

# **Business Services**

ScienceLogic Version 8.4.0

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# Chapter

# Introduction

#### **Overview of Business Services**

The ScienceLogic platform provides multiple types of services and policies that allow you to manage the business aspects of monitoring and managing a network. These services and policies are:

- Bandwidth Billing Policies. Determines how an organization will be charged for bandwidth usage.
- **Distribution Lists**. A list of users, external contacts, and/or vendors to whom you want to send an email message from the platform.
- **Product Catalogs**. A list of product SKUs that allow you to track and bill customers for products and services rendered.
- **Product Subscriptions**. A list of products that have been assigned to an organization, device, interface, or asset record.
- Service Notifiers. Allows you to send a message from the platform to distribution lists, selected users, external accounts, and vendors.
- Service Usage Policies. Allows you to define and view composite reports based on collected information from multiple devices.

#### Who Should Read This Manual?

This manual is intended for administrators who manage vendors and business services in the platform.

# Chapter

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# **Bandwidth Billing**

#### Overview

Bandwidth billing policies determine how an organization will be charged for bandwidth usage.

This chapter will discuss:

- What is a bandwidth billing policy?
- Viewing and Filtering the List of Bandwidth Billing Policies
- Creating, Editing, and Deleting Bandwidth Billing Policies
- Generating a Report on Bandwidth Billing Policies
- Purging Billing Data

## What is a Bandwidth Billing Policy?

Bandwidth billing policies determine how an organization will be charged for bandwidth usage. When you define a bandwidth billing policy, the policy must be associated with an organization. The policy can be applied to one or more network interfaces in that organization. A single bandwidth billing policy cannot be applied to interfaces in multiple organizations.

When a user assigns network interfaces to a billing policy, the ScienceLogic platform creates a virtual interface. The virtual interface represents the network interface, as monitored by the billing policy. For example, if a billing policy drops 5 percent of the highest bandwidth readings, graphs for the virtual interface would not include those readings.

If multiple interfaces from a single device are assigned to a single billing policy, the virtual interface represents the "sum" of the interfaces assigned to the billing policy.

For example, suppose a device has two network interfaces. Suppose both interfaces are assigned to a single billing policy. The virtual interface for the device will represent both network interfaces.

You can view a list of virtual interfaces and their associated reports in the **Virtual Interfaces** page (Registry > Networks > Virtual Interfaces).

The platform includes tools that allow you to define policies for interface billing, use those policies to monitor interfaces, and generate reports (bills) for the monitored interfaces.

To define bandwidth billing policies in the ScienceLogic platform, you must perform two tasks:

- Define product SKUs for each type of bandwidth-billing structure or use existing product SKUs. You can view, edit, and create product SKUs in the **Product Catalog** page (Registry > Business Services > Product Catalog). See the *Product Catalogs* chapter in this manual for more information.
- Define policies for bandwidth billing. This is described in this chapter.

#### Viewing and Filtering the List of Bandwidth Billing Policies

You can view, create and manage Bandwidth Billing Policies from the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing). The **Bandwidth Billing Policies** page displays information on existing bandwidth billing policies and allows you to search for policies, among other options. To view a list of bandwidth billing policies:

- 1. Go to the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing).
- 2. The Bandwidth Billing Policies page displays the following about each bandwidth billing policy:

Policy Name •	Organization	Bill On	Rate	Overage	Commitment	Product Name	Product ID	Product Desc User 1	Edit Date Edit	Guide
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PBilling Policy 1				\$100.00	10	BW-VPL95P		Internet Bandwidth - Virtual Private Line - Pea em7adm		
New York Office				\$100.00	20	BW-VPL95P		Internet Bandwidth - Virtual Private Line - Pea em7adm		
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								[Select Acti		

**NOTE:** For users of type "user", the **Bandwidth Billing Policies** page displays only bandwidth billing policies that are aligned with the same organization as the user.

- Policy Name. Name of the billing policy.
- Organization. Organization to be billed according to the billing policy.
- Bill On. Day of the month on which each billing cycle begins.
- Rate. Charge per unit for bandwidth specified in the customer's contract.
- Overage. Charge per unit when the customer exceeds the base commitment.
- Commitment. Amount of base bandwidth/transfer specified in the customer's contract.
- Product Name/ID: Alphanumeric ID of the SKU associated with the billing policy.
- Product Description. Description of the SKU associated with the billing policy.
- Edit User. User who created or last edited the bandwidth billing policy.
- *Edit Date*. Date the bandwidth billing policy was created or last edited.

#### Filtering the List of Bandwidth Billing Policies

The **Bandwidth Billing Policies** page includes eleven filters, in the top row in the list of policies. You can specify one or more parameters to filter the display of bandwidth billing policies. Only bandwidth billing policies that meet all the filter criteria will be displayed in the **Bandwidth Billing Policies** page.

You can filter by one or more of the following parameters. The list of bandwidth billing policies is dynamically updated as you select each filter.

- For each filter except **Date Edit**, you must enter text to match against. The ScienceLogic platform will search for billing policies 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" would match all values that contain the string "dell" OR the string "micro".

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

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

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

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

- **Policy Name**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching name.
- **Organization**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that are associated with a matching organization.

- *Email Address*. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching email address.
- **Bill On**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching "bill on" date.
- **Rate**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching billing rate.
- Overage. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching overage charge.
- **Commitment**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching commitment value.
- **Product Name**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching product name.
- **Product ID**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching product ID.
- **Product Desc**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Bandwidth Billing Policies** page will display only bandwidth billing policies that have a matching product description.
- User Edit. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the Bandwidth Billing Policies page will display only bandwidth billing policies that have a matching "edited by" value.
- **Date Edit**. You can select from a list of time periods. The **Bandwidth Billing Policies** page will display only bandwidth billing policies that have been created or edited within that time period. The choices are:
  - All. Display all escalation policies that match the other filters.
  - Last Minute. Display only policies that have been created within the last minute.
  - Last Hour. Display only policies that have been created within the last hour.
  - Last Day. Display only policies that have been created within the last day.
  - Last Week. Display only policies that have been created within the last week.
  - Last Month. Display only policies that have been created within the last month.
  - Last Year. Display only policies that have been created within the last year.

#### Customizing the Bandwidth Billing Policies Page

You can customize the display of the pages under Business Services, such as the **Bandwidth Billing Policies** page, by hiding the header bar and navigation bar. To hide the header bar, click on the arrow in the top right of the page (above the **[Guide]** button).

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# Creating a Bandwidth Billing Policy

You can create new bandwidth billing policies from the **Bandwidth Billing Policies** page. To create a new bandwidth billing policy:

**NOTE**: Users of type "user" can create bandwidth billing policies only for organizations that are aligned with the user. These bandwidth billing policies can therefore contain only devices and interfaces aligned with the same organization as the user.

- 1. Go to the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing).
- 2. In the upper right of the page, click the [Create] button.
- 3. The **Bandwidth Billing Editor** modal page appears. Provide a value in each field:

С	eate new policy	Close / Esc
_		
	Create New Policy	Reset
	Organization	[System]
	Policy Name	
	Product SKU	[None]
	Filter Interfaces	Device Name is like 💌 Filter Clear
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	Aligned Interfaces [5 min. collection]	*
	Bill On	[Default] 💌 of Each Month
	Base Committment	Committed Transfer (10 = 10GB or 10 Mbps)
	Base Rate Per Unit	Example (\$100.00 per GB or Mbps)
	Overage Rate Per Unit	Example (\$100.00 per GB/Mbps overage)
		Save

- **Organization**. Organization to assign to the billing policy. Users of type "administrator" can select from a list of all organization in the ScienceLogic platform. Users of type "user" can select from a list of all organizations of which they are a member.
- Policy Name. Name of the billing policy.
- **Product SKU**. Select a SKU. The SKUs selected in the **Product Manager** page will appear in this drop-down list.

- *Filter Interfaces*. Specifies the parameter you want to use to filter the list of interfaces. You can select from the following:
  - Device Name is like. Filter by device name. Only interfaces on the specified device(s) will appear in the Available Interfaces field.
  - Organization is like. Filter by organization name. Only interfaces associated with the specified organization(s) will appear in the Available Interfaces field.
  - Interface Name is like. Filter by interface name. Only interfaces with names that match the search string will appear in the Available Interfaces field.
  - Interface Alias is like. Filter by interface alias. Only interfaces with aliases that match the search string will appear in the Available Interfaces field.
  - Interface Description is like. Filter by interface description. Only interfaces with descriptions that match the search string will appear in the Available Interfaces field.
- **regular expression**. In this field you manually enter the text to filter by. You can use the following special characters in this field:
  - \* Match zero or more characters preceding the asterisk. For example:

"dell\*" would match "dell", "dell2650", "dell7250" and "dell1700N".

"\*dell\*" would match "mydell", "dell", "dell2650", "dell7250" and "dell1700N".

% Match zero or more characters preceding the asterisk. This special character behaves in the same way as the asterisk.

Click the **[Filter]** button. The **Available Interfaces** field is refreshed and displays only interfaces that match the search parameters.

To go back to the entire list of interfaces, click the [Clear] button.

• Available Interfaces. By default, all interfaces on all devices associated with the specified organization will appear in this list. If you use the filtering fields, the list of interfaces that match the search parameters are displayed in this field. When you select an interface from this list, the platform collects and manages billing data for that interface, using the parameters of the billing policy. To select multiple entries, hold down the **<Ctrl>** key and left-click the entries.

**NOTE:** When you assign a network interface to a billing policy, the ScienceLogic platform creates a virtual interface. The virtual interface represents the network interface, as monitored by the billing policy. For example, if a billing policy drops 5 percent of the highest bandwidth readings, graphs for the virtual interface would not include those readings. If multiple interfaces from a single device are assigned to a billing policy, the virtual interface represents the "sum" of the interfaces assigned to the billing policy. For example, suppose a device has two network interfaces. Suppose both interfaces are assigned to a single billing policy. The virtual interface for the device will represent both network interfaces.

**CAUTION**: After you create a bandwidth billing policy, the platform will not prevent a user from changing the *Collection Frequency* setting for the associated interfaces. If the collection frequency of an interface that is already included in a bandwidth billing policy is changed, the platform will calculate incorrect bandwidth billing data.

