

IT Services

ScienceLogic Version 8.7.1

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Chapter

What Are IT Services?

Overview

An IT Service is a technical service that is provided to internal or external customers. Some examples of IT Services include Internet access, website hosting, server co-location, remote backups, and remote storage. Usually an IT Service includes an associated Service Level Agreement (SLA) that specifies the terms of the service.

An IT Service policy allows you to define an IT Service, specify the devices that are included in the IT Service, and monitor the state, availability, and risk of the IT Service. The ScienceLogic platform evaluates the current state, availability, and risk of an IT Service based on user-defined metrics that trigger user-defined events about the IT Service. You can define how often the platform evaluates the state, availability, and risk of each IT Service. When the platform evaluates the state of an IT Service, the platform generates a default event that specifies the state of the IT Service.

You can define metrics based on any performance data collected by the ScienceLogic platform, including device availability, device latency, CPU usage, memory usage, swap usage, interface utilization, data collected by a Dynamic Application, and data about network interfaces, TCP/IP ports, system processes, Windows services, email round-trip time, web-content, SOAP/XML transactions, and DNS availability. You can specify that the platform should evaluate the metric against all devices in the IT service or against one or more subsets in the IT service.

When the ScienceLogic platform evaluates a metric, it performs an aggregation, that is, the platform evaluates the data for all devices specified in the definition of the metric, over a specified time period (the **Aggregation Frequency**). Depending on the definition of the metric, the platform can calculate the average, maximum, minimum, sum, or standard deviation.

You can also create dashboards for IT Services that display information about the state, availability, risk, events, metrics, and other information about an IT Service. IT Service dashboards are defined in the **IT Service Dashboards** page (Registry > IT Services > IT Service Dashboards).

To define an IT Service policy in the ScienceLogic platform, you must perform the following tasks:

- Define a service name and basic settings. For example, we could define an IT Service policy that monitors Email service. We could call this IT Service "Email". The basic settings for an IT Service include how often the ScienceLogic platform will evaluate the state, availability, and risk of the IT Service and the data retention settings for the metrics associated with the IT Service.
- 2. Define a list of devices (the model) for the IT Service that includes all the devices associated with the IT Service. For example, if you want to monitor Email service, you could create a device group that includes Exchange servers, DNS servers, and devices that run Email round-trip policies. You can manually assign devices to the IT Service, or you can use membership rules, like you would for a dynamic device group.
- Optionally, define device subsets. You can manually assign devices to a subset, or you can use membership rules, like you would for a dynamic device group. For example, you could define two subsets: Exchange Servers, defined by device class, and DNS servers, defined by the ports that are open on each device.
- 4. Define metrics. A metric is based on your business processes and examines all devices or one or more subsets to evaluate the state of the IT Service. For each IT Service, the ScienceLogic platform provides a default metric called Average Device Availability, based on the availability of all devices in the IT Service. You can define additional metrics, based on any performance data collected by the platform, including availability, latency, CPU usage, memory usage, swap usage, interface utilization, data collected by a Dynamic Application, and data about network interfaces, TCP/IP ports, system processes, Windows services, Email round-trip time, web content, SOAP/XML transactions, and DNS availability. You can specify that the platform should evaluate the metric against all devices in the IT Service or against one or more subsets in the IT Service.
- 5. **Define Key Metrics.** Key Metrics are the standard method for describing the status of an IT Service. Key metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services require very different metrics that aggregate very different performance data. The Key Metrics are Health, Availability, and Risk. When you define a Key Metric, you are specifying how the value for a metric you created in step 4 translates to one of the standard Key Metric values. By default, all three Key Metrics are based on the default Average Device Availability metric.
- 6. **Define alerts and associated events**. Each alert and its associated event is triggered by a metric. Although not all metrics must trigger an alert, all alerts and events for an IT Service are triggered by a metric.

Who Should Read this Manual?

The following sections are intended for users who define policies and users who monitor IT Services.

The following sections explain how to define a policy to monitor an IT Service, how to view information about an IT Service in the ScienceLogic platform, and how to create IT Service Dashboards.

Chapter

Z

Creating, Editing, and Deleting IT Services

Overview

To define an IT Service policy in the ScienceLogic platform, you must perform the following tasks:

- Define a service name and basic settings. For example, we could define an IT Service policy that monitors Email service. We could call this IT Service "Email". The basic settings for an IT Service include how often the ScienceLogic platform will evaluate the state, availability, and risk of the IT Service and the data retention settings for the metrics associated with the IT Service.
- Define a list of devices (the model) for the IT Service that includes all the devices associated with the IT Service. For example, if you want to monitor Email service, you could create a device group that includes Exchange servers, DNS servers, and devices that run Email round-trip policies. You can manually assign devices to the IT Service, or you can use membership rules, like you would for a dynamic device group.
- Optionally, define device subsets. You can manually assign devices to a subset, or you can use membership rules, like you would for a dynamic device group. For example, you could define two subsets: Exchange Servers, defined by device class, and DNS servers, defined by the ports that are open on each device.
- 4. Define metrics. A metric is based on your business processes and examines all devices or one or more subsets to evaluate the state of the IT Service. For each IT Service, the ScienceLogic platform provides a default metric called Average Device Availability, based on the availability of all devices in the IT Service. You can define additional metrics, based on any performance data collected by the platform, including availability, latency, CPU usage, memory usage, swap usage, interface utilization, data collected by a Dynamic Application, and data about network interfaces, TCP/IP ports, system processes, Windows services, Email round-trip time, web content, SOAP/XML transactions, and DNS availability. You can specify that the platform should evaluate the metric against all devices in the IT Service or against one or more subsets in the IT Service.

- 5. **Define Key Metrics.** Key Metrics are the standard method for describing the status of an IT Service. Key metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services require very different metrics that aggregate very different performance data. The Key Metrics are Health, Availability, and Risk. When you define a Key Metric, you are specifying how the value for a metric you created in step 4 translates to one of the standard Key Metric values. By default, all three Key Metrics are based on the default Average Device Availability metric.
- 6. **Define alerts and associated events**. Each alert and its associated event is triggered by a metric. Although not all metrics must trigger an alert, all alerts and events for an IT Service are triggered by a metric.

This chapter will describe:

- All the steps for creating an IT Service.
- Scheduling Downtime for an IT Service.
- Editing an IT Service Policy.
- Deleting an IT Service Policy.

Prerequisites

To create an IT Service policy, you should first determine:

- the devices that affect the service.
- the conditions that you want to monitor. These will be based upon your business processes. For example, if you provide Email service, then a failure of your primary SMTP server and backup SMTP server would constitute a critical state.

Basic Mode and Advanced Mode

When you define the **basic properties for an IT Service policy**, you can specify **Configuration Mode**. Choices are:

- Basic Interface. The Basic Interface allows you to quickly set up an IT Service policy.
- Advanced Interface. The Advanced Interface displays additional tabs for more granular control when defining metrics, alerts, and device groups.

If you are unsure, you can select **Basic Interface** and use the **[Advanced]** button to change to **Advanced Interface** if necessary. You can use the **[Advanced]** button from any sub-tab in the **IT Service Editor** page to toggle between **Basic Interface** and **Advanced Interface**.

Sub-tabs

To create or edit an IT Service policy, you must access the **IT Service Editor** page (Registry > IT Services > IT Service Manager > Create).

The IT Service Editor page includes the following sub-tabs, in the upper-left, under the page title:

Summary Model Logs	Events Tickets Administration	
IT Service Editor New IT Service		Reset Guide
Properties Model Metrics Schedule		Advanced
IT Service Name		Permissions Icon
	Private (visible to you only)	
IT Service Owner		ision Keys
em7admin	Change Owner EM7 System Administration Grant All	- <u>S</u>
Configuration Mode Basic Interface	Basic User Privileges Power-Pack Administration	=
	Provisioning Access Admin Portal UI Access IT Services	
Data Collection		
Operational Status	Aggregation Frequency	Raw Data Retention
Aggregation enabled	Every 15 minutes	✓ Use system default retention setting
Frequent Rollup Retention	Hourly Rollup Retention	Daily Rollup Retention
Use system default retention setting	Use system default retention setting	▼ Use system default retention setting
Description		
	Save	
L		

NOTE: The editing mode (either Basic Interface or Advanced Interface) affects the sub-tabs that appear.

- Properties. This sub-tab appears in both the Basic Interface mode and the Advanced Interface mode. This sub-tab allows you to define the basic parameters (name, access permissions, collection frequency, data retention) for an IT Service policy. For details, see the section on Defining the Basic Properties of an IT Service Policy.
- Model. This sub-tab appears in both the **Basic Interface** mode and the **Advanced Interface** mode. This tab allows you to define the list of devices (device group) to include in an IT Service policy and also allows you to define Device Subsets (smaller groups of devices within the device group), and Dependencies (relationship between one or more IT Service policies). For details, see the section on Defining Device Groups, Subsets, and Dependencies.

- **Collection**. This sub-tab appears only in the **Advanced Interface** mode. This sub-tab allows you to fine-tune the collection and aggregation for each metric. For details, see the section on **Editing Collection and** Aggregation for a Metric in Advanced Mode.
- Metrics. This sub-tab appears in both the Basic Interface mode and the Advanced Interface mode. This sub-tab allows you to define the performance parameters you want to monitor for a specific IT Service and also define alerts for that parameter. For example, you might want to monitor the availability of the DNS service on each DNS server and send an alert if the DNS service is not available. For details, see the section on Defining Metrics.
- Alerting. This sub-tab appears only in the Advanced Interface mode. This sub-tab allows you to add details to an existing alert. For details, see the section on Editing Alerts and Events in Advanced Mode.
- Schedule. This sub-tab appears in both the Basic Interface mode and the Advanced Interface mode. This sub-tab allows you to put the IT Service policy into "maintenance mode". The ScienceLogic platform will continue to collect information from the devices in the IT Service but will not collect and aggregate information specific to the IT Service policy. During maintenance mode, the ScienceLogic platform will not evaluate or generate events about the IT Service policy. For details, see the section on Scheduling Downtime for One or More Devices in an IT Service.

The following additional fields appear when you select Advanced Interface:

- In the Model sub-tab, the following additional panes appear in Advanced Interface mode:
 - Service Dependencies. A dependency is another IT Service policy.
 - Device Subsets. A sub-group of devices, selected from the list of all devices in the IT Service policy. You can manually assign devices to a subset, or you can use membership rules, like you would for a dynamic device group. For example, you could define a list of Exchange Servers, defined by device class, and then you could define a subset of unhealthy Exchange Servers, based on device state.
- In the *Metrics* sub-tab, when you edit an existing metric (select the wrench icon \checkmark), the **Service Metric Editor** modal page appears.
 - In Advanced mode, the Service Metric Editor modal page allows you to define a formula for the metric, using aggregation objects and arithmetic operators (for example, devices running DNS service / devices available). In Advanced mode, you can define a metric using a page like the one for alert objects or presentation objects.
 - In Advanced mode, you must separately edit the collection object (defines data to collect and devices to collect from), the aggregation object (defines how frequently to "crunch" collected data and what to calculate from crunched data), and the alert. You cannot edit the metric, its objects, and its alerts from a single page, like you can in Basic mode. To edit the collection object and the aggregation object, select the *Collection* sub-tab. To edit the alert, select the *Alerting* sub-tab

Defining the Basic Properties of an IT Service Policy

To define the basic properties of an IT Service policy:

- 1. Go to the IT Service Manager page (Registry > IT Services > IT Service Manager).
- 2. Select the [Create] button.
- Notice that by default the [Administration] tab is selected and the [Properties] sub-tab is selected. The IT Service Editor page is displayed:

Summary Model Logs Event	s Tickets Administration	
IT Service Editor New IT Service		Reset Guide
Properties Model Metrics Schedule		Advanced
IT Service Name		aring Permissions Icon
	Private (visible to you only)	
IT Service Owner	Change Owner EM7 System Administration	Permission Keys
Configuration Mode	Grant All	
Basic Interface	Basic User Privileges PowerPack Administration	
	Provisioning Access Admin Portal UI Access	
	Subscription Management	÷
Data Collection		
Operational Status	Aggregation Frequency	Raw Data Retention
	Every 15 minutes	Use system default retention setting
Hourly Rollup Retention	Daily Rollup Retention Jse system default retention setting	~
	ase ayatem denduk retenkon actung	×
Description		
	Save	

- 4. To create a new IT Service policy, supply values in the following fields:
 - IT Service Name. Name of the IT Service policy.
 - IT Service Owner. Automatically populated with your username.
 - Change Owner. The [Change Owner] button allows the user to change the owner of an IT Service. Selecting the [Change Owner] button opens the Select IT Service Owner modal page where a new owner can be chosen by selecting the blocks icon (). The owner of an IT Service policy and the Sharing Permissions setting defines the users that can view and use the IT Service policy.

- Configuration Mode. Select Basic Interface or Advanced Interface.
 - The Basic Interface allows you to quickly setup an IT Service policy.
 - The Advanced Interface displays additional tabs, for more granular control when defining metrics, alerts, and device groups.
 - If you are unsure, you can select *Basic Interface* and use the **[Advanced]** button to change to *Advanced Interface* if necessary. By default, each tab in the **IT Service Editor** page will use the configuring mode you select in this field. However, you can change the configuration mode for each individual tab.
- Sharing Permissions. Specifies whether other users can view and use the IT Service policy, in both the IT Service Manager page, IT Service Editor page, and in the pages in the ScienceLogic platform where the IT Service is visible. Choices are:
 - Shared with users in your organization. The IT Service policy can be viewed and used by other users who belong to the same organization as the owner.
 - *Private (visible only to you)*. The IT Service policy can be viewed only by the owner and Administrator users.
- **Permission Keys**. If you selected Shared with users in your organization in the **Sharing Permissions** field, you can specify the required Permission Keys that an user must have to view the IT Service policy.
- Operational Status. Specifies whether aggregation is enabled or disabled.
- Aggregation Frequency. Frequency at which the ScienceLogic platform will collect data from all devices in the IT Service and "crunch" the data for each metric into a single value.
- **Raw Data Retention**. Specifies how long the ScienceLogic platform should store the raw data for the IT Service policy. You can accept the default, system-wide setting from the **Data Retention Settings** page (System > Settings > Data Retention) or you can specify a custom value that applies only to this IT Service policy. The custom value will override the system-wide value.
- Hourly Rollup Retention. Specifies how long the ScienceLogic platform should store the "hourly" normalized data for the IT Service policy. You can accept the default, system-wide setting from the Data Retention Settings page (System > Settings > Data Retention) or you can specify a custom value that applies only to this IT Service policy. The custom value will override the system-wide value.
- Daily Rollup Retention. Specifies how long the ScienceLogic platform should store the "daily" normalized data for the IT Service policy. You can accept the default, system-wide setting from the Data Retention Settings page (System > Settings > Data Retention) or you can specify a custom value that applies only to this IT Service policy. The custom value will override the system-wide value.
- **Description**. Description of the IT Service policy.
- 5. Select the [Save] button to save the properties for the new IT Service policy.

Creating a New IT Service Based on an Existing IT Service

To define a new IT Service based on an existing IT Service, perform the following steps:

- 1. Go to the IT Service Manager page (Registry > IT Services > IT Service Manager).
- 2. In the **IT Service Manager** page, find the IT Service you want to use as a template to create a new IT Service. Select its wrench icon (*P*).
- 3. In the IT Service Editor page, supply a new value in the IT Service Name field.

CAUTION: If you do not enter a new value in the *IT Service Name* field, the ScienceLogic platform will save the new IT Service under the same name as the existing IT Service. In some cases, this could make management of IT Services difficult. Best practice is to supply a new name for the new IT Service.

- 4. Edit one or more fields, if desired.
- 5. Select the [Save As] button.
- 6. The new IT Service will appear in the IT Service Manager page.

Defining the List of Devices for an IT Service

After **Defining the Basic Properties of an IT Service Policy**, you must next determine the devices to include in your IT Service policy. You do this in the **[Model]** sub-tab. When you define the list of devices to include in your IT Service policy, that list of devices appears as a device group throughout the ScienceLogic platform.

For example, if you want to monitor Email service, you could create a list of devices that includes Exchange servers, DNS servers, and devices that run Email round-trip policies.

You can manually assign devices and device groups to the IT Service device group, or you can use membership rules, like you would for a dynamic device group.

You can define optional device subsets. A device subset is a sub-group of devices from the list of all devices in the IT Service policy. You define device subsets in the **[Model]** sub-tab. A Device subset is helpful if you want to examine only some devices for a particular metric, for example, all database servers in a group of servers.

You can manually assign devices to a subset, or you can use membership rules, like you would for a dynamic device group. For example, you could define a list of Exchange Servers, defined by device class, and also define a device subset of unhealthy Exchange servers, based on device state.

Defining the List of Devices

There are three ways to add one or more devices to the list of devices for the IT Service policy:

- Add a device group to the list of devices for the IT Service policy.
- Add a static list of one or more devices to the list of devices for the IT Service policy.
- Add a dynamic list of one or more devices to the list of devices for the IT Service policy.

To create the list of devices for the IT Service policy:

- Go to the IT Service Manager page (Registry > IT Services > IT Service Manager). Either create a new IT Service policy ([Create] button) or edit an existing policy (wrench icon
- 2. After Defining the Basic Properties of an IT Service Policy, select the [Model] sub-tab.

Summary Model Logs	Events	Tickets Administration				
IT Service Editor Created IT Service IT Service [1] Cli	ck "Save" to commit chan	ges		New	Reset Gui	ide
Properties Model Metrics Schedule					Adva	nced
Device Groups [0]					Del A	Add
	Device Group Name	•		ID Devices	Groups Rules	
	No	device groups in service.				
Static Devices [1] Adding [1]					Del A	Add
<u>Device Name</u> + 1. ///10.168.44.201	Ping ICMP	Class Sub-class	ID 49 System	Organization		
Dynamic Device Rules [1] Adding [1]					Del A	Add
Selector Type 1.1. Provice Class Cisco Systems Pro776		Selector Targets			Matched Devs	
				Devices matched for rule		
		Save				

3. The following sections explain how to add device groups, a static list of devices, or a dynamic list of devices to an IT Service policy.

Adding Device Groups to the IT Service Policy

- 1. To add a device group to the list of devices for the IT Service policy, go to the Device Groups pane.
- 2. Select the **[Add]** button.

3. The **Device Group Alignment** modal page appears and displays a list of all devices in the ScienceLogic platform.

vice Group Alignment		Re	set
	Device Group Name •	ID Devices Groups Rules D Ac	tion
1. Routers		2 5	

- 4. In the **Device Group Alignment** modal page, select the checkbox of each device group you want to include in the IT Service policy.
- 5. Select the [Add/Remove] button in the lower right.
- 6. The selected device groups will appear in the **Device Groups** pane.
- 7. To remove a device group from the list of devices for the IT Service policy, return to the **IT Service Editor** page, select the **[Model]** tab, select the checkbox for the device group, and then select the **[Del]** button.

Adding a Static List of Devices to the IT Service Policy

- 1. To add a static list of one or more devices to the list of devices for the IT Service policy, go to the **Static Devices** pane.
- 2. Select the **[Add]** button.
- 3. The **Device Alignment** modal page appears and displays a list of all devices in the ScienceLogic platform:

	e Alignment							Res	et
	Device Name •	IP Address	Category	Class Sub-class	<u>ID</u>	Organization	\checkmark	Action	
1.	10-Forward	10.20.30.195	Servers	NET-SNMP FreeBSD	144	System			
2.	10.168.44.201	10.168.44.201	Pingable	Ping ICMP	49	System	V		
3.	/// 10.168.44.202	10.168.44.202	Pingable	Microsoft ICMP	50	System			
4.	10.168.44.203	10.168.44.203	Pingable	Microsoft ICMP	48	System			
5.	/// 10.168.44.204	10.168.44.204	Pingable	Microsoft ICMP	51	System			
6.	10.168.44.205	10.168.44.205	Pingable	Ping ICMP	52	System			
7.	10.168.44.206	10.168.44.206	Pingable	Microsoft ICMP	53	System			
8.	10.168.44.207	10.168.44.207	Pingable	Ping ICMP	54	System			
9.	/// 10.168.44.208	10.168.44.208	Pingable	Ping ICMP	45	System			
0.	10.168.44.210	10.168.44.210	Pingable	Ping ICMP	41	System			
1.	711 10.168.44.211	10.168.44.211	Pingable	Microsoft ICMP	40	System			
2.	10.168.44.214	10.168.44.214	Pingable	Ping ICMP	46	System			
3.	10.168.44.215	10.168.44.215	Pingable	Ping ICMP	43	System			
4.	10.168.44.216	10.168.44.216	Pingable	Microsoft ICMP	42	System			
5.	10.168.44.219	10.168.44.219	Pingable	Microsoft ICMP	47	System			
6.	10.168.44.220	10.168.44.220	Pingable	Microsoft ICMP	44	System			
7.	10.20.30.108	10.20.30.108	Router	Cisco Systems 2501	165	System			
8.	10.20.30.123	10.20.30.123	Router	Cisco Systems 7206VXR	235	System			
9.	10.20.30.135	10.20.30.135	Switches	Cisco Systems Catalyst 35080	219	System			
0.	10.20.30.141	10.20.30.141	Switches	Cisco Systems Catalyst WS-C	274	System			
1.	10.20.30.146	10.20.30.146	Broadband	Netopia Netopia 3346 v8.2r1	279	System			1
2.	10.20.30.147	10.20.30.147	Broadband	Netopia Netopia 3381 v8.0.10	278	System			
3.	10.20.30.148	10.20.30.148	Broadband	Netopia Netopia (R3100, R45x	283	System			1
4.	10.20.30.149	10.20.30.149	Broadband	Netopia R7200-T	282	System			
5.	10.20.30.151	10.20.30.151	Unknown	Generic SNMP	254	System			ā.
6.	10.20.30.167	10.20.30.167	Unknown	Netopia OEM	122	System			
7.	10.20.30.175	10.20.30.175	Unknown	Generic SNMP	105	System			1
8.	10.20.30.176	10.20.30.176	Unknown	Konica Corporation OEM	94	System			
9.	10.20.30.191	10.20.30.191	Printers	Konica Minolta Fiery X3e 22C-	146	System			ji.
0.	10.20.30.201	10.20.30.201	Unknown	Generic SNMP	109	System			1
1.	10.20.30.208	10.20.30.208	Unknown	Generic SNMP	220	System			į.

- 4. In the **Device Alignment** modal page, select the checkbox of each device group you want to include in the IT Service policy. Select the **[Add/Remove]** button in the lower right.
- 5. The selected devices will appear in the Static Devices pane.
- 6. To remove a device from the list of devices for the IT Service policy, go to the **IT Service Editor** page, select the **[Model]** tab, select the checkbox for the device group, and then select the **[Del]** button.

Adding a Dynamic List of Devices to the IT Service Policy

- 1. To add a dynamic list of one or more devices to the list of devices for the IT Service policy, go to the **Dynamic Device Rules** pane.
- 2. Select the [Add] button. The Device Group Rule Editor modal page appears.

3. In the Device Group Rule Editor modal page, define one or more criteria to include in the rule.

Add Rule					Close / Esc
Device Group Rule Editor Acti	ve Selection				Reset
Active Selectors Organization Device Class Device Category Ø Device Name Device IP Device State Collection State Collector Group Open TCP Ports Running Process Windows Service Subscribed Product Active Event	Selector Definitions Device Name Operators allowed: term* Begins with "term" "term Ends with "term" term Is "term", "team", "teem" !term Is not "term" term1, term2 Is "term1" or "term2"				
Matched Devices [0]		<u>Class Sub-class</u> No devices matched.	D	Organization	Collection State

- 4. Select criteria from the Active Selectors field.
- 5. The selection appears in the **Selector Definitions** pane.
- 6. If you unselect a criteria in the **Active Selectors** field, the selection no longer appears in the **Selector Definitions** pane.
- 7. In the **Selector Definitions** pane, each criteria can include a list of selections and/or operators and wildcards:
 - Organization. Displays a list of all organizations in the platform.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more organizations, the platform will search for devices that are members of at least one the selected organization(s) and include those devices in the device group. For example, if you select two organizations, all devices from each organization will be included in the device group.
 - If you select the *Invert* checkbox, the platform will search for devices that are *not* members of the selected organization(s) and include those devices in the device group.

- Device Class. Displays a list of all device classes in the platform.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more device classes, the platform will search for devices that are members of the selected device class(es) and include those devices in the device group. For example, if you select two device classes, all devices from each device class will be included in the device group.
 - If you select the *Invert* checkbox, the platform will search for devices that are *not* members of the selected device class(es) and include those devices in the device group.
- Device Category. Displays a list of all device categories in the platform.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more device categories, the platform will search for devices that are members
 of the selected device categories and include those devices in the device group. For example, if
 you select two device categories, all devices from each device category will be included in the
 device group.
 - If you select the *Invert* checkbox, the platform will search for devices that are *not* members of the selected device categories and include those devices in the device group.
- **Device Name**. Displays a field in which you can enter a string. The platform will use the string to search for devices with matching device names. If you do not use wildcard characters, the platform will return only devices with a device name that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any device name that begins with "term".
 - *term. The platform searches for any device name that ends with "term".
 - *te?m*. The platform searches for any device name that contains the text "te[any single character]m".
 - !term. The platform searches for any device name that does not include the text "term".
 - *term1, term2*. The platform searches for any device name that contains either "term1" or "term2".
- **Device IP**. Displays a field in which you can enter a string. The platform will use the string to search for devices with matching IP addresses. If you do not use wildcard characters, the platform will return only devices with a device IP that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any device IP that begins with "term".
 - *term. The platform searches for any device IP that ends with "term".
 - *te?m*. The platform searches for any device IP that contains the text "te[any single character]m".
 - !term. The platform searches for any device IP that does not include the text "term".
 - term1, term2. The platform searches for any device IP that contains either "term1" or "term2".
 - If you select the *Invert* checkbox, the platform will search for devices that do *not* have a matching IP address and include those devices in the device group.

- **Device State**. Displays a list of all device states in the platform (Notice, Healthy, Minor, Major, Critical). Each device's state is the same as the highest severity event associated with the device.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more device states, the platform will search for devices that are members of the selected device states and include those devices in the device group. For example, if you select two device states, all devices from each device state will be included in the device group.
 - If you select the *Invert* checkbox, the platform will search for devices that do *not* have the selected device state and include those devices in the device group.
- **Collection State**. Displays a list of all collection states in the platform (Active, NOT Active, User-Disabled, NOT User-Disabled, Unavailable, NOT Unavailable, Maintenance, NOT Maintenance, System-Disabled, NOT System-Disabled)..
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more collection states, the platform will search for devices that are members of the selected device states and include those devices in the device group. For example, if you select two collection states, all devices with the first collection state and all devices with the second collection state will be included in the device group.
- Collector Group. Displays a list of all Collector Groups in the platform.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more Collector Groups, the platform will search for devices that are members of the selected Collector Groups and include those devices in the device group. For example, if you select two Collector Groups, all devices from each Collector Group will be included in the device group.
 - If you select the *Invert* checkbox, the platform will search for devices that are *not* members of the select Collector Group(s) and include those devices in the device group.
- Open TCP Ports. Displays a list of all open TCP ports that the platform has discovered on at least one device.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more ports, the platform will search for devices have that have those ports open and include those devices in the device group. For example, if you select two collection ports, all devices where the first port is open and all devices where the second port is open will be included in the device group.
 - If you select the *Invert* checkbox, the platform will search for devices that do *not* have the selected port(s) open and include those devices in the device group.

- **Running Process**. Displays a field in which you can enter a string. The platform will use the string to search for devices that are running a matching system process. If you do not use wildcard characters, the platform will return only devices running a process that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any process name that begins with "term".
 - *term. The platform searches for any process name that ends with "term".
 - *te?m*. The platform searches for any process name that contains the text "te[any single character]m".
 - !term. The platform searches for any process name that does not include the text "term".
 - term1, term2. The platform searches for any process name that contains either "term1" or "term2".
 - If you select the *Invert* checkbox, the platform will search for devices that are *not* running the selected processes open and include those devices in the device group.
- Windows Service. Displays a field in which you can enter a string. The platform will use the string to search for devices that are running a matching Windows service. If you do not use wildcard characters, the platform will return only devices running a Windows services that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any Windows Service name that begins with "term".
 - *term. The platform searches for any Windows Service name that ends with "term".
 - *te?m*. The platform searches for any Windows Service name that contains the text "te[any single character]m".
 - !term. The platform searches for any Windows Service name that does not include the text "term".
 - *term1, term2*. The platform searches for any Windows Service name that contains either "term1" or "term2".
 - If you select the *Invert* checkbox, the platform will search for devices that are *not* running a matching Windows service and include those devices in the device group.
- Subscribed Product. Displays a list of all product SKUs in the platform.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more SKUs, the platform will search for devices that subscribe to at least one the selected SKU(s) and include those devices in the device group. For example, if you select two SKUs, all devices that subscribe to one of the two SKUs will be included in the device group.
 - If you select the *Invert* checkbox, the platform will search for devices that do *not* subscribe to the selected SKU(s) and include those devices in the device group.

- Active Event. Displays a list of all active events in the platform.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more active events, the platform will search for devices for which that event is currently active and include those devices in the device group. For example, if you select two events, all devices for which one of the two events is active will be included in the device group.
 - If you select the *Invert* checkbox, the platform will search for devices for which the event is **not** currently active and include those devices in the device group.
- Aligned Dynamic App. Displays a list of all Dynamic Applications that are currently aligned with one or more devices.
 - To filter the list, you can enter a string in the field under the title.
 - If you select one or more aligned Dynamic Applications, the platform will search for devices that are aligned with those Dynamic Applications and include those devices in the device group. For example, if you select two Dynamic Applications, all devices that are aligned with each of the Dynamic Applications will be included in the device group.
 - If you select the *Invert* checkbox, the platform will search for devices that are *not* aligned with the selected Dynamic Application(s).
- Asset Make. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching value in the Make field in their asset records (the platform automatically creates an asset record for each device during nightly auto-discovery). If you do not use wildcard characters, the platform will return only devices that have a Make field that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any asset make that begins with "term".
 - *term. The platform searches for any asset make that ends with "term".
 - *te?m*. The platform searches for any asset make that contains the text "te[any single character]m".
 - !term. The platform searches for any asset make that does not include the text "term".
 - term1, term2. The platform searches for any asset make that contains either "term1" or "term2".
- Asset Model. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching value in the Model field in their asset records (the platform automatically creates an asset record for each device during nightly auto-discovery). If you do not use wildcard characters, the platform will return only devices that have a Model field that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any asset model that begins with "term".
 - *term. The platform searches for any asset model that ends with "term".
 - *te?m*. The platform searches for any asset model that contains the text "te[any single character]m".
 - !term. The platform searches for any asset model that does not include the text "term".
 - term1, term2. The platform searches for any asset model that contains either "term1" or "term2".

- Asset Function. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching value in the Function field in their asset records (the platform automatically creates an asset record for each device during nightly auto-discovery). If you do not use wildcard characters, the platform will return only devices that have a Function field that exactly matches the string. You can use the following syntax in the field:
 - *term**. The platform searches for any asset function that begins with "term".
 - *term. The platform searches for any asset function that ends with "term".
 - *te?m*. The platform searches for any asset function that contains the text "te[any single character]m".
 - *!term*. The platform searches for any asset function that does not include the text "term".
 - *term1, term2*. The platform searches for any asset function that contains either "term1" or "term2".
- Asset Owner. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching value in the *Management Type* field in their asset records (the platform automatically creates an asset record for each device during nightly auto-discovery). If you do not use wildcard characters, the platform will return only devices that have a *Management Type* field that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any asset owner that begins with "term".
 - *term. The platform searches for any asset owner that ends with "term".
 - *te?m*. The platform searches for any asset owner that contains the text "te[any single character]m".
 - !term. The platform searches for any asset owner that does not include the text "term".
 - *term1, term2*. The platform searches for any asset owner that contains either "term1" or "term2".
- Asset Location. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching value in the Facility/Data Center field in their asset records (the platform automatically creates an asset record for each device during nightly auto-discovery). If you do not use wildcard characters, the platform will return only devices that have a Facility/Data Center field that exactly matches the string. You can use the following syntax in the field:
 - *term**. The platform searches for any asset location that begins with "term".
 - *term. The platform searches for any asset location that ends with "term".
 - *te?m*. The platform searches for any asset location that contains the text "te[any single character]m".
 - *!term*. The platform searches for any asset location that does not include the text "term".
 - *term1, term2*. The platform searches for any asset location that contains either "term1" or "term2".

- Asset Serial. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching value in the Serial field in their asset records (the platform automatically creates an asset record for each device during nightly auto-discovery). If you do not use wildcard characters, the platform will return only devices that have a Serial field that exactly matches the string. You can use the following syntax in the field:
 - *term**. The platform searches for any asset serial that begins with "term".
 - *term. The platform searches for any asset serial that ends with "term".
 - *te?m*. The platform searches for any asset serial that contains the text "te[any single character]m".
 - *!term*. The platform searches for any asset serial that does not include the text "term".
 - *term1, term2*. The platform searches for any asset serial that contains either "term1" or "term2".
- Asset Tag. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching value in the Asset Tag field in their asset records (the platform automatically creates an asset record for each device during nightly auto-discovery). If you do not use wildcard characters, the platform will return only devices that have an Asset Tag field that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any asset tag that begins with "term".
 - *term. The platform searches for any asset tag that ends with "term".
 - *te?m*. The platform searches for any asset tag that contains the text "te[any single character]m".
 - !term. The platform searches for any asset tag that does not include the text "term".
 - *term1, term2*. The platform searches for any asset tag that contains either "term1" or "term2".
- Software Title. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching title in the list of software defined in the Licenses tab in the asset record for the device. If you do not use wildcard characters, the platform will return only devices that have a Software Title field that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any software title that begins with "term".
 - *term. The platform searches for any software title that ends with "term".
 - *te?m*. The platform searches for any software title that contains the text "te[any single character]m".
 - !term. The platform searches for any software title that does not include the text "term".
 - term1, term2. The platform searches for any software title that contains either "term1" or "term2".
 - If you select the *Invert* checkbox, the platform will search for devices that do *not* have a matching software title in the list of software and include those devices in the device group.

- Software Version. Displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching version number in the list of software defined in the Licenses tab in the asset record for the device. If you do not use wildcard characters, the platformwill return only devices that have a Software Version field that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any software version that begins with "term".
 - *term. The platform searches for any software version that ends with "term".
 - *te?m*. The platform searches for any software version that contains the text "te[any single character]m".
 - *!term*. The platform searches for any software version that does not include the text "term".
 - *term1, term2*. The platform searches for any software version that contains either "term1" or "term2".
 - If you select the *Invert* checkbox, the platform will search for devices that do *not* have a matching version number in the list of software and include those devices in the device group.
- **Custom Attribute**. The Active Selectors field includes an entry for each custom attribute defined in your ScienceLogic system. When you select a custom attribute, the Selector Definitions pane displays a field in which you can enter a string. The platform will use the string to search for devices that have a matching value for this custom attribute. If you do not use wildcard characters, the platform will return only devices with a custom attribute that exactly matches the string. You can use the following syntax in the field:
 - term*. The platform searches for any attribute value that begins with "term".
 - *term. The platform searches for any attribute value that ends with "term".
 - *te?m*. The platform searches for any attribute value that contains the text "te[any single character]m".
 - *!term*. The platform searches for any attribute value that does not include the text "term".
 - *term1, term2*. The platform searches for any attribute value that contains either "term1" or "term2".
- 8. After you have selected an Active Selector and the Selector Definitions, you can specify that you want to *include children devices, all descendent devices, parent devices, or all ancestor devices*. To do this, **do not select the [OK] button**. Instead, select the **Select related devices** link next to the **[OK]** button.
- 9. If you selected the **Select related devices** link, the **Relationship Selection** modal page appears. In this modal page you can select devices by relationship. The **Matched Devices** pane displays all the devices that match all the criteria in the rule. The list of devices changes as you add and remove criteria.
- 10. The **[OK]** button saves the new dynamic rule or saves changes to an existing dynamic rule.
- 11. The new rule appears in the **Dynamic Rules** pane.

NOTE: If a single dynamic rule includes multiple criteria, a device must match **all** the criteria to be included in the device group (like the SQL AND operator). If an IT Service policy includes multiple dynamic rules, a device must match only a single rule to be included in the device group (like the SQL OR operator). To view a list of devices that are currently included in the dynamic rules, select the wrench icon (*P*) for a dynamic rule.

12. To remove a dynamic rule from the list of devices for the IT Service policy, go to the **IT Service Editor** page, select the **[Model]** tab, select the checkbox for the rule, and then select the **[Del]** button.

The Relationship Selection Page

If you click the **Select related device link** in the **Device Group Rule Editor** page, the **Relationship Selection** page appears:

lationship Selectors	See	d Devices [20]									
Children of		Device Name		Category	CIE	ss Sub-class	ID	0.	ganization	Collection State	
Descendants of	1	WvoVEM7	, 	NAS	NFSIE		969	Intel	gamzation	Unavailable	-1
Parents of	2.			NAS	NFSIE		970	Intel		Unavailable	
Ancestors of	3.	///vol/NetAppOSS/ht	ome	NAS	NFSIE		967	Intel		Unavailable	
Related by:	4.	///vol/vol1		NAS	NFSIE		966	Intel		Unavailable	
	- L -	///vol/vol2		NAS	NFSIE		968	Intel		Unavailable	
NS: Auto Scale Relationship	6.	10.0.0.1		Pingable	Ping I		924	Intel		Active	
VS: EC2 Subnet Relationship	7.			Switches		Systems Cataly	1766	Intel		Active	
NS: EC2 VPC Relationship	8.	10.100.100.30		Pingable	Linux		1511	Intel		Unavailable	ΞĻ
NS: ELB Relationship	9.	10.100.100.31		Pingable	Linux	ICMP	1512	Intel		Unavailable	
NS: EMR Relationship	- 10.	10.100.100.32		Pingable	Linux	ICMP	935	Intel		Unavailable	
Include seed devices	11.	10.100.100.33		Pingable	Linux	ICMP	934	Intel		Unavailable	
	12.	10.100.100.34		Pingable	Linux	ICMP	933	Intel		Unavailable	
	13.	10.100.100.35		Pingable	Linux	ICMP	929	Intel		Active	
Device Name •		Category	Clas	s Sub-class		ID	Org	anization		Collection State	
			No de	evices match	ned.						

The **Relationship Selection** page includes the following panes:

• **Relationship Selector**. You can choose to include children devices, all descendent devices (children, grandchildren, great grandchildren, etc), parent devices, or all ancestor devices (parents, grandparents, great grandparents, etc). You can also choose to further filter by including only the children, descendents,

parents, and ancestors devices that are related to the "Seed Devices" through one or more selected Dynamic Applications.

