

# Restorepoint Automation PowerPack

Version 100 (Document revision 1)

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# Chapter

1

# Introduction to the Restorepoint Automation PowerPack

#### Overview

This manual describes how to use the SL1 automation policies, automation actions, and custom action types found in the "Restorepoint Automation" PowerPack. You can use this PowerPack to enrich SL1 events for Restorepoint devices by automatically running diagnostic commands, and the command output is added to the SL1 event log or associated incident.

This PowerPack requires the "Datacenter Automation Utilities" PowerPack, version 103.

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### What is the Restorepoint Automation PowerPack?

The "Restorepoint Automation" PowerPack includes automation policies that enrich SL1 events for Restorepoint devices (for example, from the "Restorepoint" PowerPack) by automatically running diagnostic commands. The command output is added to the SL1 event log or associated incident.

The Restorepoint Automation actions are executed on the SL1 All-In-One Appliance or Data Collector.

In addition to using the standard content, you can use the content in the "Restorepoint Automation" PowerPack to:

- Create your own automation policies that include the pre-defined actions that run different sets of diagnostic commands.
- Use the supplied "Restorepoint: Generic Action type" custom action type to configure your own automation action by supplying a set of commands.

### Installing the Restorepoint Automation PowerPack

Before completing the steps in this manual, you must import and install the latest version of the "Restorepoint Automation" PowerPack.

IMPORTANT: You must install the "Datacenter Automation Utilities" PowerPack version 103 before using the "Restorepoint Automation" PowerPack.

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of that PowerPack that has already been installed on the target system. You can use the *Enable Selective PowerPack Field Protection* setting in the *Behavior Settings* page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the *System Administration* manual.)

To download and install the PowerPack:

- Search for and download the PowerPack from the PowerPacks page (Product Downloads > PowerPacks & SyncPacks) at the ScienceLogic Support Site.
- 2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
- 3. Click the [Actions] button and choose Import PowerPack. The Import PowerPack dialog box appears.
- 4. Click [Browse] and navigate to the PowerPack file from step 1.
- 5. Select the PowerPack file and click [Import]. The PowerPack Installer modal displays a list of the PowerPack contents.
- 6. Click [Install]. The PowerPack is added to the PowerPacks page.

**NOTE:** If you exit the **PowerPack Installer** modal without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPacks** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

#### Downloading and Compiling the Restorepoint MIB Files

After installing the PowerPack, you will need to download the following MIB files from Restorepoint and compile the MIB files in SL1:

- RESTOREPOINT-APPLIANCE-MIB.txt
- RESTOREPOINT-MIB.txt

You can access the Restorepoint MIB files from your Restorepoint system.

To download the MIB files in Restorepoint:

- 1. In your Restorepoint system, go to the **Systems Settings** page (Administration > System Settings).
- 2. Click the [SNMP] tab and navigate to the Download MIBs field.
- 3. Click both of the MIB file names to download them to your local drive.

To compile the Restorepoint MIB files in SL1:

- 1. Go to the MIB Compiler page (System > Tools > MIB Compiler) and click the [Import] button.
- 2. In the MIB Import modal page, navigate to the location of the MIB file on your local computer and click the [Import] button. The new MIB file appears in the list of MIB files in the MIB Compiler page.
- 3. Repeat steps 1-2 to upload the second MIB file.
- You must compile both MIB files before SL1 can use them. To compile a MIB, click its lightning bolt icon (
   ✓
- 5. To enable Restorepoint to send trap events to SL1, go to **Administration > System Settings > Logs/Alerts** in the Restorepoint user interface and change the following:
  - SNMP Traps: Check this checkbox.
  - SNMP Server: Enter the IP address of the SL1 All-In-One or Data Collector.

# Chapter

2

# **Restorepoint Automation Policies**

### Overview

This chapter describes how to use the automation policies, automation actions, and custom action types found in the "Restorepoint Automation" PowerPack.