- Aligned Interfaces. Appears only for existing billing policies. Displays the interfaces already assigned to this billing policy. To un-assign an interface, select it.
- Bill On. Day of the month on which each billing cycle begins.
- Base Commitments. Amount of base bandwidth/transfer specified in the customer's contract.
- Base Rate Per Unit. Charge per unit for bandwidth specified in the customer's contract.
- Overage Rate Per Unit. Charge per unit when the customer exceeds the base commitment.
- 4. Click the **[Save]** button to save the bandwidth billing policy. Clicking the **[Reset]** button will clear and refresh the fields in the **Bandwidth Billing Editor** page.
- 5. The new bandwidth billing policy will appear in the list in the Bandwidth Billing Policies page.

# Editing a Bandwidth Billing Policy

You can edit a bandwidth billing policy from the **Bandwidth Billing Policies** page. To edit a bandwidth billing policy:

**NOTE**: For users of type "user", the **Bandwidth Billing Policies** page displays only bandwidth billing policies that are aligned with the same organization as the user.

- 1. Go to the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing).
- 2. Find the bandwidth billing policy you want to edit. Click its wrench (*P*) icon.
- 3. The **Bandwidth Billing Editor** page appears with the same fields described in the **Creating a Bandwidth** *Billing Policy* section of this chapter. You can edit the values in one or more fields.
- 4. Click the **[Save]** button to save your changes. Clicking the **[Refresh]** button will discard all changes and reset all fields with their previous content.

# Deleting One or More Bandwidth Billing Policies

You can delete bandwidth billing policies from the **Bandwidth Billing Policies** page. To delete one or more bandwidth billing policies:

- 1. Go to the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing).
- 2. Find the bandwidth billing policy or policies you want to delete. Select the checkbox () for each policy that you want to delete. To select all bandwidth billing policies, select the checkmark in the upper right of the page.
- 3. In the Select Action menu in the lower right of the page, select Delete Policy.
- 4. Click the [Go] button.

dwidth Billing   Bandwidth Billing P	olicies Found [3]								Create	Reset G	Guide
Policy Name •	Organization	Bill On	Rate	Overage	Commitment	Product Name	Product ID	Product Desc	User Edit	Date Edit	E
											•
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								0	Select Action]		
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									Purge Historic	al Interface Data	
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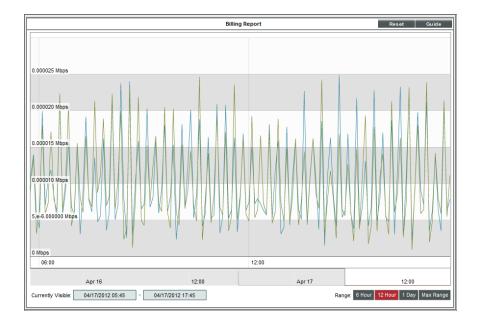
- 5. You will be asked if you want to delete the selected bandwidth billing policies. Click the **[OK]** button to continue to delete the policy or policies.
- 6. The selected bandwidth billing policies will be deleted.

# Viewing Virtual Interface Data

You can view the data associated with a virtual interface from the **Bandwidth Billing Policies** page. The report displays the Mbps in and Mbps out for the virtual interface. To view a report for a virtual interface associated with a bandwidth billing policy:

- 1. Go to the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing).
- 2. In the **Bandwidth Billing Policies** page, find the policy you want to view a report on. Click its bar graph icon (

3. The **Billing Report** page appears and displays the following graphical report:



- The y-axis displays bandwidth usage, in Mbps.
- The x-axis displays time. The increments vary, depending upon the selected data type (from the **[Options]** menu) and the date range (from the **Date Range Selection** pane).
- Each parameter is represented by a color-coded line.
- Mousing over any point in any line displays the high, low, and average value at that time-point in the **Data Table** pane.
- You can use your mouse to scroll the report to the left and right.
- In a graph of normalized data, clicking on a data point zooms in on that time period and shows the non-normalized data.

# Purging Billing Data

From the **Bandwidth Billing Policies** page, you can purge all the historical bandwidth information associated with a bandwidth billing policy. All billing data associated with the policy will be deleted. The policy starts collecting and computing again, but with a "clean slate". To purge historical data associated with a bandwidth billing policy:

- 1. Go to the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing).
- 2. In the **Bandwidth Billing Policies** page, find the policy for which you want to purge historical data. Select its checkbox (
- 3. Select the checkbox for each policy you want to delete and purge.

4. In the **Select Action** drop-down field in the lower right of the page, select Purge Historical Interface Data.

Bits         Bits <th< th=""><th>Policy Name •</th><th>Organization</th><th>Bill On</th><th>Rate</th><th>Overage</th><th>Commitment</th><th>Product Name</th><th>Product ID</th><th>Product Desc</th><th>User Edit</th><th>Date Edit</th><th></th></th<>	Policy Name •	Organization	Bill On	Rate	Overage	Commitment	Product Name	Product ID	Product Desc	User Edit	Date Edit	
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- 5. Click the **[Go]** button.
- 6. You will be asked if you want to alter or remove the selected bandwidth billing policies. Click the **[OK]** button to purge the data.
- 7. The billing data for each selected bandwidth billing policy will be deleted.

#### Generating a Bandwidth Billing Report

You can use the **Interface Billing** custom report to generate a billing report that includes the costs incurred for one or more bandwidth billing policies. For a description of how to generate the Interface Billing report, see the **Creating a Bandwidth Billing Report** example. For more information on generating and scheduling custom reports, see the **Reports** manual.

#### Bandwidth Billing Calculations

The report includes the following three dollar amounts for each selected bandwidth billing policy:

- Base Amount (\$)
- Overage Amount (\$)
- Total Bill (\$)

To calculate these values, the report used the data collected for the virtual interface associated with the bandwidth billing policy, and the values from the following fields in the product SKU and bandwidth billing policy:

- Bill On (from billing policy). This value is used to adjust the time period for the policy data.
- Base Commitment (from billing policy). After the bandwidth usage for the time period is calculated, this value is used to calculate the Base Amount (\$) value.

- Base Rate Per Unit (from billing policy). After the bandwidth usage for the time period amount is calculated, this value is used to calculate the **Base Amount** (\$) value.
- Overage Rate Per Unit (from billing policy). After the bandwidth usage for the time period amount is calculated, this value is used to calculate the Overage Amount (\$) value.
- Interface Service Type (from SKU). This value is used to calculate the total amount of bandwidth the customer is billed for.
- Interface Percentile Rate (from SKU). This value is used to calculate the total amount of bandwidth the customer is billed for.

To calculate the billing amounts, the following calculations are performed when the report is generated:

- 1. The report calculates the time period for each policy:
  - If a report span of one month was selected in the report input form, the time span is adjusted based on the *Bill On* value defined in the billing policy. If the *Bill On* value is between 2 and 28, the report adjusts the start and end times forward so that the time span starts on the correct day. For example, if on the report input form, you select *Last Month* as the time span and a billing policy has a *Bill On* value of 3, the time span used by the report for that policy will start at the beginning of the 3rd day of last month and end at the end of the 2nd day of the current month. The time span for a policy is not adjusted if the bill on value is less than 2 or greater than 28.
  - If the time span for a billing policy is not adjusted, the time period used by the report is the time span that you specified in the input form.
- 2. The report calculates the total amount of bandwidth the customer is billed for. For Interface Service Types of "Committed Transfer", this amount is the total amount of inbound and outbound bandwidth used for the entire billing period, i.e. the sum of all collected inbound and outbound values. For the other Interface Service Types, the calculation of this value is based on the collected data for a single poll. First, the report calculates a value for each poll during the time span. The value is different for each Interface Service Type:
  - **Percentile In & Out**: The value for each poll is the combined inbound & outbound utilization, measured in the units specified in the SKU.
  - **Percentile Inbound**: The value for each poll is the inbound utilization, measured in the units specified in the SKU.
  - **Percentile Outbound**: The value for each poll is the outbound utilization, measured in the units specified in the SKU.
  - **Percentile: Highest Poll**: The value for each poll is either the inbound utilization or the outbound utilization, whichever is higher, measured in the units specified in the SKU.
- 3. For *Interface Service Types* other than "Committed Transfer", the report orders the data for each poll from the lowest value to the highest value. The value at the percentile specified in the Interface Percentile Rate specified in the SKU is selected. For example, if there were 100 polls during the time period specified in the report, the values would be ordered with the lowest value at position 1 and the highest value at position 100. If the *Interface Percentile Rate* specified in the SKU is 95%, the report would select the value at position 95.

**NOTE:** When the percentile option is selected, the **Billing Report** performance graph displays a calculated value at each percentile point. The Interface Billing report uses the actual reading that is closest to the 95th percentile to calculate billing values.

- 4. The report now uses either the total amount of inbound and outbound bandwidth used (for "Committed Transfer" *Interface Service Types*) or the single selected value (for other *Interface Service Types*) as the calculated bandwidth usage. The calculated bandwidth usage is used to calculate three dollar amounts:
  - Base Amount (\$) = Base Commitment defined in billing policy \* Base Rate defined in billing policy
  - Overage Amount (\$). If the calculated bandwidth usage is less than the base commitment, this value is 0. If the calculated bandwidth usage is greater than the base commitment, this value equals: (calculated bandwidth usage base commitment) \* overage rate defined in policy
  - Total Bill (\$) = Base Amount + Overage Amount

# Chapter

**Distribution Lists** 

3

#### Overview

A distribution list is one of the business services that the ScienceLogic platform provides. A distribution list is a list of users, external contacts, and/or vendors to whom you want to send email messages from the platform. These lists are used in the **Service Notifier** page, which allows you to send messages from the platform. For more information of service notifiers, see the chapter **Service Notifiers** in this manual.

This chapter will discuss:

- What is a Distribution List?
- Viewing Distribution Lists
- Creating, Editing, and Deleting Distribution Lists
- Sending a Message to a Distribution List

## What is a Distribution List?

A distribution list is a list of users, external contacts, and/or vendors to whom you want to send email messages from the ScienceLogic platform. The list can include both rules and manually added accounts. The rules allow the distribution list to be dynamically updated. For example, suppose one of the rules for a distribution list is "include all external contact accounts in the organization named Central NOC." You could then add or remove external contacts from the organization, and the distribution list would include only the current external contact accounts in the organization.

An external contact is a user to whom you can send email messages from the ScienceLogic platform. External contacts are associated with organizations, but they do not have an account and cannot log in to the platform. For instance, an external contact might be an account manager for a specific organization that needs to be notified of monthly billing reports, but does not have an account. To read more about external contacts, see the manual **Organizations and Users**.