NOTE: For details on building relationships with Dynamic Applications, see the **Dynamic Application Development** manual.

- Seed Devices. This is the list of devices you defined in the Device Group Rule Editor page. You can include these devices in the device group or include only the children, descendants, parents, ancestors.
- Matched Devices. This is the list of devices that will be included in the device group when you click the [OK] button.

NOTE: As the ScienceLogic platform discovers devices and component devices that meet the criteria for the dynamic device group, the platform will automatically add those devices and component devices to the device group.

Relationship Selectors

In this pane, you can specify devices to include in the device group based on their relationships to the Seed Devices:

- **Children of**. If you select this checkbox, all children devices of the Seed Devices are included in the device group.
- **Descendents of**. This checkbox is enabled only if you select the **Children of** checkbox. If you select this checkbox, all children devices, grandchildren devices, great grandchildren devices, etc of the Seed Devices are included in the device group.
- **Parents of**. If you select this checkbox, all parent devices of the Seed Devices are included in the device group.
- Ancestors of. This checkbox is enabled only if you select the **Parents of** checkbox. If you select this checkbox, all parent devices, grandparent devices, great grandparent devices, etc of the Seed Devices are included in the device group.
- **Related by**. This checkbox is enabled only if you select the **Children of** checkbox or the **Parents of** checkbox. You can further filter the devices in the device group by including only the children, descendents, parents, and ancestors devices that are related to the Seed Devices through one or more selected Dynamic Applications. If you select this checkbox, you can select one or more Dynamic Applications from the list of Dynamic Applications that can create relationships. Only those devices that meet all the criteria will be included in the device group.
- Include seed devices. This checkbox is enabled only if you select the Children of checkbox or the Parents of checkbox. If you select this checkbox, the related Seed Devices are included in the device group. Seed Devices with no relationships are not included in the group.

Seed Devices

This is the list of devices you defined in the **Device Group Rule Editor** page. You can include these devices in the device group or include only the children, descendants, parents, and ancestors of these devices.

For each Seed Device, the **Relationship Selection** page displays.

TIP: To sort the list of devices, click on a column heading. The list will be sorted by the column value, in ascending order. To sort by descending order, click the column heading again.

- **Device Name**. Name of the device. For devices running SNMP or with DNS entries, the name is discovered automatically. For devices without SNMP or DNS entries, the device's IP address will appear in this field.
- **Category**. The ScienceLogic category assigned to the device. Categories include servers, routers, switches, firewalls, printers, etc. The category is automatically assigned during discovery, at the same time as the Device-Class/Sub-Class.
- **Class / Sub-class**. The manufacturer (device class) and type of device (sub-class). The Device-Class/Sub-Class is automatically assigned during discovery, at the same time as the Category.
- ID. Device ID. This is a unique number automatically assigned to the device by the ScienceLogic platform.
- Organization. The organization to which the device is assigned.
- Collection State. Collection state can be one of the following:
 - Active. The platform is currently collecting data from the device.
 - Disabled. The platform is not currently collecting data from the device.
 - Unavailable. The device is currently unavailable, so the platform cannot collect data from the device at this time.
 - Component Vanished. The component device has vanished, i.e. is not currently being reported by its root device. The platform cannot collect data from the device at this time.
- Tools. Displays icons for managing devices. The choices are:
 - Device Management (IIII). Leads to the Device Summary page, where you can see reports and logs related to the device. From the Device Summary page, you can also access the other pages in the Device Management tools.

Matched Devices

This is the list of devices that match all the criteria in the **Relationship Selection** page.

For each Matched Device, the **Relationship Selection** page displays:

TIP: To sort the list of devices, click on a column heading. The list will be sorted by the column value, in ascending order. To sort by descending order, click the column heading again.

- **Device Name**. Name of the device. For devices running SNMP or with DNS entries, the name is discovered automatically. For devices without SNMP or DNS entries, the device's IP address will appear in this field.
- **Category**. The ScienceLogic category assigned to the device. Categories include servers, routers, switches, firewalls, printers, etc. The category is automatically assigned during discovery, at the same time as the Device-Class/Sub-Class.
- **Class / Sub-class**. The manufacturer (device class) and type of device (sub-class). The Device-Class/Sub-Class is automatically assigned during discovery, at the same time as the Category.
- *ID*. Device ID. This is a unique number automatically assigned to the device by the ScienceLogic platform.
- Organization. The organization to which the device is assigned.
- Collection State. Collection state can be one of the following:
 - Active. The platform is currently collecting data from the device.
 - Disabled. The platform is not currently collecting data from the device.
 - Unavailable. The device is currently unavailable, so the platform cannot collect data from the device at this time.
 - Component Vanished. The component device has vanished, i.e. is not currently being reported by its root device. The platform cannot collect data from the device at this time.
- Tools. Displays icons for managing devices. The choices are:
 - Device Management (IIII). Leads to the Device Summary page, where you can see reports and logs related to the device. From the Device Summary page, you can also access the other pages in the Device Management tools.

Click the **[OK]** button to accept all changes and exit the Relationship Selection page.

Defining a Device Subset

If you select the **[Advanced]** button or are already in Advanced mode you can define device subsets for your IT Service policy. A device subset is a smaller group of devices from the list of all devices in the IT Service policy.

You can apply metrics to these device subsets, instead of applying a metric to all devices in the IT Service Policy. For example, you might want to examine only the status of the database servers in a specific IT Service. In this case, you could create a device subset that contains only the database servers. You could later apply a metric only to the database servers (for example, monitoring latency of the database servers).

To define a device subset:

 Go to IT Service Manager page (Registry > IT Services > IT Service Manager). Either create a new IT Service policy ([Create] button) or edit an existing policy (wrench icon *P*). 2. After **Defining the Basic Properties of an IT Service Policy**, select the **[Model]** sub-tab. If you are not already in Advanced mode, select the **[Advanced]** button:

roperties Model	Collection Metrics Alerting	Sched	ule					Advance
evice Groups [0]			_	De	Add		Service Dependencies [0]	Del Add
	Device Group Name *	ID.	Devices	Groups	<u>Rules</u>	0	Service N	arre .
	No device groups in service.						No dependent	services.
atic Devices [2]				De	Ado	_		
<u>Device N</u> 1. m 10.20.30.167 2. m 10.20.30.175	nee Class Sub-class Netopia OEM Generic SNMP	122 105	System System	Organization				
						ſ	Device Subsets [1]	Del Add
							Device Subset # 1. + (All Devices in Service)	
ynamic Device Rules (0) Selector Type	Selector Targets			De Match	A do ed Devs			
	No dynamic device rules in servi	se.						

- 3. To add a device subset to the IT Service policy, go to the **Device Subsets** pane.
- 4. Select the **[Add]** button. The **Device Subset Editor** modal page appears.

Add Device Subset				Close / Esc							
Device Subset Editor Creating Subset				Reset							
Device Subset Name											
Static Devices				Del Add							
Device Name •	IP Address Category	Class Sub-class		<u>Organization</u>							
	No static devic	es in device subset.									
Dynamic Rules				Del Add							
Selector Type	s	elector Targets		Matched Devs 🗹							
	No dvoamic ru	es in device subset.									
	no ojnano ro										
				Matched							
		ок		Matched							
[L		UN I									

5. To add a static list of one or more devices to the device subset, go to the **Static Devices** pane:

		Category	Class Sub-class	<u>ID</u>	Organization	Actio
10-Forward	10.20.30.195	Servers	NET-SNMP FreeBSD	201	System	
10.168.44.101		VMware	VMware Host Server	148	System	

- Select the [Add] button.
- The **Device Alignment** modal page appears and displays a list of all devices in the ScienceLogic platform.
- In the **Device Alignment** modal page, select the checkbox of each device group you want to include in the IT Service policy. Select the **[Add/Remove]** button in the lower right.
- The selected devices will appear in the Static Devices pane.
- To remove a device from the list of devices in the device subset, select its checkbox and then select the **[Del]** button.
- 6. To add a dynamic list of one or more devices to the list of devices for the device subset, go to the **Dynamic Rules** pane:

	Selector Definitions				
Organization 🔺					
Device Class					
Device Category					
Device Name					
Device IP					
Device State					
Collection State					
Open TCP Ports					
Running Process					
Windows Service					
Subsorbed Breduct					
latched Devices [8]	- Category	Class Sub-class	ID	Organization	Collection State
	- <u>Category</u> Servers	Class Sub-class NET-SNMP FreeBSD	1 <u>0</u> 201	Organization System	
Device Name					State
Device Name 1	Servers VMware Endpoint	NET-SNMP FreeBSD VM ware Host Server Polycom Video Conferencia	201 148 1g 299	System System System	Active Active Active
Device Name 1. m]10-Forward 2. m]10.168.44.101 3. m]AHA Pittsburgh, PA 4. m]ctms2	Servers VMware Endpoint Bridge	NET-SNMP FreeBSD VMware Host Server Polycom Video Conferencii Cisco TelePresence Multipo	201 148 1g 299 int 116	System System System System	State Active Active Active Active
Device Name 1. m[10-Forward 2. m[10.168.44.101 3. m[AHA Pittsburgh, PA 4. m[ctms2 5. m[ctms2	Servers VMware Endpoint Bridge Bridge	NET-SNMP FreeBSD VM ware Host Server Polycom Video Conferencii Cisco TelePresence Multipo Cisco TelePresence Multipo	201 148 1g 299 int 116 int 498	System System System System	State Active Active Active Active Active
Device Name 1. m]10-Forward 2. m]10.168.44.101 3. m]AHA Pittsburgh, PA 4. m]ctms2 5. m]ctms2 6. m]SEP001DA23897CE	Servers VMware Endpoint Bridge Bridge TelePrese	NET-SNMP FreeBSD VM ware Host Server Polycom Video Conferencia Cisco TelePresence Multipo Cisco TelePresence Multipo ni Cisco TelePresence CTS-30	201 148 1g 299 int 116 int 498 01 470	System System System System System	State Active Active Active Active Active Active
Device Name 1. m[10-Forward 2. m[10.168.44.101 3. m[AHA Pittsburgh, PA 4. m[ctms2 5. m[ctms2	Servers VMware Endpoint Bridge Bridge TelePrese TelePrese	NET-SNMP FreeBSD VM ware Host Server Polycom Video Conferencii Cisco TelePresence Multipo Cisco TelePresence Multipo	201 148 1g 299 int 116 int 498 01 470 01 511	System System System System	State Active Active Active Active Active

- Select the [Add] button. The Device Subset Rule Editor modal page appears.
- In the **Device Subset Rule Editor** modal page, define one or more criteria to include in the rule. For details, see the section on Adding a Dynamic List of Devices to the IT Service Policy
- The new rule appears in the **Dynamic Rules** pane.
- To remove a dynamic rule from the list of devices for the IT Service policy, go to the **IT Service Editor** page, select the **[Model]**sub-tab, select the checkbox for the rule, and then select the **[Del]** button.
- **NOTE**: If a single dynamic rule includes multiple criteria, a device must match **all** the criteria to be included in the device group (like the SQL AND operator). If an IT Service policy includes multiple dynamic rules, a device must match only a single rule to be included in the device group (like the SQL OR operator). To view a list of devices that are currently included in the dynamic rules, select the wrench icon (*P*) for a dynamic rule.

Defining a Service Dependency

A service dependency allows you to use a metric and list of devices from an external IT Service Policy when calculating the metrics in the current IT Service policy. In the **example in this manual**, the Acme company uses the device availability metric from an IT Service policy for Acme East Coast and the device availability metric from an IT Service policy availability for all devices in all locations.

To define a Service Dependency:

- Go to IT Service Manager page (Registry > IT Services > IT Service Manager). Either create a new IT Service policy ([Create] button) or edit an existing policy (wrench icon).
- 2. Select the [Model] sub-tab. If you are not already in Advanced mode, select the [Advanced] button.

3. To add a service dependency, go to the **Service Dependencies** pane.

Summary	Model	Logs	Events		Tickets	з 🚺	dministr	ratior	n	
IT Service Editor	IT Service [2] Click "	Save" to commit c	hanges						New	Reset Guide
Properties	Model Collection	n Metrics	Alerting S	ic he du	le					Advanced
Device Groups [0]					D	el Ad	Id	Service Dependencies [0]	Del Add
	Device Gro	oup Name •		ID	Devices	Groups	Rules	Z	Service Name •	Z
		No device grou	ips in service.						No dependent service	is.
Static Devices [2	[] Adding [2]					D	el Ad	Id		
	Device Name	NET-SNMP Fr	Sub-class	ID		Organization		Ø		
1. 10-Forwa 2. 11 10.168.44	.101	VMware Hos			System System					
								L		
									Device Subsets [4]	Del Add
									Device Subset Name (All Devices in Service)	# Devs 🗸 8
									2. + PCTS Endpoints 3. + PVideo Endpoints	3
									4. + PVideo Endpoints	1 2
Dynamic Device	Rules (2)					D	el Ad	Id		
Selector		Selec	tor Targets							
1.1. ADevice (Category Video.Endpoint;	Video.TelePresence			ched for rule	4				
2.1. Povice 0	Category Video.Bridge		Devic	es mau	ched for rue	2				
			Devic	es mate	ched for ruk	e 2: 2				
										Refresh
						Save				
	w.om72.sct=.datails8iow					Save				

4. Select the [Add] button. The Service Dependency Alignment Editor modal page appears.

Add/Remove Service Dependencies		Close / Esc
Service Dependency Alignment		Reset
Service Name •	State ID	Action
1. Video Active Calls	Healthy 1	
		Add/Remove

- Service policy you want to reference in the current IT Service policy. Select the [Add/Remove] button
- The selected IT Service policies will appear in the **Service Dependencies** pane.
- To remove an IT Service policy from the list of service dependencies, select its checkbox and then select the [Del] button.

• In the Service Dependency Alignment Editor modal page, select the checkbox of each external IT

You can now use the metrics in each service dependency when defining the metrics for your IT Service policy. For an example, see the **example chapter** in this manual.

Defining Metrics

in the lower right.

A metric is a performance measurement associated with an IT Service. One or more metrics are used to define the Service Health, Service Availability, and Service Risk for an IT Service.

For each IT Service, the ScienceLogic platform provides a default metric called Average Device Availability. This metric tells the ScienceLogic platform to collect availability data from all the devices in the IT Service and calculate the average availability.

You can define additional metrics, based on any performance data collected by the platform, including:

- Device Availability
- Device Latency
- Overall CPU Usage
- Physical Memory Usage
- Swap Usage
- Device State (Condition of the device, based upon the most severe event generated by the device.)
- Device Count
- Presentation Objects from Dynamic Applications
- Network Interface Data
- TCP/IP Port Monitors
- System Process Monitors
- Windows Service Monitors
- Email Round-Trip Monitors
- Web Content Monitors
- SOAP/XML Transaction Monitors
- Domain Name Monitors
- An Aligned Service Dependency

NOTE: When the ScienceLogic platform evaluates a metric, it performs an aggregation, that is, the platform evaluates the data for all devices specified in the definition of the metric, over a specified time period (the **Aggregation Frequency**). Depending on the definition of the metric, the platform can calculate the average, maximum, minimum, sum, standard deviation, count value or percentile for all devices specified in the definition.

To create a new metric:

- Go to IT Service Manager page (Registry > IT Services > IT Service Manager). Either create a new IT Service policy ([Create] button) or edit an existing policy (wrench icon *P*).
- 2. After Defining the Basic Properties of an IT Service Policy and Defining the Devices for the IT Service Policy, select the [Metrics] sub-tab.

Properties	Model Collection Metrics	Aleri	ting Sc	hedule				Adva
ervice Metric De	finitions [7]							Del
	Service Metric Name *	Unit	State	Vital	Alerting	Device Metric	Device Subset	Aggregatio
1. Active Calls			Enabled	No	No			Sum
	aximum Jitter: Video Endpoints		Enabled	No	No			Average
3. AMCU Active			Enabled	No	No			Sum
	rum Bandwidth: CTS Endpoints		Enabled	No	No			Sum
5. ATotal Maxim	rum Bandwidth: Video Endpoints		Enabled	No	No	-		Sum
6. ATotal Maxim	rum Bandwidth: Video MCUs		Enabled	No	No			Sum
7. 🥬 Video Call S	Statistics: Active Call Count (Enabled	No	No			Sum
							[Select Action]	
ey Metrics								
	Video Call Statistics: Active Call Count	t (
ervice Health	1			2		5 <u></u>	[· · · · · · · · · · · · · · · · · · ·	Increasing
ervice Health		t (Notice		2	Minor	3 Major	4 Critical	
ervice Health	1	Notice		2	Minor		[· · · · · · · · · · · · · · · · · · ·	Increasing
ervice Health	1 Healthy	Notice		2	Minor		4 Critical	Increasing 5
ervice Health	1 Healthy	Notice		2	Minor	Major	Crtical Crtical A Crtical A Crtical	Increasing 5
ervice Health	1 Healthy	Notice nreshold)]		2	Minor	Major	4 Critical	hcreasing 5 hcreasing 5
ey Metrics ervice Health ervice Availability		Notice nreshold)]			Minor	Major	4 Critical	Increasing 5 Increasing 5
ervice Health	Heathy [(use Service Heath metric, Critical th [(use Service Heath metric, Heathy r	Notice nreshold)]		2	liner	Major	4 Critical	Increasing 5 Increasing 5

3. Select the [Add] button. The Service Metric Editor modal page appears.

ervice Metric Editor Creating Metric					Reset
Service Metric Name	Metric Type	Device S		Aggregation	
	Internal 💌	(All Devices in Serv	vice) 💌	Average	1
Metric Classification	Show only metrics available for th	is IT Service			
Service Vital Metric		Device I	letric		
Active State	Device Availability				
Enabled	Device Availability: Percentage Value				
	Guide Text				
Metric Alerting	Alert Policy Name			Event Severity	
No Alert Policy			Critical		
L	Alert Threshold			[Increasing
			75	L	
0	Healthy		, A	Critical	100
Alert Policy not defined.					
	Event Policy Descripti	ion.			
🔲 👌 🔛 🖃 Source 🗎 🐰 🗈 🛙					
B I U Style - Forma	at 🗸 🗸 Font	▼ Size	- 1 <u>1</u>	• 🌆 • 🗠 o	4

- 4. Supply a value in each field of the Service Metric Editor modal page.
 - Service Metric Name. Enter a name for the metric.
 - Metric Classification. Specifies whether the metric will be displayed in the IT Service Summary page in widgets that display vital metrics. Choices are:
 - Service Vital Metric. This metric will appear in widgets that display vital metrics.
 - Standard Metric. This metric will not appear in widgets that display vital metrics.
 - Active State. Specifies whether the ScienceLogic platform should currently collect data for the metric and evaluate alerts for the metric. Choices are:
 - Enabled. The platform will collect data for the metric and evaluate alerts for the metric.
 - Disabled. The platform will not collect data for the metric and evaluate alerts for the metric.
 - Metric Type. Specifies the type of performance data you want to use for the metric. Choices are
 - Internal. The metric will use data that the ScienceLogic platform automatically collects for each device (availability, latency, CPU usage, memory usage, swap usage, device state, and device count).
 - Dynamic App. The metric will use data collected by a specified Dynamic Application.
 - Network Interface . The metric will use data collected from network interfaces. For an example that uses the Network Interface metrics, see the *example chapter*.
 - TCP/IP Port Monitor. The metric will use data collected using a TCP/IP port monitoring policy.

- System Process Monitor. The metric will use data collected using a system process monitoring policy.
- Windows Service Monitor. The metric will use data collected using a Windows service monitoring policy.
- *Email Round-Trip Monitor*. The metric will use data collected using an Email round-trip monitoring policy.
- Web Content Monitor. The metric will use data collected from a using a Web Content monitoring policy.
- SOAP/XML Transaction Monitor. The metric will use data collected using a SOAP/XML Transaction monitoring policy.
- Domain Name Monitor. The metric will use data collected using a Domain Name monitoring policy.
- Aligned Service Dependency. The metric points to a metric and set of devices in an external IT Service policy. The external IT Service policy must first be defined as a Service Dependency in the current IT Service. To see an example of a metric that uses an Aligned Service Dependency, see the example chapter.
- Dependency Key Metric. The metric will inherit the values from a Key Metric (Health, Availability, Risk) defined in another IT service policy. The other IT service policy has been aligned as a dependency to this IT service.
- **Device Subset**. If you have defined one or more *device subsets*, you can select one in this field. The metric will use data from only devices in the selected subset. This field is not applicable if you selected *Aligned Service Dependency* in the *Metric Type* field.
- Aggregation. Specifies how the ScienceLogic platform will aggregate ("crunch") the data collected from all the devices in the IT Service or in the specified **Device Subset** into a single value. Choices are:
 - Average
 - Maximum
 - Minimum
 - Sum
 - Std Dev
 - Count
 - *Percentile*. Aggregates data by percentile. Enter the percentile value you want to monitor in the field to the right of the *Aggregation* field. For example, if you select *Percentile* and enter 65 in the field to the right of the *Aggregation* field, this metric will contain the value that is at the 65th percentile for each collection of the metric.
- Show only metrics available for this IT Service. Filters the succeeding fields so that they display already-defined policies aligned with one or more of the devices in the IT Service or in the specified **Device Subset**. For example, if you selected *Dynamic App* in the **Metric Type** field, and then selected this checkbox, the **Dynamic Application** field would display only Dynamic Applications that are already aligned with one or more of the devices in the IT Service or in the specified **Device Subset**.

This field is not applicable if you selected *Aligned Service Dependency* or *Dependency Key Metric* in the *Metric Type* field.

- Device Metric. Appears if you selected Internal in the Metric Type field. Choices are:
 - Device Availability. Specifies that the metric should be calculated using the availability statistics from all the devices in the IT Service or the devices specified in the **Device Subset**. To calculate a value for the metric, the ScienceLogic platform aggregates the availability value from each device using the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, Device Count, or Percentile).
 - Device Latency. Specifies that the metric should be calculated using the latency statistics from all the devices in the IT Service or the devices specified in the **Device Subset**. To calculate a value for the metric, the ScienceLogic platform aggregates the latency value from each device using the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, or Device Count).
 - Overall CPU. Specifies that the metric should be calculated using the CPU usage statistics from all the devices in the IT Service or the devices specified in the **Device Subset**. To calculate a value for the metric, the ScienceLogic platform aggregates the CPU usage value from each device using the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, Device Count, or Percentile).
 - Physical Memory Utilization. Specifies that the metric should be calculated using the physical memory utilization statistics from all the devices in the IT Service or the devices specified in the **Device Subset**. To calculate a value for the metric, the ScienceLogic platform aggregates the physical memory utilization value from each device using the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, or Device Count).
 - Swap Utilization. Specifies that the metric should be calculated using the swap utilization statistics from all the devices in the IT Service or the devices specified in the **Device Subset**. To calculate a value for the metric, the ScienceLogic platform aggregates the swap utilization value from each device using the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, Device Count, or Percentile).
 - Device State. Specifies that the metric should be calculated using the device state of all the devices in the IT Service or the devices specified in the **Device Subset**. To calculate a value for the metric, the ScienceLogic platform aggregates the device state value from each device using the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, or Device Count).

NOTE: For each device, device state is determined by the most severe event that is currently active on the device. Each device severity has a numeric equivalent. 0=healthy, 1=notice, 2=minor, 3=major, 4=critical.

 Device Count. Device Count for an IT Service includes the number of devices in the IT Service or in the specified **Device Subset**.

- Dynamic Application. Appears if you selected Dynamic App in the Metric Type field. Select the Dynamic Application that includes the presentation object you want to use to aggregate data for this metric. If you selected the checkbox for Show only metrics available for this IT Service, this field displays a list of Dynamic Applications that are already aligned with one or more of the devices in the IT Service or in the specified Device Subset. If you did not select the checkbox, this field displays a list of all Dynamic Applications in the ScienceLogic platform.
- **Presentation**. Appears if you selected *Dynamic App* in the **Metric Type** field. Displays a list of all presentation objects in the Dynamic Application that you specified in the **Dynamic Application** field. Select the presentation object that the ScienceLogic platform should use to calculate the value for this metric. To calculate a value for the metric, the ScienceLogic platform aggregates the value for this presentation object from each device using the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, Device Count, or Percentile).
- Index/Label. For presentation objects that include multiple data series, specifies whether you want to select all the data for aggregation, select by index, or select by object label. The choices are:
 - All. Specifies that to calculate a value for this metric, the ScienceLogic platform should aggregate values for all indexes and labels for the presentation object you selected in the *Presentation* field for all the devices in the IT service or the devices specified in the *Device Subset*. When the data for this metric is aggregated, each index is treated as a separate data-point. For example, if you are creating a metric that will aggregate data from three devices and each device has five indexes for the selected presentation object, the aggregation will be based on the 15 separate data-points. If you select this option, the *SNMP Index* field is disabled.
 - Index. Specifies that to calculate a value for this metric, the ScienceLogic platform should aggregate one data-point from each device. If you select this option, you must specify the single numeric index in the SNMP Index field.
 - Label. Specifies that to calculate a value for this metric, the ScienceLogic platform should aggregate one data-point from each device. If you select this option, you must specify the single label in the **SNMP Index** field.
- **SNMP Index**. Appears if you selected *Dynamic App* in the **Metric Type** field. A single presentation object can include multiple data series for a given device. For example, a presentation object that displays CPU data might display a data series for each CPU on a device. In the ScienceLogic platform, a data series is called an **index**. An index can be referenced by either a numeric ID or by a label string:
 - If you select All in the Index/Label field, the SNMP Index field is disabled. Specifies that to calculate a value for this metric, the ScienceLogic platform should aggregate values for all indexes for the presentation object you selected in the Presentation field for all the devices in the IT service or the devices specified in the Device Subset. When the data for this metric is aggregated, each index is treated as a separate data-point. For example, if you are creating a metric that will aggregate data from three devices and each device has five indexes for the selected presentation object, the aggregation will be based on the 15 separate data-points.
 - If you select *Index* in the *Index/Label* field, you must specify a single numeric index in the *SNMP Index* field. To calculate a value for this metric, the ScienceLogic platform will aggregate one datapoint from each device.

- If you select Label in the Index/Label field, you must specify a single label string in the SNMP Index field. To calculate a value for this metric, the ScienceLogic platform will aggregate one datapoint from each device.
- Interface Selection. Appears if you selected Network Interface in the Metric Type field. Select the network interfaces to include in the calculation for this metric. Choices are:
 - All Interfaces. Specifies that to calculate a value for this metric, the ScienceLogic platform should aggregate interface utilization statistics from all interfaces on all the devices in the IT Service or the devices specified in the **Device Subset**.
 - Management Interface. Specifies that to calculate a value for this metric, the ScienceLogic platform should aggregate interface utilization statistics from the management interface on all the devices in the IT Service or the devices specified in the **Device Subset**. The management interface is the network interface associated with the IP address that the ScienceLogic platform uses to communicate with a device.
 - Tagged Interfaces. Specifies that to calculate a value for this metric, the ScienceLogic platform should aggregate interface utilization statistics from the interfaces that are associated with a specific tag on all the devices in the IT Service or the devices specified in the **Device Subset**. You can manually align tags to an interface in the **Network Interfaces** page (Registry > Networks > Interfaces).
- Interface Tag. Appears if you selected Network Interface in the Metric Type field. Select the
 interface tag that must be associated with an interface for that interface to be included in the
 calculation for this metric. If you selected the checkbox for Show only metrics available for this IT
 Service, this field displays a list of Interface tags that are already aligned with one or more of the
 interfaces on the devices in the IT Service or in the specified Device Subset. If you did not select the
 checkbox, this field displays a list of all Interface tags that are associated with interfaces in the
 ScienceLogic platform.
- Interface Metric. Appears if you selected Network Interface in the Metric Type field. Select the interface measurement that the ScienceLogic platform should use to calculate the value for this metric. To calculate a value for the metric, the ScienceLogic platform aggregates the value for this interface measurement from all interfaces that you included in this metric using the method specified in the Aggregation field (Average, Minimum, Maximum, Sum, Standard Deviation, or Device Count). Choices are:
 - Inbound Traffic
 - Outbound Traffic
 - Inbound Errors
 - Outbound Errors
 - Inbound Discards
 - Outbound Discards
- **TCP Port**. Appears if you selected TCP/IP Port Monitor in the **Metric Type** field. Enter or select the TCP port that the ScienceLogic platform should use to calculate the value for this metric. To calculate a value for the metric, the ScienceLogic platform aggregates the availability value collected using the TCP port policy that monitors this port on each device. The availability values are aggregated using

the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, Device Count or Percentile). If you selected the checkbox for **Show only metrics available for this IT Service**, this field displays a list of port policies that are already aligned with one or more of the devices in the IT Service or in the specified **Device Subset**. If you did not select the checkbox, enter a TCP port number in this field.

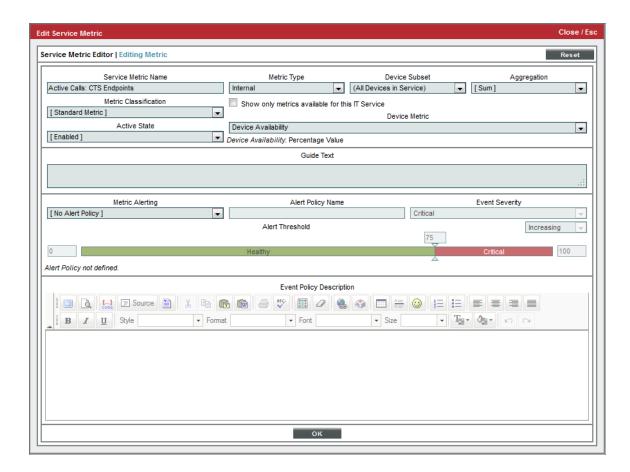
- Metric. Appears if you selected TCP/IP Port Monitor in the Metric Type field. Specify which measurement determines the availability of a TCP port for this metric. Choice is Port Open.
- Process Name. Appears if you selected System Process Monitor in the Metric Type field. Enter or select the process name that the ScienceLogic platform should use to calculate the value for this metric. To calculate a value for the metric, the ScienceLogic platform aggregates the availability value collected using the system process policy that monitors this process on each device. The availability values are aggregated using the method specified in the Aggregation field (Average, Minimum, Maximum, Sum, Standard Deviation, or Device Count). If you selected the checkbox for Show only metrics available for this IT Service, this field displays a list of system process policies that are already aligned with one or more of the devices in the IT Service or in the specified Device Subset. If you did not select the checkbox, enter a process name in this field.
- Metric. Appears if you selected System Process Monitor in the Metric Type field. Specify which measurement determines the availability of a process for this metric. Choices are:
 - Process Exists. The process is considered available if it exists on a device.
 - Process Running. The process is considered available if it is running on a device.
- Service Name. Appears if you selected Windows Service Monitor in the Metric Type field. Enter or select the service name that the ScienceLogic platform should use to calculate the value for this metric. To calculate a value for the metric, the ScienceLogic platform aggregates the availability value collected using the Windows service policy that monitors this service on each device. The availability values are aggregated using the method specified in the Aggregation field (Average, Minimum, Maximum, Sum, Standard Deviation, Device Count, or Percentile). If you selected the checkbox for Show only metrics available for this IT Service, this field displays a list of Windows service policies that are already aligned with one or more of the devices in the IT Service or in the specified Device Subset. If you did not select the checkbox, enter a Windows service name in this field.
- Metric. Appears if you selected Windows Service Monitor in the Metric Type field. Specify which measurement determines the availability of a Windows service for this metric. Choice is Service Running.
- Policy Name. Appears if you selected Email Round-Trip Monitor in the Metric Type field. Enter or select the Email Round-Trip policy that the ScienceLogic platform should use to calculate the value for this metric. To calculate a value for the metric, the ScienceLogic platform aggregates statistics collected using this Email Round-Trip policy on each device. The values for the statistic are aggregated using the method specified in the Aggregation field (Average, Minimum, Maximum, Sum, Standard Deviation, or Device Count). If you selected the checkbox for Show only metrics available for this IT Service, this field displays a list of Email Round-Trip policies that are already aligned with one or more of the devices in the IT Service or in the specified Device Subset. If you did not select the checkbox, enter the name of an Email Round-Trip policy in this field.

- Metric. Appears if you selected Email Round-Trip Monitor in the Metric Type field. Specify the Email round-trip statistic to aggregate for this metric. Choices are:
 - Round-Trip Completed. Indicates whether or not the round-trip was successfully completed (1) or failed (0).
 - *Round-Trip Time*. Indicates the number of seconds for an Email message to be sent from the ScienceLogic platform to the external server and back to the platform.
- Policy Name. Appears if you selected Web Content Monitor in the Metric Type field. Enter or select
 the Web Content policy that the ScienceLogic platform should use to calculate the value for this
 metric. To calculate a value for the metric, the ScienceLogic platform aggregates statistics collected
 using this Web Content policy on each device. The values for the statistic are aggregated using the
 method specified in the Aggregation field (Average, Minimum, Maximum, Sum, Standard
 Deviation, Device Count, or Percentile). If you selected the checkbox for Show only metrics
 available for this IT Service, this field displays a list of Web Content policies that are already aligned
 with one or more of the devices in the IT Service or in the specified Device Subset. If you did not select
 the checkbox, enter a the name of a Web Content policy in this field.
- Metric. Appears if you selected Web Content Monitor in the Metric Type field. Specify the Web Content statistic to aggregate for this metric. Choices are:
 - Verification Succeeded. Indicates whether or not the content was found on the website (1) or was not found on the website (0).
 - Connection Time
 - Domain Name Lookup Time
 - Page Size
 - Download Speed
 - Transaction Time
- Policy Name. Appears if you selected SOAP/XML Transaction Monitor in the Metric Type field. Enter or select the SOAP/XML Transaction policy that the ScienceLogic platform should use to calculate the value for this metric. To calculate a value for the metric, the ScienceLogic platform aggregates statistics collected using this SOAP/XML Transaction policy on each device. The values for the statistic are aggregated using the method specified in the **Aggregation** field (Average, Minimum, Maximum, Sum, Standard Deviation, or Device Count). If you selected the checkbox for **Show only metrics available for this IT Service**, this field displays a list of SOAP/XML Transaction policies that are already aligned with one or more of the devices in the IT Service or in the specified **Device Subset**. If you did not select the checkbox, enter the name of a SOAP/XML Transaction policy in this field.
- Metric. Appears if you selected SOAP/XML Transaction Monitor in the Metric Type field. Specify the SOAP/XML Transaction statistic to aggregate for this metric. Choices are:
 - Transaction Verification Succeeded. Indicates whether the transaction was successfully verified (1) or was not successfully verified (0).
 - Connection Time
 - Domain Name Lookup Time

- Download Size
- Download Speed
- Transaction Time
- Domain Name. Appears if you selected Domain Name Monitor in the Metric Type field. Enter or select the Domain Name policy that the ScienceLogic platform should use to calculate the value for this metric. To calculate a value for the metric, the ScienceLogic platform aggregates statistics collected using this Domain Name Transaction policy on each device. The values for the statistic are aggregated using the method specified in the Aggregation field (Average, Minimum, Maximum, Sum, Standard Deviation, Device Count or Percentile). If you selected the checkbox for Show only metrics available for this IT Service, this field displays a list of Domain Name Transaction policies that are already aligned with one or more of the devices in the IT Service or in the specified Device Subset. If you did not select the checkbox, enter the name of a Domain Name Transaction policy in this field.
- Metric. Appears if you selected Domain Name Monitor in the Metric Type field. Specify the Domain Name statistic to aggregate for this metric. Choices are:
 - Domain Lookup Succeeded. Indicates whether the domain lookup was successful (1) or failed (0).
 - Domain Lookup Time. Indicates the lookup time, in seconds, for a specified record.
- **Dependent Service**. Appears if you selected Aligned Service Dependency or Dependency Key Metric in the **Metric Type** field. Select the IT Service that includes the metric you want to use.
- Service Metric. Appears if you selected Aligned Service Dependency or Dependency Key Metric in the Metric Type field. Select a metric aligned with the IT Service policy you selected in the **Dependent Service** field. This metric will inherit its values from the selected metric. If you selected Dependency Key Metric in the Metric Type field, the choices are the Key Metrics:
 - *Health*. The health of the dependent IT services. Health values are represented by integers 0 (healthy) through 4 (critical).
 - Availability. The availability of the dependent IT services. Availability values are 0 (unavailable) and 1 (available).
 - *Risk*. The risk of the dependent IT services. Risk values are percentages (0 100).
- Guide Text. Optionally, enter a description for the metric.
- 5. Select the [Save] button to save your new metric.

NOTE: You can define advanced metrics. Advanced metrics allow you to perform arithmetic operations on the aggregated data and combine multiple sources of aggregated data together. For example, you could specify an advanced metric that combines the download speed from the web content monitors and the SOAP/XML transaction monitors associated with the devices in the IT Service policy. For details on advanced metrics, see the section *Defining Advanced Metrics*.

6. You can use the remaining fields to define an optional alert and optional event associated with the metric.



- 7. To define an associated alert and event, supply a value in each of the following fields:
 - Metric Alerting. Specifies whether or not you want the ScienceLogic platform to generate an alert for this metric. Choices are:
 - No Alert Policy. The platform will not trigger alerts for this metric.
 - Single Threshold. The platform will trigger an alert when the metric meets or exceeds a specified threshold. The platform will clear the alert when the metric no longer meets or exceeds the threshold.
 - Trigger/Reset Thresholds. The platform will trigger an alert when the metric falls within the "Critical" threshold. The platform will reset the alert when the metric falls within the "Healthy" threshold.
 - Alert Policy Name. Name of the alert. When you define an alert, the ScienceLogic platform automatically creates an event policy that corresponds to this alert. This name will appear in the name of the event policy.
 - Event Severity. When the alert is generated, the ScienceLogic platform will trigger an event with the selected event severity. Choices are: Critical, Major, Minor, Notice, or Healthy.

- **Decreasing/Increasing**. Toggles whether the alert is triggered when the value for the metric is above a specific threshold (Increasing) or below a specific threshold (Decreasing).
- Alert Threshold. Use sliders to define the threshold at which the alert should be generated and trigger an event and the threshold at which the alert should be reset and no longer trigger an event.
- Event Policy Description. Optionally enter cause and resolution text for the event. When the ScienceLogic platform automatically creates an event policy for this alert, the text you supply in this field will be used to populate the Policy Description field in the Event Policy Editor for the event. If this event is triggered, the text you supply in this field will be displayed in the Event Information modal page for the event.
- 8. Select the **[Save]** button to save your new alert.