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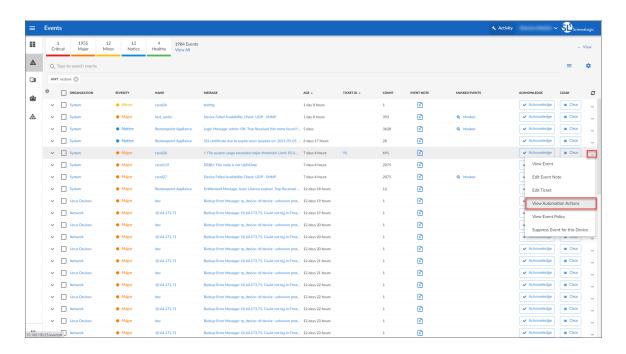
#### Standard Automation Policies

The "Restorepoint Automation" PowerPack includes one standard automation policy. This policy triggers three different automation actions that collect diagnostic data and formats an output. All of the automation actions use the custom action type "Restorepoint: Generic Action type", which is supplied in the PowerPack.

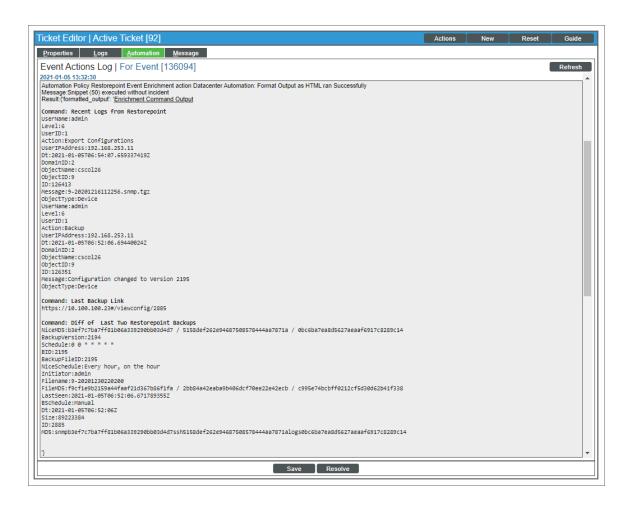
The following table shows the standard automation policy, the aligned events, and the automation actions that run in response to the events:

Automation Policy Name	Aligned Events	Automation Actions
Restorepoint Event Enrichment	All events in your SL1 system are aligned to this policy	<ul> <li>Restorepoint: Difference         Between Last Two Backups</li> <li>Restorepoint: Link to Last         Configuration Backup</li> </ul>
		Restorepoint: Recent Logs

The following figure shows a file system usage threshold exceeded event with major criticality on the **Events** page. Click the **[Actions]** button (—) for an event, and select *View Automation Actions* to see the automation actions triggered by the event.



The results shown for this event, in the **Event Actions Log**, include the executed automation policy (shown at the top of the following figure), along with the automation actions (commands). Results for each command are also displayed. The following figure shows an example of this output:



To learn more about which commands are executed by default for a given automation action, see *Customizing Actions*.

**TIP**: Although you can edit the automation policies described in this section, it is a best practice to use "Save As" to create a new automation policy, rather than to customize the standard automation policies.

# Chapter

3

# **Creating and Customizing Automation Policies**

### Overview

This chapter describes how to create automation policies using the automation actions in the "Restorepoint Automation" PowerPack.

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### Prerequisites

Before you create an automation policy using the automation actions in the "Restorepoint Automation" PowerPack, you must determine:

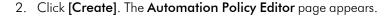
- Which set of commands you want to run on a monitored device when an event occurs. There are three
  automation actions in the PowerPack that run the "Restorepoint: Generic Action type" action type with
  different commands and output formats. You can also create your own automation actions using the
  custom action type supplied in the PowerPack.
- The event criteria you want to use to determine when the automation actions will trigger, or the set of rules that an event must match before the automation is executed. This can include matching only specific event policies, event severity, associated devices, and so on. For a description of all the options that are available in automation policies, see the **Run Book Automation** manual.