Distribution lists are used in the **Service Notifier** page. The **Service Notifier** page allows you to send a message from the platform. The message can include text, screen captures, and attached files. The message can be sent to manually entered email addresses, distribution lists, manually selected users, manually selected external contact accounts, and manually selected vendors.

For more information of service notifiers, see the chapter Service Notifiers in this manual.

# Viewing Distribution Lists

You can view and manage distribution lists from the **Distribution Lists** page (Registry > Business Services > Distribution Lists). The **Distribution Lists** page also allows you to create, edit, and delete distribution lists, among other options.

To view a list of distribution lists:

- 1. Go to the **Distribution Lists** page (Registry > Business Services > Distribution Lists).
- 2. The Distribution Lists page displays the following about each distribution list:

						1.0.00		A 3.7-	
Distribution Lists   Lists Found [1]							Create	Reset G	uide
	List Name •	<u>10</u> 3	Static Recipients	Dynamic Rules		Edited By		Last Edited	5
1. 🤌 🔂 Example Distribution List		3		-	em7admin		20	012-03-08 11:53:2	5 📄
						ISC	slect Action]		Go
						14-1			

- List Name. Name of the distribution list.
- ID. Unique numeric ID, automatically assigned to each distribution list by the ScienceLogic platform.
- Static Recipients. Number of user accounts, external contacts, and vendor contacts that are manually included in the distribution list.
- **Dynamic Rules**. Number of dynamic rules included in the distribution list. A dynamic rule allows the distribution list to be dynamically updated.

- Edited By. User who created or last edited the distribution list.
- Last Edited. The date and time the distribution list was created or last edited.

#### Creating a Distribution List

You can create a new distribution list from the Distribution Lists page. To create a new distribution list:

- 1. Go to the **Distribution Lists** page (Registry > Business Services > Distribution Lists).
- 2. In the **Distribution Lists** page, click the **[Create]** button in the upper right of the page.
- 3. The Distribution List Editor page appears. To create a new distribution list, define a value in each field:

Distribution List Editor   Creating new dist	ribution list			Reset
	Distribution	List Name		
Dynamic Rules [0]   Total Matched Recipie	ents [0]			Add Matched
Rule Type	Rule Target		Recipient Types	Recipients 🗸
	No results	to display.		
Static Recipients [0]				Add
Full Name	Type	<u>ID</u>	Target	
	No results	to display		
	noresults	to utopiay.		
			[Select Action]	Go

- Distribution List Name. Name of the distribution list.
- Dynamic Rules pane. This pane displays a list of dynamic rules included in the distribution list.
  - To add a dynamic rule, click the [Add] button. The Dynamic Rule Editor modal page appears, where you can define a new dynamic rule. To read more about defining a dynamic rule, see the section Adding a Dynamic Rule in this chapter.
  - To edit a dynamic rule, click its wrench icon (<sup>2</sup>). The **Dynamic Rule Editor** modal page appears, where you can edit a dynamic rule.

- **Static Recipients pane**. This pane displays a list of manually added users, external contacts, and vendor contacts you have included in the distribution list.
  - To add a static recipient, click the **[Add]** button. The **Static Recipient Editor** modal page appears, where you can define a list of static recipients for the distribution list. To read more about adding a static recipient, see the section **Adding a Static Recipient** in this chapter.
  - To edit static recipients, click the **[Add]** button. The **Static Recipient Editor** modal page appears, where you can add more recipients or remove existing recipients from the distribution list.
- **Select Action**. This drop-down list allows you to perform administrative actions to multiple items at once. This field includes the following administrative actions:
  - Delete selected rules/recipients. Deletes the selected rules and/or recipients from the distribution list.
  - Save changes to list properties. Saves any changes to the distribution list.
  - Match EM7 users. Edits the selected rule(s) to include users.
  - Do Not Match EM7 users. Edits the selected rule(s) and no longer matches users.
  - Match External Contacts. Edits the selected rule(s) to include external contacts.
  - Do not match External Contacts. Edits the selected rule(s) and no longer matches external contacts.
- 4. Click the **[Go]** button to save the distribution list.

#### Adding a Dynamic Rule

In the **Distribution List Editor** page, you have the option of adding a dynamic rule. A dynamic rule allows the distribution list to be dynamically updated. To add a dynamic rule:

- 1. In the Distribution List Editor page, click the [Add] button in the Dynamic Rules pane.
- 2. The **Dynamic Rule Editor** page appears. You can define a value in the following fields:
  - **EM7 User**. If you select this checkbox, all user accounts associated with the organization, product SKU, or ticket queue will be included.
  - **External Contact**. If you select this checkbox, all external contact accounts associated with the organization, product SKU, or ticket queue will be included.
  - Rule Type. Select the item that you want to base the user list on. Choices are:
    - Organization. Include all users and/or external contacts associated with the selected organization (s). You can select one or more entries from a list of all organizations in the platform.
    - *Product.* Include all users and/or external contacts associated with the selected product SKU(s). You can select one or more entries from a list of all product SKUs in the platform .
    - Ticket Queue. Include all users and/or external contacts associated with the ticket queue(s). You can select one or more entries from a list of all ticket queues in the platform.
  - Search. Allows you to search the list of organizations, products, or ticket queues by name.

4. Click the [Add Rule] button to add the dynamic rule to the current distribution list.

Distribution List Editor   Created list   Editing distribution				
	Distribution List Name	,		
Add Dynamic Rule			Close / Esc	
Dynamic Ru Dynamic Rule Editor			Na	Add
Recipient Types           Image: Control of the second seco	Rule Type: Organization  Carbonation C - Servers C - Servers C - Servers NOC OA System	Search:		
Matched Recipients [0] Full Name	Type	ID Ta	rget	
Static Reci:	No results to display		Add Rule	Add 2
			ct Action]	Go

#### Adding a Static Recipient

In the **Distribution List Editor** page, you have the option of adding static recipients to a distribution list. To add static recipients to a distribution list:

- 1. In the **Distribution List Editor** page, click the **[Add]** button in the Static Recipients field.
- 2. The Static Recipient Editor page appears, where you can define a value in the following fields:
  - **EM7 User**. Select from a list of user accounts associated with the organization, product SKU, or ticket queue.
  - **External Contact**. Select from a list of external contact accounts associated with the organization, product SKU, or ticket queue.
  - Vendor. Select from a list of vendor contacts associated with the organization, product SKU, or ticket queue.
  - Search for. Select the item that you want to base the user list on. Choices are:
    - All recipients. Includes all users, external contacts, or vendor contacts in the platform.
    - Organization. Include all users, and/or external contacts associated with the selected organization (s). You can select one or more entries from a list of all organizations in the platform.

- *Product*. Include all users and/or external contacts associated with the selected product SKU(s). You can select one or more entries from a list of all product SKUs in the platform.
- Ticket Queue. Include all users and/or external contacts associated with the ticket queue(s). You can select one or more entries from a list of all ticket queues in the platform.
- Search. Allows you to search the list of organizations, products, or ticket queues by name.
- 3. To add static recipients to a new distribution list, select the checkbox (1) of each recipient you want to include in the distribution list from the **Matched Recipients** pane.
- 4. Click the [Add/Remove] button to add the select recipients to the distribution list.

Static Recipient Editor         Recipient Types         Image: EM7 User       Image: Search for: All recipients         Image: EM7 User       Image: Search for: All recipients       Image: Search for: Image: Search	
Image: EM7 User     Image: EM7 User       Image: External Contact     Image: External Contact       Image: External Contact     Image: External Contact <t< th=""><th></th></t<>	
Image: Antone       EMT User       1       emTage: Contact         Image: Antone       EMT User       1       emTage: Contact         Image: Antone       EMT User       1       emTage: Contact         Image: Antone       EMT User       3       qauser       Image: Contact         Image: Antone       EMT User       1       emTage: Contact       Image: Contact       Ima	
Image: Antone       EMT User       19       dashboard         System Administrator       EMT User       2       system         Baggie Antone       EMT User       3       qauser         Maggie Antone       EMT User       19       dashboard	
Image     Image     Image       Matched Recipients [10]     Image     Image       I. System Administrator     EM7 User     1     em7admin       2. System User     EM7 User     2     sysuser       3. ga user     EM7 User     3     gauser       4. Maggie Antone     EM7 User     6     mantone       5. Dashboard Creator     EM7 User     19     dashboard	
Matched Recipients [10]       Type       ID       Target       IZ         1. System Administrator       EM7 User       1       em7admin       IZ         2. System User       EM7 User       2       sysuser       IZ         3. qa user       EM7 User       3       qauser       IZ         4. Maggie Antone       EM7 User       6       mantone       IZ         5. pashboard Creator       EM7 User       19       dashboard       IZ	
Full Name         Type         ID         Target         IZ           1. System Administrator         EM7 User         1         em7admin         IZ           2. System User         EM7 User         2         sysuser         IZ           3. qa user         EM7 User         3         qauser         IZ           4. Maggie Antone         EM7 User         6         mantone         IZ           5. Dashboard Creator         EM7 User         19         dashboard         IZ	
Full Name         Type         ID         Target         IZ           1. System Administrator         EM7 User         1         em7admin         IZ           2. System User         EM7 User         2         sysuser         IZ           3. qa user         EM7 User         3         qauser         IZ           4. Maggie Antone         EM7 User         6         mantone         IZ           5. Dashboard Creator         EM7 User         19         dashboard         IZ	
Full Name         Type         ID         Target         IZ           1. System Administrator         EM7 User         1         em7admin         IZ           2. System User         EM7 User         2         sysuser         IZ           3. ga user         EM7 User         3         gauser         IZ           4. Maggie Antone         EM7 User         6         mantone         IZ           5. Dashboard Creator         EM7 User         19         dashboard         IZ	
Full Name         Type         ID         Target         IZ           1. System Administrator         EM7 User         1         em7admin         IZ           2. System User         EM7 User         2         sysuser         IZ           3. qa user         EM7 User         3         qauser         IZ           4. Maggie Antone         EM7 User         6         mantone         IZ           5. Dashboard Creator         EM7 User         19         dashboard         IZ	
Full Name         Type         ID         Target         IZ           1. System Administrator         EM7 User         1         em7admin         IZ           2. System User         EM7 User         2         sysuser         IZ           3. ga user         EM7 User         3         gauser         IZ           4. Maggie Antone         EM7 User         6         mantone         IZ           5. Dashboard Creator         EM7 User         19         dashboard         IZ	
1. System Administrator     EM7 User     1     em7admin       2. System User     EM7 User     2     sysuser       3. ga user     EM7 User     3     gauser       4. Maggie Antone     EM7 User     6     mantone       5. Dashboard Creator     EM7 User     19     dashboard	
1. System Administrator     EM7 User     1     em7admin       2. System User     EM7 User     2     sysuser       3. ga user     EM7 User     3     gauser       4. Maggie Antone     EM7 User     6     mantone       5. Dashboard Creator     EM7 User     19     dashboard	Action
3. qa user     EM7 User     3     qauser       4. Maggie Antone     EM7 User     6     mantone       5. Dashboard Creator     EM7 User     19     dashboard	
4. Maggie Antone EM7 User 6 mantone EM7 User 19 dashboard	
5. Dashboard Creator EM7 User 19 dashboard	
6. Test Customer EM7 User 20 testcustomer	
7. Dashboard Administrator EM7 User 22 dashboard_admin	
8. David Kahane EM7 User 26 dkahane	
9. Samuel Johnson EM7 User 27 sjohnson	
10. Acme User EM7 User 28 acmeuser	
A	dd/Remove