Editing Metrics

You can edit one or more metrics from the Service Metric Editor modal page. To do so:

- Go to IT Service Manager page (Registry > IT Services > IT Service Manager). Find the IT Service policy you want to edit. Select its wrench icon (2).
- 2. Select the [Metrics] sub-tab.
- 3. In the top pane, find the metric you want to edit, and select its wrench icon(\mathscr{P}).
- 4. If you are editing in **Basic mode**, the Service Metric Editor modal page appears:

Edit Service Metric			Close / Esc
Service Metric Editor Editing Metric			Reset
Service Metric Name	Metric Type	Device Subset	Aggregation
Active Calls: CTS Endpoints Metric Classification	Internal		[Sum]
[Standard Metric]	Show only metrics available for t	Device Metric	
Active State	Device Availability		
[Enabled]	Device Availability: Percentage Value	1	
	Guide Text		
			.::
Metric Alerting	Alert Policy Name		Event Severity
[No Alert Policy]		Critical	·
	Alert Threshold	75	Increasing 👻
0	Healthy	le la	Critical 100
Alert Policy not defined.			
	Event Policy Descrip	tion	
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B Z U Style - Forma	t 🛛 👻 Font	▼ Size ▼ 7	💁 🌆 · တ 🖂
[L	ОК		

5. If you are editing in Advanced mode, the Service Metric Editor (Advanced) page appears:

lit Service Metric	Close / Et
ervice Metric Editor Editing Metric	Reset
Service Metric Name	Metric Formula
Active Calls: CTS Endpoints	(0_6400)
Metric Classification	
[Standard Metric]	
Active State	
[Enabled]	
Metric is Percentage Value	Aggregation Objects (Double-click to insert)
Abbreviation / Suffix Data Unit Description	o_6399: Video Call Statistics: Active Call Count (Sum)
	o_6400: Video Call Statistics: Active Call Count (Sum) o_6403: Video Call Statistics: Active Call Count (Sum)
	o 6401: Video Call Statistics: Active Call Count (Sum)
	Guide Text
	ок

6. You can edit the values in one or more fields. Select the [Save] button to save your changes to the metric.

Key Metrics

Key Metrics are the standard method for describing the status of an IT Service. Key Metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services require very different metrics that aggregate very different performance data. For example, you can define "health" for a remote backup service and also define "health" for an Internet bandwidth service, even though you would use different criteria to measure the health of those two services.

All IT Service policies define how the ScienceLogic platform should calculate the following Key Metrics for the IT Service:

- *Health*. The health of an IT Service can be one of the five standard severity values: Healthy, Notice, Minor, Major, or Critical.
- Availability. The availability of an IT Service can be either available or unavailable.
- **Risk**. The risk of an IT Service is a percentage value that indicates how close an IT Service is to being in an undesirable state.

The definition of a Key Metric specifies:

- The metric the ScienceLogic platform should examine to determine a value for the Key Metric.
- One or more threshold values. These thresholds translate values from the metric into values for the Key Metric. For example, "5 or greater" could translate to "critical".

The ScienceLogic platform collects and calculates the value for each Key Metric at the frequency specified in the *Aggregation Frequency* field in the **[Properties]** sub-tab in the **IT Service Editor** page.

The ScienceLogic platform generates an event if the **Service Health** Key Metric has a value of Notice, Minor, Major, or Critical.

To view the value for each Key Metric for an IT Service, see the corresponding column values in the **IT Service Manager** page (Registry > IT Services > IT Service Manager).

Each IT Service policy includes default definitions for each Key Metric. The default definition for each Key Metric uses the default metric **Average Device Availability** (automatically included with each new IT Service policy). You can edit the default definitions to suit your business needs.

To view and edit the definitions of each Key Metric for an IT Service policy:

- Go to the IT Service Manager page (Registry > IT Services > IT Service Manager). Either create a new IT Service policy ([Create] button) or edit an existing policy (wrench icon *P*).
- 2. After Defining the Basic Properties of an IT Service Policy and Defining the List of Devices for an IT Service Policy, select the [Metrics] sub-tab.
- 3. In the top pane, you will see the default metric, **Average Device Availability**. If you have already defined additional custom metrics, they will also appear in the top pane.

4. In the bottom pane, you will see the three Key Metrics:

		\$				New Re	eset Gui	
operties Model Collection Metrics	Alerti	ng Sc	hedule				Adva	nce
rvice Metric Definitions [7]							Del A	۱do
Service Metric Name •	Unit	State	Vital	Alerting	Device Metric	Device Subset	Aggregation	
. Active Calls: CTS Endpoints		Enabled	No	No			Sum	
2. Average Maximum Jitter: Video Endpoints		Enabled	No	No			Average	
3. AMCU Active Ports		Enabled	No	No			Sum	
. ATotal Maximum Bandwidth: CTS Endpoints		Enabled	No	No		-	Sum	
. <i>P</i> Total Maximum Bandwidth: Video Endpoints		Enabled	No	No			Sum	
 Protal Maximum Bandwidth: Video MCUs 		Enabled	No	No			Sum	
7. Active Call Statistics: Active Call Count (Enabled	No	No	-	-	Sum	
						[Select Action]		Go
y Metrics								
	t (
	t (2		3			
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vice Health Video Call Statistics: Active Call Count	Notice		2	Minor		4 Critical	Increasing 5	
vice Health Video Call Statistics: Active Call Coun	Notice		2	Minor		4 Critical	Increasing 5	
vice Health Video Call Statistics: Active Call Count	Notice		2	Minor		4 Critical	Increasing 5	
rvice Health Video Call Statistics: Active Call Count	Notice		2	Minor	Major	4 Critical	Increasing 5	Go
Vice Health Video Cal Statistics: Active Cal Count	Notice hreshold)]		2	Minor	Major	4 Critical	Increasing 5 Increasing 5	
Video Cal Statistics: Active Cal Coun I Heathy I (use Service Heath metric, Heathy rive Rsk [(use Service Heath metric, Heathy rive Rsk [(use Service Heath metric, Heathy rive Rsk]	Notice hreshold)]		2	Minor	Major	4 Critical	Increasing 5 Increasing 5	
Vice Health Video Cal Statistics: Active Cal Coun Healthy I (use Service Health metric, Critical It Vice Availability [[(use Service Health metric, Healthy r Vice Risk [] (use Service Health metric, Healthy r	Notice hreshold)]		2	Minor	Major	4 Critical	Increasing	
Video Cal Statistics: Active Cal Coun I Heathy I (use Service Heath metric, Heathy rive Rsk [(use Service Heath metric, Heathy rive Rsk [(use Service Heath metric, Heathy rive Rsk]	Notice hreshold)]		2	Mnor	Major	4 Critical	Increasing 5 Increasing 5	
Vice Health Video Cal Statistics: Active Cal Coun Healthy Healthy (juse Service Health metric, Critical It Nice Risk [(use Service Health metric, Healthy r 0 [] 0 [] 0 [] 0 [] 0 [] 0 [] 0 [] 0 []	Notice hreshold)]		2	Minor	Major	4 Critical	Increasing	Ge

- Service Health. Appears in the Health column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Healthy, Notice, Minor, Major, and Critical.
 - By default, the Service Health metric is aligned with the Average Device Availability metric.
 - By default, the **Service Health** metric has a range of 0 100 and has thresholds set at 25, 50, 75, 90, and 100.
 - To align the **Service Health** metric with another *custom metric*, select that custom metric from the drop-down list that appears above the **Service Health** Key Metric.
 - To change the minimum range, enter a new value in the field the to the far left of the threshold slider. To change the maximum range, enter a new value in the field to the far right of the threshold slider.
 - To customize the thresholds, use the sliders or manually enter values to align with Healthy, Notice, Minor, Major, and Critical.

- Service Availability. Appears in the Availability column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Available and Unavailable.
 - By default, this Key Metric is aligned with the same metric as **Service Health**, converting Critical **Service Health** to Unavailable and all other **Service Health** values to Available.
 - By default, the **Service Availability** metric has a range of 0 100 and has a single threshold set at 25.
 - To align the **Service Availability** metric with another **custom metric**, select that custom metric from the drop-down list that appears above the **Service Availability** Key Metric.
 - To customize the thresholds, use the sliders or manually enter values to align with Unavailableand Available.
 - To change the minimum range, enter a new value in the field the to the far left of the threshold slider. To change the maximum range, enter a new value in the field to the far right of the threshold slider.
- Service Risk. Appears as a percentage in the Risk column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are 0% 100%.
 - By default, this Key Metric is aligned with the same metric as **Service Health**, converting the threshold between *Health* and *Notice* **Service Health** to 100% and the healthiest possible value to 0%.
 - By default, the **Service Risk** metric has a range of 0 100 and has a single threshold set at 90.
 - To align the **Service Risk** metric with another *custom metric*, select that custom metric from the drop-down list that appears above the **Service Risk** Key Metric.
 - To customize the thresholds, use the sliders or manually enter values to align with *Critical Risk* (red colored) and *Acceptable Risk* (all other colors).
 - You can also customize the thresholds for how the ScienceLogic platform translates the value for the selected metric into a percentage value.
 - To change the minimum range, enter a new value in the field to the far left of the threshold slider. To change the maximum range, enter a new value in the field to the far right of the threshold slider.

Defining Advanced Metrics

After defining a metric, you can edit the metric in Advanced mode. In Advanced mode, you can perform arithmetic operations on the aggregated data for a metric and combine multiple sources of aggregated data together. The formula for an advanced metric is similar to the formulas you would define for an alert object or a presentation object in a Dynamic Application.

- The Service Metric Editor (Advanced) page does not appear when you create a new metric. When you create a new metric, the Service Metric Editor page appears.
- The Service Metric Editor (Advanced) page appears only when you edit an existing metric in Advanced mode. To toggle on and off Advanced mode, select the [Advanced] button.
- After you save a metric with advanced features, you can no longer edit that metric in [Basic] mode.

To define an advanced metric:

- Go to IT Service Manager page (Registry > IT Services > IT Service Manager). Find the IT Service policy you want to edit. Select its wrench icon (*P*).
- 2. In the IT Service Editor page, select the [Metrics] sub-tab.
- 3. If you have not yet created a metric, perform the steps to create a metric.
- 4. In the Service Metric Definitions pane, select the [Advanced] button to enable Advanced mode.
- 5. In the **Service Metric Definitions** pane, in the top pane, find the metric you want to edit, and select its wrench icon (*P*).
- 6. The Service Metric Editor (Advanced) page appears:

Edit Service Metric	Close / Esc
Service Metric Editor Editing Metric	Reset
Service Metric Name	Metric Formula
Active Calls: CTS Endpoints	(0_6400)
Metric Classification	
[Standard Metric]	
Active State	
	Assessation Objects (Double aliek to ispart)
Metric is Percentage Value	Aggregation Objects (Double-click to insert) o_6399: Video Call Statistics: Active Call Count (Sum)
Abbreviation / Suffix Data Unit Description	o_6400: Video Call Statistics: Active Call Count (Sum)
	o_6403: Video Call Statistics: Active Call Count (Sum) o 6401: Video Call Statistics: Maximum Combined Bandwidth (Sum)
	Guide Text
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- 7. You can edit the values in one or more fields:
 - Service Metric Name. Enter a name for the metric.
 - Metric Classification. Specifies whether the metric will be displayed in the IT Service Summary page in widgets that display vital metrics. Choices are:
 - Service Vital Metric. This metric will appear in widgets that display vital metrics.

- Standard Metric. This metric will not appear in widgets that display vital metrics.
- Active State. Specifies whether the ScienceLogic platform should currently collect data for the metric and evaluate alerts for the metric. Choices are:
 - Enabled. The platform will collect data for the metric and evaluate alerts for the metric.
 - Disabled. The platform will not collect data for the metric and evaluate alerts for the metric.
- Metric is Percentage Value. If selected, the next two fields are populated automatically. If not selected, you can supply custom values in the next two fields.
- Abbreviation/Suffix. Abbreviation for the unit of measure used in the metric.
- Data Unit Description. Description of the unit of measure used in the metric.
- Metric Formula. Area where you can perform arithmetic operations on one or more aggregation objects. For details, see the section on the Metric Formula pane.
- Aggregation Objects. After you define a metric, the ScienceLogic platform creates a collection object and an aggregation object for the metric. The aggregation object tells the ScienceLogic platform the type of performance data to aggregate, the devices for which data will be aggregated, and the method of aggregation (average, maximum, minimum, sum, standard deviation, count) to perform on the data.
- Guide Text. Optionally, enter a description for the metric.
- 8. Select the **[Save]** button to save your changes to the metric. The metric will now appear as an Advanced Metric. You can no longer edit this metric in **Basic** mode.

Metric Formula pane

The **Metric Formula** pane allows you to define which aggregation object(s) the ScienceLogic platform will use for each metric and also allows you to perform manipulations on those aggregation object(s).

- The scrolling list below the **Metric Formula** pane contains a list of all aggregation objects in the current IT Service policy. To include an object in the **Metric Formula** pane, double-click on it.
- To use the calculated value of an aggregation object, you can enter only the aggregation object ID in the **Metric Formula** pane.
- The ScienceLogic platform can perform additional processing to calculate the values for the metric. To specify additional calculations, you can use any combination of arithmetic operations, numeric values, and aggregation object IDs. Parentheses are used to group and set precedence for operators.
- You can use the PHP ternary operator when applying calculations to a metric.

For example, suppose you want a metric that shows the percentage of database servers that are up and running.

- Suppose object o_4095 specifies the sum of all mysqld processes running on all devices in the Database subset.
- Suppose object o_4096 specifies the device count for all devices in the Database subset.

• You could enter the following in the Metric Formula pane:

((o 4095/o 4096) * 100)

• This formula allows you to use aggregation objects to calculate a ratio and convert the ratio to a percentage.

Suppose you want assign a secondary value to a metric, based on the current value of the aggregation object, o_ 10187. For example, suppose you want to assign values like this:

- If $o \ 10187 > 95\%$ then value = 1
- If o 10187 > 75 % but < 95% then value = 0.8
- If o 10187 > 50 % but < 75% then value = 0.5
- Else value = 0

You could use ternary operators to do this:

(o_10187 > 95) ? 1 : ((o_10187 > 75) ? 0.8 : ((o_10187 > 50) ? 0.5 : 0))

Editing Collection and Aggregation for a Metric in Advanced Mode

When you define and save a metric, the ScienceLogic platform creates the following objects for the metric:

- Device Metric Collection object. A collection object for a metric specifies the type of performance data that will be aggregated for the metric and the devices in the IT Service for which data will be aggregated.
- Aggregation object. An aggregation object for a metric specifies the collection object and the method of aggregation (average, maximum, minimum, sum, standard deviation, count, and percentile) to perform on the collected values.
- Metric definition. The metric definition (which can be edited in the Service Metric Editor (Advanced) page) specifies the name of the metric, the active state for the metric, the unit of measure for the metric, the aggregation object to include in the metric, and any advanced calculations for the metric.

In **Advanced** mode, you can edit the collection object and aggregation object for an existing metric. In **Advanced** mode, you can add and edit collection objects, aggregation objects, and the metric formula independently of each other. You can edit the device metric collection object and/or aggregation object for a metric even if you don't want to define an advanced metric formula.

Editing a Collection Object for a Metric

To add or edit a device metric collection object for an existing metric:

- Go to the IT Service Manager page (Registry > IT Services > IT Service Manager). Find the IT Service policy you want to edit. Select its wrench icon (P).
- 2. Select the [Metrics] tab.

2

- 3. In the **Service Metrics Definitions** pane, find the metric for which you want to edit the collection object. Note the value in the **Device Metric** column.
- 4. Select the **[Advanced]** button to enable **Advanced** mode.
- 5. Select the **[Collection]** tab.

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Video Conference Statistics: Usage			Dynamic App	hours	-	
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6. In the **Device Metric Collections** pane, find the collection object you want to edit. It will have the same name as the value you previously noted from the **Device Metric** column. Select its wrench icon (*P*). If you want to create a new device metric collection object, select the **[Add]** button.

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Metric Typ	e	Device Subset	
Internal	-	(All Devices in Service)	-
Show only metrics available		e Metric	
Device Availability			-

- 7. The **Device Metric Collection Editor** modal page appears. In this page, you can define or edit one or more of the following fields:
 - Metric Type. Specifies the type of performance data you want to use for the metric. For a description of each choice, see the section on Defining Metrics.
 - **Device Subset**. If you have defined one or more **device subsets**, you can select one in this field. The metric will use data from only devices in the selected subset.
 - Show only metrics available for this IT Service. Filters the succeeding fields so that they display
 already-defined policies aligned with one or more of the devices in the IT Service or in the specified
 Device Subset. For example, if you selected Dynamic App in the Metric Type field, and then selected
 this checkbox, the Dynamic Application field would display only Dynamic Applications that are
 already aligned with one or more of the devices in the IT Service or in the specified Device Subset.
 - The remaining fields provide further parameters for the *Metric Type*. For a detailed description of each possible field and field option, see the section on *Defining Metrics*. If you want to change the parameters of a metric, you can do so in these fields.
- 8. Select the [OK] button to save your changes to the collection object.
- 9. Select the **[Reset]** button to clear your changes from the device metric collection object and return to the previous values.
- 10. Select the [Save] button in the IT Service Editor page to save your changes.

Editing an Aggregation Object for a Metric

To add or edit an aggregation object for an existing metric:

- Go to the IT Service Manager page (Registry > IT Services > IT Service Manager). Find the IT Service policy you want to edit. Select its wrench icon (2).
- 2. Select the [Metrics] tab.
- 3. In the **Service Metrics Definitions** pane, find the metric for which you want to edit the aggregation object. Note the value in the **Device Metric** column.
- 4. Select the [Advanced] button to enable Advanced mode.

5. Select the [Collection] tab.

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vice Metric Collections [6]					Del
Device Metric •	,		Metric Type	Unit	Device Subset
. AVideo Call Statistics: Usage			Dynamic App		-
			Dynamic App		
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6. In the **Aggregation Objects** pane, find the aggregation object you want to edit. The name for the aggregation object will begin with the value you previously noted from the **Device Metric** column. Select its wrench icon (*P*). If you want to create a new aggregation object, select the **[Add]** button.

Id Metric Collection			Close / E
Device Metric Collection Editor			Reset
Metric Type		Device Subset	
Internal	💌 (All D	evices in Service)	-
Show only metrics available for the			
	Device Metric		
Device Availability			-
Device Availability: Percentage Value			
	ОК		
		•	

- 7. The **Device Metric Aggregation Editor** modal page appears. In this page, you can edit one or more of the following fields:
 - *Metric Collection*. Displays the name of the device metric collection object and the associated device subset in parentheses. You can select from a list of all device metric collection objects in the current IT Service policy.
 - **Aggregation**. Specifies how the ScienceLogic platform will aggregate ("crunch") the data specified in the device metric collection object into a single value. Choices are:
 - Average
 - Maximum
 - Minimum
 - Sum
 - Std Dev
 - Count
 - *Percentile*. Aggregates data by percentile. Enter the percentile value you want to monitor in the field to the right of the **Aggregation** field. For example, if you select *Percentile* and enter 65 in the field to the right of the **Aggregation** field, this metric will contain the value that is at the 65th percentile for each collection of the metric.
 - Aggregation Name. The name of the aggregation object. You can edit this value. By default, the value is the name of the collection object and the value from the Aggregation field in parentheses.
- 8. Select the **[OK]** button to save your changes to the aggregation object.
- 9. Select the [Reset] button to clear your changes from the aggregation object and return to the previous values.
- 10. Select the [Save] button in the IT Service Editor page to save your changes.

Editing Alerts and Events in Advanced Mode

In Advanced mode, you can edit or define an alert separately from its associated metric.

- If you created an alert for a metric (when you created the metric), you can edit the alert in Advanced mode.
- If you did not create an alert for a metric when you created the metric, you can **add an alert** in **Advanced** mode.

To edit an existing alert or create an alert for an IT Service policy:

- Go to the IT Service Manager page (Registry > IT Services > IT Service Manager). Find the IT Service policy you want to edit. Select its wrench icon (2).
- 2. Select the [Advanced] button to enable Advanced mode.
- 3. Select the [Alerting] tab.
- 4. To edit an existing alert, select its wrench icon (*P*).

5. To create a new alert, select the [Add] button. The Service Alert Policy Editor modal page appears:

d Alert Policy			Close /
rvice Alert Policy Editor			Reset
Alert Policy Name			Service Metric Name
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Policy State Enabled	Single Threshold	nold Type	Event Severity Critical
	Alert Threshold		75
0	Healthy		Critical
rigger alert when CTS Endpoint Usage is greater tha	n or equal to 75. Reset alert whe	n CTS Endpoint Usage is stric	tly less than 75.
	Event Polic	y Description	
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B I U Style - Fo		▼ Size	• Ter der 10 a
		ок	

- 6. To edit an alert, edit the value in one or more of the following fields. To create an alert, supply a value in each of the following fields.
 - Alert Policy Name. Name of the alert. When you define an alert, the ScienceLogic platform automatically creates an event policy that corresponds to this alert. The value from this field will appear in the name of the event policy.
 - Service Metric Name. Name of the metric associated with the alert. You can select from a list of all metrics in the current IT Service policy.
 - **Policy State**. Specifies whether the ScienceLogic platform will evaluate this alert every time data is aggregated for the metric. Choices are:
 - Enabled. The platform will evaluate this alert.
 - Disabled. The platform will not evaluate this alert.

- Single Threshold. The platform will trigger an alert when the metric meets or exceeds a specified threshold. The platform will clear the alert when the metric no longer meets or exceeds the threshold.
- *Trigger/Reset Thresholds*. The platform will trigger an alert when the metric falls within the "Critical" threshold. The platform will reset the alert when the metric falls within the "Healthy" threshold.
- **Event Severity**. When the alert is generated, the ScienceLogic platform will trigger an event with the selected event severity. Choices are: Critical, Major, Minor, Notice, or Healthy.
- **Decreasing/Increasing**. Toggles whether the alert is triggered when the value for the metric is above a specific threshold (Increasing) or below a specific threshold (Decreasing).
- Alert Threshold. Use sliders to define two thresholds: the threshold at which the alert should be generated and trigger an event and the threshold at which the alert should be reset and no longer trigger an event. You can edit the maximum and minimum values for the threshold by editing the fields that appear at each end of the threshold slider.
- Event Policy Description. Optionally enter cause and resolution text for the event. When the ScienceLogic platform automatically creates an event policy for this alert, the text you supply in this field will be used to populate the Policy Description field in the Event Policy Editor for the event. If this event is triggered, the text you supply in this field will be displayed in the Event Information modal page for the event.
- 7. Select the [OK] button to save your changes to the alert.
- 8. Select the [Reset] button to clear your changes from the alert and return to the previous values.
- 9. Select the [Save] button in the Alert Policies page to save your changes.

NOTE: To view the event policy associated with an alert, go to the Event Policy Manager page (Registry > Events > Event Manager). In the Event Policy Name column, search for the value from the Alert Policy Name field for the current alert.

Scheduling Downtime for an IT Service

During maintenance mode, the ScienceLogic platform will not aggregate data for the IT Service or generate alerts and events about the IT Service. The ScienceLogic platform will continue to collect information from the devices in the IT Service but will not collect and aggregate information specific to the IT Service policy.

Viewing the Schedule Manager

The **Schedule Manager** page (Registry > IT Services > IT Services Manager > wrench icon > Schedule) displays the following information about each scheduled or recurring maintenance period for an IT Service period:

Summary Model Logs Events Tickets Administration	
IT Service Editor IT Service [5]	New Reset Guide
Properties Model Metrics Schedule Service Maintenance Schedule	Advanced
Schedule Manager Schedules Found [2]	Create Reset
Schedule Summary · Schedule Description Event ID sch id Context Timezone Start Time Duration Interval End Date	Last Run Owner Organization Visibility Enabled
1. AP One-time service One-time test service 181 0 IT Services America/New_Y: 2017-01-20 00:00:00 300 min	banderton System World Yes
2. PRecurring service Recurring test service 182 0 IT Services America/New_Yc 2017-01-18 03:00:00 60 minu Every 3rd Wedn	banderton System Organiz Yes
	[Select Action] Go
	•
Save Save As	

- Schedule Summary. Displays the name assigned to the scheduled process.
- Schedule Description. Displays a description of the scheduled process.
- **Event ID**. Displays a unique, numeric ID for the scheduled process. The ScienceLogic platform automatically created this ID for each scheduled process.
- sch id. Displays a unique, numeric ID for the schedule. The ScienceLogic platform automatically created this ID for each schedule.
- Context. Displays the area of the ScienceLogic platform upon which the schedule works.
- Timezone. Displays the time zone associated with the scheduled process.
- Start Time. Displays the date and time at which the scheduled process will begin.
- Duration. Displays the duration, in minutes, which the scheduled process occurs.
- Recurrence Interval. If applicable, displays the interval at which the scheduled process recurs.
- End Date. If applicable, displays the date and time on which the scheduled process will recur.
- Last Run. If applicable, displays the date and time the scheduled process most recently ran.
- Owner. Displays the username of the owner of the scheduled process.
- Organization. Displays the organization to which the scheduled process is assigned.

- Visibility. Displays the visibility level for the scheduled process. Possible values are "Private", "Organization", or "World".
- Enabled. Specifies if the scheduled process is enabled. Possible values are "Yes" or "No".

To edit a scheduled or recurring maintenance period for an IT Service, click its wrench icon (*P*) and update the information as needed on the **Schedule Editor** modal page. (For more information, see the section **Defining a Scheduled or Recurring IT Service Maintenance Period**.)

Defining a Scheduled or Recurring IT Service Maintenance Period

You can schedule an maintenance period for an IT Service on the **Schedule Manager** page. The ScienceLogic platform will automatically set the service to maintenance mode at the scheduled time.

To define a scheduled or recurring IT Service maintenance period:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Click the wrench icon (🎤) for the IT Service for which you want to schedule maintenance.
- 3. Click the [Schedule] sub-tab. The Schedule Manager modal page appears.
- 4. Click [Create]. The Schedule Editor modal page appears.
- 5. On the Schedule Editor modal page, enter values in the following fields:

Schedule Editor Creating New schedu	e		Reset
Basic Settings			
Schedule Name		Schedule Type	
	IT Servic	ces	
√isibility	Organization		ner
[World]	[System]	 [banderton] 	•
	Description		
Time Settings			
Time Settings Start Time	End Time	Time Zone	All Day
-	End Time	Time Zone] [[America/New_ ▼]	All Day
Start Time			All Day
Start Time YYYY-MM-DD HH:MM:SS			All Day
Start Time YYYY-MM-DD HH:MM:SS Recurrence	YYYY-MM-DD HH:MM:SS	[America/New_▼]	All Day
Prove-MM-DD HH:MM:SS Recurrence By Interval	VYYY-MM-DD HH:MM:SS	[America/New_ V	
Start Time (YYYY-MM-DD HH:MM:SS Recurrence By Interval Recur Until		[America/New_▼]	
Start Time (YYY-MM-DD HH:MM:SS Recurrence By Interval	VYYY-MM-DD HH:MM:SS Last Recurrence	[America/New_▼]	

Basic Settings

- Schedule Name. Type a name for the scheduled process.
- Schedule Type. Indicates the scheduled process type (such as Tickets, Reports, or Devices).
- Visibility. Select the visibility for the scheduled process. You can select one of the following:
 - Private. The scheduled process is visible only to the owner selected in the **Owner** field.

- Organization. The scheduled process is visible only to the organization selected in the **Organization** field.
- World. The scheduled process is visible to all users.
- Organization. Select the organization to which you want to assign the scheduled process.
- **Owner**. Select the owner of the scheduled process. The default value is the username of the user who created the scheduled process.
- **Description**. Type a description of the scheduled process.

Time Settings

- Start Time. Click in the field and select the date and time you want the scheduled process to start.
- End Time. Click in the field and select the date and time you want the scheduled process to end.
- Time Zone. Select the region or time zone for the scheduled start time.

NOTE: If you want the ScienceLogic platform to automatically adjust for daylight savings time (if applicable), then you must select a named region (such as *America/New York*) in the *Time Zone* field. If you select a specific time zone (such as *EST*) or a specific time offset (such as *GMT-5*), then the ScienceLogic platform will not automatically adjust for daylight savings time.

- All Day. Select this checkbox if the scheduled process occurs all day rather than during a specific period of time. If you do so, the **End Time** field becomes disabled.
- **Recurrence**. Select whether you want the scheduled process to occur once or on a recurring basis. You can select one of the following:
 - None. The scheduled process occurs only once.
 - By Interval. The scheduled process recurs at a specific interval.

If you select By Interval, the following additional fields appear:

- Interval. In the first field, enter a number representing the frequency of the scheduled process, then select the time interval in the second field. Choices are Hours, Days, Weeks, or Months. For example:
 - If you specify "6 Hours", then the scheduled process recurs every six hours from the time listed in the **Start Date** field.
 - If you specify "10 Days", then the scheduled process recurs every 10 days from the date listed in the **Start Date** field.
 - If you specify "2 Weeks", then the scheduled process recurs every two weeks, on the same day of the week as the **Start Date**.
 - If you specify "3 Months" the ticket recurs every three months, on the same day of the month as the **Start Date**.

- **Recur Until**. Specifies when the scheduled process stops recurring. You can select one of the following:
 - No Limit. The scheduled process recurs indefinitely until it is disabled.
 - Specified Date. The scheduled process recurs until a specific date and time. If you select Specified Date, you must select a date and time in the **Last Recurrence** field.
- Last Recurrence. Click in the field and select the date and time you want the scheduled process to stop recurring.
- 6. Click [Save].

Enabling or Disabling One or More Scheduled IT Service Maintenance Periods

You can enable or disable one or more scheduled or recurring IT Service maintenance periods from the **Schedule Manager** page (Registry > IT Services > IT Services Manager > wrench icon > Schedule). To do this:

 Go to the Schedule Manager page (Registry > IT Services > IT Services Manager > wrench icon > Schedule).

Summery Model Logs IT Service Editor IT Service [5] Properties Model Metrics Schedule Service Maintenance Schedule Schedule Manager Schedules Found		kets Administration			New Res	Advanced
Schedule Wanager Schedules Found Schedule Summary Schedule Describion 1. POne-time service One-time test service 2. Precurring service Recurring test service	Event ID sch id Context	America/New_Yc 2017-01-20 00:00:00	Recurrence interval End Date 300 min 60 minu Every 3rd Wedn	: <u>Last Run</u> 	Owner Organization	Veibility Enabled 2 World Yes 0 Organiz Yes
					[Select Action]	Go
					Administration: _DELETE Schedules _ENABLE Schedules _DISABLE Schedules	
4		Save	Save As			•

- 2. Select the checkbox icon for each scheduled process you want to enable or disable.
- 3. Click the Select Action menu and choose Enable Schedules or Disable Schedules.
- 4. Click the **[Go]** button.

Deleting One or More Scheduled IT Service Maintenance Periods

You can delete one or more scheduled or recurring IT Service maintenance periods from the **Schedule Manager** page (Registry > IT Services > IT Services Manager > wrench icon > Schedule). To do this:

 Go to the Schedule Manager page (Registry > IT Services > IT Services Manager > wrench icon > Schedule).

Summary Model Logs Events Tickets Administration T Service Editor IT Service (5)	New Reset Guide
Properties Model Metrics Schedule	New Reset Guide Advanced
Service Maintenance Schedule	
Schedule Manager Schedules Found [2]	Create Reset
Schedule Description Event ID sch. id Context Timezone Start Time Duration Interval End Date Last Run 1 % One-time service 00n-time test service 161 0 If Services America/New_Vt 2017-01-20 00:000 00 min	Owner Organization Vebility Enabled ☑ banderton System World Ves ✔ banderton System Organiz Ves ☑
	[Select Action] Co [Select Action] Co [Administration: Co DELEAS Schedules DISABLE Schedules
Serve Serve As	

- 2. Select the checkbox icon for each scheduled process you want to delete.
- 3. Click the **Select Action** menu and choose Delete Schedules.
- 4. Click the **[Go]** button.

Editing an IT Service Policy

To edit the properties of an IT Service policy:

1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).



- 2. Find the IT Service policy you want to edit. Select its wrench icon (\checkmark).
- 3. The **IT Service Editor** page is displayed:

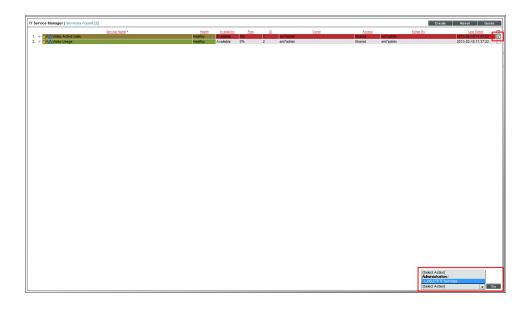
Summary Model Logs	Events Tickets Administration	
Service Editor IT Service [2]		New Reset Guide
Properties Model Metrics Schedule		Advanced
IT Service Name	Sharing Permis	sions Icon
New IT Service Policy	[Private (visible to you only)]	
IT Service Owner	Permission Ke Change Owner EM7 System Administration	eys
Configuration Mode	Grant All	
[Basic Interface]	Basic User Privileges Power-Pack Administration	=
	Provisioning Access Admin Portal UI Access IT Services	
Data Collection		
Operational Status [Aggregation enabled]	Aggregation Frequency [Every 15 minutes]	Raw Data Retention [Use system default retention setting]
Frequent Rollup Retention	Hourly Rollup Retention	Daily Rollup Retention
[Use system default retention setting]		[Use system default retention setting]
	Save Save As	

- 4. Notice that by default the **[Administration]** tab is selected and the **[Properties]** sub-tab is selected.
- 5. You can edit one or more fields in the **IT Service Editor** page, its sub-tabs, or any of the main tabs for the IT Service.

Deleting an IT Service Policy

To delete one or more IT Service policies:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Find the IT Service policy you want to delete. Select its checkbox (\square).
- 3. Select the checkbox for each IT Service policy you want to delete.
- 4. Go to the Select Action field in the lower right of the page. Select Delete IT Services. Select the [Go] button.



5. Each selected IT Service policy is removed from the ScienceLogic platform.

System Settings that Affect IT Services

Some of the parameters in the Data Retention Settings page affect IT services in the platform.

To define or edit the settings that affect discovery in the **Data Retention Settings** page:

- 1. Go to the **Data Retention Settings** page (System > Settings > Data Retention).
- 2. In the Data Retention Settings page, edit the values in one or more of the following fields:
 - **Raw ITSM Data**. Before the value for a metric in an IT service policy is calculated, a copy of all the device data that will be aggregated is saved. This setting is the number of days to retain the unaggregated copies of device data associated with each IT service. The default value is 14 days.

- ITSM Service Metrics Data. Number of days to retain values for metrics in IT service policies. The default value is 30 days.
- Hourly Rollup ITSM Service Metrics Data. Number of days to retain hourly normalized values for metrics in IT service policies. The default value is 120 days.
- Daily Rollup ITSM Service Metrics Data. Number of days to retain daily normalized values for metrics in IT service policies. The default value is 365 days.
- *ITSM Key Metrics Data*. Number of days to retain values for key metrics in IT service policies (Health, Availability, and Risk). The default value is 120 days.
- Hourly Rollup ITSM Key Metrics Data. Number of days to retain hourly normalized values for key metrics in IT service policies (Health, Availability, and Risk). The default value is 365 days.
- Daily Rollup ITSM Key Metrics Data. Number of days to retain daily normalized values for key metrics in IT service policies (Health, Availability, and Risk). The default value is 720 days.
- 3. Select the **[Save]** button to save changes in this page.

IT Service Policies in PowerPacks

IT Service policies can be included in PowerPacks for export and import between ScienceLogic systems.

When an IT Service policy is included in a PowerPack, the following properties of the IT Service policy are included:

- The settings defined in the **[Properties]** sub-tab in the **IT Service Editor**. However, the following system-specific values are substituted when the PowerPack is installed:
 - The *IT Service Owner* field is set to the user that installed the PowerPack.
 - The values that were selected in the *Permission Keys* field are removed.
- The dynamic device rules defined in the [Model] sub-tab in the IT Service Editor. Statically aligned devices, device groups, and service dependencies are not included.
- The device subsets defined in the [Model] sub-tab in the IT Service Editor. However, only dynamic device rules are included in those subsets. Statically aligned devices are not included.
- All settings defined in the [Metrics], [Collection], and [Alerting] sub-tabs in the IT Service Editor.

When a PowerPack that includes an IT Service policy is installed on a ScienceLogic system, the following items are also installed by the PowerPack:

- All event policies associated with the IT Service policy.
- All interface tags that are specified in a metric in the IT Service policy.

Additionally, if a metric uses a Dynamic Application that is not included in the same PowerPack, the ScienceLogic platform will automatically include the Dynamic Application in the PowerPack. When the PowerPack is installed on a ScienceLogic system, the ScienceLogic platform will install the Dynamic Application (with their aligned PowerPack GUIDs). However, if the platform discovers one or more of the Dynamic Applications in the PowerPack already exists on the ScienceLogic system, the platform will not overwrite the existing Dynamic Applications.

Chapter

Viewing IT Services

3

Overview

This chapter describes the pages in which you can view information about an IT Service.

Viewing the List of IT Service Policies

The **IT Service Manager** page (Registry > IT Services > IT Service Manager) displays the following about each IT Service policy:

IT Sen	vice Manager Services Found [2]								Crea	te Reset Guide
	Service Name *	Operation	Health	Availability	Risk		Owner	Access	Edited By	Last Edited
1. +	A Monty Test Service 1	Enabled	Critical	Unavailable	100%	2	em7admin	Shared	em7admin	2016-02-23 22:05:33
2. +	🥕 🛃 Test Advanced selections in ITSM	Enabled	Critical	Unavailable	100%	6	em7admin	Shared	em7admin	2016-04-11 13:37:05
									[Select Action]	▼ Go
Inc. All r	ights reserved.									

- **TIP**: To sort the list of policies, click on a column heading. The list will be sorted by the column value, in ascending order. To sort by descending order, click the column heading again. The *Last Edited* column sorts by descending order on the first click; to sort by ascending order, click the column heading again.
- Service Name. Name of the policy.
- *Health*. This is a default Key Metric for each IT Service policy. This metric specifies the overall health of the IT Service. Possible values are: critical, major, minor, notice, and healthy.
- Availability. This is a Key Metric for each IT Service policy. This metric specifies the overall availability of the IT Service. Possible values are: available or unavailable.
- **Risk**. This is a Key Metric for each IT Service policy. This metric specifies the overall risk to the IT Service. Possible values are 0% 100%, in integer values.
- ID. Unique numeric identifier, automatically assigned to the policy by the ScienceLogic platform.
- Owner. User who created the policy.
- Access. Specifies whether other users can view and use the policy. Shared policies can be viewed by other users who belong to the same organization as the creator. A private policy can be viewed only by the creator of the policy and administrators.
- Edited By. User who created or last edited the policy.
- Last Edited. Date and time the policy was created or last edited.

Filtering the List of IT Services

The Filter-While-You-Type fields appear as a row of blank fields at the top of the list. These fields allow you to filter the items that appear in the list.

