Step 4. (Optional) To clear the log messages, scroll down the page then click **Clear Logs**. The messages are then cleared.

2147483627	2015-Dec-07 02:49:04	Warning	%LINK-W-Down: gi11
2147483628	2015-Dec-07 02:49:03	Warning	%LINK-W-Down: gi10
2147483629	2015-Dec-07 02:49:03	Warning	%LINK-W-Down: gi9
2147483630	2015-Dec-07 02:49:01	Warning	%LINK-W-Down: gi8
2147483631	2015-Dec-07 02:49:01	Warning	%LINK-W-Down: gi7
2147483632	2015-Dec-07 02:48:59	Warning	%LINK-W-Down: gi6
2147483633	2015-Dec-07 02:48:59	Warning	%LINK-W-Down: gi5
2147483634	2015-Dec-07 02:48:58	Warning	%LINK-W-Down: gi4
2147483635	2015-Dec-07 02:48:58	Warning	%LINK-W-Down: gi3
2147483636	2015-Dec-07 02:48:55	Warning	%LINK-W-Down: gi2
2147483637	2015-Dec-07 02:48:55	Warning	%LINK-W-Down: gi1
2147483638	2015-Dec-07 02:48:50	Informational	%SSL-I-SSLCTASK: Au
2147483639	2015-Dec-07 02:48:49	Informational	%SSL-I-SSLCTASK: St
2147483640	2015-Dec-07 02:48:47	Informational	%Entity-I-SEND-ENT-C
2147483641	2015-Dec-07 02:48:46	Informational	%Environment-I-FAN-S
2147483642	2015-Dec-07 02:48:36	Informational	%SNMP-I-CDBITEMSN
Clear Logs			

You should now have viewed or cleared the log messages on the RAM Memory of your Sx350 Series Managed Switch.

View or Clear Logs from Flash Memory

The Flash Memory page displays the messages that were stored in the Flash memory, in chronological order. These logs can be cleared manually. The minimum severity for logging is configured in the Log Settings page. Flash logs remain when the device is rebooted.

Step 1. To view logs from Flash Memory, choose **Status and Statistics > View Log > Flash Memory**.

cisco SG350-28M			
Getting Started			
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Search			
 Status and Statistics 			
System Summary			
CPU Utilization			
Interface			
Etherlike			
Port Utilization			
GVRP			
802.1× EAP			
ACL			
TCAM Utilization			
Health			
▶ SPAN			
 Diagnostics 			
► RMON			
▶ SFIOW			
PAM Memory			
Flash Memory			
 Administration 			
Port Management			
Port Management			
 Smartport 			

Note: The Current Logging Threshold displays the current Flash Memory Logging settings. Clicking the **Edit** link will bring you to the Log Settings page.

Flash Memory					
Current Logging Threshold: Informational Edit					
Flash Memory Log Table					
Log Index	Log Time	Severity	Description		
2147483603	2016-May-03 02:16:25	Notice	%COPY-N-TRAP: The copy		
2147483604	2016-May-03 02:16:23	Informational	%COPY-I-FILECPY: Files Co		
2147483605	2016-May-03 02:15:14	Notice	%SYSLOG-N-LOGGINGFIL		
Clear Logs					

This page contains the following fields:

Log Index — Log entry number

Log Time — Time when message was generated

Severity — Event severity

Description — Message text describing the event

Step 2. (Optional) To clear the log messages, scroll down the page then click Clear Logs. The messages are cleared.

You should now have viewed or cleared the log messages on the Flash Memory of your Sx350 Series Managed Switch.