## Editing a Distribution List

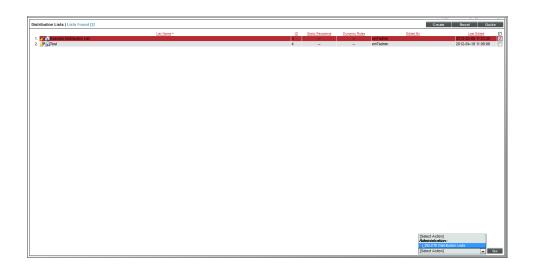
You can edit existing distribution lists from the Distribution Lists page. To edit a distribution list:

- 1. Go to the **Distribution Lists** page (Registry > Business Services > Distribution Lists).
- 2. In the **Distribution Lists** page, find the distribution list you want to edit. Click its wrench (*P*) icon.
- 3. The **Distribution Lists** page appears, with the same fields described in the **Creating a Distribution List** section of this chapter.
- 4. To edit Dynamic Rules or Static Recipients, click their [Add ]button.
- 5. To save your changes, click the **[Go ]**button. Clicking the **[Reset]** button will discard all changes and reset the fields to their previous values.

## **Deleting Distribution Lists**

You can delete all, multiple, or individual distribution lists from the **Distribution Lists** page. To delete one or more distribution lists:

- 1. Go to the **Distribution Lists** page (Registry > Business Services > Distribution Lists).
- 2. In the **Distribution Lists** page, select the checkbox (🗹) for each distribution list you want to delete. To select all distribution lists, select the checkmark in the upper right of the page.
- 3. In the Select Action drop-down list at the bottom of the page, select DELETE Distribution Lists.



- 4. Click the **[Go]** button to delete the selected distribution list(s).
- 5. The selected distribution lists are deleted from the ScienceLogic platform.

# Sending a Message to a Distribution List with the Service Notifier

The **Service Notifier** page allows you to send a message from the platform. The message can include text, screen captures, and attached files. The message can be sent to manually entered email addresses, distribution lists, manually selected users, manually selected external contact accounts, and manually selected vendors.

There are two ways to send a message to a distribution list:

- From the **Distribution Lists** page:
  - 1. Go to the **Distribution Lists** page (Registry > Business Services > Distribution Lists).
  - 2. In the **Distribution Lists** page, find the distribution list you want to send a message to. Click its email icon
  - 3. In the **Service Notifier** page, the **To** field is automatically populated with the distribution list. You can define a subject and the body text, format the body text, and include one or more attachments with the message.
  - 4. Click the [Send] button to send the message to the distribution list.
- From the Service Notifier page:
  - 1. Go to the **Service Notifier** page (Registry > Business Services > Service Notifier).
  - 2. In the Service Notifier page, select a distribution list from the drop-down list in the upper right.
  - 3. Click the **[Add]** button.
  - 4. The **To** field is populated with the distribution list. You can define a subject and the body text, format the body text, and include one or more attachments with the message.
  - 5. Click the [Send] button to send the message to the distribution list.

# Chapter

# **Service Notifiers**

#### Overview

The **Service Notifier** page allows you send a message to manually entered email addresses, distribution lists, manually selected users, manually selected external contact accounts, and manually selected vendors. The message can include text, images, videos, and attached files.

This chapter will discuss:

- The Service Notifier Page
- Adding a Distribution List in the "To" Field
- Adding Users, External Contacts, and Vendors to the "To" Field

# The Service Notifier Page

You can format and compose a notification message from the **Service Notifier** page. The **Service Notifier** page allows you to select the message's recipient(s), severity, and content. From this page, you can add and format message text; insert content from a saved template; and add hyperlinks, images, or videos to the message.

To view the **Service Notifier** page:

1. Go to the **Service Notifier** page (Registry > Business Services > Service Notifier).

4

2. The **Service Notifier** page contains the following fields:

Ser	vice N	otifier																					I	Reset	Guid	de
Messi	ige Head To	ers Click he	ve to ac	d recipie	ents																		Example	Distribution I	List 🔻 🗛	dd
	Subject.																						Se	erity. Heat	hv	-
Messi	ge Text																									=
B	2	В	I	U	÷	A٠	TI-	۰ ه	۹ -	1	· ∎•	<u>e</u>	Ē	Ħ	≣	<b>⊞</b> •	-	8								
St	ut typ	ng																								
																										0
																									Send	Ľ

- Distribution List. This drop-down list contains entries for each distribution list. To include a
  distribution list in the To field, select it from this field and click the [Add] button. To read more about
  adding a distribution list, see the section Adding a Distribution List to the "To" Field in this manual.
- **To**. Specifies the recipients for the message. Clicking in this field displays the **Add Recipients** modal page, where you can select users, external contacts, and vendor contacts to include in the **To** field.
- **Subject**. Subject of the email message.
- Severity. Severity associated with the message. Choices are Healthy, Notice, Minor, Major, or Critical.
- Message Text. Text to include in the body of the email message. You can use the toolbar to format the text.
- [Send]. Click this button to send the message from the platform to the selected recipients.

# Adding a Distribution List to the "To" Field

A distribution list is a list of users, external contacts, and/or vendors to whom you want to send email messages from the platform. You can add a distribution list to a message in the **Service Notifier** page. From the distribution list, you can also select one or more users who will receive the message.

To add a distribution list to a service notifier:

- 1. Go to the **Service Notifier** page (Registry > Business Services > Service Notifier).
- 2. In the **Service Notifier** page, select a distribution list from the drop-down list in the upper right of the page. Click the **[Add]** button.

3. The **To** field is populated with the distribution list. You can define a subject and the body text, format the body text, and include one or more images, videos, or attachments with the message.

_																												
Ser		Notifi	ier																					_		Reset	Gu	uide
Mess	age <u>H</u>	aders																						ſ	Example D	istribution L	ist▼[4	Add
			mple Di	tribution	List (Dist	tribution	List)																	-	example e	ion bonon e		
	. L																											
	Subj	ect:																							Sew	erity: Healt	hy	•
Mess	age Te	ext																										
B	•	2 I	B J	U	<del>S</del>	A٠	TI-	ð -	¶ -	1-	≣·	ī	Ē	j≡ I	= (	<b>.</b>	-	00	-		/>							
St	tart ty	ping .																										
1																												
																												_

4. To view the individual users in the distribution list, click on the name of the distribution list. Each user in the distribution list appears in the **To** field

Service Notifier	Reset Guide
tessage Headers T <sub>O:</sub> Example Distribution List (Benjamin Leyland (EM7 User); Bryan Anderton (EM7 User); System Administrator (EM7 User))	Example Distribution List • (Add
Subject	Severity. Healthy

- 5. To remove individual users from the **To** field, click their username. The user will be removed from the **To** field.
- 6. Click the [Send] button to send the message to the distribution list.

## Adding Users, Vendors, and External Contacts to the "To" Field

Along with distribution lists, you can also add users, external contacts, and vendors to the **To** field of a service notification. To manually add users, external contacts, and vendors in a message:

1. Go to the **Service Notifier** page (Registry > Business Services > Service Notifier).

2. In the **Service Notifier** page, click the **To** field. The **Add Recipients** page appears, where you can perform the following actions:

cipient Selector					
Re	rcipient Types	Search for: [All recipients 🔹 Search: [			
alsched Recipients [7] 1. Speter Administration 2. Depan Anderecton 2. Depan Anderecton 3. Benjamin Leyland	Eallinn	EM7 User	1 en Tadmin 2 banderton 3 bleyland	Izat	Z Actor

- **EM7 User**. Select this checkbox if you would like to see matched recipients of type "EM7 User." This checkbox is selected by default.
- **External Contact**. Select this checkbox if you would like to see matched recipients of type "External Contact." This checkbox is selected by default.
- Vendor. Select this checkbox if you would like to see matched recipients of type "Vendor." This checkbox is selected by default.
- Search for. Specify the parameter you want to search matched recipients by. Choices are:
  - All recipients. The platform will search all matched recipients.
  - Organization. The platform will search all organizations that have a state that matches the regular expression.
  - Product. The platform will search all products that have a state that matches the regular expression.
  - *Ticket Queue*. The platform will search all ticket queues that have a state that matches the regular expression.

The **Matched Recipients** pane displays all the current users, external contacts, and/or vendor contacts who match the criteria you have selected.

- Select the checkbox (🗹) of each recipient you want to include in the **To** field.
- To remove a recipient who is currently included in the **To** field, unselect the checkbox.
- Click the [Add/Remove] button to update the list of recipients in the To field.

# Chapter

5

# **Product Catalogs**

#### Overview

The **Product Catalog** page allows you to view a list of existing product SKUs. From this page, you can also define and edit product SKUs.

Product SKUs can be associated with organizations, devices, assets, or interfaces. Product SKUs allow you to track and bill customers for products and services rendered.

When you associate a product with an organization, device, asset, or interface, that product/element pair appears in the **Product Subscription Manager** page.