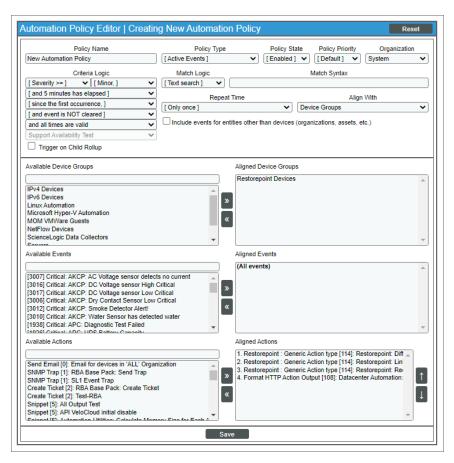
### Creating an Automation Policy

To create an automation policy that uses the automation actions in the "Restorepoint Automation" PowerPack, perform the following steps:

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

10 Prerequisites





- 3. Complete the following required fields:
  - *Policy Name*. Enter a name for the automation policy.
  - **Policy Type**. Select whether the automation policy will match events that are active, match when events are cleared, or run on a scheduled basis. Typically, you would select *Active Events* in this field.
  - **Policy State**. Specifies whether the policy will be evaluated against the events in the system. If you want this policy to begin matching events immediately, select *Enabled*.
  - **Policy Priority**. Specifies whether the policy is high-priority or default priority. These options determine how the policy is queued.
  - Organization. Select one or more organizations to associate with the automation policy. The automation policy will execute only for devices in the selected organizations (that also match the other criteria in the policy). To configure a policy to execute for all organizations, select System without specifying individual devices to align to.
  - Align With. Select Device Groups.
  - Aligned Device Groups. The "Restorepoint Devices" device group needs to be aligned. To add the device group to the Aligned Device Groups field, select the "Restorepoint Devices" device group in the Available Device Groups field and click the right arrow (>>).

Aligned Actions. This field includes the actions from the Restorepoint Automation Power Pack. To add
an action to the Aligned Actions field, select the action in the Available Actions field and click the
right arrow (>>). To re-order the actions in the Aligned Actions field, select an action and use the
up arrow or down arrow buttons to change that action's position in the sequence.

**NOTE**: You must have at least two Aligned Actions: one that runs the automation action and one that provides the output format. The actions providing the output formats are contained in the *Datacenter Automation Utilities* PowerPack, which is a prerequisite for running automations in this PowerPack.

NOTE: If you are selecting the "Difference Between Last Two Logs" or the "Restorepoint Recent Logs" collection actions, you may want to include the "Format Output as HTML" automation action, found in the Datacenter Automation Utilities PowerPack, in your automation policy.

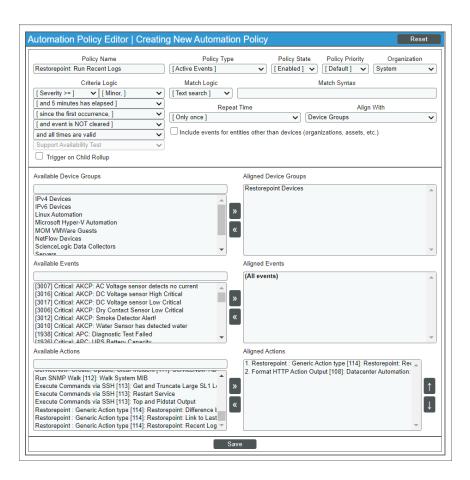
- 4. Optionally, supply values in the other fields on this page to refine when the automation will trigger.
- 5. Click [Save].

**NOTE**: You can also modify one of the automation policies included with this PowerPack. Best practice is to use the [Save As] option to create a new, renamed automation policy, instead of customizing the standard automation policies. For more information, see *Customizing an Automation Policy*.

**NOTE**: If you modify one of the included automation policies and save it with the original name, the customizations in that policy will be overwritten when you upgrade the PowerPack unless you remove the association between the automation policy and the PowerPack before upgrading.

### **Example Automation Configuration**

The following is an example of an automation policy that uses the automation actions in the "Restorepoint Automation" PowerPack:



The policy uses the following settings:

- Policy Name. The policy is named "Restorepoint: Run Recent Logs".
- Policy Type. The policy runs when an event is in an active state. Active Events is selected in this field.
- Policy State. Enabled is selected in this field. This policy is active and ready to use.
- Organization. The policy executes for the System organization.
- Criteria Logic. The policy is configured to execute immediately when an event matches these criteria:
   "Severity >= Notice, and no time has elapsed since the first occurrence, and event is NOT cleared, and all times are valid".
- Aligned With. The policy is configured to align with devices in the selected device group.
- **Aligned Device Groups**. The policy is configured to trigger for devices in the "Restorepoint Devices" device group.