The list is dynamically updated as you select each filter. For each filter, you must make a selection from a dropdown menu or type text to match against. The ScienceLogic platform will search for entries that match the text, including partial matches. Text matches are not case-sensitive, and you can use special characters in each text field.

By default, the cursor is placed in the first Filter-While-You-Type field. You can use the <Tab> key or your mouse to move your cursor through the fields.

You can filter by one or more of the following parameters. Only items that meet all of the filter criteria are displayed on the page.

The following describes each filer on the IT Service Manager page:

• Service Name. Filter by the name of the IT service policy. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching service name.

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- **Operation**. Specifies whether the IT service policy is enabled or disabled. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching operational state (Enabled or Disabled).
- *Health*. This is a default Key Metric for each IT service policy and specifies the overall health of the IT service. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching health status.
- Availability. his is a Key Metric for each IT service policy and specifies the overall availability of the IT service. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching availability status.
- **Risk**. This is a Key Metric for each IT service policy and specifies the overall risk to the IT service, in percent. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching risk status.
- *ID*. Unique numeric identifier, automatically assigned to the policy by EM7. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching policy ID.
- **Owner**. User who created the policy. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching value for owner.
- Access. Specifies whether other EM7 users can view and use the policy. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching value for access.
- *Edited By*. EM7 user who created or last edited the policy. You can enter text to match, including special characters, and the IT Service Manager page will display only IT service policies that have a matching value for edited by.
- Last Edited. Date and time the IT service policy. You can select from a list of time periods. The IT Service Manager page will display only IT service policies that have been edited within that time period.

SpecialCharacters

You can include the following special characters to filter by each column except those that display date and time:

NOTE: When searching for a string, the ScienceLogic platform will match substrings by default, even if you do not include any special characters. For example, searching for "hel" will match both "hello" and "helicopter". When searching for a numeric value, the ScienceLogic platform will not match a substring unless you use a special character.

String and Numeric

• , (comma). Specifies an "OR" operation. Works for string and numeric values. For example:

"dell, micro" matches all values that contain the string "dell" OR the string "micro".

• & (ampersand). Specifies an "AND " operation. Works for string and numeric values. For example:

"dell & micro" matches all values that contain both the string "dell" AND the string "micro", in any order.

• ! (exclamation point). Specifies a "not" operation. Works for string and numeric values. For example:

"!dell" matches all values that do not contain the string "dell".

"! ^ micro" would match all values that do not start with "micro".

"!fer\$" would match all values that do not end with "fer".

"! ^ \$" would match all values that are not null.

"! ^ " would match null values.

"!\$" would match null values.

"happy, !dell" would match values that contain "happy" OR values that do not contain "dell".

NOTE: You can also use the "!" character in combination with the arithmetic special characters (min-max, >, <, >=, <=, =) described below.

• * (asterisk). Specifies a "match zero or more" operation. Works for string and numeric values. For a string, matches any string that matches the text before and after the asterisk. For a number, matches any number that contains the text. For example:

"hel*er" would match "helpers" and "helicopter" but not "hello".

"325*" would match "325", "32561", and "325000".

"*000" would match "1000", "25000", and "10500000".

• ? (question mark). Specifies "match any one character". Works for string and numeric values. For example:

"l?ver" would match the strings "oliver", "levers", and "lover", but not "believer".

"135?" would match the numbers "1350", "1354", and "1359", but not "135" or "13502"

String

• ^ (caret). For strings only. Specifies "match the beginning". Matches any string that begins with the specified string. For example:

"^sci" would match "scientific" and "sciencelogic", but not "conscious".

- " ^ happy\$" would match only the string "happy", with no characters before or after.
- "! ^ micro" would match all values that do not start with "micro".
- "! ^ \$" would match all values that are not null.
- "! ^ " would match null values.

• \$ (dollar sign). For strings only. Specifies "match the ending". Matches any string that ends with the specified string. For example:

"ter\$" would match the string "renter" but not the string "terrific".

" ^ happy\$" would match only the string "happy", with no characters before or after.

"!fer\$" would match all values that do not end with "fer".

"! ^ \$" would match all values that are not null.

"!\$" would match null values.

NOTE: You can use both ^ and \$ if you want to match an entire string and only that string. For example, " ^ tern\$" would match the strings "tern" or "Tern" or "TERN"; it would not match the strings "terne" or "cistern".

Numeric

• min-max. Matches numeric values only. Specifies any value between the minimum value and the maximum value, including the minimum and the maximum. For example:

"1-5 "would match 1, 2, 3, 4, and 5.

• - (dash). Matches numeric values only. A "half open" range. Specifies values including the minimum and greater or including the maximum and lesser. For example:

"1-" matches 1 and greater. So would match 1, 2, 6, 345, etc.

"-5" matches 5 and less. So would match 5, 3, 1, 0, etc.

• > (greater than). Matches numeric values only. Specifies any value "greater than". For example:

">7" would match all values greater than 7.

• < (less than). Matches numeric values only. Specifies any value "less than". For example:

"<12" would match all values less than 12.

• >= (greater than or equal to). Matches numeric values only. Specifies any value "greater than or equal to". For example:

"=>7" would match all values 7 and greater.

• <= (less than or equal to). Matches numeric values only. Specifies any value "less than or equal to". For example:

"=<12" would match all values 12 and less.

• = (equal). Matches numeric values only. For numeric values, allows you to match a negative value. For example:

"=-5 " would match "-5" instead of being evaluated as the "half open range" as described above.

Additional Examples

- "aio\$". Matches only text that ends with "aio".
- "^shu". Matches only text that begins with "shu".
- "^silo\$". Matches only the text "silo", with no characters before or after.
- "!silo". Matches only text that does not contains the characters "silo".
- "! ^ silo". Matches only text that does not start with "silo".
- "!0\$". Matches only text that does not end with "0".
- "! ^ silo\$". Matches only text that is not the exact text "silo", with no characters before or after.
- "! ^". Matches null values, typically represented as "--" in most pages.
- "!\$". Matches null values, typically represented as "--" in most pages.
- "!^\$". Matches all text that is not null.
- silo, laggr". Matches text that contains the characters "silo" and also text that does not contain "aggr".
- "silo, 02, laggr". Matches text that contains "silo" and also text that contains "02" and also text that does not contain "aggr".
- "silo, 02, laggr, !01". Matches text that contains "silo" and also text that contains "02" and also text that does not contain "aggr" and also text that does not contain "01".
- "^s*i*l*o\$". Matches text that contains the letter "s", "i", "l", "o", in that order. Other letters might lie between these letters. For example "sXiXIXo" would match.
- "!^s*i*l*o\$". Matches all text that does not that contains the letter "s", "i", "l", "o", in that order. Other letters might lie between these letters. For example "sXiXIXo" would not match.
- "!vol&!silo". Matches text that does not contain "vol" AND also does not contain "silo". For example, "volume" would match, because it contains "vol" but not "silo".
- "!vol&02". Matches text that does not contain "vol" AND also contains "02". For example, "happy02" would match, because it does not contain "vol" and it does contain "02".
- "aggr, !vol&02". Matches text that contains "aggr" OR text that does not contain "vol" AND also contains "02".
- "aggr,!vol&!infra". Matches text that contains "aggr" OR text that does not contain "vol" AND does not contain "infra".
- "*". Matches all text.
- "!*". Matches null values, typically represented as "--" in most pages.
- "silo". Matches text that contains "silo".
- "!silo". Matches text that does not contain "silo".
- "!^silo\$". Matches all text except the text "silo", with no characters before or after.
- "-3,7-8,11,24,50-". Matches numbers 1, 2, 3, 7, 8, 11, 24, 50, and all numbers greater than 50.

- "-3,7-8,11,24,50-,a". Matches numbers 1, 2, 3, 7, 8, 11, 24, 50, and all numbers greater than 50, and text that includes "a".
- "?n". Matches text that contains any single character and the character "n". For example, this string would match "an", "bn", "cn", "1 n", and "2 n".
- "n*SAN". Matches text the contains "n", zero or any number of any characters and then "SAN". For example, the string would match "nSAN", and "nhamburgerSAN".
- "^?n*SAN\$". Matches text that begins with any single character, is following by "n", and then zero or any number of any characters, and ends in "SAN".

Viewing an IT Service Dashboard

The **IT Service Summary** page allows you to view the IT Service Dashboards that have been configured for the selected IT Service. For more information about creating and customizing IT Service Dashboards, see the **Creating and Editing IT Service Dashboards** chapter.

To view an IT Service dashboard in the ScienceLogic platform:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the View IT Service Icon () for the IT Service you want to view. The **IT Service Summary** page is displayed with the default dashboard for this IT Service selected:

T Service Summary IT Service [3]			Actions Reset Guide
[IT Service Details]			
Service Name (IT Service Example Service Owner em/2dmin Service Visibility System, T88550rg1, T88550rg2 Maintenance State Service Active	Service Health Unknov Service Availability Unknov Service Risk Unknov	vn	Problem Management Logs 48 Active Events 0 Active Tickets 0
Service Vitals	No Matching Data (Last	12 hours)	
	06.00	08:00	10 [°] 00 12 [°] 00 14 [°] 00 16 [°] 00 — No Matching Data
	Activity Log		
	Date/Time 2013-02-18 17 281 22 2013-02-18 17 27 43 2013-02-18 17 27 43 2013-02-18 17 27 43 2013-02-18 17 27 43 2013-02-18 17 27 43	Type Log Log Log Log Log Log Log Log Log Log	Description TSM UI: em7admin Updated IT Service: Added Static Device 0: 10.168.44.202 (74) ITSM UI: em7admin Updated IT Service: Added Static Device 1: 10.767.477 ITSM UI: em7admin Updated IT Service: Added Static Device 3: 10.20.3010 (225) ITSM UI: em7admin Updated IT Service: Added Static Device 3: 10.20.3013 (316) ITSM UI: em7admin Updated IT Service: Added Static Device 3: 10.20.3013 (316) ITSM UI: em7admin Updated IT Service: Added Static Device 3: 10.20.3013 (316) ITSM UI: em7admin Created IT Service: Range 0: Threshold 1: 90 ITSM UI: em7admin Created IT Service: Range 0: Threshold 2: 75 ITSM UI: em7admin Created IT Service: Range 0: Threshold 3: 75 ITSM UI: em7admin Created IT Service: Range 0: Threshold 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Presentation 0-1 ITSM UI: em7admin Created IT Service: Range 0: Presentation 0-1 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Service: Range 0: Created 3: 25 ITSM UI: em7admin Created IT Ser

3. The main pane of the dashboard will display one or more graphs, charts, and tables, called *widgets*. The widgets in an IT Service dashboard are configured to automatically display information about the IT Service you selected.

The ScienceLogic platform includes the following widgets that are specifically designed for IT Service dashboards:

- IT Service Details. Displays the following information about an IT Service:
 - Service Name
 - Service Owner
 - Service Visibility
 - Maintenance State
 - Service Health
 - Service Availability
 - Service Risk
- IT Service Vitals. Displays the current value for each Key Metric defined for an IT Service.
- IT Service Problem Management. Displays the number of logs, active events, and active tickets associated with an IT Service.
- IT Service Health Last 12 Hours. Displays a graph of the Availability metric. The y-axis displays percent availability. The x-axis displays time in one-hour increments.
- IT Service Activity Log. Displays a list of all current and past alerts and events associated with an IT Service.

The **[Actions]** menu allows you to perform many dashboard-related tasks, directly from the current page. The **[Actions]** menu looks like a button and is located in the upper right of the page.

The [Actions] menu in the IT Service Summary page contains the following entries:

- Configure dashboard.... Displays the Dashboard Settings modal page, where you can edit the layout properties and Access Keys for the currently displayed dashboard. For a full description of the Dashboard Settings modal page, see the Creating and Editing IT Service Dashboards chapter.
- Set as default. Sets the current dashboard as the default dashboard for this IT Service.
- Use system default. If the default dashboard for this IT Service is not the system default, this option appears. This option sets the system default IT Service dashboard as the default dashboard for this IT Service.
- **Create Dashboard**. Creates a new IT Service dashboard. The new dashboard is configured to be viewable only for the current IT Service by default.
- Copy Dashboard (Save As). Saves a copy of the currently selected dashboard.

Other Views for IT Services

The IT Service Model View page allows you to view:

- A list of all devices that are currently members of an IT Service and a list of devices in each subset of the IT Service.
- A simplified, sortable view of the of all devices that are currently members of an IT Service.
- A relational map of the subsets and metrics that have been defined for an IT Service.

To view the IT Service Model View page for an IT Service:

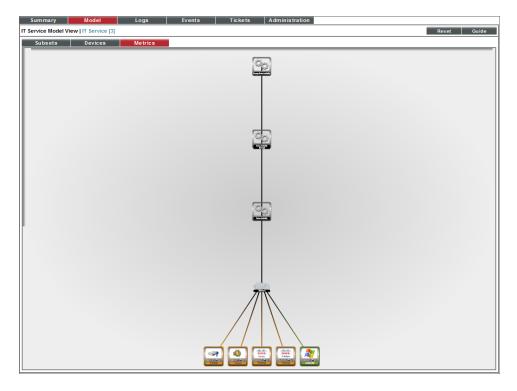
- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the View IT Service icon (4) for the IT Service you want to view.
- 3. Select the **[Model]** tab.
- 4. Select one of the following sub-tabs:
 - [Subsets]. Displays a list of all devices that are currently members of an IT Service and a list of devices in each subset of the IT Service:

	Model	Logs	Events	Tickets	Administration				
Service Model Viev	w IT Service [3]							Rese	t Guide
Subsets	Devices	Metrics							
			Device Subset	Name •			De	vice Count Colle	cted Device Metrics
 – (All Devices in 	n Service)						5	1	
	Device I	Name •	IP Address	Category	Class Sub-class	ID		Organization	
1. 📶 10-Forv	ward		10.20.30.195	Servers	NET-SNMP FreeBSD	201	System		
2. 10.168.	44.202		10.168.44.202	Pingable	Microsoft ICMP	74	System		
3. 10.20.3	0.108		10.20.30.108	Router	Cisco Systems 2501	225	System		
4. 10.20.3	0.135		10.20.30.135	Switches	Cisco Systems Catalyst 3508G-XL	316	System		
5. 10.20.3	0.201		10.20.30.201	Unknown	Generic SNMP	106	System		

• **[Devices]**. Displays a simplified, sortable view of all devices that are currently members of an IT Service:

Summary Model Logs Events	Tickets Administration
T Service Model View IT Service [3]	Reset Guide
	Keset Guide
Subsets Devices Metrics	
	Search (name or IP): [Group devices by Severity]
Major	
···································	▲ 20 ±0 1 1 2 ±0 5 ±0 ±0 ±0 ±0 ±0 ±0 ±0 ±0 ±0 ±0 ±0 ±0 ±0
E Healthy	

• [Metrics]. Displays a relational map of the subsets and metrics that have been defined for an IT Service:



Viewing Events for an IT Service

To view the events associated with an IT Service:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the View IT Service icon (🎝) for the IT Service you want to view.
- 3. Select the [Events] tab.



- 4. The IT Service Events page displays the following about each event:
- **TIP**: To sort the list of events, click on a column heading. The list will be sorted by the column value, in ascending order. To sort by descending order, click the column heading again. The *Last Detected* column sorts by descending order on the first click; to sort by ascending order, click the column heading again.
 - Event Message | Severity. Message generated for the event. The Message is color-coded fro severity.
 - Acknowledged. If the event has been acknowledged, this column displays a red checkmark character and specifies the user who acknowledged the event. If the event has not been acknowledged, this field displays a gray checkmark character. To acknowledge an event, click in this column.
 - Ticket. If a ticket has been created for the event, this column displays the ticket ID of that ticket.
 - **External Ticket**. The numeric ID associated with a ticket from an external ticketing system (that is, a ticket that was not created in the ScienceLogic platform). If this field displays a value, you can click on that value to spawn a new window and view the external ticket.

NOTE: To link an external ticket to an event, you must create a custom Run Book Automation policy and a custom Run Book Action or use the ScienceLogic APIs. For help with these tasks, contact ScienceLogic Customer Care.

- Aged/Elapsed. Number of days, hours, and minutes since the last occurrence of the event.
- Last Detected. Date and time the event last occurred on this entity.
- **EID**. Unique ID for the event, generated by the ScienceLogic platform.
- Source. System or application that generated this event. Choices are:
 - Syslog. Event was generated from system log generated by a device.
 - *Email*. Event was generated by an Email from an external agent, for example, Microsoft Operations Manager (MOM).
 - Internal. Event was generated by the ScienceLogic platform.
 - Trap. Event was generated by an SNMP trap.
 - Dynamic. Event was generated by a Dynamic Application collecting data from the device.
 - API. Event was generated by another application.
 - Count. Number of times this event has occurred.

You can perform the following actions from the IT Service Events page:

• To acknowledge an event, select the checkmark icon (2) in the Acknowledged column.

- To view a summary of an event, select the information icon (🔍).
- To view a summary of the automation actions that were triggered by an event, select the notification icon (
- To create a new ticket about an event, select the life-ring icon (🐸).

Filtering the List of Events

The **IT Service Events** page includes a filter for each column, except **Age/Elapsed**. You can specify one or more parameters to filter the display of events. Only events that meet all the filter criteria will be displayed in the **IT Service Events** page.

The list of events is dynamically updated as you select each filter.

TIP: To return to the default list of events, select the **[Reset]** button.

- For each filter (except *Last Detected*), you must enter text to match against. The ScienceLogic platform will search for events that match the text, including partial matches. Text matches are not case-sensitive. You can use the following special characters in each filter:
 - , (comma). Specifies an "or" operation. For example:

"dell, micro" matches all values that contain the string "dell" OR the string "micro".

• & (ampersand). Specifies an "and" operation. For example:

"dell & micro" matches all values that contain the string "dell" AND the string "micro".

• ! (exclamation mark). Specifies a "not" operation. For example:

"!dell" matches all values that do not contain the string "dell".

- **Event Message**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **IT Service Events** page will display only events that have a matching event message.
- Acknowledged. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the IT Service Events page will display only events that have been acknowledged by a matching user account.
- *Ticket*. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **IT Service Events** page will display only events that have a matching ticket ID.
- **External Ticket**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **IT Service Events** page will display only events that have a matching external ticket name or ID.

- Last Detected. Only those events that match the specified detection date will be displayed. The choices are:
 - All. Display all events that match the other filters.
 - Last Minute. Display only events that have been detected within the last minute.
 - Last Hour. Display only events that have been detected within the last hour.
 - Last Day. Display only events that have been detected within the last day.
 - Last Week. Display only events that have been detected within the last week.
 - Last Month. Display only events that have been detected within the last month.
 - Last Year. Display only events that have been detected within the last year.
- *EID*. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the *IT Service Events* page will display only events that have a matching event ID.
- **Source**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **IT Service Events** page will display only events that have a matching source.
- **Count**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **IT Service Events** page will display only events that have a matching count number.

You can also apply advanced filters to the list of events. To apply advanced filters:

- 1. Click on the funnel icon ().
- 2. In the advanced filter fields, supply values.
- 3. Select the [Apply] button to apply the filters.

Viewing the Logs for an IT Service

To view the logs that the ScienceLogic platform has generated about an IT Service:

- 1. Go to the IT Service Manager page (Registry > IT Services > IT Service Manager).
- 2. Select the View IT Service icon (4) for the IT Service you want to view.

3. Select the **[Logs]** tab.

		Logs Events Tickets Administration Reset Gui
ervice Logs IT Servic	e [3]	Reset Gui
Log Timestamp •	Source	Message
1. 2013-02-19 11:15:14	ITSM Event	IT Service State Notice: IT Service Example
2. 2013-02-19 11:10:14	ITSM Event	IT Service State Notice: IT Service Example
3. 2013-02-19 11:05:14	ITSM Event	IT Service State Notice: IT Service Example
4. 2013-02-19 11:00:07	ITSM Event	IT Service State Notice: IT Service Example
5. 2013-02-19 10:55:06	ITSM Event	IT Service State Notice: IT Service Example
6. 2013-02-19 10:50:06	ITSM Event	IT Service State Notice: IT Service Example
7. 2013-02-18 17:28:12	ITSM UI	em7admin Updated IT Service: Added Static Device 0 : 10.168.44.202 (74)
8. 2013-02-18 17:28:12	ITSM UI	em7admin Updated IT Service: Added Static Device 1 : 10-Forward (201)
9. 2013-02-18 17:28:12	ITSM UI	em7admin Updated IT Service: Added Static Device 2 : 10.20.30.108 (225)
0. 2013-02-18 17:28:12	ITSM UI	em7admin Updated IT Service: Added Static Device 3 : 10.20.30.135 (316)
1. 2013-02-18 17:28:12	ITSM UI	em7admin Updated IT Service: Added Static Device 4 : 10.20.30.201 (106)
2. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 0 : Threshold 1 : 90
3. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 0 : Threshold 2 : 75
4. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 0 : Threshold 3 : 50
5. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 0 : Threshold 4 : 25
6. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 0 : Presentation ID -1
7. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 0 : Max Value 100
8. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 0 : Scale Type 1
9. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 1 : Threshold 0 : 25
0. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 1 : Max Value 100
1. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 1 : Scale Type 1
2. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 1 : Default Target 1
3. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 2 : Threshold 0 : 100
4. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 2 : Threshold 100 : 90
5. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 2 : Max Value 100
6. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Range 2 : Scale Type 1
7. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Keys 0 : 1
8. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: IT Service Owner 1
9. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Icon _generic_cloud.png
0. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Sharing Permission 1
1. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Collection 0 : Name Device Availability (Average)
2. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Collection 0 : OID Type -1
3. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Collection 0 : OID avg
4. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Collection 0 : Class 2
5. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Collection 0 : Unit %
6. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Presentation 0 : Name Average Device Availability
7. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Presentation 0 : Formula (o1)
8. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Presentation 0 : Suffix %
9. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Presentation 0 : Gauge 1
0. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Presentation 0 : Unit percentage
1. 2013-02-18 17:27:43	ITSM UI	em7admin Created IT Service: Request 0 : Name Device Availability
2 2013 02 18 17-27-43	ITSM III	am7admin Craatad IT Sanvice: Danuaet A - Namaenana internal

- 4. The **IT Service Logs** page displays the following about each log entry:
 - Log Timestamp. The date and time the entry was made in the log.
 - Source. The process that generated the log entry. This column will contain the value ITSM Event.
 - Message. The text of the log entry.

Viewing Tickets for an IT Service

To view the tickets associated with an IT Service:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the View IT Service icon (\clubsuit) for the IT Service you want to view.
- 3. Select the [Tickets] tab.

Summary	Model	Logs	Events	Tickets	Administration				
IT Service Tickets	IT Service [3]						Actions	Reset Guid	le
		Queue	Status						
1. GTICKET FO	R IT SERVICE: IT Service	e Example ID: 3	scription / Severity •			2	Asset Management	Open	-
2. TICKET FO	R IT SERVICE: IT Service	e Example ID: 3				3	Asset Management	Open	H

4. The IT Service Tickets page displays the following about each ticket:

TIP: To sort the list of tickets, click on a column heading. The list will be sorted by the column value, in ascending order. To sort by descending order, click the column heading again.

- **Description/Severity**. Description of the problem or request. This field is color coded based on the ticket's severity.
- TID. Unique ID assigned to the ticket by the ScienceLogic platform.

- **Queue**. Ticket Queue to which the ticket is assigned.
- **Status**. Status of the ticket.
- 5. You can perform the following actions from the **IT Service Tickets** page:
 - To view a summary of a ticket, select the information icon (().
 - To open the **Ticket Editor** for a ticket, select the life-ring icon (⁴).
 - To create a new ticket about the IT Service, select the [Actions] menu, and then select Create Ticket.

Chapter

4

Creating and Editing IT Service Dashboards

Overview

The **IT Service Summary** page allows you to view one or more dashboards that have been configured for the selected IT Service. A dashboard is a page that displays one or more graphical reports, called widgets. Each widget is displayed in its own page.

The ScienceLogic platform includes a default IT Service dashboard that displays general information that is available for all IT Services. You can create additional IT Service dashboards that can be made available in the **IT Service Summary** for one, multiple, or all IT Services.

Viewing the List of IT Service Dashboards

The **IT Service Dashboards** page (Registry > IT Services > IT Service Dashboards) displays the following about each IT Service dashboard in your ScienceLogic system:



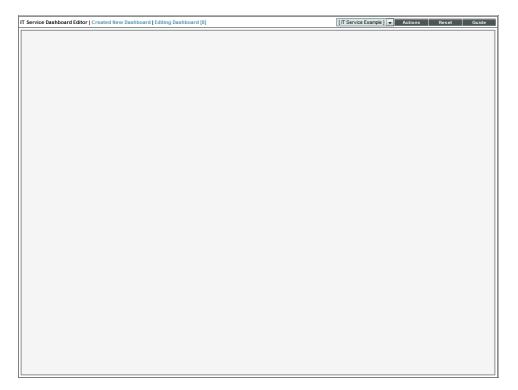
TIP: To sort the list of dashboards, click on a column heading. The list will be sorted by the column value, in ascending order. To sort by descending order, click the column heading again. The *Last Edited* column sorts by descending order on the first click; to sort by ascending order, click the column heading again.

- Dashboard Name. Name of the dashboard.
- Service Association. Specifies the IT Services associated with this dashboard. If a dashboard is associated with an IT Service, the dashboard can be viewed in the **IT Service Summary** page for that IT Service. The possible values in this field are:
 - System Default. The dashboard is associated with all IT Services and is displayed when the **IT Service Summary** page loads.
 - All Services. The dashboard is associated with all IT Services.
 - Selected Services. The dashboard is associated with multiple, but not all, IT Services.
 - The name of a specific IT Service. The dashboard is associated with only the IT Service specified in this field.
- Edited By. User who created or last edited the dashboard.
- Last Edited. Date and time the dashboard was created or last edited.

Creating an IT Service Dashboard

To create an IT Service dashboard:

- 1. Go to the IT Service Dashboards page (Registry > IT Services > IT Service Dashboards).
- 2. Select the [Create] button.
- 3. The IT Service Dashboard Editor page is displayed:



4. The following sections describe how to configure an IT Service dashboard.

Configuring Dashboard Settings

If you want to edit the name, layout, or IT Service association for an IT Service dashboard, you can edit the general settings for that dashboard. To do this from the **IT Service Dashboard Editor** page:

1. Select the [Actions] menu and choose Configure dashboard....

Dashboard Settings			Close / Esc					
Dashbo	ard Title	IT Service						
New IT Service Dashbo	ard	(All Services)	-					
Minimum Size (d	urrent: 1062x772)	Excluded Services						
Screen Width	Screen Height	Video Active Calls	*					
800	600	Video Usage						
🖂 I ask daabbaard la		IT Service Example						
Lock dashboard la	-		-					
Merge adjacent bo	orders		*					
	Cate	egory						
Configuration			*					
CUCM								
Events								
Filters/Controls			-					
IT Services								
	Keywords (comma separated)							
	Save							

- 2. In the **Dashboard Settings** modal page, supply a value in the following fields:
 - **Dashboard Title**. Enter a name for the dashboard. This name is displayed in the **Select Dashboard** field in the top-left of the **IT Service Summary** page.
 - Screen Width. Enter the minimum screen width required to view the whole dashboard at once. If a user views the dashboard at a resolution that has a smaller screen width than the value in this field, a horizontal scroll bar will be displayed. For convenience, the current size of the dashboard as viewed in your monitor is displayed in parentheses above the Screen Width and Screen Height fields.
 - Screen Height. Enter the minimum screen height required to view the whole dashboard at once. If a user views the dashboard at a resolution that has a smaller screen height than the value in this field, a vertical scroll bar will be displayed. For convenience, the current size of the dashboard as viewed in your monitor is displayed in parentheses above the Screen Width and Screen Height fields.
 - Lock Dashboard Layout. Select this checkbox to prevent the dashboard from being edited. When
 this checkbox is selected, a user viewing the dashboard cannot add, move, or modify widgets while
 viewing the dashboard. To edit a dashboard that has the Lock Dashboard Layout checkbox
 selected, a user must access the Dashboard Settings page and uncheck the Lock Dashboard
 Layout checkbox. This option is most useful for preventing users from accidentally modifying a
 dashboard.

- Merge Adjacent Borders. If the Lock Dashboard Layout checkbox is selected, this option is available. If you select this checkbox, widgets that appear next to each other will share a border. If this checkbox is not selected, a gap appears between each widget. If this checkbox is selected, the borders of adjacent widgets are merged.
- IT Service. Select how this dashboard will be associated with IT Services. If a dashboard is associated with an IT Service, the dashboard can be viewed in the IT Service Summary page for that IT Service. Choices are:
 - All Services. Select this option to associate the dashboard with all IT Services. You can
 optionally select one or more IT Services that will be excluded from this association in the *Excluded Services* field.
 - Selected Services. Select this option to associate the dashboard with multiple, but not all, IT Services. If you select this option, select one or more IT Services to associate with this dashboard in the *Included Services* field.
 - The name of a specific IT Service. Select a single IT Service to associate with the dashboard.
- **Category**. Select one or more categories to associate with the dashboard. To select multiple categories, hold down the **<Ctrl>** key (or **Command** on Apple computers) when you select the categories.
- Keywords (comma separated). Enter a comma-delimited list of keywords to associate with the dashboard.
- 3. Select the **[Save]** button to save your changes to the dashboard settings.

Context in IT Service Dashboards

The **context** of a dashboard is a set of values that control what is displayed in one or more widgets on the dashboard. Widgets can be configured to:

- Define the context, by allowing a user to select one or more values.
- Read the context, by updating to include only information about the selected values.
- Both define and read the context.

When a user views an IT Service dashboard in the **IT Service Summary** page, the selected IT Service is automatically defined in the context, i.e. all widgets in the dashboard that are configured to read the context will automatically include only information about the selected IT Service.

For example, suppose an instance of the **Leaderboard/Top-N** widget is included on an IT Service dashboard. Suppose that in the **Widget Configuration** page for the widget, the **Use Device-related Context** checkbox is selected. If you view the IT Service dashboard in the **IT Service Summary** page for an IT Service, the **Leaderboard/Top-N** widget will include only devices in that IT Service. If the IT Service dashboard is configured to display for multiple IT Services, the **Leaderboard/Top-N** widget will display different data for each IT Service.

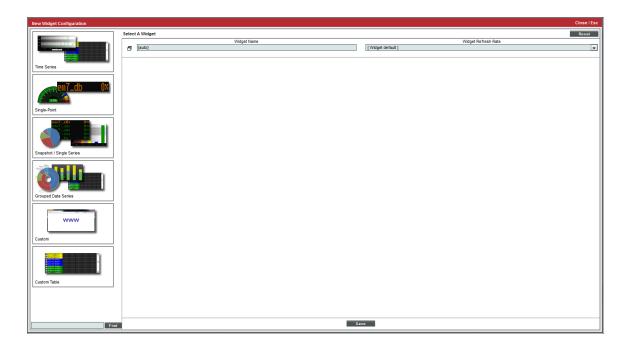
Adding Widgets to a Dashboard

To add a widget to an IT Service dashboard from the **IT Service Dashboard Editor** page left-click and drag with your mouse to draw a rectangle in the main dashboard pane. This shape will determine the initial size and position of the widget in your dashboard.

- 1. In the **Dashboards tab** page (Dashboards tab), in the selection field in the upper left of the page, select the dashboard to which you want to add a widget.
- 2. Click the [Actions] button, and then select Add Widget.

Or:

- 1. In the **Dashboards tab** page ([**Dashboards**] tab), in the selection field in the upper left of the page, select the dashboard to which you want to add a widget.
- 2. In the **Dashboards tab** page, left-click and drag with your mouse to draw a rectangle. This shape will determine the initial size and position of the widget in your dashboard.
- 3. The **New Widget Configuration** modal page is displayed:



4. To configure a new widget, use the left NavBar to navigate to the widget you want to include in the dashboard.

NOTE: If you are editing an **existing widget**, the **Widget Configuration** page displays the configuration panel for the widget with the **left NavBar and data type selection buttons automatically hidden**. If you want to select a new widget, you can show the left NavBar and data type selection buttons by clicking the window icon to the left of the **Widget Name** field.

- The left NavBar includes an icon for each type of data that can be displayed in a widget:
 - [Time Series]. Expands a list that includes widgets that display one or more metrics over time.
 - [Single-Point]. Expands a list that includes widgets that display a single metric.
 - **[Snapshot/Single Series]**. Expands a list that includes widgets that display single instances of a metric for multiple entities.
 - **[Grouped Data Series]**. Expands a list that includes widgets that display a single metric for multiple entities, with each metric sub-divided between multiple entities of another types. For example, a grouped data series could display a bar graph of the number of tickets in each state, with each bar in the graph divided by organization.
 - [Custom]. Expands a list that includes widgets that display custom HTML content.
 - [Custom Table]. Expands a list that includes widgets that display tabular data.
- When you expand the list of widgets that display a type of data, the NavBar displays a list of categories that are associated with the widget definitions in your system. You can expand a category to view the list of all widgets associated with that category. If a widget is associated with multiple categories, the widget will appear under each category it is associated with.
- You can search the list of widgets by entering a search term in the field that appears in the bottom-left of the page. When you click the **[Find]** button, the widgets that have a name or associated keywords that match your search term are highlighted in the left NavBar. The categories in the left NavBar will be automatically expanded and collapsed so that only categories that include a matching widget are expanded.
- 5. When you select a widget in the left NavBar, the right pane of the **Widget Configuration** page displays the configuration fields for the selected widget. Each widget definition has a different list of configuration fields.

TIP: After you select a widget, you can hide the left NavBar and data type selection buttons by selecting the window icon to the left of the **Widget Name** field.

- 6. The following fields appear in **all** widget configuration panes:
 - Widget Name. Enter a title for the widget. This title is displayed in the header that appears at the top of the widget. If you leave the default value of "{auto}" in this field, the ScienceLogic platform will automatically generate a title for the widget based on what is currently being displayed in the widget.

4

- Widget Refresh Rate. Specify how frequently the widget will be automatically updated with new data. The choices are:
 - Widget Default. The widget will refresh at its default refresh rate, as defined by the widget developer. You can view and edit the default refresh rate in the Dashboard Widgets page (System > Customize > Dashboard Widgets) by clicking the wrench icon (P) for a widget.
 - Auto-refresh disabled. The widget will not automatically refresh.
 - 1 minute. The widget will automatically refresh every minute.
 - 5 minutes. The widget will automatically refresh every 5 minutes.
 - 10 minutes. The widget will automatically refresh every 10 minutes.
 - 15 minutes. The widget will automatically refresh every 15 minutes.
 - 30 minutes. The widget will automatically refresh every 30 minutes.
 - 45 minutes. The widget will automatically refresh every 45 minutes.
 - 1 hour. The widget will automatically refresh once an hour.
- Create Template. When selected, this checkbox allows you to save the current configuration as a Quick-Add option.
- 7. Each widget contains additional fields.

NOTE: In widgets that allow you to filter the list of devices by the device class or device category, merged devices include special behavior. For merged devices, you can select either the device class or device category of the physical device or the device class or device category of the component device. If both device classes or device categories are selected, a merged device will appear twice in a single widget.

The ScienceLogic platform includes several widgets that are specifically designed for IT Service dashboards. The configuration panels for these widgets include only the default fields in the **Widget Configuration** page. These widgets always read the IT Service value from the dashboard context. The widgets for IT Services are:

- IT Service Details. Displays the following information about an IT Service:
 - Service Name
 - Service Owner
 - Service Visibility
 - Maintenance State
 - Service Health
 - Service Availability
 - Service Risk

- IT Service Vitals. Displays the current value for each Key Metric defined for an IT Service.
- IT Service Problem Management. Displays the number of logs, active events, and active tickets associated with an IT Service.
- IT Service Health Last 12 Hours. Displays a graph of the Availability metric. The y-axis displays percent availability. The x-axis displays time in one-hour increments.
- IT Service Activity Log. Displays a list of all current and past alerts and events associated with an IT Service.

You can also use any other widgets that are installed in your ScienceLogic system in an IT Service dashboard. For a description of the other default widgets supplied by ScienceLogic, see the **Dashboards** manual. To ensure that a user viewing the dashboard can view only information that they have access to, you should configure all the widgets on an IT Service dashboard to read the IT Service value from the context.

For example, suppose that on an IT Service dashboard that will be used for multiple IT Services, you want to include a line graph that displays the Health, Availability, and Risk values for an IT Service over time. To do this, you would add an instance of the **Multi-series Performance** widget to the IT Service dashboard. To ensure that the widget displays only information about the IT Service for which a user is viewing the dashboard, you would make the following selections for the **Series Selections** option in the configuration panel for the **Multi-series Performance** widget:

- Type. Select IT Service.
- *Element*. Select *Contextual Service 1*. Selecting this option tells the widget to read the IT Service value that is set in the context.
- **Collection**. Select Service Availability. The widget will display the availability values for the IT Service that is set in the context.

To add Service Health and Service Risk values to the graph, you can select the **Add another series** button, select the same **Type** and **Element** values, and then select the appropriate value in the **Collection** field.

Editing the Widgets in a Dashboard

You can edit the size and position of the widgets in a dashboard by manipulating the pane in which that widget appears:

- To move a widget, click and hold on the header of the widget, then drag the widget to a new position on the dashboard.
- To resize a widget, click and hold on the border of the widget, then drag the border to adjust the size.

Each widget has an options menu that appears in the top-right corner of the widget. The widget options menu includes the following options for editing a widget:

- **Configure**. Leads to the **Widget Configuration** modal page, where you can edit the parameters of the widget.
- Copy To.... Leads to the Copy Widget modal page, where you can copy the widget to another dashboard. To copy the widget to another dashboard, select the dashboard you want to copy the widget to in the Copy Widget To drop-down list and select the [Copy] button.

- Lower. If widgets are stacked on top of each other in the dashboard, this option sends the widget to the bottom of the stack.
- **Duplicate**. Creates a copy of the widget in the current dashboard, using the same widget definition and same parameters as the original widget.
- *Remove*. Deletes the widget from the dashboard.

Setting a Dashboard as the System Default Dashboard

In the ScienceLogic platform, there is always a default dashboard for IT Services. The default dashboard is initially displayed when a user views the **IT Service Summary** page. The default IT Service dashboard must be visible for all IT Services. If the dashboard you want to set as the default is not currently visible for all IT Services, perform the following steps from the **IT Service Dashboard Editor** page for that dashboard:

- 1. Select the [Actions] menu and choose Configure dashboard....
- 2. In the Dashboard Settings modal page, select All Services in the IT Service field.
- 3. Select the **[Save]** button.

After you have configured the dashboard to be visible for all IT Services, select the **[Actions]** menu in the **IT** Service Dashboard Editor page and choose Set as system default.