This chapter will cover:

- Viewing and Filtering the List of Products
- Creating, Editing, and Deleting Products
- Aligning a Product With a Device, Organization, Interface, and Asset

## Viewing and Filtering the List of Product SKUs

The **Product Catalog** page (Registry > Business Services > Product Catalog) displays a list of existing product SKUs. From the **Product Catalog** page you can view and manage existing product SKUs. To view a list of existing product SKUs:

- TIP: You can sort the list of product SKUs by column. To sort by ascending column value, click on a column heading. To sort by descending column value, click on the same column heading a second time. The *Edit Date* column sorts by descending order on the first click; to sort by ascending order, click the column heading again.
- 1. Go to the **Product Catalog** page (Registry > Business Services > Product Catalog).

duct Catalog   Records Found [38]						C re ate	
Product Name •	Product Class	SKU Identifier	Ivee	NRC	MRC	Edit User	Edit Date
January 10 GB Tape Space	Tape Backup and Storage Services	12345	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:30:44
P10 Mbps Sustainable Fiber Uplink	Dedicated Internet Access Service	23498765	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:37:05
P100 Mbps Sustainable Fiber Uplink	Dedicated Internet Access Service	29046740279	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:37:26
P140 GB Tape Space	Tape Backup and Storage Services	45675467567	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:31:53
P20 GB Tape Space	Tape Backup and Storage Services	4578457	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:32:00
P24 x 7 Onsite 1 Hour Response	Remote Backup Services	HDTAKI S-21345	Device	USD 0.00	USD 0.00	em7admin	2007-12-12 18:41:32
#24x7 2 Hour Response	Managed Network Management Services	SUPP001	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:14:22
24x7 24 Hour Response	Managed Network Management Services	SUPP0024	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:15:15
#24x7 3 Hour Response	Managed Network Management Services	SUPP002	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:14:42
P24x7 4 Hour Response	Managed Network Management Services	SUPP003	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:14:51
P24x7 48 Hour Response	Managed Network Management Services	SUPP0048	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:15:58
P24x7 8 Hour Response	Managed Network Management Services	SUPP008	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:15:02
P40 GB Tape Space	Tape Backup and Storage Services	2353467567	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:31:47
PAccumulative 95th Percentile Mega = 1000000	Dedicated Internet Access Service	BW-A95P-1000	Interface	0000.00		em7admin	2012-03-23 11:27:47
PBackup 24x7	Remote Backup Services	BKUP-222	Device	USD 150.00	USD 750 00	em7admin	2008-12-23 10:11:38
PBi-Weekly Differential Backup	Remote Backup Services	BKUP-225	Device	USD 150.00	USD 750.00	em7admin	2008-12-23 10:12:26
Colo 10 Amp Power	Colocation Space	23459087234	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:32:41
PColo 15 Amp Power	Colocation Space	259867	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:32:41
Pcolo 15 Amp Power	Colocation Space	2304895775	Device	USD 0.00	USD 0.00	em/admin	2008-12-23 00:30:00
Pcolo 5 Amp Power	Colocation Space	9386709087	Device	USD 0.00	USD 0.00	em/admin em/admin	2008-12-23 00:32:59
PColo 5 Amp Power PColo Cabinet 10U	Colocation Space	9386709087	Device	USD 0.00	USD 0.00	em/admin em/admin	2008-12-23 00:32:59 2008-12-29 11:07:35
		12344663	Device	USD 10.00	USD 0.00	em/admin em/admin	2008-12-29 11:07:35
PColo Cabinet 20U	Colocation Space						
PColo Cabinet 2U	Colocation Space	12344664	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 10:10:11
PColo Cabinet 5U	Colocation Space	123446845	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 10:46:37
PCPU Usage Charge	Miscellaneous	34563456345	Device	USD 100.00	USD 25.00	em7admin	2009-01-07 20:12:59
Custom Bandwidth Services (See attached Statement of Work)	Dedicated Internet Access Service	BW-CUST	Interface			em7admin	2006-10-12 01:05:05
PDatabase MySQL Server DR Mirror	Disaster Recovery / Business Continuity	90834814905	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:35:14
PDatabase Oracle DR Mirror	Disaster Recovery / Business Continuity	0987234578	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:34:15
PDatabase SQL Server DR Mirror	Disaster Recovery / Business Continuity	34563460934	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:34:51
PDatabase Sybase DR Mirror	Disaster Recovery / Business Continuity	919034850789	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:36:08
Pinternet Bandwidth - Virtual Private Line - Peak 95% Billing Methodolog		BW-VPL95P	Interface			em7admin	2006-10-12 01:05:05
Pinternet Bandwidth Burstable - Additional bandwidth usage	Dedicated Internet Access Service	BW-ADDL	Interface			em7admin	2006-10-12 01:05:05
Pinternet Bandwidth Burstable to 100Mb/sec - Peak 95% Billing Me	Dedicated Internet Access Service	BW-95P	Interface			em7admin	2005-07-13 08:37:53
Pinternet Bandwidth Burstable to 10Mb/sec - Peak 90% Billing Methodol	Dedicated Internet Access Service	BW-90P	Interface			em7admin	2006-10-12 01:05:05
Pinternet Bandwidth Fixed 10Mbos Port (non-burstable)	Dedicated Internet Access Service	BW-FIXED	Interface			em7admin	2006-10-12 01:05:05
						[Select Action]	

2. The **Product Catalog** page displays the following about each product:

- Product Name. Name of the product. Can be up to 64 characters in length.
- **Product Class**. Description of the product. Administrators can use the **Select Objects Editor** page (System > Customize > Select Objects) to customize the list of possible choices in this field.
- SKU Identifier. User-defined, numeric ID for the product. Can be up to 24 characters in length.
- Type. The element for which you are creating a product. Choices are:
  - Organization
  - Device
  - Asset
  - Interface

- NRC. Any initial, non-recurring cost associated with the product. If you selected any entry other than *Interface* in the **For Entity Type** field, this field is populated. Can be up to 12 characters in length.
- MRC. Monthly recurring cost associated with the product. If you selected any entry other than Interface in the For Entity Type field, this field is populated. Can be up to 12 characters in length.
- Edit User. User who created or last edited the product definition.
- Edit Date. Date and time the product definition was created or last edited.

#### Filtering the List of Products

The **Product Catalog** page includes eight filters, in the top row in the list of products. You can specify one or more parameters to filter the display of products. Only products that meet all the filter criteria will be displayed in the **Product Catalog** page.

You can filter by one or more of the following parameters. The list of products is dynamically updated as you select each filter.

- For each filter except *Edit Date*, you must enter text to match against. The ScienceLogic platform will search for products 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" would match all values that contain the string "dell" OR the string "micro".

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

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

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

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

- **Product Name**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Catalog** page will display only products that have a matching name.
- **Product Class**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Catalog** page will display only products that are associated with a matching product class.
- **SKU Identifier**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Catalog** page will display only products that have a matching SKU ID.
- *Type*. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Catalog** page will display only products that have a matching element type.
- NRC. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Catalog** page will display only products that have a matching non-recurring cost.
- MRC. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Catalog** page will display only products that have a matching monthly recurring cost.

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- Edit User. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Catalog** page will display only products that have a matching username associated with the creation or last edit of the Product SKU.
- *Edit Date*. You can select from a list of time periods. The **Product Catalog** page will display only products that have been created or edited within that time period. Choices are:
  - All. Display all products that match the other filters.
  - Last Minute. Display only products that have been created within the last minute.
  - Last Hour. Display only products that have been created within the last hour.
  - Last Day. Display only products that have been created within the last day.
  - Last Week. Display only products that have been created within the last week.
  - Last Month. Display only products that have been created within the last month.
  - Last Year. Display only products that have been created within the last year.

# Creating a New Product SKU

You can create new product SKU from the **Product Catalog** page. To create a new product SKU:

- 1. Go to the **Product Catalog** page (Registry > Business Services > Product Catalog).
- 2. In the **Product Catalog** page, click the **[Create]** button.
- 3. In the Add Product page, enter values in the following fields:
  - Product Name. Name of the product.
  - SKU Identifier. User-defined numeric identifier for the product.
  - **Product Class**. The type of service the product represents. the platform administrators can use the **Select Objects Editor** page (System > Customize > Select Objects) to customize the list of possible choices in this field.
  - Addendum/Description. Additional identification for the SKU. Can be up to 24 characters in length.
  - Non-Recurring Cost. Any initial, non-recurring cost associated with the product. If you selected any entry other than *Interface* in the For Entity Type field, this field appears after the product definition has been saved. Can be up to 12 characters in length.
  - Monthly Recurring Cost. Monthly recurring cost associated with the product. If you selected any entry other than Interface in the For Entity Type field, this field appears. Can be up to 12 characters in length.
  - For Entity Type. The element for which you are creating a product. Choices are:
    - Organization. The product will appear in the **Product Catalog** modal page for organizations, where users can associate the product with an organization.
    - Device. The product will appear in the **Product Catalog** modal page for devices, where users can associate the product with a device.

- Asset. The product will appear in the **Product Catalog** modal page for assets, where users can associate the product with an asset
- Interface. The product will appear in the **Bandwidth Billing Editor** modal page, where users can associated the product with a bandwidth billing policy.
- Interface Service Type. If you selected Interface in the For Entity Type field, this field appears. This field defines the basis for bandwidth billing. The choices are:
  - Mega = 1000000: Percentile: In & Out. Customer is billed for total inbound and outbound bandwidth for all applicable interfaces. Billing is at the specified percentile point. A Megabyte will be measured as 1000000 (one million) bytes.
  - Mega = 1000000: Percentile: Inbound. Customer is billed for the total inbound bandwidth for all applicable interfaces. Billing is at the specified percentile point. A Megabyte will be measured as 1000000 (one million) bytes.
  - Mega = 1000000: Percentile: Outbound. Customer is billed for the total outbound bandwidth for all applicable interfaces. Billing is at the specified percentile point. A Megabyte will be measured as 1000000 (one million) bytes.
  - Mega = 1000000: Percentile: Highest Poll. Customer is billed for either the total inbound or total outbound, whichever is highest, for each applicable interfaces. Billing is at the specified percentile point. A Megabyte will be measured as 1000000 (one million) bytes.
  - Mega = 1000000: Committed Transfer: Gigabyte. Customer is billed for the total inbound and outbound bytes transferred for the entire billing period. A Megabyte will be measured as 1000000 (one million) bytes.
  - Mega = 1048576: Percentile: Base 10: In & Out. Customer is billed for total inbound and outbound bandwidth for all applicable interfaces. Billing is at the specified percentile point. A Megabyte will be measured as 1,048,576 bytes.
  - Mega = 1048576: Percentile: Base 10: Inbound. Customer is billed for the total inbound bandwidth for all applicable interfaces. Billing is at the specified percentile point. A Megabyte will be measured as 1,048,576 bytes.
  - Mega = 1048576: Percentile: Base 10: Outbound. Customer is billed for the total outbound bandwidth for all applicable interfaces. Billing is at the specified percentile point. A Megabyte will be measured as 1,048,576 bytes.
  - Mega = 1048576: Percentile: Base 10: Highest Poll. Customer is billed for either the total inbound or total outbound, whichever is highest, for each applicable interfaces. Billing is at the specified percentile point. A Megabyte will be measured as 1,048,576 bytes.
  - Mega = 1048576: Committed Transfer: Gigabyte. Customer is billed for the total inbound and outbound bytes transferred for the entire billing period. A Megabyte will be measured as 1,048,576 bytes.
- Interface Percentile Rate. If you selected Interface in the For Entity Type field, this field appears. Highest reading for which the customer will be billed. For example, if a customer is billed with a 95 percentile, all the bandwidth readings for the billing period are sorted, and the top 5% of bandwidth readings are dropped. The customer is then charged for the remaining 95% of bandwidth readings. If you selected Committed Transfer: Gigabyte in the Interface Service Type fiend, select Disabled.
- 4. Click the **[Save]** button to save the new product SKU.