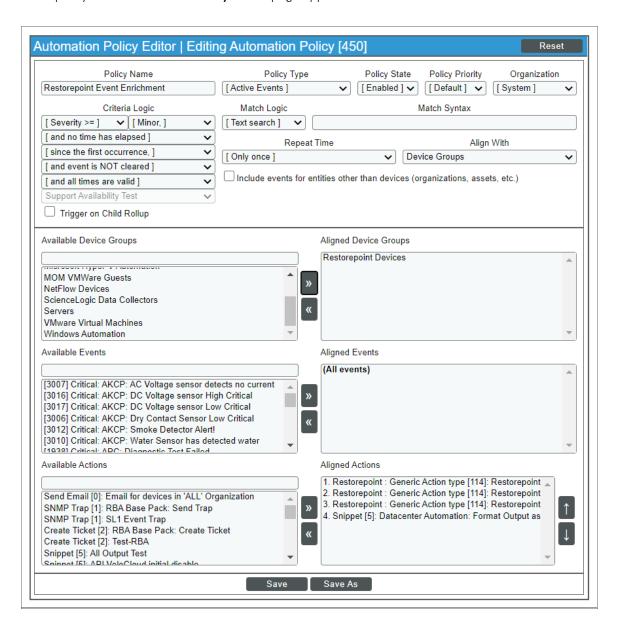
- Aligned Events. The policy is configured to trigger for All events.
- Aligned Actions. The automation includes the following actions. This action allows you to view the output of the diagnostic commands in the Automation Log, accessed through the SL1 Events page:
  - ° Restorepoint: Generic Action type [114]: Restorepoint: Recent Logs
  - ° Format HTTP Action Output [108]: Datacenter Automation: Format JSON as simple HTML

### Customizing an Automation Policy

To customize an automation policy:

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

2. Search for the Restorepoint Automation automation policy you want to edit and click the wrench icon ( for that policy . The Automation Policy Editor page appears:



- 3. Complete the following fields as needed:
  - Policy Name. Type a new name for the automation policy to avoid overwriting the default policy.
  - **Policy Type**. Select whether the automation policy will match events that are active, match when events are cleared, or run on a scheduled basis. Typically, you would select *Active Events* in this field.
  - **Policy State**. Specifies whether the policy will be evaluated against the events in the system. If you want this policy to begin matching events immediately, select *Enabled*.
  - **Policy Priority**. Specifies whether the policy is high-priority or default priority. These options determine how the policy is queued.

- Organization. Select the organization that will use this policy.
- Aligned Actions. This field includes the actions from the Restorepoint Automation PowerPack. You should see "Restorepoint" actions in this field. To add an action to the Aligned Actions field, select the action in the Available Actions field and click the right arrow (>>). To re-order the actions in the Aligned Actions field, select an action and use the up arrow or down arrow buttons to change that action's position in the sequence.

**NOTE**: You must have two Aligned Actions: one that runs the diagnostic or remediation commands and one that provides the output format. The actions providing the output formats are contained in the "Datacenter Automation Utilities" PowerPack, which is a prerequisite for running Restorepoint automations.

**NOTE:** If you are selecting the "Difference Between Last Two Logs" or the "Restorepoint Recent Logs" collection actions, you may want to include the "Format Output as HTML" automation action, found in the "Datacenter Automation Utilities" PowerPack, in your automation policy.

- 4. Optionally, supply values in the other fields on the **Automation Policy Editor** page to refine when the automation will trigger.
- 5. Click [Save As].

### Removing an Automation Policy from a PowerPack

After you have customized a policy from the "Restorepoint Automation" PowerPack, you might want to remove that policy from that PowerPack to prevent your changes from being overwritten if you update the PowerPack later. If you have the license key with author's privileges for a PowerPack or if you have owner or administrator privileges with your license key, you can remove content from a PowerPack.

To remove content from a PowerPack:

- 1. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
- 2. Find the "Restorepoint Automations" PowerPack. Click its wrench icon (🏲).
- 3. In the PowerPack Properties page, in the navigation bar on the left side, click Run Book Policies.
- 4. In the **Embedded Run Book Polices** pane, locate the policy you updated, and click the bomb icon ( ) for that policy. The policy will be removed from the PowerPack and will now appear in the bottom pane.