Editing an IT Service Dashboard

To edit an IT Service dashboard:

- 1. Go to the IT Service Dashboards page (Registry > IT Services > IT Service Dashboards).
- 2. Find the IT Service dashboard you want to edit. Select its wrench icon (🎤).
- 3. The **IT Service Dashboard Editor** page is displayed. For a description of the **IT Service Dashboard Editor** page, see the **Creating an IT Service Dashboard** section.

Deleting an IT Service Dashboard

To delete one or more IT Service dashboards:

- 1. Go to the IT Service Dashboards page (Registry > IT Services > IT Service Dashboards).
- 2. Find the IT Service dashboard you want to delete. Select its checkbox.
- 3. Select the checkbox for each IT Service dashboard you want to delete.
- 4. Go to the **Select Action** field in the lower right of the page. Select Delete Dashboards. Select the **[Go]** button.
- 5. Each selected IT Service dashboard is removed from the ScienceLogic platform.

Chapter

SLA Definitions, Reports, and Widgets

What is an SLA?

For service providers, an SLA is a Service-Level Agreement. An SLA is a contract between a service provider and a customer. The contract specifies the service that the provider will deliver to the customer. Some SLAs include penalties for non-compliance.

For example, an Internet service provider might guarantee 99.99% uptime for all customers.

What is an SLA Definition?

In the ScienceLogic platform, you can create an SLA Definition. The SLA Definition is a threshold. The threshold is applied to the Availability Key Metric of an IT Service policy. For example:

- Suppose we define an IT Service policy to monitor web servers.
- Suppose we define the Availability Key Metric for that IT Service policy to map to the metric that aggregates the average availability of all web servers.
- Suppose that the metric that aggregates the average availability of all web servers is set to "Critical = anything less than average availability of 99%".
- Suppose we create an SLA definition that says that the web servers must be available 99% of the time. 99% uptime allows for 432 minutes of downtime per month.
- If the IT Service policy has a polling frequency of 5 minutes, the web servers can be unavailable (average availability is less than 99%) no more than 86 polling periods per month (and still meet 99% uptime).

Creating an SLA Definition

To create an SLA Definition:

- 1. Go to the **Service Level Agreement Definitions** page (Registry > IT Services > SLA Definitions).
- 2. In the Service Level Agreement Definitions page, select the [Create] button.
- 3. The SLA Definition Editor page is displayed.

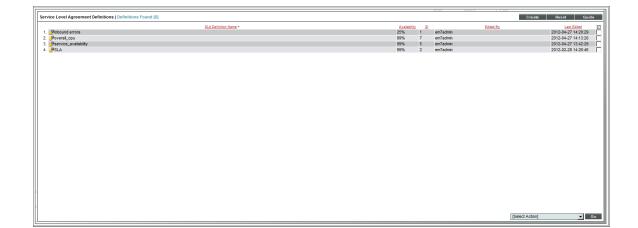
C	Create SLA Definition	Close / Esc
	SLA Definition Editor Creating Definition	Reset
	SLA Definition Name	
	SLA Availability	
	99%	
	Save	
	Save	

- 4. In the **SLA Definition Editor** page, supply values in the following fields:
 - **SLA Definition Name**. The name of the SLA Definition. Can be any combination of numbers, letters, and symbols.
 - **SLA Availability**. The threshold that will be evaluated using this SLA definition. You can select from six predefined percentage values or specify a custom value. If you select *Custom* in the drop-down list, enter a percentage value in the text field. You can evaluate an IT Service policy using this threshold; you can do this in a dashboard widget or in an SLA report.
- 5. Select the **[Save]** button to save your new SLA Definition.

Viewing the List of SLA Definitions

The **Service Level Agreement Definitions** page displays the list of existing SLA definitions. To view the list of existing SLA definitions:

1. Go to the **Service Level Agreement Definitions** page (Registry > IT Services > SLA Definitions).



2. The Service Level Agreement Definitions page displays the following about each SLA Definition:

TIP: To sort the list of SLA Definitions, click on a column heading. The list will be sorted by the column value, in ascending order. To sort by descending order, click the column heading again. The *Last Edited* column sorts by descending order on the first click; to sort by ascending order, click the column heading again.

- SLA Definition Name. The name of the SLA Definition.
- Availability. The availability, in percent, specified in the service level agreement.
- ID. Unique numeric ID for the SLA Definition, generated by the ScienceLogic platform.
- Edited By. Name of the user who created or last edited the SLA Definition.
- Last Edited. Date and time the SLA Definition was created or last edited.

Using an SLA Widget in a Dashboard

You can use a Dashboard Widget to evaluate an existing IT Service policy using an existing SLA Definition. The Dashboard Widget will then display the results. To do this, you must perform two steps:

- Create the Dashboard
- Configure the SLA Widget

The following sections describe how to perform these two tasks.

Create the Dashboard

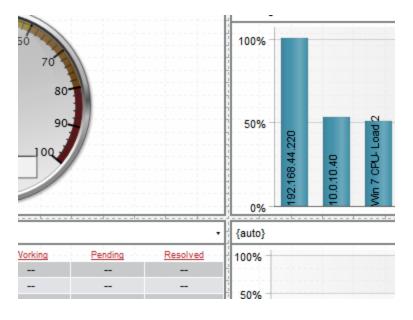
To use the SLA widget in a dashboard:

- 1. Select the [Dashboards] tab.
- 2. Select the **[New]** button. The system will create a blank dashboard with a default name.
- 3. Select the **[Actions]** menu, then select Configure Dashboard... The **Dashboard Settings** modal page is displayed, where you can configure the basic settings for the dashboard:

Dashboard Settings			Close / Esc			
Dashbo	ard Title	Access Control				
System Administrator's I	New Dashboard	[Private dashboard]	-			
Minimum Size (d	urrent: 1588x616)	Access Keys				
Screen Width	Screen Height	EM7 System Administration	A			
1200	600	Grant All				
Lock dashboard la	yout	Basic User Privileges Power-Pack Administration				
Merge adjacent bo	orders	Provisioning Access	Ŧ			
	Cate	egory				
Configuration			*			
CUCM						
Events						
Filters/Controls			+			
IT Services						
	Keywords (cor	nma separated)				
Save						

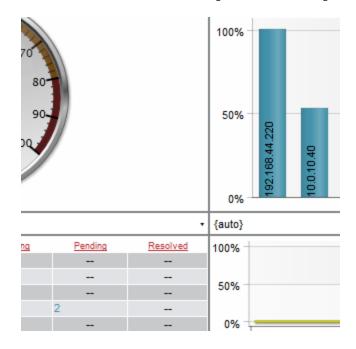
- 4. You can enter values in one or more of the following fields, or you can accept the default values:
 - **Dashboard Title**. Enter a name for the dashboard. This name is displayed in the **Select Dashboard** field in the top-left of the **Dashboards tab** page.
 - Screen Width. Enter the minimum screen width required to view the whole dashboard at once. If a user views the dashboard at a resolution that has a smaller screen width than the value in this field, a horizontal scroll bar will be displayed. For convenience, the current size of the dashboard as viewed in your monitor is displayed in parentheses above the Screen Width and Screen Height fields.
 - Screen Height. Enter the minimum screen height required to view the whole dashboard at once. If a user views the dashboard at a resolution that has a smaller screen height than the value in this field, a vertical scroll bar will be displayed. For convenience, the current size of the dashboard as viewed in your monitor is displayed in parentheses above the Screen Width and Screen Height fields.

- Lock Dashboard Layout. Select this checkbox to prevent the dashboard from being edited. When this checkbox is selected, a user viewing the dashboard cannot add, move, or modify widgets while viewing the dashboard. To edit a dashboard that has the Lock Dashboard Layout checkbox selected, a user must access the Dashboard Settings page and uncheck the Lock Dashboard Layout checkbox. This option is most useful for preventing users from accidentally modifying a dashboard.
- Merge Adjacent Borders. If the Lock Dashboard Layout checkbox is selected, this option is available. If you select this checkbox, widgets that appear next to each other will share a border.



• If this checkbox is not selected, a gap appears between each widget:

• If this checkbox is selected, the widget borders are merged:



- Access Control. Specifies whether the dashboard is viewable only by the creator or if the dashboard is viewable by other users. Choices are:
 - Share with organizations. Allows other members of the creator's organizations to view the dashboard.
 - Private dashboard. Only the dashboard's creator and administrators can view the dashboard.
- Access Keys. This field is applicable only if the dashboard is Shared. Specifies the Access Keys required to view the dashboard. If you don't select any Access Keys, no specific keys are required to view the dashboard.

If you select an Access Key in the **Required Keys** field, each user must meet the following criteria to use the dashboard:

- The user must have at least one of the Access Keys selected in the **Required Keys** field for the dashboard.
- The user must be granted an Access Key that includes the "Dash:View" and "Dash:View Shared" Access Hooks.
- The user and the creator of the dashboard must be members of the same organization.

If you do not select any Access Keys in the **Required Keys** field, any user meeting the following two requirements may access the dashboard:

- The user must be granted an Access Key that includes the "Dash:View" and "Dash:View Shared" Access Hooks.
- The user and the creator of the dashboard must be members of the same organization.

CAUTION: If a user meets the above requirements and also has been granted an Access Key that includes the "Dash:Edit Shared" Access Hook, that user will be able to edit the shared dashboard. If a user has been granted an Access Key that includes the "Dash:Add/Rem Shared" Access Hook, that user may delete shared dashboards.

- **Category**. Select one or more categories to associate with the dashboard. To select multiple categories, hold down the **[Ctrl]** key (or **[Command]** on Apple computers) when you select the categories. Categories are used to arrange the dashboard selection drop-down list in the **Dashboards tab** page. If you do not select a category in this field, the dashboard will appear under the "Other" category in the drop-down list.
- Keywords (comma separated). Enter a comma-delimited list of keywords to associate with the dashboard.
- 5. Select the [Save] button to save your changes to the dashboard settings.

SLA Definitions, Reports, and Widgets

Configure the SLA Widget

To add the SLA widget to your dashboard:

- 1. In the Dashboards tab page ([Dashboards] tab), in the selection field in the upper left of the page, select the dashboard to which you want to add a widget.
- 2. Select the [Actions] button, and then select Add Widget.

Or:

1. In the **Dashboards tab** page ([**Dashboards**] tab), in the selection field in the upper left of the page, select the dashboard to which you want to add a widget.

[Widget default]

[Current]

Vidget Refresh Ra

- 2. In the Dashboards tab page, left-click and drag with your mouse to draw a rectangle. This shape will determine the initial size and position of the widget in your dashboard.
- 3. The New Widget Configuration modal page is displayed:

Widget Nan

SLA Defin [website_resp

onse_sla (99.99%)]

SLA / Data Se

- 4. In the NavBar, expand the Single Point icon. Expand the SLA category. Select the (base) SLA Gauge.
- 5. Enter the values in the following fields:

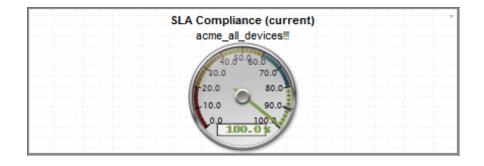
ting: (base) SLA Ga

a 🗌

• Widget Name. Enter a title for the widget. This title is displayed in the header that appears at the top of the widget. If you leave the default value of "{auto}" in this field, the ScienceLogic platform will automatically generate a title for the widget based on what is currently being displayed in the widget.

Save

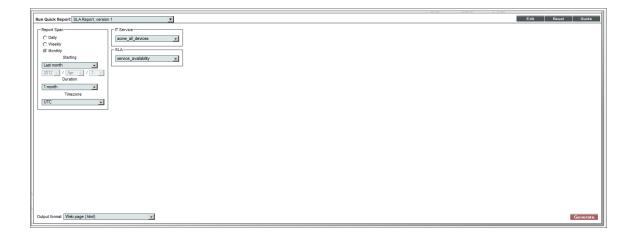
- Widget Refresh Rate. Specify how frequently the widget will be automatically updated with new data. The choices are:
 - Widget Default. The widget will refresh at its default refresh rate, as defined by the widget developer. You can view and edit the default refresh rate in the Dashboard Widgets page (System > Customize > Dashboard Widgets) by selecting the wrench icon () for a widget.
 - Auto-refresh disabled. The widget will not automatically refresh.
 - 1 minute. The widget will automatically refresh every minute.
 - 5 minutes. The widget will automatically refresh every 5 minutes.
 - 10 minutes. The widget will automatically refresh every 10 minutes.
 - 15 minutes. The widget will automatically refresh every 15 minutes.
 - 30 minutes. The widget will automatically refresh every 30 minutes.
 - 45 minutes. The widget will automatically refresh every 45 minutes.
 - 1 hour. The widget will automatically refresh once an hour.
- SLA Definition. Select the SLA you want to use as a threshold and monitor with this widget.
- Service. Select the IT Service you want to monitor with this widget.
- Compliance Period. Specify the time period you want to monitor with this widget. Choices are:
 - Current.
 - Last (most recently ended).
 - Last (ending in context range).
- Display Type. Select how the metric will be displayed in the widget:
 - Gauge
 - Column
 - Horizontal Bar
 - Scoreboard
 - Waterline Gauge
- 6. You should see a report like the following:



Generating an SLA Report

You can use a Quick Report to evaluate an existing IT Service policy using an existing SLA Definition. The Quick Report will then display the results. To do this:

1. Go the **Run Quick Report** page (Reports > Create Report > Quick Report).



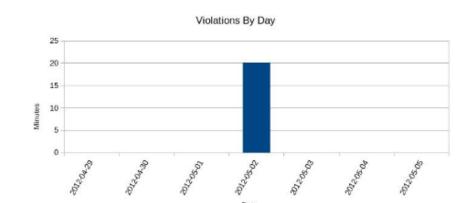
- 2. In the **Run Quick Report** drop-down list, select the report **SLA Report**.
- 3. Enter a value in each of the following fields:
 - Report Span. Specify a Daily, Weekly, or Monthly span to include in the report.
 - **Starting**. This field allows you to choose a start date. Selecting a different **Report Span** will change the options in this drop-down list.
 - **Duration**. This field allows you to specify the duration for the report. Selecting a different **Report Span** will change the options in this drop-down list.
 - *Timezone*. Specify the time zone to display in the report.
 - IT Service. Select the IT Service you want to monitor with this report.
 - SLA. Select the SLA you want to use as a threshold and monitor with this report.
 - Output Format. Specify an output format for the report.
- 4. Select the [Generate] button to generate the report.
- 5. The generated SLA report displays the target threshold and the percentage of polls that were successful. The report displays the days violations occurred and the number of minutes each violation lasted.

Sheet 1: SLA Report

.... ScienceLogic

SLA Report

Summary										
Agreement Name	IT Service Name	Target %	Compliance %							
website_response_sla	web_hosting_home	99.99000%	99.80159%							
	Violation	n Perioda								
Start Date/Time	End Date/Time	Duration	Cumulative							
2012/05/02 19:00:00	2012/05/02 19:20:00	00:20	00:20							
Total Violation Time:			00:20							



Date

Excluded Periods									
Start Date/Time	End Date/Time	Duration	Type						
No Excluded Periods									
Total Downtime:		00:00							
	Fifertia	re Times							
Da		Start	End						
Sunday		00:00	23:59						
Monday		00:00	23:59						
Tuesday		00:00	23:59						
Wednesday		00:00	23:59						

Generated Dec 05/03/2012								
	00:00	23:59						
	00:00	23:59						
	00:00	23:59						

Sheet 2: Control

.... ScienceLogic

Control – SLA Report

Description:	SLA compliance metrics
Report Version:	1
Generated On:	05/03/2012
SLA:	website_seaponse_sla
IT Service:	web_hosting_home
Start Date:	Apr 28, 2012
Duration:	1 week

Generated On: 05/05/2012

Chapter

6

Events and Run Book Policies for IT Services

Events

The ScienceLogic platform includes event definitions that can be triggered when the state of an IT Service is examined. These events are generated in addition to any custom events that you create for an IT Service.

If the state of an IT Service becomes non-healthy (notice, minor, major, or critical), the following events will be generated and displayed in the **Event Console** ([**Events**] tab):

- IT Service State Critical: Name of IT Service
- IT Service State Major: Name of IT Service
- IT Service State Minor: Name of IT Service
- IT Service State Notice: Name of IT Service

In the Event Console, you will see something like this:

Event Console Events Found (583) Collapse Custom View:	Save Delete 🥄 🕨 Se	arch: Organization 💌									Acti	Refresh Tin	sk Ri Ker. 🎎 Pa	iuse	Guide Refresh
Annalasian a		Contact Information							Severity Counts						E
- Quatomer 1	14	Collection incomption		0 Healthy	0 Nation	0	Vince	3 Major	Devency Courts	initical					
Name *	201		Event Message			everty -	Asknowledged	Ticket	Age / Elapsed	Last Detected •	EID	Source	Count	Netty	Ø
Marine -	202	1	EVEN NEXTRA			2419	CONTRACTOR OF THE OWNER OWNE	10040	CALL ENGINE	A	<u></u>	2011		(MARLY)	2
-											16924			_	
1. dLeasing 2. dSugarCRM	Device	Device Failed Availability Check: Compon Device Failed Availability Check: Compon				ajor D		-	21 hrs 38 mins 21 hrs 38 mins	2013-02-19 12:47:05 2013-02-19 12:47:06	16924	hinternal	1,299	-	8 8
3. AvApp_em7admin_7	Device	Device Faled Availability Check: Compon Device Faled Availability Check: Compon				ajor E			21 hrs 38 mins	2013-02-19 12:47:05	16923		1,299		5 16 -
							-								Ack Del
															Ack Del
gmhTest_Org	greaton			0 Healthy	0 Natice		Minor	2 Major	0.0	tritical					
Name *	7/58		Event Message			everby -	Acknowledged	Ticket	Age / Elapsed	Last Detected +	EID	Source	Count	Notify	
1						>HH				AI					
1. df7.2.2.3_VWware_test	Device	Device Failed Availability Check: Compon	ent device 279 is not available		N	ajor E	1		1 day 18 hrs	2013-02-19 12:47:03	12716	Minternal	2.532	6	. 20 1
2. #7.2.2_vmware_test	Device	Device Failed Availability Check: Compon				ajor 🛛			1 day 18 hrs	2013-02-19 12:47:03	12719	1) Internal	2,532		10
															Ack Del
														-	
ScienceLogic PM		-		0 Healthy	0 Notice		Minor	1 Major	0.0	Initical					
Name *	2/28		Event Measure		2	eventy +	Acknowledged	Ticket	Age / Elepsed	Last Detected +	EID	Source	Count	Netify	
3					1	3+H(AL					
1. attend	Device	Device Failed Availability Check: Compon	ant device 577 is not available			aior E			21 hrs 44 mins	2013-02-19 12:47:05	16844	Einternal	1.355	6	. 29 -
	00100	content and a standard content company				oper La					10011	(a)	1,010		
															Ack Del
• System	Reston VA Science	Logic Support (703)-354-1010		0 (+4) Healthy	1 (+1) Notice	0	(+51) Minor	0 (+509) Major 📕 0 (+11) Critical					
Name *	2/01		Event Message				Asknowledged	Ticket	Age / Elapsed	Last Detected •	EID	Source	Count	Netty	Ø
	2003	(T.O.	Liter Participation of the literation of the lit			and a later	101010400400	10000	Call Lenons	TAL PLACE		Sources.		internal linear second	2
1. All Service Example	IT Service	IT Service State Notice: IT Service Examp				otice E			1 hr 57 mins	2013-02-19 12:45:03	21508	Internal	24	_	a 20 -
1. All Service Example	II Service	Il service state Notice: Il service Examp	8		N	otce [B	- I		1 fr 57 mins	2013-02-19 12:45:03	21508	internal	24	- (
															Ack Del
			🔳 0 (+4) Heathy 📃 1 (+1)	Notice 🛛 🗧 0 (+51) Mino	r 📕 6 (+509)	Major	📕 0 (+11) Critica	al				(Select Actio	0]		60
															_

- 🍝 Leads to the **IT Service Summary** page for the IT Service.
- Name. Name of IT Service.
- Type. Type of IT Service.
- Event Message. IT Service State [severity]: [name of IT Service].

If the state of an IT Service becomes healthy after being in a non-healthy state, the event "IT Service State Healthy: Name of IT Service" will be generated and will clear the event for the non-healthy state.

NOTE: Events are not generated when the availability and risk values for an IT Service change.

If you have defined alerts for metrics, additional events for IT services will appear in the Event Console.

Run Book Automation

In an Automation Policy (Automation Policy Manager), you can select an IT Service and trigger an automated action when a specified event occurs on that IT Service.

Automation Policy Editor Editing Autom	nation Policy [2]		Reset
Policy Name Email_EM7_Health Criteria Logic	Policy Type [Active] Match Logic	Policy State	Organization [System] Match Syntax
[Severity >=] [Healthy,] [and 5 minutes has elapsed,] [and event is NOT cleared]	[Only once]	IT Service at Time entities other than devi	Align With [∏ Services] ▼ ces (organizations, assets, etc.)
Available IT Services		Aligned IT Services	S •
Available Events Critical: AKCP: AC Voltage sensor detects Critical: AKCP: DC Voltage sensor High Cri Critical: AKCP: DC Voltage sensor Low Cr Critical: AKCP: Dry Contact Sensor Low C Critical: AKCP: Smoke Detector Alert	itical 📄 🎴	Aligned Events (All events) «	* *
Available Actions SNMP Trap: EM7 Event Trap Snippet: EM7 Ping Snippet Snippet: Windows Restart Service		Aligned Actions	
	Save	Save As	

For details on defining Run Book Automation policies and Run Book Actions, see the manual **Run Book** *Automation*.

Example

Example Using Device Availability, Device Latency, and Process Availability

Overview

This chapter will provide a working example of an IT Service policy.

This example will monitor two hosted, mission-critical, MS SQL database servers for availability and latency. The MS SQL database servers are leased by the company Acme and hosted by a service provider.

Creating an IT Service Policy

To define an IT Service policy, you must:

- 1. **Define a service name and basic properties**. This example monitors two MS SQL database servers. The name of the IT Service policy will be "Acme: MS SQL Database Servers".
- 2. Define a list of devices (model) for the IT Service that includes all the devices associated with the IT Service. This example includes two MS SQL servers in the IT Service.
- 3. Optionally, define service sets. A service set is a sub-group of devices. This example does not use service sets.
- 4. Define metrics. A metric is based on your business processes and examines all devices or one or more service sets to evaluate the state of the IT Service. For each IT Service, the ScienceLogic platform provides a default metric called Average Device Availability, based on the availability of all devices in the IT Service. You can define additional metrics, based on default data collected by the ScienceLogic platform (availability, latency, CPU usage, memory usage, swap usage, device state, and device count), data collected by a Dynamic Application, and data about network interfaces, TCP/IP ports, system processes, Windows services, Email round-trip time, web content, SOAP/XML transactions, and DNS availability.

NOTE: When the ScienceLogic platform evaluates a metric, it performs an aggregation, that is, the platform evaluates the data for all devices specified in the definition of the metric, over a specified time period (the **Aggregation Frequency**). Depending on the definition of the metric, the platform calculates the average, maximum, minimum, sum, standard deviation, or count value for all devices specified in the definition of the metric.

- 5. **Define Key Metrics.** Key Metrics are the standard method for describing the status of an IT Service. Key Metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services require very different metrics that aggregate very different performance data. The Key Metrics are Health, Availability, and Risk. When you define a Key Metric, you are specifying how the value for a metric you created in step 4 translates to one of the standard Key Metric values. By default, all three Key Metrics are based on the default Average Device Availability metric.
- 6. **Define alerts and associated events**. Each alert and its associated event is triggered by a metric. In our example, we will define alerts for each metric.

Defining the Name of the IT Service Policy and its Basic Properties

To define the basic parameters of our example IT Service policy:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the [Create] button. The IT Service Editor page appears, with the [Administration] tab and [Properties] sub-tab selected:

Summary Model Logs	Events	Tickets Administration		
IT Service Editor IT Service [3]			New	Reset Guide
Properties Model Metrics Schedule				Advanced
IT Service Name	issions	lcon		
Acme: MS SQL database_servers		[Shared with users in your organizations]		
IT Service Owner		Permission		
em7admin	Change Owner	EM7 System Administration	<u>^</u>	
Configuration Mode		Basic User Privileges	E	
[Basic Interface]	-	Power-Pack Administration Provisioning Access		
		Admin Portal UI Access		
		IT Services		
Data Collection				
Operational Status	_	Aggregation Frequency	Raw Data Retenti	
[Aggregation enabled]	 Every 3 minutes 	1	[Use system default retention setting]	•
Frequent Rollup Retention		Hourly Rollup Retention	Daily Rollup Retent	
[Use system default retention setting]	 Use system defa 	ault retention setting]	[Use system default retention setting]	
Description				
		Save Save As		
		Save Save As		

- 3. Supply the following values in the following fields:
 - IT Service Name. Name of the IT Service policy. We entered "Acme: MS SQL database_servers".
 - IT Service Owner. Automatically populated with your username.
 - **Configuration Mode**. We selected Basic Interface. The Basic Interface allows you to quickly setup an IT Service policy.
 - Sharing Permissions. Specifies whether other users can view and use the IT Service policy, in both the IT Service Manager page, IT Service Editor page, and in the pages in the ScienceLogic platform where the IT Service is visible. We selected Shared with users in your organization. The IT Service policy can be viewed and used by other users who belong to the same organization as the creator.
 - Permission Keys. We did not select any permission keys.
 - Operational Status. We selected Aggregation enabled.
 - Aggregation Frequency. Frequency at which the ScienceLogic platform will collect data from all devices in the IT Service and "crunch" the data for each metric into a single value. We specified Every 3 minutes.
 - **Raw Data Retention**. Specifies how long the ScienceLogic platform should store the raw data for the IT Service Policy. We accepted the default value.
 - Frequent Rollup Retention. Deprecated field no longer used by the ScienceLogic platform.
 - Hourly Rollup Retention. Specifies how long the ScienceLogic platform should store the "hourly" normalized data for the IT Service policy. We accepted the default value.
 - **Daily Rollup Retention**. Specifies how long the ScienceLogic platform should store the "daily" normalized data for the IT Service policy. We accepted the default value.
 - **Description**. We did not enter a description.
- 4. Select the [Save] button to save the values in the [Properties] tab.

Defining a List of Devices for the IT Service Policy

After defining the name and basic properties of an IT Service Policy, you must next determine the devices to include in your IT Service policy. You do this in the **[Model]** sub-tab.

For example, if you want to monitor Email service, you could create a list of devices that includes Exchange servers, DNS servers, and devices that run Email round-trip policies.

You can manually assign devices and device groups to the IT Service device group, or you can use membership rules, like you would for a dynamic device group.

When you define the list of devices to include in your IT Service policy, that list of devices appears as a device group throughout the ScienceLogic platform.

There are three ways to add a device to the list of devices for the IT Service policy.

• Add a device group to the list of devices for the IT Service policy.

- Add a static list of one or more devices to the list of devices for the IT Service policy.
- Add a dynamic list of one or more devices to the list of devices for the IT Service policy.

In our example, we will add a static list of devices that includes two MS SQL servers to the IT Service policy.

To create the list of devices for the IT Service policy.

- 1. After performing the tasks in the previous section, select the [Model] sub-tab.
- 2. To add a static list of one or more devices to the list of devices for the IT Service policy, go to the **Static Devices** pane.
- 3. Select the **[Add]** button. The **Device Alignment** modal page appears and displays a list of all devices in the ScienceLogic platform.

Device Alignment Reset 1 Impleze JA NULL Alignment System Sys	litor Created IT Service IT Service [3]						New	
J. H119.2.42.43 IU.4.2.34 HOUSE Lisco Systems /200 VAK 100 System 4. H110.20.30.108 10.2.0.3.0.01 ROUEF Gios Systems 2201 168 System I System I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <th>Add/Edit Devices</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Close / Esc</th>	Add/Edit Devices							Close / Esc
4. #r10.20.30.06 10.20.30.00 Router Gisco Systems (2501) Files System	Device Alignment							Reset
5. #10.20.30.201 Unknown Generic ISNAP 124 System 7. #10.20.30.53 10.20.30.53 Unknown Generic ISNAP 139 System 1 7. #10.20.30.53 10.20.30.53 Unknown Generic ISNAP 143 System 1 8. #10.20.30.76 10.2.30.76 Unknown Generic ISNAP 51 System 1 9. #10.41.2 10.4.1.2 Router Caso System 1 1 System 1 10. #10.4.1.2 10.4.1.2.4 Outer Sistem 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <		10.2.2.34	Router	LISCO Systems 7206VXR	156	System		
6. m10.20.30.53 Unknown Generic [SNAP 139 System Image: System		10.20.30.108	Router	Cisco Systems 2501	168	System		
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9 mill 0.4.1.2 Router Elso Systems // ZOBXXR. 9.3 System 10 mill 0.4.1.266 10.4.1.224 Bunter Elso Systems // ZOBXXR. 9.3 System T 11 mill 0.4.1.62 10.4.1.224 Buntown Generic (SMMP 61 System T 12 mill 0.4.1.72 10.4.1.72 Unknown Generic (SMMP 65 System T 13 mill 0.4.1.73 10.4.1.73 Unknown Generic (SMMP 65 System T 14 mill 0.4.1.73 10.4.1.73 Unknown Generic (SMMP 75 System T 15 mj2612 10.2.2.37 Router Elso Systems j 2011 127 System T T Mill 0.4.1.247 Unknown Junper Networks J 021 127 System T Mill 0.4.1.244 Unknown Junper Networks J 021 127 System T Mill 0.4.1.244 Unknown Generic J SWP 127 System T Mill 0.4.1.244 Unknown Generic J SWP 127					143	System		
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17. ml/201-DS3 10/20.30.43 Hould? Casco Systems (1/2011) 1/2/ System 1/2/ 1/2/ System 1/2/ System 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ System 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/	16. 135S.State	10.4.1.247	Unknown	Generic SNMP	82	System		- 1
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23. III. 40PC4MD23-3-01 10.4.1.43 Router Cisco Systems 1750 5.4 System T 24. III. 40PC4MD23-3-01 10.2.2.12 Router Cisco Systems 1750 109 System T 25. III.43.4.20C3 10.4.1.11 Servers Microsoft Windows 2003 Dom 23 System T 26. III.44.4.20C3 10.4.1.11 Servers Microsoft Windows 2003 Dom 20 System T 27. III.44.20C3 10.4.1.17 Servers Microsoft Windows 2003 Dom 18 System T 28. III.44.20C3 10.4.1.17 Servers Microsoft Windows 2003 Dom 18 System T 29. III.02CTM501 86.4.1.148 Servers Microsoft Windows 2003 Serv 5 System T 31. III.01C0FF 10.4.1.80 Servers Microsoft Windows XP 1 System T 32. III.01C0FF 10.4.1.92 Workstator Microsoft Windows XP 1 System T 33. III.00TORFF 10.4.1.92 <td>21. ALLIANCECOPIA</td> <td>10.4.1.203</td> <td>Servers</td> <td>Microsoft Windows 2008 Serv</td> <td>17</td> <td>System</td> <td>I</td> <td>Add</td>	21. ALLIANCECOPIA	10.4.1.203	Servers	Microsoft Windows 2008 Serv	17	System	I	Add
24. #/ADPCMDI233-01 10.2.2.12 Router Cisco Systems (1750 109 System 25. ///AU-ADC3 10.4.1.11 Servers Microsoft Windows 2003 Dom 23 System Image: System Im		10.4.1.244	Unknown	Generic SNMP	78	System		
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31. Im BOTTORFF 10.4.1.87 Workstator Microsoft Windows XP 1 System 32. ImBOTTORFF 10.4.1.92 Workstator Microsoft Windows XP 13 System 33. ImBOTTORFF 10.4.1.90 Workstator Microsoft Windows XP 14 System 34. ImBOTTORFF 10.4.1.90 Workstator Microsoft Windows XP 15 System 35. ImBOTTORFF 10.4.1.206 Servers NET-SNMP Solaris 32 System 36. ImInitiation 10.4.1.205 Servers NET-SNMP Solaris 12 System		10.4.1.66	Servers	Microsoft Windows 2003 Serv	85	System	V	Add
32 //# BOTTORFF 10.4.1.92 Workstator Microsoft Windows XP 13 System 33 //# BOTTORFF 10.4.1.92 Workstator Microsoft Windows XP 14 System 34 /# BOTTORFF 10.4.1.91 Workstator Microsoft Windows XP 15 System 35 /# fibration 10.4.1.20 Servers NET-SNMP Solaris 32 System 36 /# fibration 10.4.1.205 Servers NET-SNMP Solaris 32 System	30. MBLADE1	10.4.1.86	Servers	Microsoft Windows 2003 Serv	5	System		
33. Im BOTTORFF 10.4.1.90 Workstator Microsoft Windows XP 14 System 34. Im BOTTORFF 10.4.1.91 Workstator Microsoft Windows XP 15 System 35. Im Bottol 10.4.1.206 Servers NETSAWP [Solaris 32 System 36. Im Bottol 10.4.1.205 Servers NETSAWP [Solaris 32 System					1	System		
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36. Importation 10.4.1.205 Servers NET-SNMP Solaris 12 System T	34. MBOTTORFF	10.4.1.91	Workstation	Microsoft Windows XP	15	System		
	35. Mbristol	10.4.1.206	Servers	NET-SNMP Solaris		System		
Viewing Page: 1]	36. Mbristol	10.4.1.205	Servers	NET-SNMP Solaris	12	System		-
	[Viewing Page: 1]						Add: [2] Ad	id/Remove

- 4. In the **Device Alignment** modal page, we selected the checkbox for devices "ALLIANCECOPIA" and "BDC-TMS01". Each is a device running the Windows operating system and MS SQL database server.
- 5. Select the [Add/Remove] button in the lower right.

6. The selected devices appear in the **Static Devices** pane:

Summary Mode	el Logs	Events	Tickets	Administration							
IT Service Editor Created IT Service Editor Created IT Service Editor Created IT Service Editor Service Editor Created IT Service Created IT Ser	ervice IT Service [3] Cli	ick "Save" to com	mit changes				Nev	v	Reset	Guid	le
Properties Model	Metrics Schedule									Advan	ced
Device Groups [0]									D	el Ac	bb
		Device Gr	oup Name •				<u>ID</u>	<u>Devices</u>	Groups	Rules	
			No device groups	in service.							
									_		
Static Devices [2] Adding [2]									D	el Ad	
1. ALLIANCECOPIA	Device Name •	М	Class licrosoft Windows 200	<u> Sub-class</u> 8 Server	17	System		Organization			
2. MBDC-TMS01		М	licrosoft Windows 200	3 Server	85	System					
									_		
Dynamic Device Rules [0] Selector Type			Selector	Tamata						el Ac	
Selector type			Selector	largets					Math	Aleu Devs	
			No dynamic device ru	daa la ana daa							
			No dynamic device ru	lies in service.							
			Save								

7. Select the [Save] button to save the list of devices.

Defining Metrics for the IT Service Policy

A metric is a measurement that helps determine the status of an IT Service.

The ScienceLogic platform automatically includes a default metric with each IT Service policy. The default metric is called **Average Device Availability**. The Average Device Availability metric aggregates the current availability value (0 or 1) of all devices in the IT Service and calculates the average value. The aggregation is performed at the frequency specified in the **Aggregation Frequency** setting in the basic properties for the IT Service policy. The availability of a device is determined every 5 minutes.

Before you can define a metric, you must determine what parameters you want to monitor for the IT Service policy. You can use data from the following sources to monitor the IT Service:

- Device Availability
- Device Latency
- Overall CPU Usage
- Physical Memory Usage
- Swap Usage
- Device State (Condition of the device, based upon the most severe event generated by the device.)

- Device Count
- Presentation Objects from Dynamic Applications
- Network Interface
- TCP/IP Port Monitor
- System Process Monitor
- Windows Service Monitor
- Email Round Trip Monitor
- Web Content Monitor
- SOAP/XML Transaction Monitor
- Domain Name Monitor

Our example includes three metrics:

- Device Availability
- Device Latency
- System Process availability

We will create our metrics in **Basic mode**. We will edit the default metric and create two additional metrics. We will also define an alert/event for each metric.

Device Availability Metric

- 1. After performing the tasks in the *previous section*, select the **[Metrics]** sub-tab.
- 2. Ensure that you are in **Basic mode**. If you see the **[Alerting]** sub-tab, you are not in **Basic mode**. Click on the **[Advanced]** button to toggle to **Basic mode**.

3. First, we will edit the default metric. In the **Service Metric Definitions** pane, find the metric **Average Device Availability** and select its wrench icon (*P*).

Summary	Model	Logs	Events	Ti	ickets 🗾	Administra	tion				
IT Service Editor	Created IT Service IT	Service [3] Click	"Save" to com	mit changes	5				New	Res	et Guide
Properties	Model Metrics	Schedule									Advanced
Service Metric D	efinitions [1]										Del Add
	Service Metric Name	Uni		Vital	Alerting		Device Metric			ice Subset	Appregation
1 🥜 Average I	Device Availability	%	Enabled	No N	to Device	e Availability			(All Device	s in Service)	Average
									[Select Action]		▼ Go
									[Select Action]		G 0
Key Metrics	[Average Device Avail										(Decembra)
Service Health	[Average Device Avail				50			75		-	[Decreasing] 👻
0	Critical	25	Major		30	м	inor	75	Notice	90 Her	althy 100
	,				4			4	nouco		[Decreasing] -
Service Availability	[(use service realm in	25	u)]							•	[Decreasing] -
0		Unavailable Available	3								100
Service Risk	[(use Service Health m	<u>A</u>									[Decreasing] -
Service Risk	[(use Service nearing	ienie, meaniny range/	1							90	100
0										100%	0% 100
										2	2
11					Save						

4. The Service Metric Editor modal page appears:

Service Metric Editor Editing Metric	Reset
Service Metric Name Metric Type Device Subset Aggregation [Average DB Device Availability [Internal] [Average]	
Herric Classification [[Standard Metric]] Image: Standard Metric] Device Metric [[Active State]] Image: Standard Metric] Device Metric [[Enabled]] Device Availability : Percentage Value Device Availability : Percentage Value	•
Guide Text	
	.::
Metric Alerting Alert Policy Name Event Severity	
Single Threshold	-
Alert Threshold [75]	ing 🖵
0 Critical Heathy	100
Trigger alert when Average DB Device Availability is less than or equal to 75%. Reset alert when Average DB Device Availability is strictly greater than 75%.	
Event Policy Description	
B I U Style V Format V Font V Size V Tav & CA	
ок	

- 5. In the Service Metric Editor page, edit the following field:
 - Service Metric Name. Enter Average DB Device Availability. This lets us know that the metric is measuring the device's availability, not the database server's availability.
- 6. In the lower pane, we'll define an alert for the metric. This alert specifies that when the availability of the two database servers falls below 75%, trigger an event with a severity of *Critical*. To define this alert and event, supply values in the following fields:
 - Metric Alerting. Select Single Threshold.
 - Alert Policy Name. Enter "DB availability too low".
 - Event Severity. Select Critical.
 - Increasing/Decreasing. Select Decreasing.
 - Threshold. Drag the slider to 75.
 - Select the **[OK]** button to save the metric.

