



Best Practices for Escalation

SL1 version 8.4.2

Table of Contents

Introduction to Escalations	3
What is an Event?	4
What is Escalation?	4
Requirements	4
Evaluating Your Business Processes and Customizing Events	5
Identifying Critical, Major, and Minor Events	6
Customizing Pre-Defined Events	7
Identify Technical Units and Business Units for Event Escalation	9
Escalation Processes and Example Escalation Policy	10
Sample Escalation Process for Acknowledging Events	12
Sample Escalation Process for Clearing Events	13
Defining Escalation Policies	14
Example Escalation Policy for Event Acknowledgment	14
Creating the Action Policy	14
Creating the Automation Policy	17
Example Email and Example Logs	20
Compliance	22

Chapter



1

Introduction to Escalations

Overview

This chapter provides an overview of SL1 Events and how to use Events with your organization's escalation process.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon ().
- To view a page containing all of the menu options, click the Advanced menu icon (.

This chapter covers the following topics:

What is an Event?	4
What is Escalation?	4
Requirements	4

What is an Event?

One of the quickest ways to monitor the health of your network is to look at events. You can view events on the **Events** page in SL1.

Events are messages that are triggered when a specific condition is met. For example, an event can signal if a server has gone down, if a device is exceeding CPU or disk-space thresholds, or if communication with a device has failed. Alternately, an event can simply display the status of a managed element.

SL1 generates log messages from incoming trap and syslog data, and also when SL1 executes user-defined policies. SL1 then uses these log messages to generate events. SL1 examines each log message and compares it to each event definition. If a log message matches an event's definition, SL1 generates an event instance and displays the event on the **Events** page.

Each event includes a description of the problem, where the problem occurred (device, network hardware, software, policy violation), a pre-defined severity, the time of first occurrence, the time of most recent occurrence, and the age of the event.

SL1 includes pre-defined events for the most commonly encountered conditions in the most common environments. You can also create custom events for your specific environment or edit the pre-defined events to better fit your specific environment.

What is Escalation?

Escalation is the process through which an organization identifies issues, manages issues, and takes corrective actions related to those issues.

When an issue is **escalated**, it is sent to a staff member with greater technical knowledge or a higher level of authority than lower-level staff members. Escalation should occur only when all avenues have been exhausted at the lower levels within the organization.

In SL1, automation policies and automation actions allow you to specify the actions you want the system to execute when specific event conditions are met. For example, if nobody in an organization acknowledges an event within 10 minutes, the system can automatically notify a manager. If nobody acknowledges the same event within 20 minutes, the system can notify a director. If nobody acknowledges the same event within 30 minutes, the system can notify a vice president.

For information on how to create an example escalation policy, see [Escalation Processes](#).

Requirements

Before using SL1 to manage event escalation, your organization must include certain business process or standard operating procedures. Examples of these supporting processes and event escalation processes are described in [Business Processes](#).

Chapter

2

Evaluating Your Business Processes and Customizing Events



Overview

Before using SL1 to manage event escalation, your organization must include certain business processes or standard operating procedures:

- Collect and identify critical, major, and minor events.
- Customize events, if necessary, to meet business requirements, such as service level agreements (SLAs).
- Identify the technical and business units that should be involved in event escalation.

These tasks are described in this chapter.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon ().
- To view a page containing all of the menu options, click the Advanced menu icon ().

This chapter covers the following topics:

<i>Identifying Critical, Major, and Minor Events</i>	6
<i>Customizing Pre-Defined Events</i>	7
<i>Identify Technical Units and Business Units for Event Escalation</i>	9

Identifying Critical, Major, and Minor Events

Before you can define the escalation procedures for your enterprise, you must determine the severity of events. If you are already using SL1, you can use the **Event Console** page to collect information about events. You can also examine existing incident records (from outside the system).

In SL1, events are categorized by severity:

- **Critical Events** indicate a condition that can seriously impair or curtail service and require immediate attention (such as service or system outages).
- **Major Events** indicate a condition that impacts service and requires immediate investigation.
- **Minor Events** indicate a condition that does not currently impair service, but needs to be corrected before it becomes more severe.
- **Notice Events** indicate a condition that does not affect service but about which users should be aware.
- **Healthy Events** indicate that a device or condition has returned to a healthy state. Frequently, a healthy event is generated after a problem has been fixed.

To determine the severity of an event to your enterprise, ask yourself the following questions about each targeted event:

- Is there service degradation?
 - What levels of degradation are considered Critical? Major? Minor?
- Is there an impact on crucial business processes?
 - What levels of impact are considered Critical? Major? Minor?
- Are internal or external customers affected?
 - How many customers must be affected before the event is considered Critical? Major? Minor?
- Will revenue be lost?
 - Is this issue more or less expensive than other pending issues?
- Will schedules be affected?
 - How likely must delays be before the event is considered Critical? Major? Minor?
- Is there potential for hard failure?
 - How great must this potential be before the event is considered Critical? Major? Minor?

Customizing Pre-Defined Events

After identifying the severity of common events for your business, you might want to customize the default events in SL1 to fit your business requirements.

SL1 includes pre-defined events for common syslog, trap, and SNMP messages, as well as pre-defined events for when SL1 executes user-defined policies. Pre-defined events include event severity, but after identifying events and defining their severity levels for your organization, you can edit the pre-defined severity of events to match your business requirements.