For an example of how to create a product SKU for a bandwidth billing policy, see the Bandwidth Billing chapter.

## Editing an Existing Product Definition

You can edit an existing product SKU from the **Product Catalog** page. To edit an existing product SKU:

- 1. Go to the **Product Catalog** page (Registry > Business Services > Product Catalog).
- 2. Find the product SKU you want to edit. Click its wrench icon (
- 3. In the Add Product page, you can edit the value of any of the fields described in the Creating a Product Definition section of this chapter.
- 4. Click the **[Save]** button to save your changes. If you are creating a new product SKU based on an existing definition, click the **[Save As]** button, making sure you supply a new name for the product SKU.

# Deleting One or More Product SKUs

You can delete one or more product SKUs from the **Product Catalog** page. To delete product SKUs:

- 1. Go to the **Product Catalog** page (Registry > Business Services > Product Catalog).
- 2. In the **Product Catalog** page, find the product SKUs you want to delete. Select their checkboxes (I) to the right of the page.
- 3. In the **Select Action** drop-down field (in the lower right), choose DELETE Selected Assets.
- 4. Click the **[Go]** button.
- 5. The selected product definitions will be deleted.

Product Name •	Product Class	SKU Identifier	Type	NRC	MRC	Edit User	Edit Date	
							AI	J.
P10 GB Tape Space	Tape Backup and Storage Services	12345	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:30:44	
P10 Mbps Sustainable Fiber Uplink	Dedicated Internet Access Service	23498765	Device	USD 0.00	USD 0.00	em?admin	2008-12-23 00:37:05	-
P100 Wbps Sustainable Fiber Uplink	Dedicated Internet Access Service	29046740279	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:37:26	
P140 GB Tape Space	Tape Backup and Storage Services	45675467567	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:31:53	-
20 GB Tape Space	Tape Backup and Storage Services	4578457	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:32:00	a i
P24 x 7 Onsite 1 Hour Response	Remote Backup Services	HDTAKLS-21345	Device	USD 0.00	USD 0.00	em7admin	2007-12-12 18:41:32	
#24x7 2 Hour Response	Managed Network Management Services	SUPP001	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:14:22	
#24x7 24 Hour Response	Managed Network Management Services	SUPP0024	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:15:15	
P24x7 3 Hour Response	Managed Network Management Services	SUPP002	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:14:42	
P24x7 4 Hour Response	Managed Network Management Services	SUPP003	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:14:51	
P24x7 48 Hour Response	Managed Network Management Services	SUPP0048	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:15:58	
P24x7 8 Hour Response	Managed Network Management Services	SUPP008	Organization	USD 0.00	USD 0.00	em7admin	2008-12-23 10:15:02	
P40 GB Tape Space	Tape Backup and Storage Services	2353467567	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:31:47	
PAccumulative 95th Percentile Mega = 1000000	Dedicated Internet Access Service	BW-A95P-1000	Interface			em7admin	2012-03-23 11:27:47	
Backup 24x7	Remote Backup Services	BKUP-222	Device	USD 150.00	USD 750.00	em7admin	2008-12-23 10:11:38	
BI-Weekly Differential Backup	Remote Backup Services	BKUP-225	Device	USD 150.00	USD 750.00	em7admin	2008-12-23 10:12:26	
Colo 10 Amp Power	Colocation Space	23459087234	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:32:41	
PColo 15 Amp Power	Colocation Space	259867	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:30:00	
PColo 20 Amp Power	Colocation Space	2304895775	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:29:39	
Colo 5 Amp Power	Colocation Space	9386709087	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:32:59	
PColo Cabinet 10U	Colocation Space	12344683	Device	USD 10.00	USD 0.00	em7admin	2008-12-29 11:07:35	
PColo Cabinet 20U	Colocation Space	123452346	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 10:06:30	
PColo Cabinet 2U	Colocation Space	12344664	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 10:10:11	
PColo Cabinet 5U	Colocation Space	123446645	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 10:46:37	
PCPU Usage Charge	Miscellaneous	34563456345	Device	USD 100.00	USD 25.00	em7admin	2009-01-07 20:12:59	
PCustom Bandwidth Services (See attached Statement of Work)	Dedicated Internet Access Service	BW-CUST	Interface		-	em7admin	2006-10-12 01:05:05	
PDatabase MySQL Server DR Mirror	Disaster Recovery / Business Continuity	90834814905	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:35:14	
PDatabase Oracle DR Mirror	Disaster Recovery / Business Continuity	0987234578	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:34:15	
PDatabase SQL Server DR Mirror	Disaster Recovery / Business Continuity	34563460934	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:34:51	
PDatabase Sybase DR Mirror	Disaster Recovery / Business Continuity	919034850789	Device	USD 0.00	USD 0.00	em7admin	2008-12-23 00:36:08	
Pinternet Bandwidth - Virtual Private Line - Peak 95% Billing Methodology	Dedicated Internet Access Service	BW-VPL95P	Interface			em7admin	2006-10-12 01:05:05	
Pinternet Bandwidth Burstable - Additional bandwidth usage	Dedicated Internet Access Service	BW-ADDL	Interface			em7admin	2006-10-12 01:05:05	
Pinternet Bandwidth Burstable to 100Mb/sec - Peak 95% Billing Me	Dedicated Internet Access Service	BW-95P	Interface		-	em7admin	2005-07-13 08:37:53	
Pinternet Bandwidth Burstable to 10Mb/sec - Peak 90% Billing Methodolo	Dedicated Internet Access Service	BW-90P	Interface	-	-	em7admin	2006-10-12 01:05:05	
Pinternet Bandwidth Fixed 10Mbps Port (non-burstable)	Dedicated Internet Access Service	BW-FIXED	Interface		-	em7admin	2006-10-12 01:05:05	
PMonthly Differential Backup	Remote Backup Services	BKUP-226	Device	USD 150.00	USD 750.00	em7a [Select Action]		
PT1 Mbos Sustainable Fiber Uplink	Dedicated Internet Access Service	62852952394	Device	USD 0.00	USD 0 00	Administration:	ted Assets	

# Associating a Product SKU with a Device

The ScienceLogic platform allows you to align a product SKU with a device. You can also view active product subscriptions associated with the device, view available products that can be associated with a device, and can disassociate a product SKU from a device.

To associate a product SKU with a device:

- 1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
- 2. Find the device you want to associate with a product SKU. Click its wrench ( $\checkmark$ ) icon.
- 3. In the **Device Administration** panel, click any tab.
- 4. Click the [Actions] menu and choose Product Catalog.
- 5. The **Product Catalog** modal page appears, where you can perform the following actions:

For Device [1]		Refresh
Available Products		
Colocation Space		
I_ Colo Cabinet 10U	12344663	
I_ Colo Cabinet 2U	12344664	
I_ Colo Cabinet 5U	123446645	
I_ Colo Cabinet 20U	123452346	
I_ Colo 20 Amp Power	2304895775	
I_ Colo 10 Amp Power	23459087234	
I_ Colo 15 Amp Power	259867	
L Colo 5 Amp Power	9386709087	
Dedicated Internet Access Service		
_ 10 Mbps Sustainable Fiber Uplink	23498765	
_ 100 Mbps Sustainable Fiber Uplink	29046740279	
I_T1 Mbps Sustainable Fiber Uplink	62852952394	
Disaster Recovery / Business Continuity		

To associate a product SKU with a device:

- 1. In the Available Products pane, select one or more product SKUs.
- 2. Click the [Save] button.
- 3. The product SKU(s) will now appear in the Active Product Subscriptions pane.
- 4. In the Active Product Subscriptions pane, you can increase (or decrease) the number of subscriptions to the product by manually entering a number. By default, the number "1" (one) appears in the number field.

To disassociate a product SKU from a device:

- 1. In the Active Product Subscriptions pane, select one or more product SKUs.
- 2. Click the **[Save]** button.
- 3. The product SKU(s) will now appear in the **Available Products** pane and will no longer be associated with the device.

You can also edit a product subscription from the **Product Subscription Manager** page. To learn more about the **Product Subscription Manager** page, see the chapter **Product Subscriptions** in this manual.

### Associating a Product SKU with an Organization

In addition to associating a product SKU with a device, you can also associate a product SKU with an organization. This functionality is similar to associating a product SKU with a device: You can view current associated product SKUs, view available product SKUs, and disassociate product SKUs from an organization.

To associate a product SKU with an organization:

- 1. Go to the **Organizational Account Administration** page (Registry > Accounts > Organizations).
- 2. In the **Organizational Account Administration** page, find the organization you want to associate with a product SKU. Click its wrench icon (
- 3. The **Organizational Summary Page** appears. In the **[Actions]** menu in the upper right of the page, select *Product* Catalog.
- 4. The **Product Catalog** modal page appears, where you can perform the following actions:

Produ	ict Catalog		Close / Esc
For	Organization [6]		Refresh
Act	tive Product Subscriptions		
Ma	anaged Network Management Serv	ices	
1	_ 24x7 2 Hour Response	SUPP001	1
1	_24x7 24 Hour Response	SUPP0024	1
Ava	ailable Products		
1	_ 24x7 3 Hour Response	SUPP002	
1	_24x7 4 Hour Response	SUPP003	
- I,	_24x7 48 Hour Response	SUPP0048	
1	24x7 8 Hour Response	SUPP008	
		Save	
		Save	

To associate a product SKU with an organization:

- 1. In the Available Products pane, select one or more product SKUs.
- 2. Click the [Save] button.
- 3. The product SKU(s) will now appear in the Active Product Subscriptions pane.
- 4. In the Active Product Subscriptions pane, you can increase (or decrease) the number of subscriptions to the product by manually entering a number. By default, the number "1" (one) appears in the number field.