Device Latency Metric

Next, we will define a new metric that examines the *latency of the devices* where the MS SQL servers reside. To do this:

- 1. Go to Service Metric Definitions pane and select the [Add] button.
- 2. The **Service Metric Editor** modal page appears. In this page, we'll define a metric that measures the latency of the two devices in our IT Service policy. We'll also define an alert that will trigger an event if the average latency of the two devices is greater than 30 milliseconds.

Add Service Metric			Close / Esc
Service Metric Editor Creating Metric			Re set
Service Metric Name	Metric Type	Device Subset	Aggregation
Average DB device latency	Internal 💌	(All Devices in Service)	Average 💌
Metric Classification	Show only metrics available for t	his IT Service	
Service Vital Metric 🗸		Device Metric	
Active State	Device Latency		
Enabled	Device Latency: Measurement (ms); u	inits: milliseconds	
	Guide Text		
			.::
Metric Alerting	Alert Policy Name		Event Severity
Single Threshold	db_too_slow	Critical	
	Alert Threshold		Increasing 💌
30			
0 Healthy		Critical	100
Trigger alert when Average DB device latency is greater		alert when Average DB device later	cy is strictly less than 30undefined.
	Event Policy Descripti	on	
I 🔲 🛕 🔛 🗵 Source 🗎 🐰 🗈	6 6 5 1 0	: ا ا ا	
B Z U Style - Fom	nat 🔹 Font	▼ Size ▼	Тат 🌆т ю 🖂
	ОК		

- 3. To create the new metric, supply the following values in the fields:
 - Service Metric Name. Enter "Average DB device latency".
 - Metric Type. Select Internal.
 - Device Metric. Select Device Latency.
 - For all other fields in the top pane, you can accept the default values.
- 4. In the lower pane, we'll define an alert for the metric. This alert specifies that when the average latency of the two devices where the database servers reside is greater than 30 milliseconds, it will trigger an event with a severity of *Critical*. To define this alert and event, supply values in the following fields:
 - Metric Alerting. Select Single Threshold.
 - Alert Policy Name. Enter "db_too_slow".
 - Event Severity. Select Critical.
 - Increasing/Decreasing. Select Increasing.
 - Threshold. Drag the slider to 30.
- 5. Select the **[OK]** button to save the metric.

System Process Metric

Next, we will define a metric that makes sure that the process **sqlservr.exe** is running on both devices where the MS SQL databases reside.

- 1. Before we can define this metric in the **IT Service Editor**, we must tell the ScienceLogic platform to monitor the sqlservr.exe process, outside of the IT Service policy. To do this:
- 2. Go to the **Device Processes** page (Registry > Devices > Processes).
- 3. Use the **Device Name** column to search for the device ALLIANCECOPIA.
- 4. Use the **Process** column to search for the process sqlservr.exe.
 - Select the checkbox for sqlservr.exe running on ALLIANCECOPIA.
 - Select the **Select Actions** menu. Select Enable (Create Policy).
 - Select the **[Go]** button.
- 5. Use the **Device Name** column to search for the device BDC-TMS01.
- 6. Use the **Process** column to search for the process sqlservr.exe.
 - Select the checkbox for sqlservr.exe running on BDC-TMS01.
 - Select the Select Actions menu. Select Enable (Create Policy).
 - Select the [Go] button.
- 7. Go back to the **IT Service Manager** page (Registry > IT Services > IT Service Manager). Find the IT Service policy **Acme: MS SQL database server**. Select its wrench icon (*P*).

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- 8. Select the [Metrics] tab. Select the [Add] button.
- 9. The Service Metric Editor modal page appears. In this page, we'll define a metric ensures that the process sqlservr.exe is running on both devices where the MS SQL database resides. We'll also define an alert that will trigger an event if the availability of the process sqlservr.exe is less than 99%. In other words, with the exceptions of very, very brief outages, the process sqlservr.exe should be running.

ervice Metric Editor Creating Metric					Reset
Service Metric Name		Metric Type	Device	Subset	Aggregation
SQL Server process		System Process Monitor	(All Devices in Se	ervice) 💌	Average 💌
Metric Classification		Show only metrics available for this	SIT Service		
Service Vital Metric	-	Process Name			Metric
Active State		sqlserver.exe		Processes Runnin	ng 💌
Enabled	-	Processes Running: Raw Value; units:	processes		
		Guide Text			
					.:
Metric Alerting		Alert Policy Name			Event Severity
Single Threshold	-	SQL Server process is not running		Critical	
		Alert Threshold			Increasing vertex 99
0		Healthy			C 100
Trigger alert when SQL Server process is greater the	an or	equal to 99undefined. Reset alert when	SQL Server proce	ss is strictly less th	an 99undefined.
		Event Policy Description	n		
B Z U Style - F		t 🕞 💞 🗮 🖉 🍓	 Image: Size 		

- 10. To create the new metric, supply the following values in the fields:
 - Service Metric Name. Enter SQL Server process.
 - Metric Type. Select System Process Monitor.
 - Process Name. Enter sqlservr.exe.
 - Metric. Select Process Running.
 - For all other fields in the top pane, you can accept the default values.
- 11. In the lower pane, we'll define an alert for the metric. This alert specifies that if the process **sqlservr.exe** is not running on both devices in the IT Service policy, trigger an event with a severity of *Critical*. To define this alert and event, supply values in the following fields:
 - Metric Alerting. Select Single Threshold.
 - Alert Policy Name. Enter "SQL Server process is not running".
 - Event Severity. Select Critical.
 - Increasing/Decreasing. Select Increasing.
 - Threshold. Drag the slider to 99.

12. Select the **[OK]** button to save the metric.

Defining Key Metrics for the IT Service Policy

Key Metrics are the standard method for describing the status of an IT Service. Key Metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services require very different metrics that aggregate very different performance data. For example, you can define "health" for a remote backup service and also define "health" for an Internet bandwidth service, even though you would use different criteria to measure the health of those two services.

All IT Service policies define how the ScienceLogic platform should calculate the following Key Metrics for the IT Service:

NOTE: The ScienceLogic platform automatically includes a default metric with each IT Service policy. The default metric is called **Average Device Availability**. The **Average Device Availability** metric specifies that the ScienceLogic platform should aggregate the availability data for all the devices in the policy and calculate the average availability.

- Service Health. The health of an IT Service can be one of the five standard severity values: Healthy, Notice, Minor, Major, or Critical. By default, the Service Health metric is aligned with the Average Device Availability metric.
- Service Availability. The availability of an IT Service can be either available or unavailable. By default, the Service Availability metric is aligned with the same metric as Service Health, converting Critical Service Health to Unavailable and all other Service Health values to Available.
- Service Risk. The risk of an IT Service is a percentage value that indicates how close an IT Service is to being in an undesirable state. By default, the Service Risk metric is aligned with the same metric as Service Health, converting the threshold between Healthyand Notice Service Health to 100% and the healthiest possible value to 0%.

The ScienceLogic platform generates an event if the **Service Health** Key Metric has a value of Notice, Minor, Major, or Critical, and/or if the **System Availability** key metric has a value of *unavailable*.

For more details on Key Metrics, see the chapter on Creating, Editing, and Deleting IT Services.

Using the three metrics we created in the previous section, we'll define the Key Metrics for our IT Service Policy:

- 1. Select the [Metrics] sub-tab.
- 2. In the top pane, you will see the default metric, **Average Device Availability**. If you have already defined additional custom metrics, they will also appear in the top pane.

3. In the bottom pane, you will see the three Key Metrics:

rvice Editor L	Saved IT Service IT Service [3]					Administratio		New Res	set Guid
								itew ites	
perties	Model Metrics Sched	ule							Advand
vice Metric De	efinitions [3]								Del Ad
	Service Metric Name •	Unit	State	Vital	Alerting		Device Metric	Device Subset	Aggregation
	B Device Availability	%	Enabled	No	Yes	Device Availability		(All Devices in Service)	Average
	B device latency	ms	Enabled	Yes	Yes	Device Latency		(All Devices in Service)	Average
PSQL Serve	er process		Enabled	Yes	Yes	sqlserver.exe: Proc	esses Running	(All Devices in Service)	Average
								[Select Action]	G
Metrics								[Select Action]	G
	[Average DB Device Availability]							[Select Action]	
		25			50			75 90	[Decreasing]
		25	Mai		50		liner	75 90	[Decreasing]
rice Health	Critical	,	Мај	pr	50		linor	75 90 He	[Decreasing]
rice Health		,	Maj	or	50		linor	75 90 Notice He	[Decreasing]
ice Health	Critical	,	Maj	or	50		linor	75 90 He	[Decreasing]
ice Health	Critical	al threshold)]	Мај	or	50		linor	75 90 He	[Decreasing]
vice Health	Critical [(use Service Health metric, Critica	al threshold)] 25 ble Available	Мај	or	50		linor	TS 90 Notice He	[Decreasing] atthy 100 [Decreasing] 100
ice Health	Critical	al threshold)] 25 ble Available	Мај	or	50		linor.	75 99 Notice He	[Decreasing] (Decreasing) (Decreasing) (Decreasing)
vice Health	Critical [(use Service Health metric, Critica	al threshold)] 25 ble Available	Maj	or	50		Mnor	TS 90 Notice He	[Decreasing] atthy 100 [Decreasing] 100
ice Health	Critical [(use Service Health metric, Critica	al threshold)] 25 ble Available	Maj	Dr	50		dinor	75 90 Notice He	[Decreasing] (Decreasing) (Decreasing) (Decreasing)
Metrics rice Health rice Availability rice Risk	Critical [(use Service Health metric, Critica	al threshold)] 25 ble Available	Мај	or	50		linor .	75 99 He	[Decreasing] authy [100 [Decreasing] [Decreasing] [100 [Decreasing]

- 4. To edit each metric, supply the following values:
 - Service Health. Appears in the Health column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Healthy, Notice, Minor, Major, and Critical. By default, the Service Health Key Metric is based on the metric for Average Device Availability, with values set at 0-24 is Critical, 25-49 is Major, 50-74 is Minor, 75-89 is Notice, and 90 and above is Healthy.
 - In the drop-down list that appears above the **Service Health** Key Metric, select Average DB device latency.
 - Select Increasing.
 - Enter the following thresholds: 30, 40, 50, 60.
 - If average latency is below 30 milliseconds, the IT Service policy will have a Health value of *Healthy*.
 - If average latency is between 30 40 milliseconds, the IT Service policy will have a Health value of Notice.
 - If average latency is between 40 50 milliseconds, the IT Service policy will have a Health value of Minor.
 - If average latency is between 50 60 milliseconds, the IT Service policy will have a Health value of Major.

- Example Using Device Availability, Device Latency, and Process Availability

- If average latency is greater than 60 milliseconds, the IT Service policy will have a Health value of *Critical*.
- Service Availability. Appears in the Availability column in IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Available and Unavailable. By default, the Service Availability Key Metric is based on the same metric as is used for the Service Health Key Metric. By default, 0 - 24 is Unavailable and 25 - 100 is Available.
 - In the drop-down list that appears above the **Service Availability** Key Metric, select Average DB Device Availability.
 - Select Decreasing.
 - Enter the threshold 75.
 - If the average availability of the two devices in the IT Service policy falls below 75%, the IT Service policy will have an Availability value of *Unavailable*.
- Service Risk. Appears as a percentage in the Risk column in the IT Service Manager page (Registry
 IT Services > IT Service Manager). Possible values are 0% 100%. By default, the Service Risk Key
 Metric is based on the same metric as is used for the Service Health Key Metric. By default, 0 89 is
 Critical and 90 100 is Healthy.
 - In the drop-down list that appears above the **Service Risk** Key Metric, select SQL Server process.
 - Select Decreasing.
 - Enter the threshold 99.
 - If the process sqlservr.exe is not running an average of 99% of the time, the IT Service policy will have a Risk value of 100%.
- 5. Select the [Save] button to save your changes to the Key Metrics.

Events for the IT Service Policy

To see the definitions for the events associated with each metric, go to the **Event Policy Manager** page (Registry > Events > Event Manager).

To find the event definitions, filter the **Event Policy Name** field by the name of the IT Service policy.

When an event for an IT Service is triggered, it displays the following message in the Event Console:

nt Console Events Found (154) Napse Castom View: 💌 Save Delete 🍳 > Sear	rch: Organization]			Actions Klosk Reset Guid
	ogic Support (703)-354-1010	0 (+12) Heathy 0		Severity Counts 0 (+27) Major 2 (+8) Critical	
Name * 7/28	Event Mean	22	Severity · Acknowledge	AI	EID Source Gount Nextly
1. Acme: MS SQL ustabase_servers IT Service 2. Acme: MS SQL database_servers IT Service	IT Service State Critical: Acme: MS SQL database_servers Average DB Device Availability: DB_availability_tco_low has v	olated minimum threshold (75) currently (No	Critical 12 ne) Critical 12	1 hr 27 mins 2013-02-19 15:45:03 12 mins 1 sec 2013-02-19 15:45:03	371 Internal 30 9 25 2718 Dynamic 5 9 25
					Ack D
	0 (+12) Healthy	📕 0 (+53) Notice 🗧 0 (+52) Minor	📕 0 (+27) Major 📕 2 (+8) Cri	lical	[Select Action]

[name of metric] has violated threshold (%T) currently (%V).

where %T is the threshold you defined for the alert and %V is the current value for the metric.

The ScienceLogic platform generates an event if the **Service Health** key metric has a value of Notice, Minor, Major, or Critical. In the event above the metric that we associated with the Service Health Key Metric exceeded the threshold for the metric.

IT Service Dashboard

If you select the [Summary] tab for our example IT Service policy, you'll see something like the following:

	Events Tickets	Aum	nistration	
Service Summary IT Service [3]				Actions Reset Gu
T Service Details]				
Service Name Acme: MS SQL database_servers	Service Health Critical			Problem Management
Service Owner em7admin	Service Availability Unavai	labla		Logs 249
		aute		Active Events 2
Service Visibility System	Service Risk 100%			Active Tickets 0
Maintenance State Service Active				
ervice Vitals	 No Matching Data (Last 	12 hours)		
verage DB device latency				
AL Server process				
	04:00 06	00	08:00 10:00	12:00 14:00
				12.00
			- No Matching Data	
	Activity Log			
	Date/Time	Туре		
			D	escription
	2013-02-19 15:45:04	Log		
	2013-02-19 15:45:04 2013-02-19 15:45:04			ity: DB_availability_too_low has violated mining
		Log	ITSM Event: Average DB Device Availabi	ity: DB_availability_too_low has violated mini ne: MS SQL database_servers
	2013-02-19 15:45:04	Log	ITSM Event: Average DB Device Availabi ITSM Event: IT Service State Critical: Acn	itty: DB_availability_too_low has violated mini ne: MS SQL database_servers data to evaluate Health Metric.
	2013-02-19 15:45:04 2013-02-19 15:45:03	Log Log Log	ITSM Event: Average DB Device Available ITSM Event: IT Service State Critical: Acn ITSM Collection: Insufficient presentation	ilty: DB_availability_too_low has violated mini ne: MS SQL database_servers data to evaluate Health Metric. data to evaluate Availability Metric.
	2013-02-19 15:45:04 2013-02-19 15:45:03 2013-02-19 15:45:03	Log Log Log Log	ITSM Event: Average DB Device Availabi ITSM Event: IT Service State Critical: Acn ITSM Collection: Insufficient presentation ITSM Collection: Insufficient presentation	ity: DB_availability_too_low has violated mini e: MS SQL database_servers data to evaluate Health Metric. data to evaluate Availability Metric. data to evaluate Availability Metric.
	2013-02-19 15:45:04 2013-02-19 15:45:03 2013-02-19 15:45:03 2013-02-19 15:45:03	Log Log Log Log	ITSM Event: Average DB Device Availabl ITSM Event: IT Service State Critical: Acn ITSM Collection: Insufficient presentation ITSM Collection: Insufficient presentation ITSM Collection: Insufficient presentation ITSM collection: Insufficient presentation	ity: DB_availabilty_too_tow has violated mini e: MS SQL database_servers data to evaluate Heath Metric. data to evaluate Availability Metric. data to evaluate Risk Metric. Jatabase_servers
	2013-02-19 15:45:04 2013-02-19 15:45:03 2013-02-19 15:45:03 2013-02-19 15:45:03 2013-02-19 15:45:03 2013-02-19 15:45:03	Log Log Log Log Event	ITSM Event: Average DB Device Availabl ITSM Event: IT Service State Critical: Acn ITSM Collection: Insufficient presentation ITSM Collection: Insufficient presentation ITSM Collection: Insufficient presentation ITSM collection: Insufficient presentation	Ity: DB_availabilty_too_jow has violated mini- te: MS SQL database_servers data to evaluate Heath Metric. data to evaluate Heath Metric. data to evaluate Risk Metric. Jatabase_servers batily_too_jow has violated minimum thresho atily_too_jow has violated minimum thresho
	2013-02-19 15:45:04 2013-02-19 15:45:03 2013-02-19 15:45:03 2013-02-19 15:45:03 2013-02-19 15:45:03 2013-02-19 15:45:03	Log Log Log Log Event Event	ITSM Event. Average DB Device Availab ITSM Event. IT Service State Critical Acr ITSM Collection: insufficient presentation ITSM Collection: insufficient presentation (IT Service State Critical: Acres MS SOL Average DB Device Availabily: DB Sol ITSM Event: Bervice State Critical: Acre ITSM Event: Bervice State Critical: Acre ITSM Event: Bervice State Critical: Acre State Critical: Acres MS SOL	Ity: DB_availabilty_too_jow has violated mini- te: MS SQL database_servers data to evaluate Heath Metric. data to evaluate Heath Metric. data to evaluate Risk Metric. Jatabase_servers batily_too_jow has violated minimum thresho atily_too_jow has violated minimum thresho
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The IT Service Summary page displays the following:

- IT Service Details. Displays the following information about an IT Service:
 - Service Name
 - Service Owner
 - Service Visibility
 - Maintenance State
 - Service Health
 - Service Availability
 - Service Risk
- IT Service Vitals. Displays the current value for each Key Metric defined for an IT Service.
- IT Service Problem Management. Displays the number of logs, active events, and active tickets associated with an IT Service.
- IT Service Health Last 12 Hours. Displays a graph of the Availability metric. The y-axis displays percent availability. The x-axis displays time in one-hour increments.
- IT Service Activity Log. Displays a list of all current and past alerts and events associated with an IT Service.

1

Example

Example Using Device Availability and Interface Monitoring

Overview

This chapter will describe an example of an IT Service policy.

This example will monitor a leased WAN circuit. The example IT Service policy includes two routers that are at the two ends of the circuit.

Creating an IT Service Policy

To define an IT Service policy, you must:

- 1. **Define a service name and basic properties**. In this example, we will monitor the routers at both ends of a leased WAN circuit. The name of the IT Service policy will be "wan circuit 1".
- Define a list of devices (model) for the IT Service that includes all the devices associated with the IT Service. For example, if you want to monitor a WAN circuit, you could create a device group that includes the routers at each end of the circuit. You could create another device group that includes the switches that are connected to those routers. In our example, we'll select two routers to monitor.
- 3. Optionally, define service sets. A service set is a sub-group of devices. You can manually assign devices to a service set, or you can use membership rules, like you would for a dynamic device group. For example, you could define two service sets: Exchange Servers, defined by device class, and DNS servers, defined by the DNS Server running on each device. We don't use service sets in this example.
- 4. **Define Interface Tags for Interface Metrics**. If your IT Service policy will include interface metrics, you can use interface tags to create groups of interfaces. You can then apply a metric to a group of interfaces. Each interface can belong to multiple interface tags.

2

- 5. Define metrics. A metric is based on your business processes and examines all devices or one or more service sets to evaluate the state of the IT Service. For each IT Service, the ScienceLogic platform provides a default metric called Average Device Availability, based on the availability of all devices in the IT Service. You can define additional metrics, based on default data collected by the ScienceLogic platform (availability, latency, CPU usage, memory usage, swap usage, device state, and device count), data collected by a Dynamic Application, and data about network interfaces, TCP/IP ports, system processes, Windows services, Email round-trip time, web content, SOAP/XML transactions, and DNS availability. For our example, we'll examine the traffic and errors on the interfaces on the routers at each end of the WAN circuit.
- **NOTE**: When the ScienceLogic platform evaluates a metric, it performs an aggregation, that is, the platform evaluates the data for all devices specified in the definition of the metric, over a specified time period (the **Aggregation Frequency**). Depending on the definition of the metric, the platform calculates the average, maximum, minimum, sum, standard deviation, or count value for all devices specified in the definition of the metric.
- 6. **Define Key Metrics.** Key Metrics are the standard method for describing the status of an IT Service. Key Metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services require very different metrics that aggregate very different performance data. The Key Metrics are Health, Availability, and Risk. When you define a Key Metric, you are specifying how the value for a metric you created in step 4 translates to one of the standard Key Metric values. By default, all three Key Metrics are based on the default Average Device Availability metric.
- 7. **Define alerts and associated events**. Each alert and its associated event is triggered by a metric. In our example, we will define alerts for each metric.

Defining the Name of the IT Service Policy and its Basic Properties

To define the basic parameters of our example IT Service policy:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the **[Create]** button.
- 3. The IT Service Editor page appears, with the [Administration] tab selected.

4. Select the [**Properties**] sub-tab. Supply the following values in the following fields:

Summary	Model	Logs	Events	Tickets Administ	ration		
IT Service Editor	Created IT Service	IT Service [5]				New	Reset Guide
Properties	Model Metrics	s Schedule					Advanced
	IT Serv	vice Name		:	Sharing Permis	sions	Icon
WAN_circiuit_1				[Shared with users in your orga	anizations]		
	IT Servi	ice Owner			Permission K		53
em7admin			Change Owner	EM7 System Administration Grant All		<u>^</u>	43
[Basic Interface]		ation Mode	-	Basic User Privileges Power-Pack Administration		E	
			•	Provisioning Access			
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Data Collection							
I A secondiar and	Operational Statu		Every 2 minutes	Aggregation Frequency		Raw Data Reter	
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[Use system defa	Frequent Rollup Rete ault retention setting]	ntion	[Use system def	Hourly Rollup Retention ault retention setting]	-	Daily Rollup Rete	
1 oco oyotom don	and recontion octaing j			dail fotomion ootang j		Topo of otom donatal rotomic rotaling	
Description							
				Save Save As			

- IT Service Name. Name of the IT Service policy. We entered "wan circuit 1"
- IT Service Owner. Automatically populated with your username.
- **Configuration Mode**. We selected Basic Interface. The Basic Interface allows you to quickly setup an IT Service policy.
- Sharing Permissions. Specifies whether other users can view and use the IT Service policy, in both the IT Service Manager page, IT Service Editor page, and in the pages in the platform where the IT Service is visible. We selected Shared with users in your organization. The IT Service policy can be viewed and used by other users who belong to the same organization as the creator.
- Permission Keys. We did not select any permission keys.
- Operational Status. We selected Aggregation enabled.
- Aggregation Frequency. Frequency at which the ScienceLogic platform will collect data from all devices in the IT Service and "crunch" the data for each metric into a single value. We specified Every 2 minutes.
- **Raw Data Retention**. Specifies how long the ScienceLogic platform should store the raw data for the IT Service Policy. We accepted the default value.
- Frequent Rollup Retention. Deprecated field no longer used by the ScienceLogic platform.

- Hourly Rollup Retention. Specifies how long the ScienceLogic platform should store the "hourly" normalized data for the IT Service policy. We accepted the default value.
- **Daily Rollup Retention**. Specifies how long the ScienceLogic platform should store the "daily" normalized data for the IT Service policy. We accepted the default value.
- **Description**. We did not enter a description.
- 5. Select the **[Save]** button to save the values in the **[Properties]** tab.

Defining a List of Devices for the IT Service Policy

After defining the name and basic properties of an IT Service Policy, you must next determine the devices to include in your IT Service policy. You do this in the **[Model]** sub-tab.

For example, if you want to monitor Email service, you could create a list of devices that includes Exchange servers, DNS servers, and devices that run Email round-trip policies.

You can manually assign devices and device groups to the IT Service device group, or you can use membership rules, like you would for a dynamic device group.

When you define the list of devices to include in your IT Service policy, that list of devices appears as a device group throughout the ScienceLogic platform.

There are three ways to add a device to the list of devices for the IT Service policy.

- Add a device group to the list of devices for the IT Service policy.
- Add a static list of one or more devices to the list of devices for the IT Service policy.
- Add a dynamic list of one or more devices to the list of devices for the IT Service policy.

In our example, we will create a static list of devices.

To create the list of devices for the IT Service policy:

1. After performing the tasks in the *previous section*, select the **[Model]** sub-tab.

2. We will statically add two routers to our policy. To add a static list of one or more device to the list of devices for the IT Service policy, go to the **Static Devices** pane:

	Summary Model	Logs Events	Tickets Adminis	stration			
ŀ	T Service Editor Created IT Service IT	Service [4]			New	Reset	Guide
Ī	Properties Model Metrics	Schedule				А	dvanced
	Device Groups [0]					Del	Add
		Device Group Nam	<u>e</u> •		ID Devices	Groups F	Rules 🗸
		N	o device groups in service.				
	Static Devices [0]					Del	Add
	Device Na	ime •	Class Sub-class	<u>ID</u>	Organization		2
Π							
		N	o static devices in service.				
	Dynamic Device Rules [0]					Del	Add
	Selector Type		Selector Targets				Devs 🗸
		No dy	mamic device rules in service.				
		10 0					
			Save				
			Jave.				

3. Select the **[Add]** button. The **Device Alignment** modal page displays a list of all devices in the ScienceLogic platform.

vice Alignment							Rese	t
Device Name	IP Address	Category	Class Sub-class	민	Organization		Action	Ţ
								_
1. 10.168.44.101		VMware	VMware Host Server	340	System			
2. 10.168.44.102		VMware	VMware Host Server	343	System			
3. 10.168.44.103	-	VMware	VMware Host Server	338	System			
4. 10.168.44.104	-	VMware	VMware Host Server	336	System			
5. 10.168.44.105		VMware	VMware Host Server	389	System			
6. <u>11</u> 10.2.2.18	10.2.2.18	Router	Cisco Systems 7206VXR	110	System			
7. 10.2.2.27	10.2.2.27	Router	Cisco Systems 7206VXR	198	System			
8. 10.2.2.30	10.2.2.30	Unknown	Generic SNMP	149	System			
9. 10.2.2.34	10.2.2.34	Router	Cisco Systems 7206VXR	156	System			
0. 10.20.30.101	10.20.30.101	Unknown	Generic SNMP	189	System			
1. 10.20.30.108	10.20.30.108	Router	Cisco Systems 2501	168	System			
2. 10.20.30.123	10.20.30.123	Router	Cisco Systems 7206VXR	233	System			
3. 10.20.30.135	10.20.30.135	Switches	Cisco Systems Catalyst 3508	219	System			
4. 10.20.30.141	10.20.30.141	Switches	Cisco Systems Catalyst WS-0	285	System			
5. 10.20.30.146	10.20.30.146	Broadband	Netopia Netopia 3346 v8.2r1	288	System			
6. 10.20.30.147	10.20.30.147	Broadband	Netopia Netopia 3381 v8.0.10	287	System			
7. 10.20.30.148	10.20.30.148	Broadband	Netopia Netopia (R3100, R45)	291	System	V	Add	1
8. 10.20.30.149	10.20.30.149	Broadband	Netopia R7200-T	292	System	V	Add	i
9. 10.20.30.201	10.20.30.201	Unknown	Generic SNMP	124	System			1
0. 10.20.30.208	10.20.30.208	Unknown	Generic SNMP	220	System			
1. 10.20.30.209	10.20.30.209	Telephony	Quintum Tenor	177	System			il
2. 10.20.30.222	10.20.30.222	Unknown	Generic SNMP	201	System			i
3. 10.20.30.53	10.20.30.53	Unknown	Generic SNMP	139	System			il
4. 10.20.30.59	10.20.30.59	Unknown	Generic SNMP	143	System			1
5. 10.20.30.61	10.20.30.61	Unknown	Generic I SNMP	269	System			il
6. 10.20.30.76	10.20.30.76	Unknown	Generic SNMP	111	System	Ē		1
7. 10.20.30.8	10.20.30.8	Printers	Oki Data Corporation OKI OkiL	185	System			il
8. ///10.20.30.85	10.20.30.85	Access Po	D-Link Access Point (DWL-60		System			1
9. 10.20.30.94	10.20.30.94		Netopia Netopia 3386 v8.4.2rl		System			il
0. 10.20.30.96	10.20.30.96	Unknown	Generic I SNMP	250	System			1
1 10 20 30 97	10.20.30.97		McData Corporation Edge 24		Svetem			41

- 4. In the **Device Alignment** modal page, we selected the checkbox for devices "10.20.30.148" and "10.20.30.149". Each is a Netopia router with one WAN (ATM) interface and one Ethernet interface.
- 5. Select the **[Add/Remove]** button in the lower right. The selected devices will appear in the **Static Devices** pane.
- 6. Select the **[Save]** button to save the list of devices.

Defining Interface Tags for Interface Metrics

You can define interface metrics that monitor the following:

- Inbound Traffic
- Outbound Traffic
- Inbound Errors
- Outbound Errors
- Inbound Discards
- Outbound Discards

You can apply these metrics to:

- All Interfaces
- Management Interface
- Tagged Interfaces

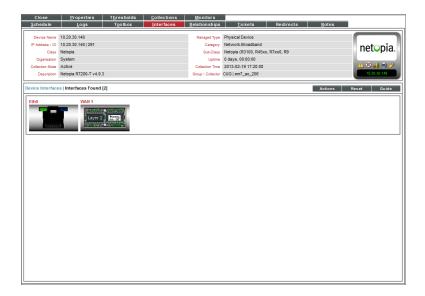
Interface Tags allow you to create one or more groups of interfaces. You can then apply an interface metric to that group. If *All Interfaces* or *Management Interface* doesn't suit your needs, you can define and apply interface tags.

In our example, we will create an interface tag for the interfaces at each end of the WAN link. When we define a metric, we will specify that interface tag to include only data from the interfaces at each end of the WAN link. To create the interface tags:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager). Find the device where the interface resides. In our example, we'll search for **10.20.30.148** and **10.20.30.149**.

2. In the **Device Manager** page, find the first device (**10.20.30.148**). In the **IP Address** column, click on the interface icon (**W**). The **Device Interfaces** page appears.

Device Name •	IP Address	Device Category	Device Class Sub-class	DID	Organization	Current State	Collection Group	Collection State	SNMP Credential	SNMF Versio	
						>=Health 👻					
2 1 3 3 10.168.44.101		Servers VMware	VMware Host Server	340	System	Healthy	CUG	Active	SNMP Public V1	V1	10 X (m)
2 1 4 4 10,168,44,102	- W	Servers VMware	VMware Host Server	343	System	Heathy	CUG	Active	SNMP Public V1	V1	
P. 1 4 4 10.168.44.103		Servers VMware	VMware Host Server	338	System	AHeathy		Active	SNMP Public V1	V1	
2 1 3 3 10.168.44.104		Servers.VMware	VMware Host Server	336	System	AHeathy	CUG	Active	SNMP Public V1	V1	m11 8
9.11.4.4.10.168.44.105		Servers VMware	VMware Host Server	389	System	AMajor	CUG	Active	SNMP Public V1	V1	
9.1110.2.2.18	10.2.2.18		Cisco Systems 7206VXR	110	System	() Major	CUG	Unavailable	SNMP Public V1	V1	B118
9 110 2 2 27	10.2.2.27	Network Router	Cisco Systems 7206VXR	198	System	AMajor	CUG	Unavailable	SNMP Public V1	V1	
9.1110.2.2.30	10.2.2.30	Unknown	Generic SNMP	149	System	/\Major	CUG	Unavailable	SNMP Public V1	V1	m11 %
P. m 10.2.2.34	10.2.2.34	Network.Router	Cisco Systems 7206VXR	156	System	(1) Major	CUG	Unavailable	SNMP Public V1	V1	m11 6
9 10.20.30.101	10.20.30.101	Unknown	Generic SNMP	189	System	Healthy	CUG	Active	SNMP Public V1	V1	m13 %
9.010.20.30.108	10.20.30.108	Network.Router	Cisco Systems 2501	168	System		CUG	Active	EM7 Default V3	V3	
9.110.20.30.123	10.20.30.123	Network Router	Cisco Systems 7206VXR	233	System	/ Minor	CUG	Active	SNMP Public V1	V1	m11 8
9 110.20.30.135	10.20.30.135	Network.Switcher	Cisco Systems Catalyst 3508G-XL	219	System	AHeathy	CUG	Active	SNMP Public V1	V1	
9.110.20.30.141	10.20.30.141		Cisco Systems Catalyst WS-C6009-CatOS	285	System	AHeathy	CUG	Active	SNMP Public V1	V1	m118
Am 10.20.30.146	10.20.30.146	Network Broadbar	Netopia Netopia 3346 v8.2r1	288	System	Heathy	CUG	Active	SNMP Public V1	V1	H11 %
9 10.20.30.147	0.20.30.147	Network.Broadba	Netopia Netopia 3381 v8.0.10	287	System	AHeathy	CUG	Active	SNMP Public V1	V1	m11 %
2 10.20.30.148	11.20.30.148	Network.Broadba	Netopia Netopia (R3100, R45xx, R7xx0, R9	291	System	Healthy	CUG	Active	SNMP Public V1	V1	- 1
P. 10.20.30.149	0.20.30.149	Network.Broadbar	Netopia R7200-T	292	System	AHeathy	CUG	Active	SNMP Public V1	V1	m11 %
9 10.20.30.201	10.20.30.201	Unknown	Generic SNMP	124	System	AHeathy	CUG	Active	SNMP Public V1	V1	m11 %
9.0010.20.30.208	10.20.30.208	Unknown	Generic SNMP	220	System	Heathy	CUG	Active	SNMP Public V1	V1	m)11 (b)
9 10.20.30.209	10.20.30.209	Telephony	Quintum Tenor	177	System	AHeathy	CUG	Active	SNMP Public V1	V1	H
Am 10.20.30.222	10.20.30.222	Unknown	Generic SNMP	201	System	Heathy	CUG	Active	SNMP Public V2	V2	m11 %
P.m 10.20.30.53	10.20.30.53	Unknown	Generic SNMP	139	System	AHeathy	CUG	Active	SNMP Public V1	V1	H11 N
Am 10.20.30.59	10.20.30.59	Unknown	Generic SNMP	143	System	AHeathy	CUG	Active	SNMP Public V2	V2	m11 %
P 10.20.30.61	10.20.30.61	Unknown	Generic SNMP	269	System	AHeathy	CUG	Active	SNMP Public V1	V1	10 C (10
Am 10.20.30.76	10.20.30.76	Unknown	Generic SNMP	111	System	AHeathy	CUG	Active	EM7 Default V3	V3	m13 %
9.110.20.30.8	10.20.30.8	Office.Printers	Oki Data Corporation OKI OkiLAN 8100e Rev.02.1	185	System	/ Minor	CUG	Active	SNMP Public V1	V1	m11 %
P 10.20.30.85	10.20.30.85	Wireless.Access	D-Link Access Point (DWL-6000AP)	224	System	/ Heathy	CUG	Active	SNMP Public V1	V1	10 I I I I I I I I I I I I I I I I I I I
Am 10.20.30.94	10.20.30.94	Network.Broadbar	Netopia Netopia 3386 v8.4.2r0	252	System	AHeathy	CUG	Active	SNMP Public V1	V1	m13 %
Am 10.20.30.96	\$10.20.30.96	Unknown	Generic SNMP	250	System	AHeathy	CUG	Active	SNMP Public V2	V2	₩ 23 %
P. 10.20.30.97	10.20.30.97	Network.Switches	McData Corporation Edge-24 Model 001 Fibre Cha	8251	System	AHeathy	CUG	Active	SNMP Public V1	V1	10 C (10)
	10.20.30.98	Network.Broadbar	Netopia Netopia 4622 v5.3.9r4	254	System	Healthy	CUG	Active	SNMP Public V1	V1	10 C
P. 10.4.1.2	10.4.1.2	Network.Router	Cisco Systems 7206VXR	93	System	Healthy	CUG	Active	SNMP Public V1	V1	BXN
P. 10.4.1.246	10.4.1.246	Unknown	Generic SNMP	81	System	Heathy	CUG	Active	SNMP Public V1	V1	10 C
P. 10.4.1.62	10.4.1.62	Servers	NET-SNMP Linux	88	System	Healthy	CUG	Active	SNMP Public V1	V1	BX N
P. 10.4.1.72	10.4.1.72	Unknown	Generic SNMP	96	System	Healthy	CUG	Active	SNMP Public V2	V2	10 C
Am 10.4.1.73	10.4.1.73	Unknown	Generic SNMP	97	System		CUG	Active	SNMP Public V2	V2	BU N
P. 10.4.1.77	10.4.1.77	Network.Switches	Cisco Systems Catalyst WS-C6009-CatOS	101	System	Healthy	CUG	Active	SNMP Public V1	V1	10 C
A 12612	10.20.30.109	Network.Router	Cisco Systems 2612	259	System	Major	CUG	Active	SNMP Public V1	V1	10 C
Am 2612	10.2.2.37	Network.Router	Cisco Systems 2612	150	System	<u>_</u> Major	CUG	Unavailable	SNMP Public V1	V1	BU N
Am 35S.State	10.4.1.247	Unknown	Generic SNMP	82	System	Major	CUG	Active	SNMP Public V1	V1	BXN
<u>∲</u> , ∭ 7010	10.20.30.122	Network Router	Cisco Systems 7010	234	System	AHeathy	CUG	Active	SNMP Public V1	V1	10 C
9.m7301-DS3	10.2.2.44	Network Router	Cisco Systems 7301	268	System	Major	CUG	Unavailable	SNMP Public V1	V1	B



3. In our example, we will add the tag *wan_link* to the WAN interface on **10.20.30.148**. Click on the WAN interface. The **Interface Properties** page appears.