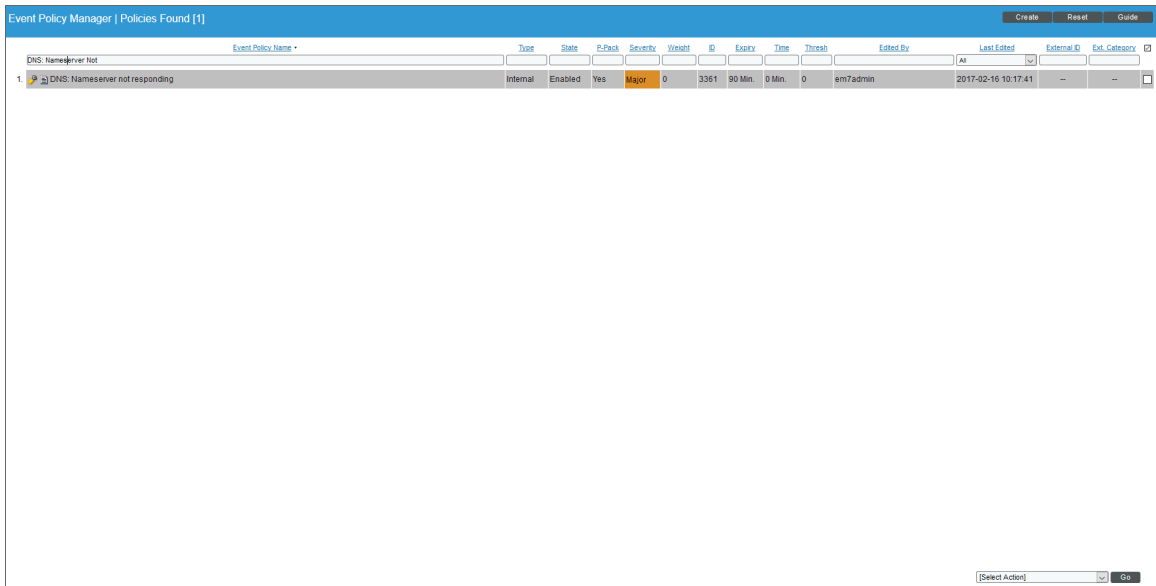
For example, SL1 includes the event "DNS: Nameserver not responding". By default, SL1 assigns this event a severity of "Major". Suppose that your organization determines that this event is a critical event for your business.


To change the severity of the event "DNS: Nameserver not responding":

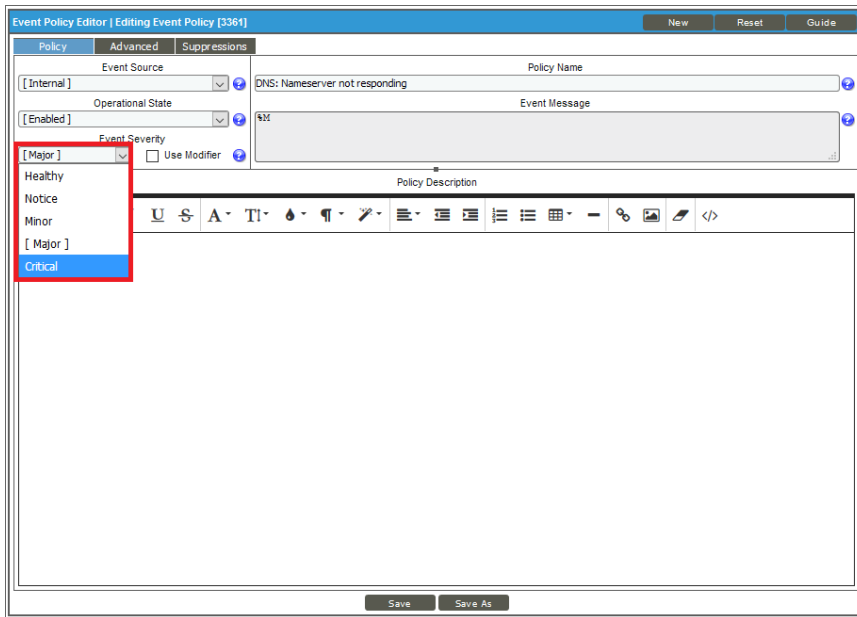
1. Go to the **Event Policy Manager** page (Registry > Events > Event Manager):

Event Policy Name	Type	State	P-Pack	Severity	Weight	ID	Expiry	Time	Threshold	Edited By	Last Edited	External ID	Ext. Category
1. AKCP: AC Voltage sensor detects no current	Syslog	Enabled	Yes	Critical	0	2959	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
2. AKCP: AC Voltage sensor now reporting Normal Status	Syslog	Enabled	Yes	Healthy	0	2965	15 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
3. AKCP: DC Voltage High Warning	Syslog	Enabled	Yes	Major	0	2970	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
4. AKCP: DC Voltage sensor High Critical	Syslog	Enabled	Yes	Critical	0	2968	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
5. AKCP: DC Voltage sensor Low Critical	Syslog	Enabled	Yes	Critical	0	2969	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
6. AKCP: DC Voltage sensor Low Warning	Syslog	Enabled	Yes	Major	0	2971	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
7. AKCP: DC Voltage sensor returned to Normal Status	Syslog	Enabled	Yes	Healthy	0	2972	15 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
8. AKCP: Dry Contact Sensor Low Critical	Syslog	Enabled	Yes	Critical	0	2958	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
9. AKCP: Dry contact sensor now Normal	Syslog	Enabled	Yes	Healthy	2	2963	15 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
10. AKCP: Humidity High Warning	Syslog	Enabled	Yes	Major	0	2966	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
11. AKCP: Humidity Low Warning	Syslog	Enabled	Yes	Major	0	2967	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
12. AKCP: Smoke Detector Alert	Syslog	Enabled	Yes	Critical	10	2964	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
13. AKCP: Smoke detector now Normal Status	Syslog	Enabled	Yes	Healthy	4	2960	15 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
14. AKCP: Water Sensor has detected water	Syslog	Enabled	Yes	Critical	0	2962	90 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
15. AKCP: Water sensor now Normal	Syslog	Enabled	Yes	Healthy	0	2961	15 Min	0 Min	0	em7admin	2017-02-16 10:17:19	--	--
16. Allion: New Flash Enabled	Dynamic	Enabled	Yes	Notice	0	2830	30 Min	0 Min	0	em7admin	2017-02-16 10:17:14	--	--
17. Allion: Primary Power Supply Failure	Dynamic	Enabled	Yes	Major	0	2826	90 Min	0 Min	0	em7admin	2017-02-16 10:17:14	--	--
18. Allion: Primary Power Supply Healthy	Dynamic	Enabled	Yes	Healthy	0	2827	15 Min	0 Min	0	em7admin	2017-02-16 10:17:14	--	--
19. Allion: Redundant Power Supply Failure	Dynamic	Enabled	Yes	Major	0	2828	90 Min	0 Min	0	em7admin	2017-02-16 10:17:14	--	--
20. Allion: Redundant Power Supply Healthy	Dynamic	Enabled	Yes	Healthy	0	2829	15 Min	0 Min	0	em7admin	2017-02-16 10:17:14	--	--
21. APC: Batteries Do Not Need Replacement	Dynamic	Enabled	Yes	Healthy	0	1577	15 Min	0 Min	0	em7admin	2017-02-16 10:18:06	--	--
22. APC: Battery Charge Normal	Dynamic	Enabled	Yes	Healthy	0	1585	15 Min	0 Min	0	em7admin	2017-02-16 10:18:06	--	--
23. APC: Battery Run Time Remaining No Longer Critical	Dynamic	Enabled	Yes	Healthy	0	1579	15 Min	0 Min	0	em7admin	2017-02-16 10:18:06	--	--
24. APC: Battery Status	Dynamic	Enabled	Yes	Major	0	1584	90 Min	0 Min	0	em7admin	2017-02-16 10:18:06	--	--
25. APC: Calibration Test Completed	Dynamic	Enabled	Yes	Healthy	0	1598	15 Min	0 Min	0	em7admin	2017-02-16 10:18:06	--	--
26. APC: Calibration Test Did Not Complete	Dynamic	Enabled	Yes	Minor	0	1596	60 Min	0 Min	0	em7admin	2017-02-16 10:18:06	--	--