# Chapter

4

# **Configuring Device Credentials**

### Overview

This chapter describes how to configure the credentials required by the automation actions in the "Restorepoint Automation" PowerPack.

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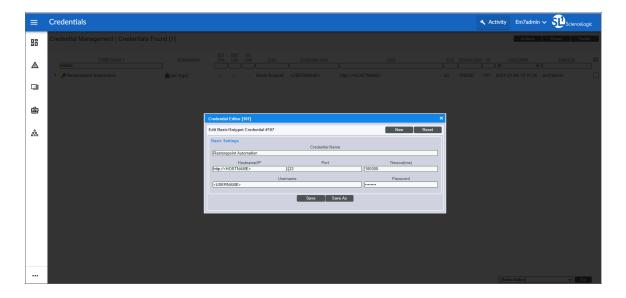
### Creating a Credential

To use the automation actions in the PowerPack to collect data from a device, you must create a Restorepoint credential that includes the hostname/IP address, username, and password for your Restorepoint system. The "Restorepoint Automation" PowerPack includes a "Restorepoint Automation" credential template that you can use to create your own credential to communicate with your Restorepoint devices.

**NOTE**: The "Restorepoint Automation" PowerPack uses one credential for all devices in your Restorepoint system. After you have created your Restorepoint Automation credential, you will need to modify the automation actions to update the credential ID parameter.

To create a Restorepoint Automation credential:

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- 2. Locate the RestorepointAutomation sample credential and click the wrench icon ( ). The Credential Editor modal page appears:



- 3. Enter values in the following fields:
  - Credential Name. Enter a new name for your Restorepointcredential.
  - Hostname/IP. Enter the URL for the Restorepoint device.
  - Port. Enter the port number associated with the data you want to retrieve. The default TCP port for SSH servers is 22.
  - *Timeout(ms)*. Enter a timeout, in milliseconds, for the connection.
  - Username. Enter the username for a user account on the Restorepoint device to be monitored.
  - Password. Enter the password for the user you entered in the Username field.

#### 4. Click [Save As].

For more information about configuring credentials in SL1, see the  $\emph{Discovery}$  and  $\emph{Credentials}$  manual .

Creating a Credential

# Chapter

5

# **Customizing Restorepoint Actions**

### Overview

This manual describes how to customize the automation actions embedded in the "Restorepoint Automation" PowerPack to create automation actions to meet your organization's specific requirements.

For more information about creating automation policies using custom action types, see **Creating and Customizing Automation Policies**.

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### Creating a Custom Action Policy

You can use the "Restorepoint: Generic Action type" action type included with the "Restorepoint Automation" PowerPack to create custom automation actions that you can then use to build custom automation policies.

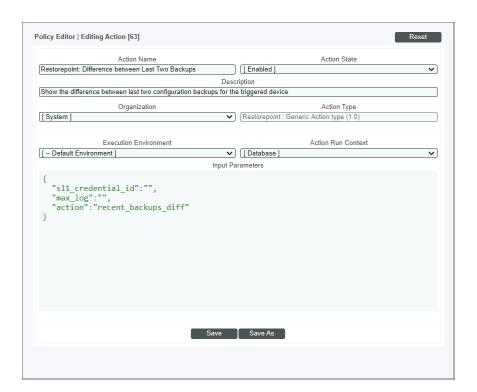
To create a custom action policy using the "Restorepoint: Generic Action type" action type:

- 1. Navigate to the **Action Policy Manager** page (Registry > Run Book > Actions).
- 2. In the Action Policy Manager page, click the [Create] button.
- 3. The Action Policy Editor modal appears.
- 4. In the Action Policy Editor page, supply a value in each field:
  - Action Name. Specify the name for the action policy.
  - Action State. Specifies whether the policy can be executed by an automation policy (enabled) or cannot be executed (disabled).
  - Description. Allows you to enter a detailed description of the action.
  - Organization. Organization to associate with the action policy.
  - Action Type. Type of action that will be executed. Select the "Restorepoint: Generic Action type" action type (highlighted in the figure above).
  - **Execution Environment**. Select from the list of available Execution Environments. The default execution environment is System.
  - Action Run Context. Select Database or Collector as the context in which the action policy will run.
  - Input Parameters. A JSON structure that specifies each input parameter. Each parameter definition includes its name, data type, and whether the input is optional or required for this Custom Action Type. Input parameters must be defined as a JSON structure, even if only one parameter is defined.
- 5. Click [Save]. If you are modifying an existing action policy, click [Save As]. Supply a new value in the **Action Name** field, and save the current action policy, including any edits, as a new policy.