4. In the Interface Properties page, find the Interface Tags field. Select the wrench icon (*P*) to the right of the field.

nterface Properties	Close / Es
For Interface [50598]	Report Purge Reset
[Editing: WAN 1]	
Interface Name	WAN 1
Port Description	WAN 1
	00:00:C5:8E:42:00 / FarallonCo
	atmFuni [106]
	0.767938 Mbps. [Counter 32]
Position & IfIndex	
Admin/Oper Status	Up/Up 👻
Interface N	ame WAN 1 Disable Discovery Name Update
	ming Set Name As: [WAN 1:0/3]
Interface T	Tags
Interface S	peed 767938 [Bits] 🗨 🗆 Disable Interface Speed Update
Linked-De	vice [None]
Linked-Interf	face 🕞 🖓
Collect State / Freque	
Alerting / Rollov	
Event Severity Ac	
Errors / Disca	ards [Disabled] 🗸 / [Disabled] 🗸 🚱
Measurement / Perce	ntile [Mega] 🗸 / [Accumulative] 🗸 😧
Display on Sumn	
	Save
Inbound % Thres	hold 65 % (Default: 65%)
Outbound % Thres	
Inbound Mbps 🚽 Thr	esh. d Mbps. [Default: 0 Mbps.]
Outhound Mhns Thr	-

5. The Edit Network Interface Tags modal page appears. In this page, enter the following:

Edit Network Interface Tags	Close / Esc
Network Interface Tags	
Tags (comma seperated)	
wan_link	
Save	

- Tags (comma separated). Enter wan_link.
- Select the **[Save]** button.
- Select the **[Close]** button.

6. In the Interface Properties page, notice that the Interface Tags field contains the entry wan_link.

terface Properties	Close / E
For Interface [50598]	Report Purge Reset
[Editing: WAN 1]	
Interface Name WAI	N1 🔺
Port Description WAI	
	0:C5:8E:42:00 / FarallonCo
IANA Type atm	Layer 2 - Layer 2
	7938 Mbps. [Counter 32]
Position & IfIndex 3/3	
Admin/Oper Status Up /	Up 👻
Interface Name	WAN 1 Disable Discovery Name Update
Naming	
-	Set Name As: [WAN 1:0/3]
Interface Tags	wan_link 🥜
Interface Speed	767938 [Bits] 🗨 Disable Interface Speed Update
Linked-Device	[None]
Linked-Interface	
Collect State / Frequency	[Enabled]
Alerting / Rollovers	
-	
Event Severity Adjust	
Errors / Discards	[Disabled]
Measurement / Percentile	[Mega] 🗸 / [Accumulative] 🗸 🥹
Display on Summary	
	Save
Inbound % Threshold	65 % (Default: 85%)
Outbound % Threshold	65 % [Default: 65%]
Inbound Mbps 👻 Thresh.	
Outbound Mhon Throub	Mino (Defente O Mino 1

7. Repeat steps 1-6 for the WAN interface on the second device (10.20.30.149).

Defining Metrics for the IT Service Policy

A metric is a measurement that helps determine the status of an IT Service.

The ScienceLogic platform automatically includes a default metric with each IT Service policy. The default metric is called **Average Device Availability**. The **Average Device Availability** metric examines the availability of all devices in the IT Service. By default, the **Average Device Availability** metric is collected from every device every minute and "crunched" and averaged every 15 minutes.

Before you can define additional metrics for an IT Service policy, you must determine what parameters you want to monitor for the IT Service policy. You can use data from the following sources to monitor the IT Service:

- Device Availability
- Device Latency
- Overall CPU Usage
- Physical Memory Usage
- Swap Usage
- Device State (Condition of the device, based upon the most severe event generated by the device.)
- Device Count
- Presentation Objects from Dynamic Applications
- Network Interface
- TCP/IP Port Monitor
- System Process Monitor
- Windows Service Monitor
- Email Round Trip Monitor
- Web Content Monitor
- SOAP/XML Transaction Monitor
- Domain Name Monitor

Our example uses data from **Network Interface** monitoring. We will create our metrics in **Basic mode**. We will create a metric called **wan_inbound_errors** that will examine specified (tagged) interfaces for errors. We will also define an alert that tells the ScienceLogic platform to generate an event when the interfaces exceed the threshold for acceptable errors.

- 1. After performing the tasks in the previous sections, select the [Metrics] sub-tab.
- 2. Ensure that you are in **Basic mode**. If you see the **[Alerting]** sub-tab, you are not in **Basic mode**. Click on the **[Advanced]** button to toggle to **Basic mode**.
- 3. Select the [Add] button.

4. The Service Metric Editor modal page appears.

	se / E
Res	et
Aggregation	
 Average 	-
Interface Metric	
Inbound Traffic	
	:
	×.
Critical 100	
• Ta• 🌆• 🗠 🗠	
	_
al	Average Interface Metric Inbound Traffic Event Severity Increasing Critical 100

- 5. We will create the metric **wan_inbound_errors**. This metric will measure the number of inbound errors on the interfaces at each end of the WAN link. To create this metric, enter the following values in the **Service Metric Editor** modal page:
 - Service Metric Name. Enter "wan inbound errors".
 - Metric Classification. Specifies whether the metric will be displayed in the IT Service Summary page in widgets that display vital metrics. Select Service Vital Metric. The metric will appear in widgets that display vital metrics.
 - Active State. Specifies whether the ScienceLogic platform should currently collect data for the metric and evaluate alerts for the metric. Select *Enabled*.
 - **Metric Type**. Specifies the type of performance data you want to use for the metric. Select Network Interface. Our metric will examine data from network interfaces.
 - Device Subset. We have not define any device subsets. Select All Devices in Service.
 - **Aggregation**. Specifies how the ScienceLogic platform will aggregate ("crunch") the data collected from all the devices in the IT Service into a single value. Select Average.

- Show only metrics available for this IT Service. Leave this checkbox unselected. This checkbox filters the succeeding fields so that they display already-defined policies aligned with one or more of the devices in the IT Service or in the specified **Device Subset**. For example, if you selected Dynamic App in the **Metric Type** field, and then selected this checkbox, the **Dynamic Application** field would display only Dynamic Applications that are already aligned with one or more of the devices in the IT Service or in the specified **Device Subset**.
- Interface Selection. Select the network interfaces to include in the calculation for this metric. Select Tagged Interfaces. To calculate a value for this metric, the ScienceLogic platform should aggregate interface utilization statistics from the interfaces that are associated with a specific tag on all the devices in the IT Service.
- Interface Tag. Appears if you selected Network Interface in the Metric Type field. Select wan_link. This is the interface tag that we assigned to the interfaces at each end of the WAN circuit.
- Interface Metric. Select the interface measurement that the ScienceLogic platform should use to calculate the value for this metric. Select Inbound Errors. To calculate a value for the metric, the ScienceLogic platform aggregates the value for this interface measurement from all interfaces that you included in this metric using the method specified in the Aggregation field (Average, Minimum, Maximum, Sum, Standard Deviation, or Device Count).
- 6. Select the **[Save]** button to save your new metric.

Defining Alerts for the IT Service Policy

For each metric in an IT Service policy, you can define an associated alert and event. In our example, we will create an alert for the metric we created in the *previous section*. The alert will trigger an event when the inbound errors on the development router exceed the threshold of acceptable errors.

- If the IT Service Editor page is not still open, go to the IT Service Manager page (Registry > IT Services > IT Service Manager). Find the policy WAN_circuit_1. Select its wrench icon (^J).
- 2. In the IT Service Editor page, select the [Metrics] sub-tab.
- 3. Ensure that you are in **Basic mode**. If you see the **[Alerting]** sub-tab, you are not in **Basic mode**. Click on the **[Advanced]** button to toggle between **Basic mode** and **Advanced mode**.
- 4. In the Service Metrics Definitions pane, find the metric wan_inbound_errors. Select its wrench icon (*P*).

2

5. In the **Service Metric Editor** modal page, go to the bottom pane. We will use the fields in the bottom pane to define an optional alert and optional event associated with the metric.

Edit Service Metric			Close / Esc
Service Metric Editor Editing Metric			Reset
Service Metric Name	Metric Type	Device Subset	Aggregation
dev_wan_inbound_errors	[Network Interface]	[(All Devices in Service)]	[Average]
Metric Classification	Show only metrics available for	this IT Service	
[Service Vital Metric]	Interface Selection	Interface Tag	Interface Metric
Active State	[Tagged Interfaces]	[wan_link]	[Inbound Traffic]
[Enabled]	Inbound Traffic: Measurement (B/s);	units: bytes/second	
	Guide Text		
			.::
Metric Alerting Single Threshold	Alert Policy Name dev router too many inbound err	Critical	Event Severity
	Alert Threshold	Chucai	▼
25	Alert Threshold		Increasing 🗨
0 Healthy		Critical	100
Trigger alert when dev_wan_inbound_errors is greater	than or equal to 25B/s. Reset alert w	hen dev_wan_inbound_errors is str	rictly less than 25B/s.
	Event Policy Descript	ion	
🔲 🙇 🔛 🖃 Source 🖺 🐰 🗈	6 6 5 🖤 🖩 0	🍓 🕥 🗖 🚝 😳 🗐	
B I U Style - For	mat Font	▼ Size	- Tar 🌆r 🗠 🖂
The two interfaces on the development router (1	0.20.30.148) are receiving errors	in excess of 25B/s.	
	ОК		
[

- 6. Enter values in the following fields:
 - Alert Policy Name. Enter "dev_router_too_many_inbound_errors". The ScienceLogic platform will automatically create an event policy that corresponds to this alert. This name will appear in the name of the event policy.
 - Event Severity. When the alert is generated, the ScienceLogic platform will trigger an event with the selected event severity. Select Critical.
 - **Decreasing/Increasing**. Toggles whether the alert is triggered when the value for the metric is above a specific threshold (Increasing) or below a specific threshold (Decreasing). Select *Increasing*.
 - Alert Threshold. Use sliders to define the threshold at which the alert should be generated and trigger an event and the threshold at which the alert should be reset and no longer trigger an event. Select 25.
 - Alert Range. Accept the default values.

- Event Policy Description. Optionally enter cause and resolution text for the event. The text you supply in this field will be used to populate the **Policy Description** field in the Event Policy Manager for the event. If this event is triggered, the text you supply in this field will be displayed in the Event Information modal page for the event.
- 7. Select the **[Save]** button to save your new alert.

Defining Key Metrics for the IT Service Policy

Key Metrics are the standard method for describing the status of an IT Service. Key Metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services include metrics that aggregate very different performance data. For example, you can define "health" for a remote backup service and also define "health" for an Internet bandwidth service, even though you would use different criteria to measure the health of those two services.

All IT Service policies define how the ScienceLogic platform should calculate the following Key Metrics for the IT Service:

- **NOTE**: The ScienceLogic platform automatically includes a default metric with each IT Service policy. The default metric is called **Average Device Availability**. The **Average Device Availability** metric specifies that the ScienceLogic platform should aggregate the availability data for all the devices in the policy and calculate the average availability.
- Service Health. The health of an IT Service can be one of the five standard severity values: Healthy, Notice, Minor, Major, or Critical. By default, the Service Health metric is aligned with the Average Device Availability metric.
- Service Availability. The availability of an IT Service can be either available or unavailable. By default, the Service Availability metric is aligned with the same metric as Service Health, converting Critical Service Health to Unavailable and all other Service Health values to Available.
- Service Risk. The risk of an IT Service is a percentage value that indicates how close an IT Service is to being in an undesirable state. By default, the Service Risk metric is aligned with the same metric as Service Health, converting the threshold between Healthyand Notice Service Health to 100% and the healthiest possible value to 0%.

For more details on Key Metrics, see the chapter on Creating, Editing, and Deleting IT Services.

To edit the definitions of each Key Metric for our example IT Service policy:

- If the IT Service Editor page is not still open, go to the IT Service Manager page (Registry > IT Services > IT Service Manager). Find the policy WAN circuit 1. Select its wrench icon (\$\$\scrimes\$\$).
- 2. In the IT Service Editor page, select the [Metrics] sub-tab.

3. In the bottom pane, you will see the three Key Metrics:

Key Metrics								
Service Health	[Average Device Availability]						▼ [Decreasing] 💌
	25		50		75		90	
0	Critical	Major	Ĭ	Minor	Ĭ	Notice	Health	ıy 100
Service Availability	dev_wan_inbound_errors		A		A			ncreasing 💌
	25							
0	AvailableUnava	ilable						100
Service Risk	dev_wan_inbound_errors						•	Decreasing] 💌
	25							100
0	100%							0% 100
	<u>م</u>							~
			Save					

- 4. To edit the Key Metrics for our example IT Service policy:
 - Service Health. This example uses the default values for this Key Metric. This Key Metric appears in the Health column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Healthy, Notice, Minor, Major, and Critical.
 - Service Availability. This Key Metric appears in the Availability column in IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Available and Unavailable.
 - From the drop-down list that appears above the Service Availability Key Metric, select wan_ inbound_errors. The Service Availability Key Metric will now examine the metric wan_ inbound_errors to determine the availability of the IT Service.
 - From the drop-down list that appears to the right of the **Service Availability** Key Metric, select **Increasing**.
 - Move the slider to **25**. If there are more than 25 errors, the service will be considered unavailable.
 - Accept the default minimum range and maximum range.
 - Service Risk. This Key Metric appears as a percentage in the Risk column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are 0% 100%.
 - From the drop-down list that appears above the Service Risk Key Metric, select wan_inbound_ errors. The Service Risk Key Metric will now examine the metric wan_inbound_errors to determine the risk to the IT Service.
 - From the drop-down list that appears to the right of the Service Risk Key Metric, select Increasing.
 - Move the 0% slider to 0. Move the 100% slider to 25. The Service Risk metric will now show how at risk the service is, with 0% risk being completely healthy (no errors) and 100% risk being unavailable (25 errors).
 - Accept the default minimum range and maximum range.
- 5. Select the [Save] button to save the changes to the Key Metrics.

2

Viewing Information about the IT Service Policy

IT Service Manager

The **IT Service Manager** page displays overview information each IT Service policy. To view the **IT Service Manager** page:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Find the policy **WAN_circuit_1**.

Service Manager Services Found [4]									Crea	te Reset Gui	ide
Service Name •	Health	Availability	Risk	<u>10</u>		Owner	Access		Edited By	Last Edited	6
1. + Acme: MS SQL database_servers	Critical Critical	Unavailable Unavailable		3	em7admin em7admin		Shared	em7admin em7admin		2013-02-19 14:15:54 2013-02-19 13:49:40	
2. + <u> </u>	Critical	Unavailable		2	em/admin em/admin		Shared Shared	em/admin em7admin		2013-02-19 13:49:40 2013-02-19 13:49:28	
4. + AWAN_circut_1	Healthy	Available	0%	4	em7admin		Shared	em7admin		2013-02-19 15:57:15	
									[Select Actio	n] 💌	Go

- 3. The IT Service Manager displays the following about the IT Service policy.
 - Service Name. Name of the policy. The color indicates the severity of the most severe event associated with the IT Service policy.
 - *Health*. This is a default Key Metric for each IT Service policy. This metric specifies the overall health of the IT Service. Possible values are: *Critical*, *Major*, *Minor*, *Notice*, and *Healthy*.
 - Availability. This is a Key Metric for each IT Service policy. This metric specifies the overall availability of the IT Service. Possible values are: Available or Unavailable.
 - **Risk**. This is a Key Metric for each IT Service policy. This metric specifies the overall risk to the IT Service. Possible values are 0% 100%, in integer values

IT Service Summary

The **IT Service Summary** page allows you to view the IT Service Dashboards that have been configured for the selected IT Service. By default, each IT Service Policy includes the **IT Service Details** dashboard. To access the **IT Service Summary** page:

To view the **IT Service Summary** page:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Find the policy **WAN_circuit_1**. Select its map icon (♣).
- 3. The **IT Service Summary** page for our example IT Service policy displays the default **IT Service Details** dashboard for the IT Service:

Summary Model Logs	Events Tickets	Administration		
IT Service Summary IT Service [4]			Ac	tions Reset Guide
[IT Service Details]				
				Problem Management -
Service Name WAN_circuit_1	Service Health Healthy			-
Service Owner em7admin	Service Availability Available			Logs 286
Service Visibility BK_Org1, BK_Org2, System	Service Risk 0%			Active Tickets 0
Maintenance State Service Active				
Service Vitals	 No Matching Data (Last 12 	hours)		•
dev wan inbound errors 0.14 B/s				
	06:00 08:0	0 10:00	12:00 14:0	0 16:00
			 No Matching Data 	
	Activity Log			*
	Date/Time	Type	Description	
	2013-02-19 17:38:32		in Updated IT Service: Added Range	e 0 : Threshold 1 : 25
	2013-02-19 17:38:32	Log ITSM UI: em7adm	in Updated IT Service: Added Range	e 0 : Max Value 100 🗉
	2013-02-19 17:38:32	Log ITSM UI: em7adm	in Updated IT Service: Added Range	e 0 : Presentation ID 1895
	2013-02-19 17:38:32	Log ITSM UI: em7adm	in Updated IT Service: Added Alerts	0 : Target 0 : Alert_ld -8
	2013-02-19 17:38:32		in Updated IT Service: Added Alerts	
	2013-02-19 17:38:32			0 : Alert Name dev_router_too_mar
	2013-02-19 17:38:32		in Updated IT Service: Added Alerts	
	2013-02-19 17:38:32		in Updated IT Service: Added Collec	
	2013-02-19 17:38:32 2013-02-19 17:38:32		in Updated IT Service: Added Collect	-
	2013-02-19 17:38:32	-	in Updated IT Service: Added Collect in Updated IT Service: Added Collect	tion 0 : Name Interfaces tagged "wa tion 0 : Class 4
	2013-02-19 17:38:32	-	in Updated IT Service: Added Collect in Updated IT Service: Added Collect	
	2013-02-19 17:38:32	-	in Updated IT Service: Removed Col	
	2013-02-19 17:38:32	-	in Updated IT Service: Changed Pre	
	2013-02-19 17:38:32	•		0 : Formula result(p_1895) >= thres
	2013-02-19 17:38:32	Log ITSM UI: em7adm	in Updated IT Service: Added Alerts	0 : Message dev_wan_inbound_er
	2013-02-19 17:38:32	Log ITSM UI: em7adm	in Updated IT Service: Added Alerts	0 : Name dev_router_too_many_int
	2013-02-19 17:38:32	Log ITSM UI: em7adm	in Updated IT Service: Added Reque	est 0 : app_id 556 👻
11 0.0.206 (cm7 (index cm72act= details8texes= it_convice8teenvice_id				

Viewing Additional Information

For instructions on how to view **information about the devices** in an IT Service policy, view the **events** associated with an IT Service policy, view the **tickets** associated with an IT Service, and view the **log messages** associated with an IT Service policy, see the chapter on Viewing IT Services.

Example

3

Overview

This chapter will provide a working example of an IT Service policy.

This example will include a **Service Dependency**. The example will create a metric for availability for all devices in the Acme company. The example will use metrics from other IT Service policies to calculate device availability for all devices in the company. Specifically, the example policy **acme_all_devices**, will use the availability metrics and list of devices from the IT Service policies **acme_east_coast_devices** and **acme_west_coast_devices** to determine the availability of all devices in the Acme company.

Example Using Service Dependencies

This example is abbreviated and specifically highlights using a Service Dependency. For detailed examples of other aspects of IT Service policy, see the chapter on Creating, Editing, and Deleting IT Services or Example 1 or Example 2.

Creating an IT Service Policy

To define the example IT Service policy in this example, you must:

- 1. Define two simple IT Service policies to use as Service Dependencies.
- 2. **Define a service name and basic properties**. In this example, we will monitor the availability of devices at two corporate offices. The name of the IT Service policy will be *acme_all_devices*.
- 3. Define a list of Service Dependencies (model) for the IT Service that includes all the external IT Service policies you want to reference. In our example, we'll use the data from two different IT Service policies to create a metric in our example IT Service policy. The metric in our example IT Service policy will include all the devices and availability data from our two Service Dependencies.

- 4. Define metrics. A metric is based on your business processes and examines all devices or one or more service sets to evaluate the state of the IT Service. For our example, we'll examine the availability of multiple groups of devices and create a metric for availability of the sum of all devices.
- **NOTE**: When the ScienceLogic platform evaluates a metric, it performs an aggregation, that is, the platform evaluates the data for all devices specified in the definition of the metric, over a specified time period (the **Aggregation Frequency**). Depending on the definition of the metric, the platform calculates the average, maximum, minimum, sum, standard deviation, or count value for all devices specified in the definition of the metric.
- 5. **Define alerts and associated events**. Each alert and its associated event is triggered by a metric. In our example, we will not define alerts and events. For examples of defining alerts and events, see the chapter on *Creating, Editing, and Deleting IT Services* or *Example 1* or *Example 2*.

Defining the Two External IT Service Policies

First, we must define the two IT Service policies that we will use as Service Dependencies. Each IT Service policy will monitor the availability of three devices.

To define the basic parameters of our two external IT Service policies, follow the steps in the following two subsections.

Defining "acme_east_coast_devices"

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the **[Create]** button. This new IT Service policy will monitor the availability of devices in a branch office of the Acme company.

3. The IT Service Editor page appears, with the [Administration] tab selected.

Summary Model Logs	Events	Tickets Administr	ation	
IT Service Editor Created IT Service IT Service [6]				New Reset Guide
Properties Model Metrics Schedule				Advanced
IT Service Name		si	naring Permi	ssions Icon
acme_east_coast_devices		[Shared with users in your organ	nizations]	
IT Service Owner			Permission H	
em7admin	Change Owner	EM7 System Administration Grant All		
Configuration Mode [Basic Interface]	•	Basic User Privileges Power-Pack Administration		=
		Provisioning Access Admin Portal UI Access		
		IT Services		-
Data Collection				
				Raw Data Retention
Operational Status [Aggregation enabled]	 [Every 5 minute 	Aggregation Frequency s 1	-	[Use system default retention setting]
Frequent Rollup Retention		Hourly Rollup Retention		Daily Rollup Retention
[Use system default retention setting]	 Use system de 	fault retention setting]	•	
		Save Save As		.::

- 4. Select the [Properties] sub-tab. Supply the following values in the following fields:
 - IT Service Name. Name of the IT Service policy. We entered "acme east coast devices".
 - IT Service Owner. Automatically populated with your username.
 - **Configuration Mode**. We selected Basic Interface. The Basic Interface allows you to quickly setup an IT Service policy.
 - Sharing Permissions. Specifies whether other users can view and use the IT Service policy, in both the IT Service Manager page, IT Service Editor page, and in the pages in the ScienceLogic platform where the IT Service is visible. We selected Shared with users in your organization. The IT Service policy can be viewed and used by other users who belong to the same organization as the creator.
 - Permission Keys. We did not select any permission keys.
 - Operational Status. We selected Aggregation enabled.
 - Aggregation Frequency. Frequency at which the ScienceLogic platform will collect data from all devices in the IT Service and "crunch" the data for each metric into a single value. We specified Every 5 minutes.
 - **Raw Data Retention**. Specifies how long the ScienceLogic platform should store the raw data for the IT Service policy. We accepted the default value.
 - Frequent Rollup Retention. Deprecated field no longer used by the ScienceLogic platform.
 - Hourly Rollup Retention. Specifies how long the ScienceLogic platform should store the "hourly" normalized data for the IT Service policy. We accepted the default value.

- **Daily Rollup Retention**. Specifies how long the ScienceLogic platform should store the "daily" normalized data for the IT Service policy. We accepted the default value.
- **Description**. We did not enter a description.
- 5. Select the **[Save]** button to save the values in the **[Properties]** tab.
- 6. Select the **[Model]** tab.
- 7. We will statically add three servers to our policy. To add a static list of one or more devices to the list of devices for the IT Service policy, go to the **Static Devices** pane.

Summary Moo	del Logs	Events	Tickets	Administration						
IT Service Editor Created IT	Service IT Service [4]					Nev	1	Reset	Guid	e
Properties Model	Metrics Schedule								Advan	ced
Device Groups [0]								De	I Ac	Id
		Device Group N	ame •			<u>ID</u>	Devices	Groups	Rules	2
			No device groups in	service.						
									_	
Static Devices [0]								De	1 Ac	ld
	Device Name •		Class Si	ub-class	ID		Organization			Ø
			No static devices in s	service.						
Dynamic Device Rules [0]								De	I Ac	ld
Selector Type			Selector Tar	gets				Match	ed Devs	2
		No	dynamic device rules	in service.						
			Save							

8. Select the **[Add]** button. The **Device Alignment** modal page displays a list of all devices in the ScienceLogic platform.

. 📕		5, 10,4,1,86, 10,4						
1. 🗖		3, 10.4, 1.00, 10.4,						
	10.4.1.1	10.4.1.1	Router	Cisco Systems 7206VXR	461	System		
2. 👖	10.4.1.1	10.4.1.1	Router	Cisco Systems 7206VXR	7648	System		
3. 👖	10.4.1.13	10.4.1.13	Unknown	Generic SNMP	239	System		
4. 📊	10.4.1.2	10.4.1.2	Router	Cisco Systems 7206VXR	456	System		
5. 👖	10.4.1.62	10.4.1.62			445	System		
6. 👖	10.4.1.62	10.4.1.62	Servers	NET-SNMP Linux	7650	System		
7. 📶	10.4.1.77	10.4.1.77	Switches	Cisco Systems Catalyst WS-C6	989	System		
3. 👖	ALLIANCECOPIA	10.4.1.204	Servers	Microsoft Windows 2008 Serve	216	System	V	Add
9. 👖	AOPC-MDJ23-3-01	10.4.1.43	Router	Cisco Systems 1750	355	System		
D. 📶	AOPC-MDJ23-3-01	10.4.1.43	Router	Cisco Systems 1750	7647	System		
1. 📶	AU-ADC3	10.4.1.14	Servers	Microsoft Windows 2003 Doma	237	System		
2. 👖	AU-ADC3	10.4.1.15	Servers	Microsoft Windows 2003 Doma	241	System	V	Add
3. 👖	AU-ADC3	10.4.1.11	Servers	Microsoft Windows 2003 Doma	243	System		
4. 👖	AU-ADC3	10.4.1.17	Servers	Microsoft Windows 2003 Doma	244	System		
5. 👖	BLADE1	10.4.1.86	Servers	Microsoft Windows 2003 Serve	985	System	V	Add
B. 👖	bristol	10.4.1.205	Servers	NET-SNMP Solaris	220	System		
7. 👖	c4507RE-HHI_1B.hoag.org	10.4.1.69	Switches	Cisco Systems Catalyst 4507RE	459	System		
3. 👖	ca-dsrv-esx1.ca.sophos.com	10.4.1.81	VMware	VMWare ESX	201	System		
ə. 👖	Cisco_10.4.1.100	10.4.1.100	Router	Cisco Systems 7206VXR	401	System		
D. 📶	Cisco_10.4.1.20	10.4.1.20	Router	Cisco Systems 7206VXR	287	System		
	Cisco_10.4.1.21	10.4.1.21	Router	Cisco Systems 7206VXR	296	System		
2. 👖	Cisco_10.4.1.22	10.4.1.22	Router	Cisco Systems 7206VXR	284	System		
3. 👖	Cisco_10.4.1.23	10.4.1.23	Router	Cisco Systems 7206VXR	285	System		
4. 👖	Cisco_10.4.1.24	10.4.1.24	Router	Cisco Systems 7206VXR	321	System		
	Cisco 10.4.1.25	10.4.1.25	Router	Cisco Systems 7206VXR	305	System		

- 9. In the **Device Alignment** modal page, we selected the checkbox for devices ALLIANCECOPIA, AU-ADC3, and BLADE1. Each is a Windows server.
- 10. Select the **[Add/Remove]** button in the lower right. The selected devices will appear in the **Static Devices** pane.
- 11. Select the [Save] button to save the list of devices
- 12. We will use the default metric automatically created by the ScienceLogic platform, **Average Device Availability**, so we don't have to create a custom metric.

Defining "acme_west_coast_devices"

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the [Create] button. This new IT Service policy will monitor the availability of devices in a branch office of the Acme company.
- 3. The IT Service Editor page appears, with the [Administration] tab selected.

Summary Model Logs	Events	Tickets Administration			
IT Service Editor Created IT Service IT Service [7]				New Reset (Guide
Properties Model Metrics Schedule				Ad	vanced
IT Service Name		Sharing P	ermissions	lcon	
acme_west_coast_devices		[Shared with users in your organizations		•	
IT Service Owner			on Keys		
mantone	Change Owner	EM7 System Administration Grant All			
Configuration Mode		Basic User Privileges			
[Basic Interface]		Power-Pack Administration Provisioning Access			
		Admin Portal UI Access			
Data Collection					
Operational Status		Aggregation Frequency		Raw Data Retention	
	 Every 5 minutes 	-	 Use system defau 		•
Frequent Rollup Retention		Hourly Rollup Retention	Daily Rollup Retention		
[Use system default retention setting]	 Use system de 	fault retention setting]	 Use system defau 	It retention setting j	
Description					
					.::
		Save Save As			!

- 4. Select the [Properties] sub-tab. Supply the following values in the following fields:
 - IT Service Name. Name of the IT Service policy. We entered "acme_west_coast_devices".
 - IT Service Owner. Automatically populated with your username.
 - **Configuration Mode**. We selected Basic Interface. The Basic Interface allows you to quickly setup an IT Service policy.
 - Sharing Permissions. Specifies whether other users can view and use the IT Service policy, in both the IT Service Manager page, IT Service Editor page, and in the pages in the ScienceLogic platform where the IT Service is visible. We selected Shared with users in your organization. The IT Service policy can be viewed and used by other users who belong to the same organization as the creator.
 - Permission Keys. We did not select any permission keys.
 - Operational Status. We selected Aggregation enabled.
 - Aggregation Frequency. Frequency at which the ScienceLogic platform will collect data from all devices in the IT Service and "crunch" the data for each metric into a single value. We specified Every 5 minutes.
 - **Raw Data Retention**. Specifies how long the ScienceLogic platform should store the raw data for the IT Service policy. We accepted the default value.
 - Frequent Rollup Retention. Deprecated field no longer used by the ScienceLogic platform.
 - Hourly Rollup Retention. Specifies how long the ScienceLogic platform should store the "hourly" normalized data for the IT Service policy. We accepted the default value.
 - **Daily Rollup Retention**. Specifies how long the ScienceLogic platform should store the "daily" normalized data for the IT Service policy. We accepted the default value.
 - **Description**. We did not enter a description.

- 5. Select the **[Save]** button to save the values in the **[Properties]** tab.
- 6. Select the **[Model]** tab.
- 7. We will statically add three devices to our policy. To add a static list of one or more devices to the list of devices for the IT Service policy, go to the **Static Devices** pane.

Summary Moo	tel Logs	Events	Tickets	Administration						
IT Service Editor Created IT	Service IT Service [4]					Ne	N	Reset	Guid	de
Properties Model	Metrics Schedule								Advan	nced
Device Groups [0]								D	el A	dd
		Device Group Na	<u>me</u> •			<u>10</u>	Devices	Groups	Rules	2
No device groups in service.										
Static Devices [0]									el A	
Static Devices [0]	Device Name •		Class S	ub-class	D		Organization	D	el A	dd √
					-					"
			No static devices in s	service.						
Dynamic Device Rules [0]								D	el A	dd
Selector Type			Selector Tar	gets				Mato	hed Devs	2
		No	dynamic device rules	s in service.						
			Save							

8. Select the **[Add]** button. The **Device Alignment** modal page displays a list of all devices in the ScienceLogic platform.

Device Name •	IP Address	Category	Class Sub-class	ID	Organization	\checkmark	Action
	10.2.2						
12612	10.2.2.37	Router	Cisco Systems 2612	14037	System		Ado
///con-cucm7	10.2.2.3			415	System		
///cvd-as5300-2.cisco.com	10.2.2.28	Access	Cisco Systems AS5300	361	System		
HQ-FW-PIX01.sciencelogic.com	10.2.2.173	Firewall	Cisco Systems PIX 515E	2171	System		
///HQ-FW-PIX01.sciencelogic.com	10.2.2.175	Firewall	Cisco Systems PIX 515E	2176	System		
///Nexus-5020-1	10.2.2.11	Switches	Cisco Systems N5K-C5020-P-B	293	System		
MPM-VMWARE	10.2.2.13	Servers	Microsoft Windows 2003 Serve	301	System		Add
//SEP001DA23897CE	10.2.200.55	TelePresen	Cisco TelePresence CTS-3010	10288	System		
//SEP001DA23897CE	10.2.200.56	TelePresen	Cisco TelePresence CTS-500	10298	System		
//SEP001DA23897CE	10.2.200.57	TelePresen	Cisco TelePresence CTS-500	10299	System		
///ServMod-37	10.2.2.17		-	289	System		
ServMod-37	10.2.2.6			406	System		
#Support	10.2.2.15	Unknown	Cisco Systems OEM	292	System		
///Switch	10.2.2.52	Switches	Cisco Systems Catalyst 3750-S	376	System		
///velocity	10.2.2.16	Unknown	Generic SNMP	288	System		
///WAE-CORE.customerb.com	10.2.2.9	Software	Cisco Systems WAE-512	402	System		Add
WAE-CORE.customerb.com	10.2.2.8	Software	Cisco Systems WAE-512	403	System		

- 9. In the **Device Alignment** modal page, we selected the checkbox for devices "10.2.2.13", "10.2.2.37", and "10.2.2.9". Each is a Cisco network device.
- 10. Select the **[Add/Remove]** button in the lower right. The selected devices will appear in the **Static Devices** pane.
- 11. Select the **[Save]** button to save the list of devices
- 12. We will use the default metric automatically created by the ScienceLogic platform, **Average Device Availability**, so we don't have to create a custom metric.

Defining the Name of the IT Service Policy and its Basic Properties

Our example IT Service policy, *acme_all_devices*, will examine the devices and metrics from the *two external IT* Service policies to calculate availability for all devices in the Acme company. To define the basic parameters of our example IT Service policy:

- 1. Go to the **IT Service Manager** page Registry > IT Services > IT Service Manager).
- 2. Select the [Create] button.
- 3. The IT Service Editor page appears, with the [Administration] tab selected.

4. Select the [Properties] sub-tab. Supply the following values in the following fields:

Summary Model Logs	Events	Tickets Administra	ation	
T Service Editor Created IT Service IT Service [8]				New Reset Guide
Properties Model Metrics Schedule				Advanced
IT Service Name		SI	haring Permi	ssions
acme_all_devices		[Shared with users in your organ		
IT Service Owner			Permission H	
mantone	Change Owner	EM7 System Administration Grant All		
Configuration Mode [Basic Interface]	•	Basic User Privileges Power-Pack Administration		
[busic interface]		Provisioning Access		
		Admin Portal UI Access		-
Data Collection				
Operational Status	▼ [Every 5 minutes	Aggregation Frequency		Raw Data Retention
[Aggregation enabled]	 Every 5 minutes 		•	[Use system default retention setting]
Frequent Rollup Retention [Use system default retention setting]	 [Use system det 	Hourly Rollup Retention fault retention setting]	-	Daily Rollup Retention [Use system default retention setting]
[ood of otom donaak recention donaing]	[Coco of otom do	add retention ootting j		[oce of storm de rate, recentler extrag]
Description				
				.::
		Save Save As		

- IT Service Name. Name of the IT Service policy. We entered "acme all devices".
- IT Service Owner. Automatically populated with your username.
- **Configuration Mode**. We selected Basic Interface. The Basic Interface allows you to quickly setup an IT Service policy.
- Sharing Permissions. Specifies whether other users can view and use the IT Service policy, in both the IT Service Manager page, IT Service Editor page, and in the pages in the ScienceLogic platform where the IT Service is visible. We selected Shared with users in your organization. The IT Service policy can be viewed and used by other users who belong to the same organization as the creator.
- Permission Keys. We did not select any permission keys.
- Operational Status. We selected Aggregation enabled.
- Aggregation Frequency. Frequency at which the ScienceLogic platform will collect data from all devices in the IT Service and "crunch" the data for each metric into a single value. We specified Every 5 minutes.
- Raw Data Retention. Deprecated field no longer used by the ScienceLogic platform.
- Frequent Rollup Retention. Specifies how long the ScienceLogic platform should store the "frequent" normalized data for the IT Service policy. We accepted the default value.
- Hourly Rollup Retention. Specifies how long the ScienceLogic platform should store the "hourly" normalized data for the IT Service policy. We accepted the default value.
- Daily Rollup Retention. Specifies how long the ScienceLogic platform should store the "daily" normalized data for the IT Service policy. We accepted the default value.
- Description. We did not enter a description.

5. Select the **[Save]** button to save the values in the **[Properties]** tab.

Defining a List of Service Dependencies for the IT Service Policy

After defining the name and basic properties of the example IT Service policy, we next define the Service Dependencies. You do this in the **[Model]** sub-tab.

To create the Service Dependencies for the IT Service policy:

- 1. After performing the tasks in the previous sections, go to the **IT Service Editor** page for the example IT Service policy and select the **[Model]** sub-tab.
- 2. Select the [Advanced] button.
- 3. Go to the Service Dependencies pane. Select the [Add] button.

Details	Model	Logs	Events	Tic	kets	Admir	nistra	ation			
IT Service Editor Crea	ated IT Service	IT Service [26] Click	"Save" to comm	it changes	8				New	Reset	Guide
Properties Mod	el Collec	tion Metrics	Alerting Sch	edule							Advanced
Device Groups [0]					De	Ad	d	Service Dependencies [0]		Del	Add
	Device G	roup Name •	<u>ID</u>	Devices	Groups	Rules	Ø		Service Name •		
		No device groups in	service.					No	dependent services		
Static Devices [0]					De	Ad	d				
11	e Name •	Class Sub-	class ID		Organization		Ø				
		No static devices in	service.								
								Device Subsets [1]		Del	
								Dev 1. + (All Devices in Service	ice Subset Name •		<u>≢ Devs</u> 🖉
									,		
Dynamic Device Rules	s 101				De	Ad	d				
Selector Type		Selector Ta	argets			ed Devs					
							-1				
		No dynamic device rule	e in service								
		no dynamie device ruk	a in der rice.								
											Refresh
					Save						
				_	Jave						

4. The Service Dependency Alignment Editor modal page appears. The Service Dependency Alignment Editor modal page displays a list of all IT Services in the ScienceLogic platform that you are allowed to view.

Add/Remove Service Dependencies			Close / Esc
Service Dependency Alignment			Reset
Service Name •	State		Action
1. acme_east_coast_devices	Critical	24 🗸	Add
	Healthy	24 📝 25 📝	Add
		Add: [2] Ad	id/Remove

- 5. To align the two external IT Services in this example, we selected the checkbox for "acme_east_coast_ devices " and "acme west coast devices"
- 6. Select the **[Add/Remove]** button in the lower right. The selected IT Service policies will appear in the **Service Dependencies** pane.
- 7. Select the **[Save]** button to save the list of service dependencies.

Defining Metrics for the IT Service Policy

A metric is a measurement that helps determine the status of an IT Service.