To disassociate a product SKU from an organization:

- 1. In the Active Product Subscriptions pane, select one or more product SKUs.
- 2. Click the **[Save]** button.
- 3. The product SKU(s) will now appear in the **Available Products** pane and will no longer be associated with the organization.

You can also edit a product subscription from the **Product Subscription Manager** page. To learn more about the **Product Subscription Manager** page, see the chapter **Product Subscriptions** in this manual.

#### Associating a Product SKU with an Asset

The ScienceLogic platform allows you to associate a product SKU with an asset. You can also view active product SKUs associated with the asset, view available products that can be associated with an asset, view available products that can be associated with an asset.

To associate a product SKU with an asset:

- 1. Go to the Asset Manager page (Registry > Assets > Asset Manager).
- 2. Find the asset you want to associate with a product SKU. Click its wrench icon (
- 3. The **Asset Properties** page appears. In the **[Actions]** menu in the upper right of the page, select Product Catalog.

4. The **Product Catalog** modal page appears, where you can perform the following actions:

oduct Catalog		Close / I
For Asset [404]		Refresh
Available Products		
test		
L myProduct4	1092874	
L myProduct1	1111	
_ myProduct2	2222	
	Save	

To associate a product SKU with an asset:

- 1. In the Available Products pane, select one or more product SKUs.
- 2. Click the **[Save]** button.
- 3. The product SKU(s) will now appear in the Active Product Subscriptions pane.
- 4. In the Active Product Subscriptions pane, you can increase (or decrease) the number of subscriptions to the product by manually entering a number. By default, the number "1" (one) appears in the number field.

To disassociate a product SKU from an asset:

- 1. In the Active Product Subscriptions pane, select one or more product SKUs.
- 2. Click the **[Save]** button.
- 3. The product SKU(s) will now appear in the **Available Products** pane and will no longer be associated with the asset.

You can also edit a product subscription from the **Product Subscription Manager** page. To learn more about the **Product Subscription Manager** page, see the chapter **Product Subscriptions** in this manual.

# Chapter

# **Product Subscriptions**

#### Overview

The **Product Subscription Manager** page allows you to view a list of all products that have been assigned to a device, organization, interface, or asset record.

The **Product Subscription Manager** page (Registry > Business Services > Product Subscriptions) displays each aligned product/element pair. If a product has been assigned to multiple elements, it will appear more than once in the **Product Subscription Manager** page.

This chapter will discuss:

- Viewing and Filtering Product Subscriptions
- Editing and Deleting One or More Product Subscriptions
- Generating a Report on All Product Subscriptions

### Viewing the List of Product Subscriptions

The **Product Subscription Manager** page displays the list of elements and their product subscriptions. If a product has been assigned to multiple elements, it will appear more than once in the **Product Subscription Manager** page.

To view a list of product subscriptions:

1. Go to the **Product Subscription Manager** page (Registry > Business Services > Product Subscriptions).

2. The **Product Subscription Manager** page displays the following information about each product subscription:

	Product Class ·	Product SKU	Product Name	Entity Name	Type	Subscribed Quantity	User Edit	Date Edit
								All
Managed Network Mana		SUPP001	24x7 2 Hour Response	<b>MOA</b>	Organization	1	em7admin	2012-02-29 14:51:37
Managed Network Mana		SUPP002	24x7 3 Hour Response	<b>M</b> QA	Organization	1	em7admin	2012-02-29 14:51:37
Managed Network Mana		SUPP0024	24x7 24 Hour Response	n	Organization	1	em7admin	2012-03-01 12:17:44
Managed Network Mana		SUPP001	24x7 2 Hour Response	Acme Corporation	Organization	1	em7admin	2012-03-22 13:34:19
Managed Network Mana		SUPP0024	24x7 24 Hour Response	<b>M</b> QA	Organization	1	em7admin	2012-02-29 14:51:37
Managed Network Mana		SUPP001	24x7 2 Hour Response	📫	Organization	1	em7admin	2012-03-01 12:17:44
Managed Network Mana		SUPP003	24x7 4 Hour Response	<b>M</b> QA	Organization	1	em7admin	2012-02-29 14:51:37
Managed Network Mana	gement Services	SUPP0024	24x7 24 Hour Response	Acme Corporation	Organization	1	em7admin	2012-03-22 13:34:19

- **Product Class**. General category for the product. You can customize the list of entries for the product class in the **Select Objects Editor** page (System > Customize > Select Objects).
- **Product SKU**. User-defined, numeric ID for the product.
- Product Name. Name of the product.
- **Entity Name**. Name of the entity (organization, device, asset record, or network interface) that has subscribed to the product.
- **Type**. Entity type for the entity that has subscribed to the product. This column also contains an icon, where users can view additional information about the entity. Choices are:
  - Organization
  - Device
  - Asset
  - Interface
- Subscribed Quantity. Number of subscriptions associated with the entity.
- Edit User. User who created or last edited the subscription.
- Edit Date. Date and time the subscription was created or last edited.

#### Filtering the List of Product Subscriptions

The **Product Subscription Manager** page includes eight filters, in the top row in the list of subscriptions. You can specify one or more parameters to filter the display of product subscriptions. Only product subscriptions that meet all the filter criteria will be displayed in the **Product Subscription Manager** page.

You can filter by one or more of the following parameters. The list of product subscriptions is dynamically updated as you select each filter.

- For each filter except **Date Edit**, you must enter text to match against. The ScienceLogic platform will search for product subscriptions 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" would match all values that contain the string "dell" OR the string "micro".

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

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

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

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

- **Product Class**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Subscription Manager** page will display only product subscriptions that have a matching product class.
- **Product SKU**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Subscription Manager** page will display only product subscriptions that are associated with a product SKU.
- **Product Name**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Subscription Manager** page will display only product subscriptions that have a matching product name.
- **Entity Name**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Subscription Manager** page will display only product subscriptions that are associated with a matching entity.
- **Type**. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Subscription Manager** page will display only product subscriptions that are associated with a matching entity type.
- Subscribed Quantity. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Subscription Manager** page will display only product subscriptions that have a matching number of subscribers.

- User Edit. You can enter text to match, including special characters (comma, ampersand, and exclamation mark), and the **Product Subscription Manager** page will display only product subscriptions that have a matching "edited by" value.
- **Date Edit**. You can select from a list of time periods. The **Product Subscription Manager** page will display only product subscriptions that have been created or edited within that time period:
  - All. Display all subscriptions that match the other filters.
  - Last Minute. Display only subscriptions that have been created within the last minute.
  - Last Hour. Display only subscriptions that have been created within the last hour.
  - Last Day. Display only subscriptions that have been created within the last day.
  - Last Week. Display only subscriptions that have been created within the last week.
  - Last Month. Display only subscriptions that have been created within the last month.
  - Last Year. Display only subscriptions that have been created within the last year.

#### Editing a Product Subscription

You can edit a product subscription from the **Product Subscription Manager** page. To edit a product subscription:

- 1. Go to the **Product Subscription Manager** page (Registry > Business Services > Product Subscriptions).
- 2. In the **Product Subscription Manager** page, find the subscription you want to edit. Click its wrench icon (
- 3. The Product Catalog modal page appears. In this page, you can view or edit the subscription.

To learn more about the **Product Catalog** page, see the **Product Catalogs** chapter.

### **Deleting Product Subscriptions**

You can delete one or more product subscriptions from the **Product Subscription Manager** page. To do so:

- 1. Go to the **Product Subscription Manager** page (Registry > Business Services > Product Subscriptions).
- 2. In the **Product Subscription Manager** page, select the checkbox (I) for each product subscription you want to delete.
- 3. In the **Select Action** field at the bottom of the page, select DELETE Product Subscription.

#### 4. Click the **[Go]** button.

						Report	Reset Gu	ide
Product Class	Product SKU	Product Name	Entity Name	Type	Subscribed Quantity	User Edit	Date Edit	6
							AI	-
1. Managed Network Management Services	SUPP001	24x7 2 Hour Response	190A	Organization	1	em7admin	2012-02-29 14:51:37	
2. PManaged Network Management Services	SUPP002	24x7 3 Hour Response	MOA	Organization	1	em7admin	2012-02-29 14:51:37	
3. Managed Network Management Services	SUPP0024	24x7 24 Hour Response	-	Organization	1	em7admin	2012-03-01 12:17:44	- Ē
4. PManaged Network Management Services	SUPP001	24x7 2 Hour Response	Acme Corporation	Organization	1	em7admin	2012-03-22 13:34:19	
<ol> <li>Managed Network Management Services</li> </ol>	SUPP0024	24x7 24 Hour Response	<b>MOA</b>	Organization	1	em7admin	2012-02-29 14:51:37	
<ol> <li>Managed Network Management Services</li> </ol>	SUPP001	24x7 2 Hour Response	- N	Organization	1	em7admin	2012-03-01 12:17:44	
<ol> <li>PManaged Network Management Services</li> </ol>	SUPP003	24x7 4 Hour Response	<b>M</b> QA	Organization	1	em7admin	2012-02-29 14:51:37	
<ol> <li>Managed Network Management Services</li> </ol>	SUPP0024	24x7 24 Hour Response	Acme Corporation	Organization	1	em7admin	2012-03-22 13:34:19	

5. The selected subscriptions are deleted from the ScienceLogic platform.

# Generating a Report for Product Subscriptions

From the **Product Subscription Manager** page you can generate an Excel report on all product subscriptions in the ScienceLogic platform.