2. On the **Event Policy Manager** page, type "DNS: Nameserver Not" in the filter-while-you-type search box at the top of the **Event Policy Name** column. The **Event Policy Manager** page displays only the event you want: the event "DNS: Nameserver not responding".



3. To edit the severity of the event, click the wrench icon () to the left of the event name. The **Event Policy Editor** page appears.



4. Select a new value in the **Event Severity** field. For example, change the value from *Major* to *Critical*.
5. Click the **[Save]** button at the bottom of the page to save the new severity. When this event occurs on any device in your network, SL1 displays an event message with the new *Critical* severity.
6. For more information about creating your own custom event policy and editing other parameters of an event policy, see the **Events** manual .

Identify Technical Units and Business Units for Event Escalation

When defining an escalation policy, you must determine which technical and business units to include during an escalation. You must also determine each unit's position in the escalation chain.

For the example in [Example Escalation Processes](#), we defined the following units and established their position in the escalation chain):

1. **Operations staff**. Events are initially handled by the Operations unit.
2. **Director of Operations**. If the Operations staff does not acknowledge or resolve an event within a predetermined timespan, the event escalates to the Director of Operations.
3. **Customer Satisfaction Representative**. If the Director of Operations does not acknowledge or resolve an event within a predetermined timespan, the event escalates to a Customer Satisfaction Representative.
4. **Director of Customer Service**. If the Customer Satisfaction Representative does not acknowledge or resolve an event within a predetermined timespan, the event escalates to the Director of Customer Service.
5. **Tier-3 Support Engineer**. If the Director of Customer Service does not acknowledge or resolve an event within a predetermined timespan, the event escalates to a Tier-3 Support Engineer.
6. **Chief Engineer**. If the Tier-3 Support Engineer does not acknowledge or resolve an event within a predetermined timespan, the event escalates to the Chief Engineer.
7. **Director of Implementation**. If the Chief Engineer does not acknowledge or resolve an event within a predetermined timespan, the event escalates to the Director of Implementation.
8. **Vice President of Service Delivery**. If the Director of Implementation does not acknowledge or resolve an event within a predetermined timespan, the event escalates to the Vice President of Service Delivery.

Within these units, you must specify which personnel should receive emails during escalation. The units and their position in the escalation chain might differ for your enterprise.

Chapter

3

Escalation Processes and Example Escalation Policy



Overview

This chapter describes sample escalation processes for acknowledging and clearing events, and includes an example of an automation policy that notifies staff if an event has not been acknowledged.

Typically, event escalation includes at least these three escalation processes:

- **Acknowledgment.** When an event has been acknowledged, the acknowledging user's name appears in the **Acknowledged** column for the event on the **Event Console** page. This lets other users know that someone is investigating or taking action on the event. After acknowledgment, the acknowledging user can suppress the event. When a user suppresses an event, he or she specifies that, if this event occurs again on the same device, the event will not appear in the **Event Console**. This prevents the acknowledgment process from being reiterated.
- **Incident Response.** After an event has been acknowledged (and optionally suppressed), you can then use ScienceLogic Ticketing or another incident response tool to monitor and document the actions required to resolve the event. For more information about managing incident response in SL1, see the **Incident Management** manual.
- **Resolution.** When an event has been resolved, the resolving user can un-suppress the event and then clear it from the **Event Console**. When a user clears an event, he or she removes a single instance of the event from the system. If the event occurs again on the same device, it will reappear in the **Event Console**. The resolution ensures that the event won't occur again on the same device.

Use the following menu options to navigate the SL1 user interface:

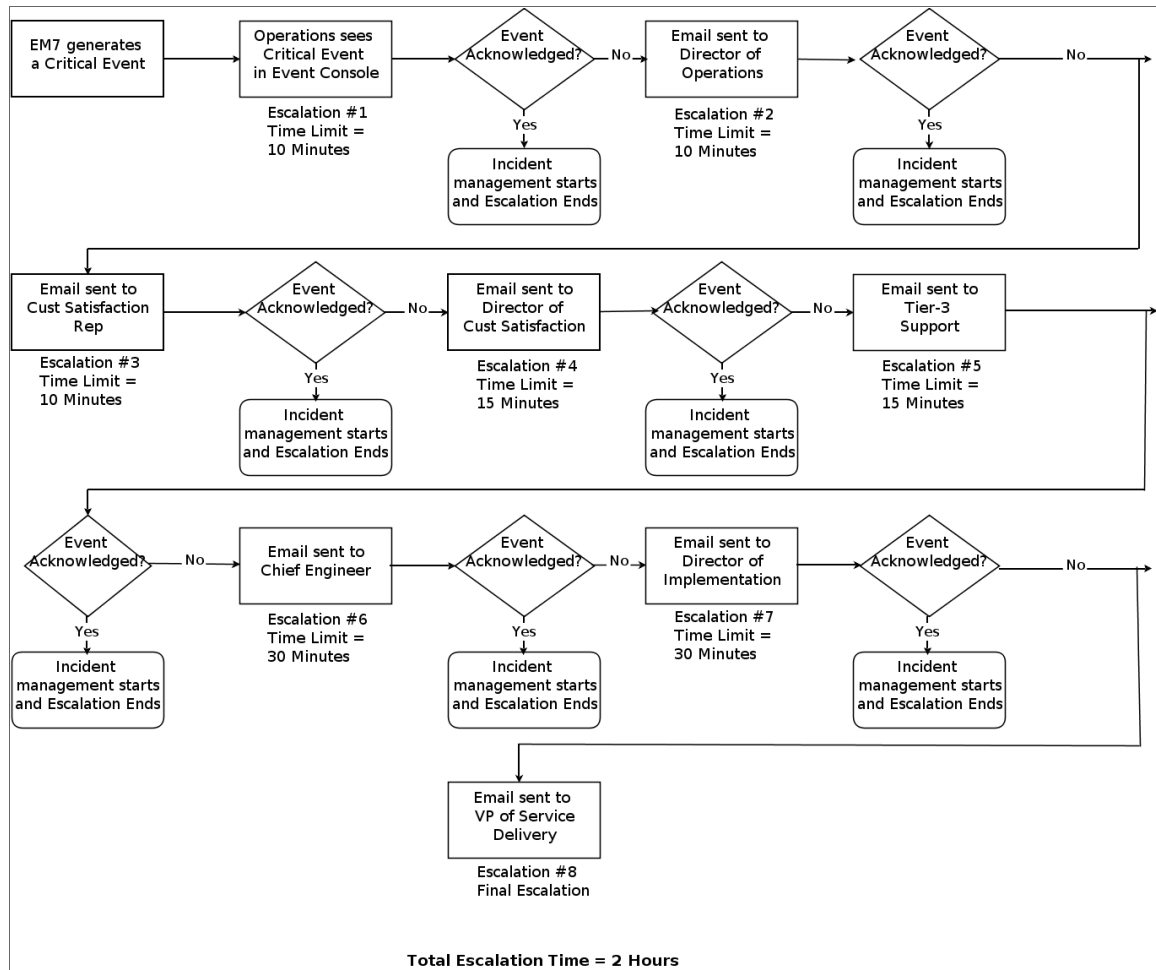
- To view a pop-out list of menu options, click the menu icon ()
- To view a page containing all of the menu options, click the Advanced menu icon ().

This chapter covers the following topics:

<i>Sample Escalation Process for Acknowledging Events</i>	12
<i>Sample Escalation Process for Clearing Events</i>	13
<i>Defining Escalation Policies</i>	14
<i>Example Escalation Policy for Event Acknowledgment</i>	14

Sample Escalation Process for Acknowledging Events

The following is a sample escalation process for acknowledging critical events:



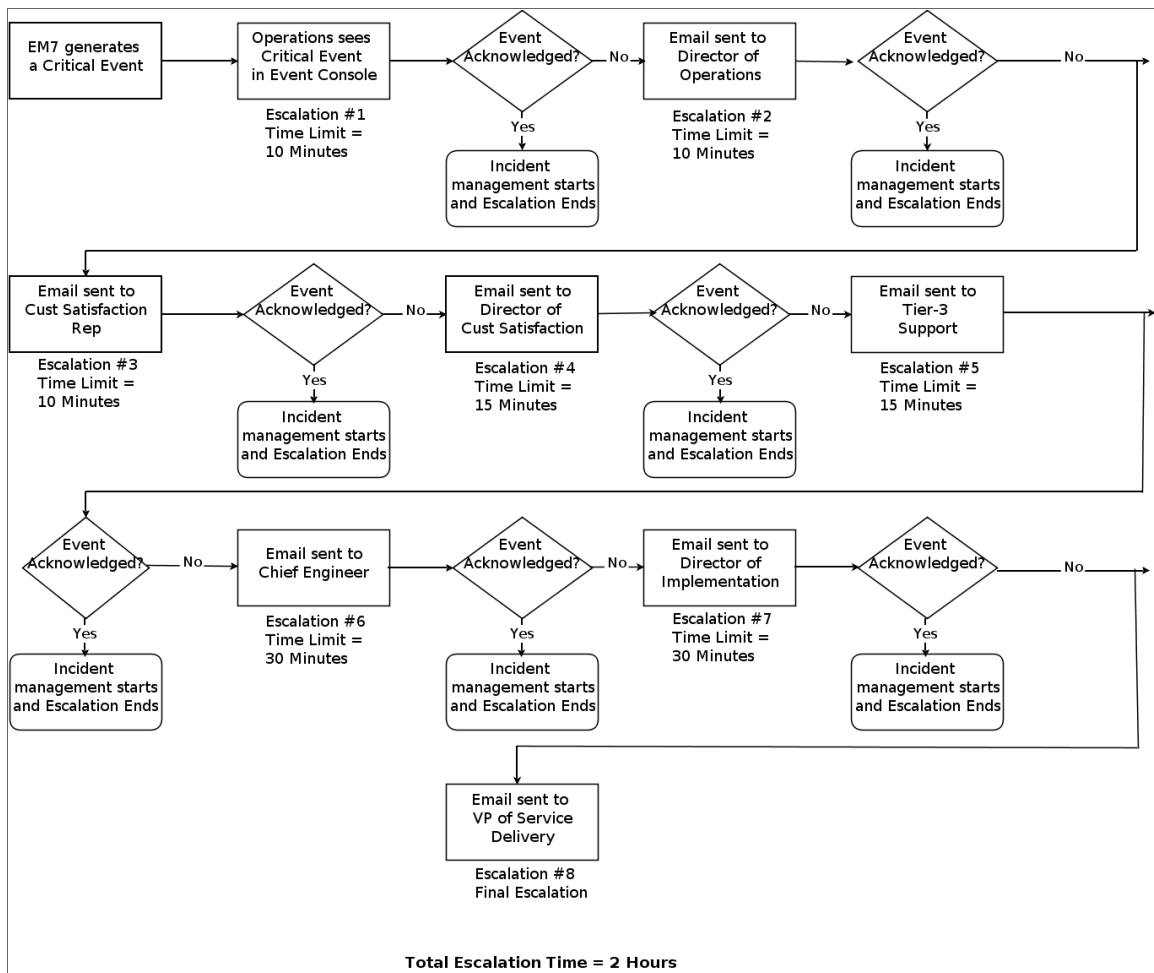
- **Escalation #1. Operations.** Events are initially handled by the Operations unit. If the Operations staff does not acknowledge a critical event within 10 minutes, the event escalates to the Director of Operations.
- **Escalation #2. Director of Operations.** If the Director of Operations does not acknowledge a critical event within 10 minutes, the event escalates to a Customer Satisfaction Representative.
- **Escalation #3. Customer Satisfaction Representative.** If the Customer Satisfaction Representative does not acknowledge a critical event within 10 minutes, the event escalates to the Director of Customer Service.
- **Escalation #4. Director of Customer Service.** If the Director of Customer Service does not acknowledge a critical event within 15 minutes, the event escalates to a Tier-3 Support Engineer.