The ScienceLogic platform automatically includes a default metric with each IT Service policy. The default metric is called **Average Device Availability**. The **Average Device Availability** metric examines the availability of all devices in the IT Service. By default, the **Average Device Availability** metric is collected from every device every minute and "crunched" and averaged every 15 minutes.

Our example uses data from two external IT Service policies (acme_east_coast_devices and acme_west_coast_ devices) to determine the availability of all devices in the Acme network.

- We will define a metric for **east_coast_device_availability** that is a link to the **acme_east_coast_devices** IT Service policy.
- We will define a metric for **west_coast_device_availability** that is a link to the **acme_west_coast_devices** IT Service policy.

• We will define a metric for all_devices_availability that will examine east_coast_device_availability and west_coast_device_availability and calculate the average availability for the sum of all devices on the east coast plus all the devices on the west coast.

Defining east_coast_device_availability

- 1. Go to the IT Service Editor page and select the [Metrics] sub-tab.
- 2. Ensure that you are in **Basic mode**. If you see the **[Alerting]** sub-tab, you are not in **Basic mode**. Click on the **[Advanced]** button to toggle to **Basic mode**.
- 3. Select the [Add] button.
- 4. The Service Metric Editor modal page appears.

Edit Service Metric			Close / Esc
Service Metric Editor Editing Metric			Reset
Service Metric Name east_coast_device_availability Metric Classification [Service Vital Metric] Active State [Enabled]	Metric Type [Algned Service Dependency] Service Dependency M [acme_east_coast_devices: Average D Guide Text	etric	Aggregation [[Maximum] - Presentation Availability]
	Guide Text		
Metric Alerting	Alert Policy Name	Critical	Event Severity
	Alert Threshold	75	Increasing v
0	Healthy	<u> </u>	Critical 100
Alert Policy not defined.			
B Z U Syle + For	Event Policy Description	In the O the test of test	
	ок		
	OK		

- 5. We will create the metric east_coast_device_availability. This metric will point to the service dependency for acme_east_coast_devices and calculate the average device availability of the devices in that external IT Service policy. Because we defined acme_east_coast_devices as a service dependency, the ScienceLogic platform will use the availability metric defined in the acme_east_coast_devices IT Service policy and will use the list of devices in the acme_east_coast_devices IT Service policy.
- 6. To create this metric, enter the following values in the **Service Metric Editor** modal page:
 - Service Metric Name. Enter "east_coast_device_availability".
 - Metric Classification. Specifies whether the metric will be displayed in the IT Service Summary page in widgets that display vital metrics. Select Service Vital Metric. The metric will appear in widgets that display vital metrics.

- Active State. Specifies whether the ScienceLogic platform should currently collect data for the metric and evaluate alerts for the metric. Select *Enabled*.
- Metric Type. Specifies the type of performance data you want to use for the metric. Select Aligned Service Dependency. Our metric will examine devices in a service dependency. Because the metric is based on a metric that is defined in another IT Service policy, the Device Subset, Aggregation, and Show only metrics available for this IT Service fields are not applicable and are grayed out.
- Service Dependency Metric. This field displays a list of service dependencies for the current IT Service policy. Select acme_east_coast_devices.
- **Presentation**. This field displays a list of all metrics in the **acme_east_coast_devices** IT Service policy . Select Average Device Availability.
- 7. Select the [Save] button to save your new metric.

Defining west_coast_device_availability

- 1. Go to the IT Service Editor page and select the [Metrics] sub-tab.
- 2. Ensure that you are in **Basic mode**. If you see the **[Alerting]** sub-tab, you are not in **Basic mode**. Click on the **[Advanced]** button to toggle to **Basic mode**.
- 3. Select the [Add]button.
- 4. The Service Metric Editor modal page appears.

t Service Metric		Close /
rvice Metric Editor Editing Metric		Reset
Service Metric Name	Metric Type	Device Subset Aggregation
west_coast_device_availability	[Aligned Service Dependency]	evices in Service)] 🚽 [Maximum] 🚽
Metric Classification	Show only metrics available for this IT Serv	ice
[Service Vital Metric]	 Service Dependency Metric 	Presentation
Active State	[acme_west_coast_devices]	[Average Device Availability]
[Enabled]	acme_west_coast_devices: Average Device Ave	ailability : Percentage Value
	Guide Text	
Metric Alerting	Alert Policy Name	Event Severity
[No Alert Policy]	•	Critical
	Alert Threshold	Increasing -
		75
0	Healthy	Critical 100
	Healthy	Critical 100
	Healthy	
	Healthy	
lert Policy not defined.	Event Policy Description	
lert Policy not defined.	Event Policy Description	
lert Policy not defined.	Event Policy Description	
lert Policy not defined.	Event Policy Description	
	Event Policy Description	
lert Policy not defined.	Event Policy Description	
lert Policy not defined.	Event Policy Description	
lert Policy not defined.	Event Policy Description	

5. We will create the metric west_coast_device_availability. This metric will point to the service dependency for acme_west_coast_devices and calculate the average device availability of the devices in that external IT Service policy. Because we defined acme_west_coast_devices as a service dependency, the ScienceLogic

platform will use the availability metric defined in the *acme_west_coast_devices* IT Service policy and will use the list of devices in the *acme_west_coast_devices* IT Service policy

- 6. To create this metric, enter the following values in the **Service Metric Editor** modal page:
 - Service Metric Name. Enter "west_coast_device_availability".
 - Metric Classification. Specifies whether the metric will be displayed in the IT Service Summary page in widgets that display vital metrics. Select Service Vital Metric. The metric will appear in widgets that display vital metrics.
 - Active State. Specifies whether the ScienceLogic platform should currently collect data for the metric and evaluate alerts for the metric. Select *Enabled*.
 - Metric Type. Specifies the type of performance data you want to use for the metric. Select Aligned Service Dependency. Our metric will examine devices in a service dependency.

NOTE: Because this metric is based on a metric that is defined in another IT Service policy, the **Device** Subset, Aggregation, and Show only metrics available for this IT Service fields are not applicable and are grayed out.

- Service Dependency Metric. This field displays a list of service dependencies for the current IT Service policy. Select acme_west_coast_devices.
- **Presentation**. This field displays a list of all metrics in the **acme_west_coast_devices** IT Service policy . Select Average Device Availability.
- 7. Select the **[Save]** button to save your new metric.

Defining all_devices_availability

- 1. Go to the **IT Service Editor** page and select the **[Metrics]** sub-tab.
- 2. Select the **[Advanced]** button. Ensure that you are in **Advanced** mode. If you see the **[Alerting]** sub-tab, you are in **Advanced** mode.
- 3. Select the **[Add]**button.
- 4. The Service Metric Editor modal page appears.

it Service Metric	Close / I
ervice Metric Editor Editing Metric	Reset
Service Metric Name	Metric Formula
all_devices_availability	((o_37103 + o_37104)/2)
Metric Classification	
[Service Vital Metric]	
Active State	
[Enabled]	
Metric is Percentage Value	Aggregation Objects (Double-click to insert)
Abbreviation / Suffix Data Unit Description	o 37103: acme east coast devices: Average Device Availability (Maximum)
% percentage	o_37104: acme_west_coast_devices: Average Device Availability (Maximum)
	Guide Text
	ок

- 5. We will create the metric **all_devices_availability**. This metric will use the aggregation objects from the metrics **east_coast_device_availability** and **west_coast_device_availability** to calculate the average availability for the sum of all devices on the east coast plus all the devices on the west coast
- 6. To create this metric, enter the following values in the Service Metric Editor modal page:
 - Service Metric Name. Enter "all_devices_availability".
 - Metric Classification. Specifies whether the metric will be displayed in the IT Service Summary page in widgets that display vital metrics. Select Service Vital Metric. The metric will appear in widgets that display vital metrics.
 - Active State. Specifies whether the ScienceLogic platform should currently collect data for the metric and evaluate alerts for the metric. Select Enabled.
 - Metric is Percentage Value. If selected, the next two fields are populated automatically. If not selected, you can supply custom values in the next two fields.
 - Abbreviation/Suffix. Populated automatically.
 - Data Unit Description. Populated automatically.
 - Metric Formula. Enter:

 $((o_XXX + o_YYY)/2)$

Where XXXX is the number displayed for east_coast_devices in the **Aggregation Objects** field and YYYY is the number displayed for the west_coast_devices in the **Aggregation Objects** field. This formula tells the ScienceLogic platform to add the average for all devices in the east_coast_availability metric with the average for all devices in the west_coast_availability metric and divide the sum by two.

NOTE: If you don't want to manually enter the object ID for each aggregation object, you can add the object ID for by double-clicking on the aggregation object in the **Aggregation Objects** field.

- Guide Text. Leave blank.
- 7. Select the **[Save]** button to save your new metric.

NOTE: We didn't define any custom alerts for this example IT Service policy. You could optionally define alerts in the **[Alerts]** tab.

Defining Key Metrics for the IT Service Policy

Key Metrics are the standard method for describing the status of an IT Service. Key Metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services include metrics that aggregate very different performance data. For example, you can define "health" for a remote backup service and also define "health" for an Internet bandwidth service, even though you would use different criteria to measure the health of those two services.

All IT Service policies define how the ScienceLogic platform should calculate the following Key Metrics for the IT Service:

NOTE: The ScienceLogic platform automatically includes a default metric with each IT Service policy. The default metric is called **Average Device Availability**. The **Average Device Availability** metric specifies that the ScienceLogic platform should aggregate the availability data for all the devices in the policy and calculate the average availability.

- Service Health. The health of an IT Service can be one of the five standard severity values: Healthy, Notice, Minor, Major, or Critical. By default, the Service Health metric is aligned with the Average Device Availability metric.
- Service Availability. The availability of an IT Service can be either available or unavailable. By default, the Service Availability metric is aligned with the same metric as Service Health, converting Critical Service Health to Unavailable and all other Service Health values to Available.
- Service Risk. The risk of an IT Service is a percentage value that indicates how close an IT Service is to being in an undesirable state. By default, the Service Risk metric is aligned with the same metric as Service Health, converting the threshold between Healthyand Notice Service Health to 100% and the healthiest possible value to 0%.

For more details on Key Metrics, see the chapter on Creating, Editing, and Deleting IT Services.

We will edit the definition of the Service Health metric. We will accept the default value of the other metrics.

To edit the definition of the Service Health key metric:

- If the IT Service Editor page is not still open, go to the IT Service Manager page (Registry > IT Services > IT Service Manager). Find the policy all_devices_availability. Select its wrench icon (²).
- 2. In the **IT Service Editor** page, select the **[Metrics]** sub-tab.
- 3. In the bottom pane, you will see the three Key Metrics:

Key Metrics							
Service Health	[all_devices_availability]						[Decreasing] 💌
	25	50	0		75	90	
0	Critical	Major	7-	Minor	No	otice He:	althy 100
Service Availability	[(use Service Health metric, Critical threshold)]		Δ				[Decreasing] 👻
	25						
0	Unavailable Available						100
Service Risk	[(use Service Health metric, Healthy range)]						[Decreasing] 🚽
						90	100
0						100%	0% 100
		S	ave				

- 4. To edit the Key Metrics for our example IT Service policy:
 - Service Health. This Key Metric appears in the Health column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Healthy, Notice, Minor, Major, and Critical.
 - From the drop-down list that appears above the Service Health Key Metric, select all_devices_ availability. The Service Health Key Metric will now examine the metric all_devices_availability to determine the availability of the IT Service.
 - From the drop-down list that appears to the right of the **Service Availability** Key Metric, select Decreasing.
 - Service Availability. This Key Metric appears in the Availability column in IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Available and Unavailable. For this example, the default values are accepted.
 - Service Risk. This Key Metric appears as a percentage in the Risk column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are 0% 100%. For this example, the default values are accepted.

Example

4

Using an SLA Definition with an IT Service Policy

Overview

In this chapter, we will define a policy to monitor web content, define an IT Service policy that uses the web-content monitor, define an SLA Definition, and then generate a dashboard report and a quick report for the IT Service policy and the SLA Definition.

In our example:

- We will create an IT Service policy that monitors a web server. We want to ensure that the web server will return a request within 8 seconds. We want to see this type of performance 99.99% of the time.
- We will first create a web-content monitoring policy. This policy will be aligned with the web server we want to monitor. We will search a web site for a string and monitor the time it takes to send the request and receive a reply.
- We will create an IT Service policy. This policy will monitor the web server that we aligned with the web content monitoring policy.
- The IT Service policy will include a metric that is based on the web content monitoring policy.
- The IT Service policy will use the metric (based on the web content monitoring policy) to define availability of the IT Service.
- We will define an SLA that says "the web server should return a request within 8 seconds. We want to see this type of performance 99.99% of the time".
- 99.99% uptime allows for 432 minutes of downtime per month.
- Because our IT Service policy has a polling frequency of 5 minutes, the web servers can be unavailable (transaction time is greater than 8 seconds) no more than 86 polling periods per month (and still meet 99.99% uptime).

- We will define a dashboard widget and generate a report that shows whether the IT Service policy is complying with the SLA.
- We will define and generate a spreadsheet that shows whether the IT Service policy is complying with the SLA.

Creating the Web-Content Monitoring Policy

The ScienceLogic platform allows users to create policies that monitor a web site for specific content. This is helpful:

- To determine if a web site is up and running.
- To determine if the connection between a webserver and a database is up and running.
- To monitor system tools that can be accessed through a browser.
- To monitor content on a web site.

If the ScienceLogic platform cannot match the expression in the content policy with the text on the web site, the platform generates an event.

The ScienceLogic platform uses cURL to send and receive data from the web site.

There are two places in the ScienceLogic platform from which you can define a policy for monitoring web content:

- 1. From the **Device Manager** page (Registry > Devices > Device Manager):
 - In the **Device Manager** page, find the device that you want to associate with the monitoring policy. Select the wrench icon (*P*) for the device.
 - In the Device Administration panel, select the [Monitors] tab.
 - From the [Create] menu in the upper right, select Create Web Content Policy.

Or:

- 2. From the **Web Content Monitoring** page (Registry > Monitors > Web Content):
 - In the Web Content Monitoring page, select the [Create] button.

3. The Web Content Policy modal page appears.

iting Policy [3]		New Reset
[Select Device	
Policy Name website_response_policy	Uniform Resource Locator (URL)	HTTP Auth Username:Password
State Port [Enabled]	Post String	SSL Encryption [Disabled] Expression Check #1 (Case Sensitive) sciencelogic
[3 Sec.]		Expression Check #2 (Case Sensitive)
Proxy Server:Port	Cookie Value	Referrer String
Proxy Username:Password	Browser Emulation L [Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)]	Save

- 4. In the Web Content Policy modal page, supply a value in the following fields:
 - **Select Device**. From this drop-down list, select a device to align with this policy. By default, the current device is selected in this field. We selected the web server "hq-w2k3-jump01".

NOTE: Before you can define a content policy, you must decide which managed device you want to associate with the policy. You might want to associate the policy with the device where the referenced web server resides, but you aren't required to do so. Alternately, you might want to create a virtual device to associate with a content policy (for details on defining a virtual device, see the manual **Device Management**). Although the ScienceLogic platform will not use the device name to determine where to send the policy data, the reports that result from the policy will be aligned with the device you specify in the **Select Device** field.

- **Policy Name**. Name of the new policy. Can be any combination of letters and numbers. We entered "website_response_policy".
- **State**. Specifies whether the ScienceLogic platform should start collecting data specified in this policy from the device. We selected *Enabled*.
- Port. Port on web server to which the platform will send queries. We left this blank.
- *Timeout*. After a specified number of seconds, the platform should stop trying to connect to the server. We accepted the default value.
- *Error Codes*. Specify the HTTP status code you expect to receive in the response. We accepted the default value.

- **Proxy Server:Port**. For companies or organizations that use proxy servers, enter the URL and port for the proxy server in this field. We left this field blank.
- **Proxy Username:Password**. For companies or organizations that use proxy servers, enter the username and password for the proxy server in this field. we left this field blank.
- Uniform Resource Locator (URL). URL or URI of the server to send the transaction to. For this example, we wanted to use a web site we knew we could always reach and that would always have content. We entered "http://www.cnn.com/US".
- **Post String**. If the URL is very long or requires data that cannot be transferred with a standard "GET" request (that is, data that cannot be included in the URL), you can enter a POST string in this field. We left this field blank.
- **Cookie Value**. For pages that require a cookie value to be set, enter the cookie value in this field. We left this field blank.
- **Browser Emulation**. Specifies how to format the query. Select the agent that is compatible with the web server. We accepted the default value.
- HTTP Auth Username: Password. For web sites that pop up a dialog box asking for username and password, use this field. We left this field blank.
- **SSL Encryption**. Specifies whether the platform should use SSL when communicating with the web site. If login for the web site is forms-based, enable this option. We accepted the default value.
- **Expression Check #1**. Regular expression to search for. For this example, we wanted to search for a word that would appear within a news web site. We entered "Obama"
- Expression Check #2. Another regular expression to search for. We left this field blank.
- **Referrer String**. URL of the web site. Some load-balanced configurations will not allow a request for a specific IP address. If you entered a specific IP address in the URL field, you can spoof a URL in this field. We left this field blank.
- Host Resolution. Host name of the web site. Some load-balanced configurations will not allow a request for a specific IP address. If you entered a specific IP address in the URL field, you can spoof a fully-qualified host name in this field. We left this field blank.
- Min Page size (Kb). Page size means the size of the page, in Kb, specified in the URL of the policy. If the returned page is not at least the size specified in this field, the ScienceLogic platform generates an event. This threshold triggers the event "Page size below minimum threshold." We left this field blank.
- Max Page size (Kb). Page size means the size of the page, in Kb, specified in the URL of the policy. If the returned page is larger than the size specified in this field, the platform generates an event. This threshold triggers the event "Page size above maximum threshold." We left this field blank.
- Min Download speed (kb/s). Download speed is the speed, measured in Kb/s, at which data was downloaded from the server (specified in the policy) to the platform. If the download speed is not at least the speed specified in this field, the platform generates an event. This threshold triggers the event "Download speed below threshold."
- Max nslookup time (msec). NSlookup speed is the speed at which your DNS system was able to resolve the name of the server specified in the policy. If the lookup time exceeds the value in this field, the platform generates an event. This threshold triggers the event "DNS hostname resolution time above threshold." We left this field blank.

- Max TCP connect time (msec). TCP connect time is the time it takes for the platform to establish communication with the external server. In other words, the time it takes from the beginning of the HTTP request to the TCP/IP connection. If the connection time exceeds the value in this field, the platform generates an event. This threshold triggers the event "TCP connection time above threshold." We left this field blank.
- Max Overall transaction time (msec). Overall transaction time is the total time it takes to make a connection to the external server, send the HTTP request, wait for the server to parse the request, receive the requested data from the server, and close the connection. If the overall transaction time exceeds the value in this field, the platform generates an event. This threshold triggers the event "Total transaction time above threshold." Because our SLA requires that the home page respond within 8 seconds, we entered "8000".
- 5. Select the [Save] button to save the new policy.

Creating the IT Service Policy

To define an IT Service policy, you must:

- 1. **Define a service name and basic properties**. This example monitors a single web server . The name of the IT Service policy will be "web_hosting_home".
- 2. Define a list of devices (model) for the IT Service that includes the web server we want to monitor.. This example includes the web server that is also associated with the web-content monitoring policy we created in the previous section.
- 3. Optionally, define service sets. A service set is a sub-group of devices. This example does not use service sets.
- 4. Define metrics. A metric is based on your business processes and examines all devices or one or more service sets to evaluate the state of the IT Service. For each IT Service, the ScienceLogic platform provides a default metric called Average Device Availability, based on the availability of all devices in the IT Service. You can define additional metrics, based on default data collected by the ScienceLogic platform (availability, latency, CPU usage, memory usage, swap usage, device state, and device count), data collected by a Dynamic Application, and data about network interfaces, TCP/IP ports, system processes, Windows services, Email round-trip time, web content, SOAP/XML transactions, and DNS availability. Our example will use data collected by a web-content monitoring policy.

NOTE: When the ScienceLogic platform evaluates a metric, it performs an aggregation, that is, the platform evaluates the data for all devices specified in the definition of the metric, over a specified time period (the **Aggregation Frequency**). Depending on the definition of the metric, the platform calculates the average, maximum, minimum, sum, standard deviation, or count value for all devices specified in the definition of the metric.

- 5. **Define Key Metrics.** Key Metrics are the standard method for describing the status of an IT Service. Key Metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services require very different metrics that aggregate very different performance data. The Key Metrics are Health, Availability, and Risk. When you define a Key Metric, you are specifying how the value for a metric you created in step 4 translates to one of the standard Key Metric values. By default, all three Key Metrics are based on the default Average Device Availability metric.
- 6. Define alerts and associated events. This example does not include alerts and events.

Defining the Name of the IT Service Policy and its Basic Properties

To define the basic parameters of our example IT Service policy:

- 1. Go to the **IT Service Manager** page (Registry > IT Services > IT Service Manager).
- 2. Select the [Create] button. The IT Service Editor page appears, with the [Administration] tab and [Properties] sub-tab selected:

Summary	Model	Logs	Events	Tickets Admin	istration		
IT Service Editor	Created IT Service I	T Service [9]				New	Reset Guide
Properties	Model Metrics	Schedule					Advanced
	IT Serv	ice Name			Sharing Perm	issions	Icon
web_hosting_hom	e			[Shared with users in your of	rganizations]	•	
	IT Servio	ce Owner			Permission	Keys	
em7admin			Change Owner	EM7 System Administratio Grant All	רא	<u>^</u>	
		ation Mode		Basic User Privileges		E	
[Basic Interface]			•	Power-Pack Administration Provisioning Access			
				Admin Portal UI Access		-	
				11 Services			
Data Collection							
	Operational Status	8		Aggregation Frequency		Raw Data Ret	ention
[Aggregation ena	bled]	-	[Every 5 minutes	;]	-	[Use system default retention setting	ə] 🔻
	Frequent Rollup Reter	ntion		Hourly Rollup Retention		Daily Rollup Ref	
[Use system defa	ault retention setting]	•	[Use system def	fault retention setting]	-	[Use system default retention setting	1 💌
Description							
Description							
			-	Save Save As			
				Save Save As			

- 3. Supply the following values in the following fields:
 - IT Service Name. Name of the IT Service policy. We entered "web_hosting_home".
 - IT Service Owner. Automatically populated with your username.

- **Configuration Mode**. We selected Basic Interface. The Basic Interface allows you to quickly setup an IT Service policy.
- Sharing Permissions. Specifies whether other users can view and use the IT Service policy, in both the IT Service Manager page, IT Service Editor page, and in the pages in the ScienceLogic platform where the IT Service is visible. We selected Shared with users in your organization. The IT Service policy can be viewed and used by other users who belong to the same organization as the creator.
- Permission Keys. We did not select any permission keys.
- Operational Status. We selected Aggregation enabled.
- Aggregation Frequency. Frequency at which the ScienceLogic platform will collect data from all devices in the IT Service and "crunch" the data for each metric into a single value. We specified Every 5 Minutes.
- *Raw Data Retention*. Specifies how long the ScienceLogic platform should store the raw data for the IT Service policy. We accepted the default value.
- Frequent Rollup Retention. Deprecated field no longer used by the ScienceLogic platform.
- Hourly Rollup Retention. Specifies how long the ScienceLogic platform should store the "hourly" normalized data for the IT Service policy. We accepted the default value.
- **Daily Rollup Retention**. Specifies how long the ScienceLogic platform should store the "daily" normalized data for the IT Service policy. We accepted the default value.
- **Description**. We did not enter a description.
- 4. Select the [Save] button to save the values in the [Properties] tab.

Defining a List of Devices for the IT Service Policy

After defining the name and basic properties of an IT Service policy, you must next determine the devices to include in your IT Service policy. You do this in the **[Model]** sub-tab.

For example, if you want to monitor Email service, you could create a list of devices that includes Exchange servers, DNS servers, and devices that run Email round-trip policies.

You can manually assign devices and device groups to the IT Service device group, or you can use membership rules, like you would for a dynamic device group.

When you define the list of devices to include in your IT Service policy, that list of devices appears as a device group throughout the ScienceLogic platform.

There are three ways to add a device to the list of devices for the IT Service policy.

- Add a device group to the list of devices for the IT Service policy.
- Add a static list of one or more devices to the list of devices for the IT Service policy.
- Add a dynamic list of one or more devices to the list of devices for the IT Service policy.

In our example, we will add a static list of devices that includes a single web server to the IT Service policy.

To create the list of devices for the IT Service policy.

- 1. After performing the tasks in the previous section, select the [Model] sub-tab.
- 2. To add a static list of one or more devices to the list of devices for the IT Service policy, go to the **Static Devices** pane.
- 3. Select the **[Add]** button. The **Device Alignment** modal page appears and displays a list of all devices in the ScienceLogic platform.

614. VMware VMware VMware 1639 System 615. VMware VMware Folder 1552 System 1 616. VMware Folder 1819 System 1 616. VMware Folder 1894 System 1 618. VMware Folder 1844 System 1 618. VMware Folder 1545 System 1 619. VMware Folder 1545 System 1 621. VMware Folder 1545 System 1 622. Nost VMware Folder 1395 System 1 624. VMware Folder 1305 System 1 624. VMware Folder 1402 System 1 625. VMware Folder 1402 S	vice Align	ment						Res	et
614	12. // HJł	H_DRBD_DB1_9.140		VMware	VMware Virtual Machine	1497	System		
615. VMware Folder 1552 System 616. VMware VMware Folder 1819 System 617. host VMware Folder 1819 System	13. 📶 HJF	H_DRBD_DB2_9.141		VMware	VMware Virtual Machine	1492	System		
616.	14. 📶 HJI	H_DRBD_DB2_9.141		VMware	VMware Virtual Machine	1639	System		
B17. host VIIware VIIware Folder 1894 System B18. host VIIware VIIware Folder 1542 System B19. host VIIware VIIware Folder 1545 System B19. host VIIware VIIware Folder 1545 System B22. host VIIware VIIware Folder 1365 System B22. nost VIIware VIIware Folder 1395 System B22. nost VIIware VIIware Folder 1395 System B22. nost VIIware VIIware Folder 1402 System B23. nost VIIware Folder 1400 System B24. nost Servers EMC Corp EMC Lun 709 System B25. <t< td=""><td>15. 🎢 hos</td><td>st</td><td></td><td>VMware</td><td>VMware Folder</td><td>1552</td><td>System</td><td></td><td></td></t<>	15. 🎢 hos	st		VMware	VMware Folder	1552	System		
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645. // HQ-W2K3-SBS02 192.168.10.21 Servers Microsoft Windows 2003 Server 249 Potato Soup			192.168.10.21	Servers	Microsoft Windows 2003 Server	249	Potato Soup		-

- 4. In the **Device Alignment** modal page, we selected the checkbox for devices "HQ-W2K3-JUMP01".
- 5. Select the [Add/Remove] button in the lower right.

6. The selected devices appear in the **Static Devices** pane:

IT Service Editor IT Service [5	9]			New	Reset Guide
Properties Model	Metrics Schedule				Advanced
Device Groups [0]					Del Add
		Device Group Name •		ID Devices	Groups Rules V
		No device groups in service.			
Statia Daviasa [4]					Del Add
Static Devices [1]	Device Name •	Class Sub-class	ID	Organization	Del Add
1. MHQ-W2K3-JUMP01		Microsoft Windows 2003 Server	137 NOC		
Dynamic Device Rules [0]					Del Add
Selector Type		Selector Targets			Matched Devs 🗸
		No dynamic device rules in service.			
		Save			

7. Select the **[Save]** button to save the list of devices.

Defining Metrics for the IT Service Policy

A metric is a measurement that helps determine the status of an IT Service.

The ScienceLogic platform automatically includes a default metric with each IT Service policy. The default metric is called **Average Device Availability**. The Average Device Availability metric aggregates the current availability value (0 or 1) of all devices in the IT Service and calculates the average value. The aggregation is performed at the frequency specified in the **Aggregation Frequency** setting in the basic properties for the IT Service policy. The availability of a device is determined every 5 minutes.

Before you can define a metric, you must determine what parameters you want to monitor for the IT Service policy. In our example, we will create a single custom metric. We will use data from the following sources to monitor the IT Service:

• Web Content Monitor

Our custom metric is:

• website response (based on a Web Content Monitor created in a previous section)

We will create our metric in **Basic mode**. We will leave the default metric unchanged and create an additional metric.

- 1. After performing the tasks in the *previous section*, select the [Metrics] sub-tab.
- 2. Ensure that you are in **Basic mode**. If you see the **[Alerting]** sub-tab, you are not in **Basic mode**. Click on the **[Advanced]** button to toggle to **Basic mode**.
- 3. Next, we will define a new metric that examines the **response time of a web-content policy**. The web content policy is associated with the web server we added in the **[Model]** tab. Go to **Service Metric Definitions** pane and select the **[Add]** button.
- 4. The **Service Metric Editor** modal page appears. In this page, we will define a metric that measures the latency of the two devices in our IT Service policy. We will also define an alert that will trigger an event if the average latency of the two devices is greater than 30 milliseconds.

Edit Service Metric					Close / Esc
Service Metric Editor Editing Metric					Reset
Service Metric Name	Metric Type	Device Su [(All Devices in Service)		Age [Average]	gregation
	Show only metrics available for thi Policy Name			Metric	
[Enchlad]	website_response_policy Transaction Time: Measurement (s); u		Transaction Tim		
	Guide Text				
Metric Alerting	Alert Policy Name website response greater than 8 sec	1 shac	Critical]	Event Severity	
	Alert Threshold		0.000.1	8000	[Increasing]
0	Healthy			C	ritical 9000
Trigger alert when website_response is greater than or eq	ual to 8000s. Reset alert when website	e_response is strictly	less than 8000s.		
	Event Policy Description	n			
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website response was greater than 8 seconds (8000	milliseconds)				
	ОК				

- 5. To create the new metric, supply the following values in the fields:
 - Service Metric Name. We entered "website response".
 - Metric Type. We selected Web Content Monitor.
 - **Device Metric**. We entered "website_response_policy". This is the policy we created in a *previous* section of this chapter.
 - Metric. We selected Transaction Time.
 - For all other fields in the top pane, you can accept the default values.

Defining Key Metrics for the IT Service Policy

Key Metrics are the standard method for describing the status of an IT Service. Key Metrics allow you to quickly gauge the status of multiple IT Services, even if those IT Services require very different metrics that aggregate very different performance data. For example, you can define "health" for a remote backup service and also define "health" for an Internet bandwidth service, even though you would use different criteria to measure the health of those two services.

All IT Service policies define how the ScienceLogic platform should calculate the following Key Metrics for the IT Service:

- **NOTE**: The ScienceLogic platform automatically includes a default metric with each IT Service policy. The default metric is called **Average Device Availability**. The **Average Device Availability** metric specifies that the ScienceLogic platform should aggregate the availability data for all the devices in the policy and calculate the average availability.
- Service Health. The health of an IT Service can be one of the five standard severity values: Healthy, Notice, Minor, Major, or Critical. By default, the Service Health metric is aligned with the Average Device Availability metric.
- Service Availability. The availability of an IT Service can be either Available or Unavailable. By default, the Service Availability metric is aligned with the same metric as Service Health, converting Critical Service Health to Unavailable and all other Service Health values to Available.
- Service Risk. The risk of an IT Service is a percentage value that indicates how close an IT Service is to being in an undesirable state. By default, the Service Risk metric is aligned with the same metric as Service Health, converting the threshold between Healthyand Notice Service Health to 100% and the healthiest possible value to 0%.

The ScienceLogic platform generates an event if the **Service Health** Key Metric has a value of Notice, Minor, Major, or Critical, and/or if the **System Availability** Key Metric has a value of *unavailable*.

For more details on Key Metrics, see the chapter on Creating, Editing, and Deleting IT Services.

Using the metric we created in the previous section, we'll define the Key Metrics for our IT Service policy:

1. Select the **[Metrics]** sub-tab.

- 2. In the top pane, you will see the default metric, **Average Device Availability**. If you have already defined additional custom metrics, they will also appear in the top pane.
- 3. In the bottom pane, you will see the three Key Metrics:

Key Metrics									
-									
Service Health	[Average Device Availability]							-	[Decreasing]
	20		40		60		80		
0	Critical	Major	Ĭ	Minor	<u> </u>	Notice	Ĭ	Healthy	100
Service Availability	website_response]		A					•	[Increasing]
,								8000	
0							A	vailableUnavailabl	9000
Service Risk	[(use Service Health metric, Healthy i	range)]						-	[Decreasing]
							80		100
0							100%		0% 100
				Save					

- 4. To edit each metric, supply the following values:
 - Service Health. Appears in the Health column in the IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Healthy, Notice, Minor, Major, and Critical. Accept the default values for this Key Metric.
 - Service Availability. Appears in the Availability column in IT Service Manager page (Registry > IT Services > IT Service Manager). Possible values are Available and Unavailable.
 - In the drop-down list that appears above the **Service Availability** Key Metric, select website_ response.
 - Select Increasing.
 - Set the bottom of the range to "0". Set the top of the range to "9000".
 - Enter the threshold 8000.
 - If the website_response metric has a transaction time greater than 8000 ms, the IT Service policy will have an Availability value of *Unavailable*.
 - Service Risk. Appears as a percentage in the Risk column in the IT Service Manager page (Registry
 IT Services > IT Service Manager). Possible values are 0% 100%. Accept the default values for
 this Key Metric.
- 5. Select the [Save] button to save your changes to the Key Metrics.

Creating an SLA Definition

In the ScienceLogic platform, you can create an SLA Definition. The SLA Definition is a threshold. The threshold is applied to the Availability Key Metric of an IT Service policy.

To create an SLA Definition:

- 1. Go to the Service Level Agreement Definitions page (Registry > IT Services > SLA Definitions).
- 2. In the Service Level Agreement Definitions page, select the [Create] button.
- 3. The SLA Definition Editor page is displayed.

Edit SLA Definition	Close / Esc
SLA Definition Editor Editing Definition [2] Nev	v Reset
SLA Definition Name	
website_response_sla	
SLA Availability	
Custom: 99.99%	
Save Save As	

- 4. In the **SLA Definition Editor** page, supply values in the following fields:
 - **SLA Definition Name**. The name of the SLA Definition. Can be any combination of numbers, letters, and symbols. We entered "website response sla".
 - SLA Availability. The threshold that will be evaluated using this SLA Definition. You can select from six predefined percentage values or specify a custom value. If you select *Custom* in the drop-down list, enter a percentage value in the text field. You can evaluate an IT Service policy using this threshold; you can do this in a dashboard widget or in an SLA report. We selected *Custom* and then entered "99.99%".
- 5. Select the [Save] button to save your new SLA Definition.

Generating the SLA Widget

To add the SLA widget to your dashboard:

1. In the **Dashboards tab** page ([**Dashboards**] tab), in the selection field in the upper left of the page, select the dashboard to which you want to add a widget.

- 2. Select the [Actions] button, and then select Add Widget.
- 3. The New Widget Configuration modal page is displayed:
- 4. In the NavBar, expand the Single Point icon. Expand the SLA category. Select (base) SLA Gauge.
- 5. Enter values in the following fields:
 - Widget Name. Enter a title for the widget. This title is displayed in the header that appears at the top of the widget. If you leave the default value of "{auto}" in this field, the ScienceLogic platform will automatically generate a title for the widget based on what is currently being displayed in the widget. We left this field blank.
 - Widget Refresh Rate. Specify how frequently the widget will be automatically updated with new data. We selected 5 minutes.
 - **SLA Definition**. Select the SLA you want to use as a threshold and monitor with this widget. We selected website response sla.
 - Service. Select the IT service you want to monitor with this widget. We selected web_hosting_home.
 - **Compliance Period**. Specify the time period you want to monitor with this widget. We selected Last (most recently ended).
 - **Display Type**. Select how the metric will be displayed in the widget. We selected Gauge.
- 6. You should see a widget like the following:



Generating the SLA Report

You can use a Quick Report to evaluate an existing IT Service policy using an existing SLA definition. The Quick Report will then display the results. To do this:

1. Go the **Run Quick Report** page (Reports > Create Report > Quick Report).

Run Quick Report SLA Report, version 1 💌	Guide
PReport Span [7] Service	
C Daty acre. al. devices -	
C Weekly	
© Monthly SLA	
Starting service_avalability	
Last month	
Duration [] month +	
I morth Treesone	
Output format: [Web page (Html)	Generate

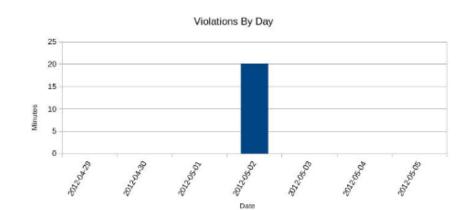
- 2. In the **Run Quick Report** drop-down list, select the report **SLA Report**.
- 3. Enter a value in each of the following fields:
 - Report Span. Specify a Daily, Weekly, or Monthly span to include in the report. We selected Monthly.
 - **Starting**. This field allows you to choose a start date. Selecting a different **Report Span** will change the options in this drop-down list. We selected *Last Month*.
 - **Duration**. This field allows you to specify the duration for the report. Selecting a different **Report Span** will change the options in this drop-down list. We selected 1 month.
 - Timezone. Specify the time zone to display in the report. We accepted the default value (UTC).
 - IT Service. Select the IT Service you want to monitor with this report. We selected web_hosting_home.
 - **SLA.** Select the SLA you want to use as a threshold and monitor with this report. We selected website response sla.
 - Output Format. Specify an output format for the report.
- 4. Select the [Generate] button to generate the report.
- 5. The generated SLA report displays the target threshold and the percentage of polls that were successful. The report displays the days violations occurred and the number of minutes each violation lasted.

Sheet 1: SLA Report

ScienceLogic

SLA Report

Summary				
Agreement Name	IT Service Name	Target %	Compliance %	
website_response_sla web_hosting_home		99.9900016	99.80159%	
	Violati	on Perioda		
Start Dato/Time End Dato/Time Duration		Duration	Cumulative	
2012/05/02 19:00:00	2012/05/02 19:20:00	00:20	00:20	
Total Violation Time:			00:20	



Excluded Periods				
Start Date/Time	End Date/Time	Duration	Турс	
No Excluded Periods				
Total Downtime:		00:00		
Lifective Times				
D	ay .	Start	End	

Sunday	00:00	23:59
Monday	00:00	23:59
Tuesday	00:00	23:59
Wednesday	00:00	23:59
Thursday	00:00	23:59
Friday	00:00	23:59
Seturday	00:00	23:59

Generated On: 05/03/2012

Sheet 2: Control

.... ScienceLogic

Control – SLA Report

Description:	SLA compliance metrics
Report Version:	1
Generated On:	05/08/2012
SLA:	webnite_seaponat_ala.
IT Service:	web_hosting_home
Start Date:	Age 28, 2012
Duration:	1 week

Generated On: 05/05/2012

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