### **Customizing Automation Actions**

The "Restorepoint Automation" PowerPack includes 3 automation actions that use the "Restorepoint: Generic Action type" action type to request diagnostic information or remediate an issue. You can specify the host and the options in a JSON structure that you enter in the *Input Parameters* field in the **Action Policy Editor** modal.

**NOTE:** The run book automations only work against devices that have the Restorepoint ID custom attribute, which is automatically set when a device is synchronized from SL1 to Restorepoint. The automation actions share formatting actions with the *Datacenter Automation Pack*, so the output can be sent to Restorepoint using the same customization steps.



The following automation actions that use the "Restorepoint: Generic Action type" action type are included in the PowerPack. Compare the commands run with the example in the image above.

Action Name	Description	Commands Run
RestorepointRecent Logs	Collects the last number of logs for the device associated with the triggering event. The number of logs is configurable.	<ul><li>sl1_credential_id</li><li>max_log</li><li>action</li></ul>
Link to Configuration Backup	Creates a link to the Restorepoint UI that displays the last configuration backup from the device associated with the triggering event.	<ul><li>sl1_credential_id</li><li>action</li></ul>
Difference between Last Two Backups	Collects the difference between the last two configuration backups for the device associated with the triggering event.	<ul><li>sl1_credential_id</li><li>action</li></ul>

**TIP**: For more information about substitution variables, see Appendix A.

### Creating a New Restorepoint Automation Action

You can create a new automation action or you can also use the existing automation actions in the PowerPack as a template by using the [Save As] option.

The automation actions accept the following parameters in JSON:

Parameter	Input type	Description
sl1_credential_id	integer	The ID of the credential to use when running the command. The credential connects to the Restorepoint API to gather data.
max_log	integer	The number of log entries to collect from Restorepoint.
action	string	The data to collect from Restorepoint. There are three support values for this parameter:  • get_logs: The most recent logs associated with the Restorepointdevice. The number of logs is configurable with the max_log parameter.
		last_backup_link: The URL of the last backup performed in Restorepoint for the selected device.
		<ul> <li>recent_backups_diff: The difference between the last two backups performed in Restorepoint for the selected device.</li> </ul>

**Using Substitution Values**. The command input can contain substitution values that match the keys in EM7\_VALUES.

TIP: For more information about substitution variables, see Appendix A.

For a description of all options that are available in Automation Policies, see the *Run Book Automation* manual.

# **Appendix**



### **Run Book Variables**

### Overview

This appendix defines the different variables you can use when creating an action policy.

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 appendix covers the following topics:

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You can include variables when creating an action policy. These variables are listed in the table below.

- In an action policy of type **Send an Email Notification**, you can include one or more of these variables in the fields **Email Subject** and **Email Body**.
- In an action policy of type **Send an SNMP Trap**, you can include one or more of these variables in the **Trap OID** field, **Varbind OID** field, and the **Varbind Value** field.
- In an action policy of type **Create a New Ticket**, you can include one or more of these variables in the **Description** field or the **Note** field of the related Ticket Template.
- In an action policy of type **Send an SNMP Set**, you can include one or more of these variables in the **SNMP OID** field and the **SNMP Value** field.
- In an action policy of type Run A Snippet, you can access variables from the global dictionary EM7\_ VALUES.
- In a policy of type **Execute an SQL Query**, you can include one or more of these variables in the **SQL Query** field.