- **Escalation #5. Tier-3 Support Engineer.** If the Tier-3 Support Engineer does not acknowledge a critical event within 15 minutes, the event escalates to the Chief Engineer.
- **Escalation #6. Chief Engineer.** If the Chief Engineer does not acknowledge a critical event within 30 minutes, the event escalates to the Director of Implementation.
- **Escalation #7. Director of Implementation.** If the Director of Implementation does not acknowledge a critical event within 30 minutes, the event escalates to the Vice President of Service Delivery.
- **Escalation #8. Vice President of Service Delivery.** This is the final escalation point.

For major and minor events, the escalation process is similar, except that the time limit for each escalation is longer than the escalations for critical events.

Sample Escalation Process for Clearing Events

The following is a sample escalation process for clearing critical events:



- **Escalation #1. Operations.** Events are initially handled by the Operations unit. If the Operations staff does not resolve a critical event within 10 minutes, the event escalates to the Director of Operations.
- **Escalation #2. Director of Operations.** If the Director of Operations does not resolve a critical event within 10 minutes, the event escalates to a Customer Satisfaction Representative.
- **Escalation #3. Customer Satisfaction Representative.** If the Customer Satisfaction Representative does not resolve a critical event within 10 minutes, the event escalates to the Director of Customer Service.
- **Escalation #4. Director of Customer Service.** If the Director of Customer Service does not resolve a critical event within 15 minutes, the event escalates to a Tier-3 Support Engineer.
- **Escalation #5. Tier-3 Support Engineer.** If the Tier-3 Support Engineer does not resolve a critical event within 15 minutes, the event escalates to the Chief Engineer.
- **Escalation #6. Chief Engineer.** If the Chief Engineer does not resolve a critical event within 30 minutes, the event escalates to the Director of Implementation.
- **Escalation #7. Director of Implementation.** If the Director of Implementation does not resolve a critical event within 30 minutes, the event escalates to the Vice President of Service Delivery.
- **Escalation #8. Vice President of Service Delivery.** This is the final escalation point.

For major and minor events, the escalation process is similar, except that the time limit for each escalation is longer than the escalations for critical events.

Defining Escalation Policies

SL1 includes the **Automation Policy Editor** and the **Action Policy Editor**, which allow you to define escalation policies based upon event severity, elapsed time, and event status (for example, event acknowledged, ticket assigned, event cleared). When specified conditions are met, SL1 automatically performs one or more actions. The action in this example notifies specified team members through email.

For details on defining automation, see the manual *Run Book Automation*.

Example Escalation Policy for Event Acknowledgment

This section shows how to use the **Automation Policy Editor** and **Action Policy Editor** to create an escalation policy for event acknowledgment.

Creating the Action Policy

Using the escalation processes from the section on [Sample Escalation Processes for Event Acknowledgment](#), you can first create an action policy that sends an email message to the Director of Operations.

To create this action policy:

1. Go to the **Action Policy Manager** page (Registry > Run Book > Actions):

Action Policy Manager | Actions Found [12] Create Reset Guide

	Action Name	Action Type	ID	Action State	Organization	Edit User	Edit Date	
1.	Cisco: ACI Device Class Realignment	Snippet	5	Enabled	System	em7admin	2017-05-02 12:26:31	
2.	Cisco: ACI Tenant Device Creation Action	Snippet	3	Enabled	System	em7admin	2017-05-02 12:26:31	
3.	Cisco: ACI Tenant Device Rename Action	Snippet	4	Enabled	System	em7admin	2017-05-02 12:26:31	
4.	Cisco: CSP Cluster Creation	Snippet	15	Enabled	System	em7admin	2017-04-14 11:31:49	
5.	Cisco: CSP Component to Physical Merge	Snippet	16	Enabled	System	em7admin	2017-04-14 11:31:49	
6.	Cisco: Hyperflex Device Class Realignment	Snippet	13	Enabled	System	em7admin	2017-03-20 09:42:33	
7.	EM7 Event Trap	SNMP Trap	1	Enabled	System	em7admin	2009-07-08 08:00:00	
8.	EM7 Ping Snippet	Snippet	2	Enabled	System	em7admin	2010-04-01 08:00:00	
9.	Microsoft: Windows Server Device Class Alignment	Snippet	6	Enabled	System	em7admin	2017-02-16 10:17:13	
10.	Microsoft: Windows Server Restart Automatic Service	Snippet	8	Enabled	System	em7admin	2017-02-16 10:17:44	
11.	UCS Director Device Class Realignment	Snippet	14	Enabled	System	em7admin	2017-04-14 11:32:08	
12.	Windows Restart Service	Snippet	7	Enabled	System	em7admin	2017-02-16 10:17:39	

[Select Action] [Go]

2. From the **Action Policy Manager** page, click the **[Create]** button. The **Action Policy Editor** page appears:

Policy Editor | Creating New Action Reset

Action Name: event_escalation_Dir_of_Ops Action State: [Enabled]

Description: Email to Director of Operations

Organization: [System] Action Type: Send an Email Notification

Email Subject: Not Acknowledge: %S Event: %M Email Priority: [Normal] Send as Plain Text

Email Body:

```
Severity: %S
First Occurred: %D
Last Occurred: %d
Occurrences: %c
Source: %Z
Organization: %O
Device: %X
```

Available Emails:

- bmarsalis: mjasper@sciencelogic.com
- dashboard_admin: mjasper@sciencelogic.com
- JeffJazz: mjasper@sciencelogic.com
- kennyg: kg@sciencelogic.com
- mikej: mj@sciencelogic.com
- mjasper: mjasper@sciencelogic.com
- [Marsalis, Wynton]: mr@sciencelogic.com
- [Minus Charles]: minor@sciencelogic.com

Assigned Emails:

- em7admin: mjasper@sciencelogic.com

Save

3. In the **Action Policy Editor** page, supply values in the following fields:

- **Action Name**. Type "event_escalation_Dir_of_Ops".
- **Description**. Type "Email to Director of Operations".

- **Action Type.** Select *Send an Email Notification*.
 - **Email Subject.** At the beginning of the field, type "Not Acknowledged: " and leave the other values in the field. The entire field should read "Not Acknowledged: %S Events: %M".
 - **Available Emails.** We selected the email address for our example Director of Operations, *em7admin:mjasper@sciencelogic.com*. If you want to see the emails that result from this action policy, you can select your own email address in this field. After selecting an email address, click the [**>>**] button to add it to the **Assigned Emails** field.
 - For all other fields, accept the default values.
5. Click the [**Save**] button to save the new action policy.

To create additional action policies for all the steps in section on [Sample Escalation Processes for Event Acknowledgment](#), perform the steps above, but supply the following values:

Action Name	Available Emails
event_escalation_CS_rep	Select the appropriate email address for a Customer Satisfaction Representative. If you want to see the emails that result from this action policy, you can select your own email address in this field.
event_escalation_Dir_of_CS	Select the appropriate email address for the Director of Customer Service.
event_escalation_tier3	Select the appropriate email address for a Tier-3 Support Representative.
event_escalation_chief_eng	Select the appropriate email address for a Chief Engineer.
event_escalation_Dir_of_Impl	Select the appropriate email address for a Director of Implementation.
event_escalation_VP_of_Service	Select the appropriate email address for a Vice President of Service Delivery.

Creating the Automation Policy

Using the escalation processes from the section on [Sample Escalation Processes for Event Acknowledgment](#), you can create an automation policy that sends an email to the Director of Operations when an event has not been acknowledged for 10 minutes.

To create this automation policy:

1. Go to the **Automation Policy Manager** page (Registry > Run Book > Automation):

Automation Policy Name	ID	Policy State	Policy Priority	Organization	Devices	Events	Actions	Edited By	Last Edited
1. Cisco: ACI Device Class Reassignment	3	Enabled	Default	System	All	1	1	em7admin	2017-05-02 12:28:31
2. Cisco: ACI Tenant Device Creation	1	Enabled	Default	System	All	1	1	em7admin	2017-05-02 12:28:31
3. Cisco: ACI Tenant Device Rename	2	Enabled	Default	System	All	1	1	em7admin	2017-05-02 12:28:31
4. Cisco: CSP Cluster Creation	11	Enabled	Default	System	All	1	1	em7admin	2017-04-14 11:31:49
5. Cisco: CSP Component to Physical Merge	12	Enabled	Default	System	All	1	1	em7admin	2017-04-14 11:31:49
6. Cisco: Hyperflex Device Class Reassignment	9	Enabled	Default	System	All	1	1	em7admin	2017-03-20 09:42:33
7. Microsoft: Windows Server Device Class Alignment	4	Enabled	Default	System	All	1	1	em7admin	2017-02-16 10:17:13
8. Start Microsoft Automatic Services	6	Enabled	Default	System	All	1	1	em7admin	2017-02-16 10:17:44
9. Start Required Windows Services	5	Enabled	Default	System	All	1	1	em7admin	2017-02-16 10:17:39
10. UCS Director Device Class Reassignment	10	Enabled	Default	System	All	1	1	em7admin	2017-04-14 11:32:08

2. Click the **[Create]** button. The **Automation Policy Editor** page appears:

Automation Policy Editor | Creating New Automation Policy [Reset]

Policy Name: event_not_acknowledge_10_minutes | Policy Type: [Active] | Policy State: [Enabled] | Policy Priority: [Default] | Organization: [System]

Criteria Logic: Severity = [Critical] | Match Logic: [Text search] | Match Syntax: []

and 10 minutes has elapsed | Repeat Time: [Only once] | Align With: [Devices]

[since the first occurrence,] | [] Trigger on Child Rollup | [] Include events for entities other than devices (organizations, assets, etc.)

Available Devices: Iowa Goldfinches, Cisco Systems: 4331 ISR: ISR-4331-RTR-01, Cisco Systems: Catalyst 4948: 4948-SW-01, Cisco Systems: Catalyst 4948: 4948-SW-02, Cisco TelePresence: Cisco TelePresence Manager: LAB-CTP-01, Cisco TelePresence: IX5000: SL-HQ-IX5000, Dell: OEM: idrac-3470CX1, Generc: SNMP: 172.16.32.55

Aligned Devices: (All devices)

Available Events: Critical: AKCP: AC Voltage sensor detects no current, Critical: AKCP: DC Voltage sensor High Critical, Critical: AKCP: DC Voltage sensor Low Critical, Critical: AKCP: Dry Contact Sensor Low Critical, Critical: AKCP: Smoke Detector Alert!, Critical: AKCP: Water Sensor has detected water, Critical: APC: Diagnostic Test Failed, Critical: APC: UPS Battery Capacity

Aligned Events: (All events)

Available Actions: Send Email: event_escalation_Dir_of_Ops, SNMP Trap: EM7 Event Trap, Snippet: Cisco: ACI Device Class Reassignment, Snippet: Cisco: ACI Tenant Device Creation Action, Snippet: Cisco: ACI Tenant Device Rename Action, Snippet: Cisco: CSP Cluster Creation, Snippet: Cisco: CSP Component to Physical Merge, Snippet: Cisco: Hyperflex Device Class Reassignment