Variable	Source	Description
%A	Account	Username
%N	Action	Automation action name
%g	Asset	Asset serial
%h	Asset	Device ID associated with the asset
%i (lowercase "eye")	Asset	Asset Location
%k	Asset	Asset Room
%K	Asset	Asset Floor
%P	Asset	Asset plate
%р	Asset	Asset panel
%q	Asset	Asset zone
%Q	Asset	Asset punch
%U	Asset	Asset rack
%u	Asset	Asset shelf
%v	Asset	Asset tag
%w	Asset	Asset model
%W	Asset	Asset make
%m	Automation	Automation policy note
%n	Automation	Automation policy name
%F	Dynamic Alert	Alert ID for a Dynamic Application Alert
%l (uppercase	Dynamic Alert	For events with a source of "dynamic", this variable contains the index value

Variable	Source	Description
"eye")		from SNMP. For events with a source of "syslog" or "trap", this variable contains the value that matches the <i>Identifier Pattern</i> field in the event definition.
%T	Dynamic Alert	Value returned by the Threshold function in a Dynamic Application Alert.
%V	Dynamic Alert	Value returned by the Result function in a Dynamic Application Alert.
%L	Dynamic Alert	Value returned by the label variable in a Dynamic Application Alert.
%a	Entity	IP address
%_category_id	Entity	Device category ID associated with the entity in the event.
%_category_ name	Entity	Device category name associated with the entity in the event.
%_class_id	Entity	Device class ID associated with the entity in the event.
%_class_name	Entity	Device class description associated with the entity in the event.
%_parent_id	Entity	For component devices, the device ID of the parent device.
%_parent_name	Entity	For component devices, the name of the parent device.
%_root_id	Entity	For component devices, the device ID of the root device.
%_root_name	Entity	For component devices, the name of the root device.
%1 (one)	Event	Entity type. Possible values are:  • 0. Organization  • 1. Device  • 2. Asset  • 4. IP Network  • 5. Interface  • 6. Vendor  • 7. Account  • 8. Virtual Interface  • 9. Device Group  • 10. IT Service  • 11. Ticket
%2	Event	Sub-entity type. Possible values for organizations are:

Variable	Source	Description
		• 7. Interface
		• 9. Process
		• 10. Port
		• 11. Service
		• 12. Content
		• 13. Email
%4	Event	Text string of the user name that cleared the event.
%5	Event	Date/time when event was deleted.
%6	Event	Date/time when event became active.
%7	Event	Event severity (1-5), for compatibility with previous versions of SL1. 1=critical, 2=major, 3=minor, 4=notify, 5=healthy.
		NOTE: When referring to an event, %7 represents severity (for previous versions of SL1). When referring to a ticket, %7 represents the subject line of an email used to create a ticket.
%с	Event	Event counter
%d	Event	Date/time when last event occurred.
%D	Event	Date/time of first event occurrence.
%e	Event	Event ID
%H	Event	URL link to event
%M	Event	Event message
%s	Event	severity (0 - 4). 0=healthy, 1=notify, 2=minor, 3=major, 4=critical.
%S	Event	Severity (HEALTHY - CRITICAL)
%_user_note	Event	Current note about the event that is displayed on the <b>Events</b> page.
%x	Event	Entity ID
%X	Event	Entity name
%у	Event	Sub-entity ID
%Y	Event	Sub-entity name
%Z	Event	Event source (Syslog - Group)
%z	Event	Event source (1 - 8)
%_ext_ticket_ref	Event	For events associated with an external Ticket ID, this variable contains the external Ticket ID.
%3	Event Policy	Event policy ID
%E	Event Policy	External ID from event policy
%f	Event Policy	Specifies whether event is stateful, that is, has an associated event that will clear the current event. 1 (one)=stateful; 0 (zero)=not stateful.

Variable	Source	Description
%G	Event Policy	External Category
%R	Event Policy	Event policy cause/action text
%_event_policy_ name	Event Policy	Name of the event policy that triggered the event.
%B	Organization	Organization billing ID
%b	Organization	Impacted organization
%C	Organization	Organization CRM ID
%o (lowercase "oh")	Organization	Organization ID
%O (uppercase "oh")	Organization	Organization name
%r	System	Unique ID / name for the current SL1 system
%7	Ticket	Subject of email used to create a ticket. If you specify this variable in a ticket template, SL1 will use the subject line of the email in the ticket description or note text when SL1 creates the ticket.
		NOTE: When referring to a ticket, %7 represents the subject line of an Email used to create a ticket. When referring to an event, %7 represents severity (for previous versions of SL1).
%t	Ticket	Ticket ID
%J	Ticket	Description field from the SL1 ticket.

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