Aligned Actions: 1. Send Email: event_escalation_Dir_of_Ops

[Save]

3. On the **Automation Policy Editor** page, supply the following values in the following fields:

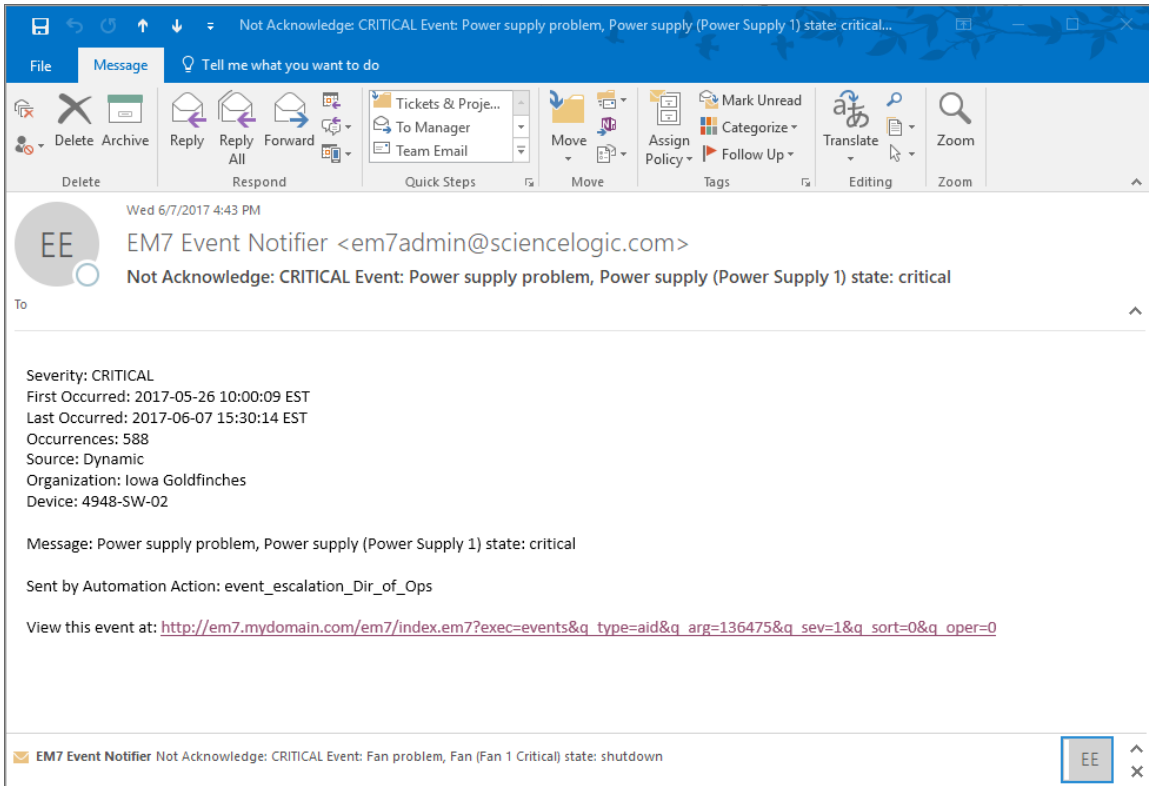
- **Policy Name.** Type "event_not_acknowledged_10_minutes".
 - **Organization.** Select System. This automation policy will act on all events in your SL1 system.
 - **Criteria Logic.** These fields specify the conditions that must be met before the system executes the action specified in the automation policy. All conditions must be met for at least one of the selected events on at least one of the selected devices.
 - *Severity Operator.* Select Severity =.
 - *Severity.* Select Critical.
 - *Elapsed time.* The length of time that must elapse after the event occurs but before the system evaluates the other criteria in the automation policy. Select *and 10 minutes has elapsed*.
 - *Status.* Event must have the specified status. Select *and event is NOT acknowledged*.
 - **Available Actions.** Select the action policy you defined in the [Creating the Action Policy](#) section, *Send Email: event_escalation_Dir_of_Ops*. Click on the [>>] button. The selected action policy will appear in the **Aligned Actions** field.
 - For all other fields, accept the default values.
4. Click the **[Save]** button to save the new automation policy. Now when an event occurs with a severity of Critical, on any device, and that event is not acknowledged within ten minutes, the system sends an email to the Director of Operations.

To create additional automation policies for all the steps in the section on [Sample Escalation Processes for Event Acknowledgment](#), perform the steps above, but supply the following values:

Policy Name	Elapsed Time	Available Actions
event_not_acknowledged_20_minutes	and 20 minutes have elapsed.	event_escalation_CS_rep
event_not_acknowledged_30_minutes	and 30 minutes have elapsed.	event_escalation_Dir_of_CS
event_not_acknowledged_45_minutes	and 45 minutes have elapsed.	event_escalation_tier3
event_not_acknowledged_60_minutes	and 1 hour has elapsed	event_escalation_chief_eng
event_not_acknowledged_90_minutes	and 1 hour 30 minutes has elapsed	event_escalation_Dir_of_Impl
event_not_acknowledged_120_minutes	and 2 hours has elapsed.	event_escalation_VP_of_Service

Example Email and Example Logs

When the system generates an event with a severity of "Critical" and the event is not acknowledged within 10 minutes, the system automatically sends an email, as defined in the example policy above.



In the **Event Console**, you can view the escalation actions by clicking the mail icon (✉) for a critical event:

Organization	Name	Type	Event Message	Severity	Acknowledged	Ticket	Age/Elapsed	Last Detected	ED	Source	Count	Notify
Iowa Goldfinches	4948-SW-01	Device	Power supply problem, Power supply (Power Supply 1) state: critical	Critical	✘	em7admin	1 wk 5 days	2017-06-08 09:30:09	136468	Dynamic	622	✉
Iowa Goldfinches	4948-SW-02	Device	Power supply problem, Power supply (Power Supply 1) state: critical	Critical	✘		1 wk 5 days	2017-06-08 09:30:09	136475	Dynamic	622	✉
Iowa Goldfinches	ISR-4331-RTR-01	Device	Fan problem, Fan (Fan 1 Critical) state: shutdown	Critical	✘		1 wk 5 days	2017-06-08 09:30:09	136470	Internal	5,737	✉
Iowa Goldfinches	10.64.68.31	Device	Device Failed Availability Check: ICMP Ping	Major	✘		2 wks 5 days	2017-06-08 09:52:23	127905	Internal	5,737	✉
Iowa Goldfinches	10.64.68.32	Device	Device Failed Availability Check: ICMP Ping	Major	✘		2 wks 5 days	2017-06-08 09:52:23	127908	Internal	5,737	✉
Iowa Goldfinches	172.16.32.55	Device	Port not responding to connection: Port http - 80 (IP: 172.16.32.55)	Major	✘		1 wk 5 days	2017-06-08 09:55:20	136422	Internal	5,737	✉
Iowa Goldfinches	LAB-CTP-01	Device	illicit process running: "tacosn" "F:\Microconnections.com"	Major	✘		1 wk 5 days	2017-06-08 09:54:08	136403	Internal	5,737	✉
Iowa Goldfinches	LAB-WIN2K3-0P2	Device	Device Failed Availability Check: UDP - SNMP	Major	✘		2 wks 5 days	2017-06-08 09:52:23	127904	Internal	5,737	✉
Iowa Goldfinches	SL-HQ-005000	Device	Front Left Mic is Down - Status is cableError	Major	✘		1 wk 5 days	2017-06-08 09:55:12	136420	Dynamic	3,723	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg01-2 Interface Transmit Error rate has exceeded threshold: 10%, currently 100%	Major	✘		4 hrs 55 mins	2017-06-08 09:45:12	155230	Dynamic	20	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg03-0 Interface Receive Error rate has exceeded threshold: 10%, currently 100%	Major	✘		40 mins 40 secs	2017-06-08 09:45:12	155536	Dynamic	3	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg01-2 Interface Receive Error rate has exceeded threshold: 10%, currently 100%	Major	✘		4 hrs 25 mins	2017-06-08 09:45:12	155257	Dynamic	18	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg04-3 Interface Transmit Error rate has exceeded threshold: 10%, currently 100%	Major	✘		25 mins 49 secs	2017-06-08 09:45:12	155545	Dynamic	2	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg04-1 Interface Transmit Error rate has exceeded threshold: 10%, currently 100%	Major	✘		12 hrs 10 mins	2017-06-08 09:45:12	154782	Dynamic	49	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg01-2 Interface Receive Error rate has exceeded threshold: 10%, currently 100%	Major	✘		10 hrs 40 mins	2017-06-08 09:45:12	154893	Dynamic	43	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg02-3 Interface Receive Error rate has exceeded threshold: 10%, currently 200%	Major	✘		3 hrs 40 mins	2017-06-08 09:45:12	155321	Dynamic	15	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec io Interface Receive Error rate has exceeded threshold: 10%, currently 100%	Major	✘		4 days 2 hrs	2017-06-08 09:45:12	149666	Dynamic	395	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg02-0 Interface Receive Error rate has exceeded threshold: 10%, currently 100%	Major	✘		9 hrs 25 mins	2017-06-08 09:45:12	154844	Dynamic	38	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec a00 Interface Transmit Error rate has exceeded threshold: 10%, currently 100%	Major	✘		3 hrs 25 mins	2017-06-08 09:45:12	155535	Dynamic	14	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg03-3 Interface Receive Error rate has exceeded threshold: 10%, currently 100%	Major	✘		8 hrs 40 mins	2017-06-08 09:45:12	155097	Dynamic	35	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg04-1 Interface Receive Error rate has exceeded threshold: 10%, currently 300%	Major	✘		2 hrs 55 mins	2017-06-08 09:45:12	155383	Dynamic	31	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec gpg04-0 Interface Transmit Error rate has exceeded threshold: 10%, currently 100%	Major	✘		2 hrs 10 mins	2017-06-08 09:45:12	155424	Dynamic	9	✉
Iowa Goldfinches	SL-HQ-005000	Device	Primary Codec opeg03-2 Interface Receive Error rate has exceeded threshold: 10%, currently 200%	Major	✘		18 hrs 40 mins	2017-06-08 09:45:12	154372	Dynamic	75	✉

The user interface displays the **Event Actions Log** page, where you can view a record of the escalation action:

Event Actions Log | For Event [136475] Refresh Guide

2017-06-07 16:42:12

Automation Policy event_not_acknowledged_10_minutes action event_escalation_Dir_of_Ops ran Successfully
Message: Sent email
Severity: CRITICAL
First Occurred: 2017-05-26 10:00:09 EST
Last Occurred: 2017-06-07 15:30:14 EST
Occurrences: 588
Source: Dynamic
Organization: Iowa Goldfinches
Device: 4948-SW-02
Message: Power supply problem, Power supply (Power Supply 1) state: critical
Sent by Automation Action: event_escalation_Dir_of_Ops
View this event at: http://em7.mydomain.com/em7/index.em7?exec=events&q_type=aid&q_arg=136475&q_sev=1&q_sort=0&q_oper=0
Result: {}

Chapter

4

Compliance

Overview

If your organization must comply with government regulations like HIPAA, Sarbanes-Oxley, or Gramm-Leach-Bliley, or if your organization is adopting standards like PCI DSS, CoBIT, ISO, or ITIL, you should take close note of the requirements for compliance when designing an escalation policy. Commonly, IT compliance requires scrutiny of:



- Risk Management
- Security
- Data Management
- Business Continuity and Disaster Recovery
- Incident Response
- Documentation and Audit Logs

A well-planned escalation policy can address all of these functional areas and aid with compliance.

SL1 centrally monitors and manages events and escalations. For compliance purposes, controls that are standardized, centrally administered, and repeatable encompass "best practices."

SL1 standardizes and automates the escalation workflow. Automated processes provide greater efficiencies and improved controls by minimizing vulnerabilities to fraud, user error, and malicious use. Because of this, automated processes greatly aid compliance efforts.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon ().
- To view a page containing all of the menu options, click the Advanced menu icon ().

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