EM7™			Product SKU Rep	ort	
Management Systems			April 17, 2015, 3:57 am		
Report Data					
SKU Class	SKU Number	SKU Name	Element Name	Element Type	SKU I
Colocation Space	12344663	Colo Cabinet 10U		Device	80
Colocation Space	2304895775	Colo 20 Amp Power		Device	66
Colocation Space	23459087234	Colo 10 Amp Power		Device	71
Tape Backup and Storage Services	2353467567	40 GB Tape Space		Device	69
Colocation Space	259867	Colo 15 Amp Power		Device	67
Disaster Recovery / Business Continuity	34563460934	Database SQL Server DR Mirror	10.0.13.20-CTIManager	Device	74
Colocation Space	9386709087	Colo 5 Amp Power		Device	72
Remote Backup Services	BKUP-225	Bi-Weekly Differential Backup		Device	83
Remote Backup Services	BKUP-226	Monthly Differential Backup		Device	84
Remote Backup Services	HDTAKLS-21345	24 x 7 Onsite 1 Hour Response		Device	63
Managed Application Server	SRVR-MS-IIS	Managed IIS Server	10.0.13.20-CTIManager	Device	93
Managed Application Server	SRVR-MS-IIS	Managed IIS Server		Device	93
Managed Application Server	SRVR-MS-IIS	Managed IIS Server		Device	93
Managed Network Management Services	SUPP0024	24x7 24 Hour Response	HQ Data Center	Organization	89
Managed Application Server	SVC-GOLD	gold service	HQ Data Center	Organization	94

To generate a report on product subscriptions:

1. Go to the **Product Subscription Manager** page (Registry > Business Services > Product Subscriptions).

2. In the **Product Subscription Manager** page, click the **[Report]** button.

	Product Class *	Product SKU	Product Name	Entity Name	Type	Subscribed Quantity	User Edit	Date Edit	
G	Colocation Space	259867	Colo 15 Amp Power	-	Device		mjohnson	All 2013-07-09 07:18:15	
	Colocation Space	12344663	Colo Cabinet 10U		Device	1	cdoyle	2012-01-24 22:16:51	
	Colocation Space	23459087234	Colo 10 Amp Power		Device	1	mjohnson	2012-01-24 22:16:31	
	Colocation Space	2304895775	Colo 20 Amp Power	-	Device	1	michnson	2013-07-09 07:18:15	
	P Colocation Space	9386709087	Colo 5 Amp Power	-	Device	1	michnson	2013-07-09 07:18:15	
	Disaster Recovery / Business Continuity	34563460934	Database SQL Server DR Mirror	10.0.13.20-CTIManager	Device	1	ivalentine	2015-04-17 03:48:56	
	A Managed Application Server	SVC-GOLD	gold service	HQ Data Center	Organization	1	ivalentine	2015-04-17 03:49:55	
	Managed Application Server	SRVR-MS-IIS	Managed IIS Server		Device	1	michnson	2013-07-09 07:18:15	
	A Managed Application Server	SRVR-MS-IIS	Managed IIS Server		Device	1	pallen	2012-05-02 16:36:40	
	Managed Application Server	SRVR-MS-IIS	Managed IIS Server	10.0.13.20-CTIManager	Device	1	jvalentine	2015-04-17 03:48:56	
	Managed Network Management Services	SUPP0024	24x7 24 Hour Response	HQ Data Center	Organization	1	jvalentine	2015-04-17 03:49:55	
	Remote Backup Services	HDTAKLS-21345	24 x 7 Onsite 1 Hour Response		Device	1	mjohnson	2013-07-09 07:18:15	
9	Remote Backup Services	BKUP-225	Bi-Weekly Differential Backup		Device	1	mjohnson	2013-07-09 07:18:15	5
.0	Remote Backup Services	BKUP-226	Monthly Differential Backup		Device	1	michnson	2013-07-09 07:18:15	
									5
	r reinios uschup vervices 7 tape Bachup and Storage Services	2353467567	40 GB Tape Space		Device	1	mjohnson	2013-07-09 07:18:15	
					Device	i.			
					Device	i.			
					Device	i			
					Device	1			
					Device	i			
					Device	i			
					Device	i			
					Device	i			
					Device	i			
					Device	i		2013-07-09 07 16 19	
					Device	i		2013-07-09 07 16 19	
					Device	i		2013-07-09 07 18:15	5
					Device	i		2013-07-09 07 18:15	5
					Device	i		2013-07-09 07 18:15	5

3. After clicking the **[Report]** option, specify whether you want to save the report to your local computer or open the report immediately with Excel. The report will contain all the information displayed in the **Product Subscription Manager** page.

# Chapter

# **Service Usage Policies**

#### Overview

A service usage policy allows you to collect data points from multiple Dynamic Applications, each running on multiple devices. The collected data is then displayed in a graphical report. From the **Service Usage** page (Registry > Business Services > Service Usage) you can view a list of existing service usage policies, create new service usage policies, edit and delete existing service usage policies, and view reports generated by service usage policies.

For example, you could define a policy to monitor information on CPU usage, collected by a Cisco Dynamic Application. The policy could collect this data from all Cisco hardware in your network. The resulting report would show total CPU usage by all Cisco hardware.

This chapter will discuss:

- Viewing and Filtering the List of Service Usage Policies
- Creating, Editing, and Deleting a Service Usage Policy
- Viewing a Report on a Service Usage Policy

### Viewing the List of Service Usage Policies

The **Service Usage** page contains a list of all existing service usage policies. From the **Service Usage** page you can view and manage service usage policies, and create reports on individual service usage policies, among other actions. To view the list of service usage policies:

1. Go to the **Service Usage** page (Registry > Business Services > Service Usage).

2. The **Service Usage** page contains the following about each service usage policy:

			1. D. 1.		· <u>A U</u> -	_
ice Usage   Policies Found [2]				Create	Reset G	Guide
	Policy Name •	Data Source	Elements	User Edit	Date Edit	
						•
Prest Policy 1		Incremental	3 m	hussain	2011-08-30 14:19:58	đ
PTest Policy 2		Incremental			2011-08-30 15:10:55	đ
			10-1-	ct Action]		0

- Policy Name. Name of the service usage policy.
- Data Source. Default value of "incremental".
- *Elements*. Specifies the total number of data points plus the total number of devices. For example, if a policy monitors two data points on five devices, this column would contain the value "7" (seven).
- Edit User. User who created or last edited the policy.
- Edit Date. Date and time the policy was created or last edited.

#### Filtering the List of Service Usage Policies

The **Service Usage** page includes five filters, in the top row in the list of policies. You can specify one or more parameters to filter the display of service usage policies. Only service usage policies that meet all the filter criteria will be displayed in the **Service Usage** page.

You can filter by one or more of the following parameters. The list of service usage policies is dynamically updated as you select each filter.

- For each filter except **Date Edit**, you must enter text to match against. The ScienceLogic platform will search for billing policies 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

would match all values that contain the string "dell" OR the string "micro".

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

!dell

would match all values that do not contain the string "dell".

- **Policy Name**. You can enter text to match, and the **Service Usage** page will display only service usage policies that have a matching name.
- **Data Source**. You can enter text to match, and the **Service Usage** page will display only service usage policies that are associated with a matching data source.
- *Elements*. You can enter text to match, and the **Service Usage** page will display only service usage policies that have a matching number of elements.
- User Edit. You can enter text to match, and the Service Usage page will display only service usage policies that have a matching username that created or last edited the policy.
- **Date Edit**. You can select from a list of time periods. The **Service Usage** page will display only service usage policies that have been created or edited within that time period. The choices are:
  - All. Display all policies that match the other filters.
  - Last Minute. Display only policies that have been created within the last minute.
  - Last Hour. Display only policies that have been created within the last hour.
  - Last Day. Display only policies that have been created within the last day.
  - Last Week. Display only policies that have been created within the last week.
  - Last Month. Display only policies that have been created within the last month.
  - Last Year. Display only policies that have been created within the last year.

#### Creating a Service Usage Policy

You can create a new service usage policy from the Service Usage page. To create a new service usage policy:

- 1. Go to the **Service Usage** page (Registry > Business Services > Service Usage).
- 2. In the Service Usage page, click the [Create] button in the upper right of the page.

3. The Service Usage Editor page appears. Supply values in the following fields:

Create Policy Clo	ose / Esc
Add Policy   Create New Re	set
Policy Name	
Dynamic Application - Presentation	
. TID 4909 System Event        Entity Description         Alteon: Load Trending        ARP Entries        Concurrent Connections Per Port        Connection Rate Per Virtual Server        Port Bindings        Real Server Current Sessions         APC: Environmental T/H        Humidity	•
Selected Devices	
<i>Default</i> ∟None	*
Selected Devices	
Save	-

- Policy Name. In this field, enter the name of the service usage policy.
- **Dynamic Application-Presentation**. This field displays a list of SNMP performance Dynamic Applications that are currently being used to monitor one or more devices or applications. The field also displays the data points included in these Dynamic Applications. In this field, you must select a data point to monitor.
- **Selected Devices**. This field displays all the devices using the Dynamic Application and data point you selected in the previous field. Select one or more devices to collect data from.
- Data Source. By default, contains "Incremental".
- 4. Click the **[Save]** button to save the service usage policy. Clicking the **[Reset]** button will clear the values in each field.

## Editing a Service Usage Policy

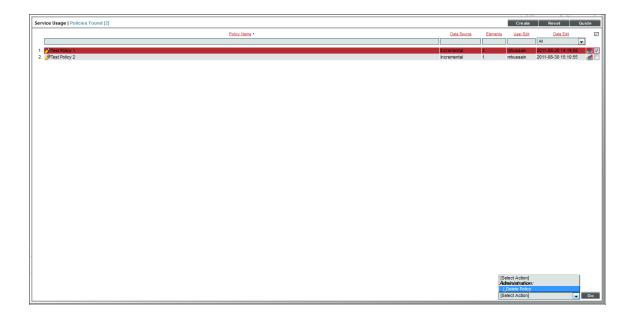
You can edit existing service usage policies from the Service Usage page. To edit an existing service usage policy:

- 1. Go to the **Service Usage** page (Registry > Business Services > Service Usage).
- 2. In the **Service Usage** page, find the policy you want to edit. Click its wrench icon (*\**).
- 3. The **Service Usage Editor** page appears, where you can edit one or more of the values described above in the section **Creating a Service Usage Policy**.
- 4. To save your changes, click the **[Save]** button. To discard your changes and reset each field to its previous content, click the **[Reset]** button.

#### Deleting a Service Usage Policy

You can delete all, multiple, or an individual service usage policy from the **Service Usage** page. To delete one or more service usage policies:

- 1. Go to the **Service Usage** page (Registry > Business Services > Service Usage).
- 2. In the Service Usage page, find the policy or policies you want to delete.
- 3. Select the checkbox for each policy you want to delete. If you want to select all service usage policies, select the checkmark (
- 4. In the Select Action drop-down, select Delete Policy.
- 5. Click the **[Go]** button. The policy or policies will be deleted.



### Viewing a Report on a Service Usage Policy

You can view a report an existing service usage policy from the **Service Usage** page. To view a report on a service usage policy:

- 1. Go to the **Service Usage** page (Registry > Business Services > Service Usage).
- 2. In the **Service Usage** page, find the service usage policy for which you want to view a report. Click its bar graph icon (**dff**) to the right of the page.
- 3. The Service Usage Report page appears and displays the following information:

Options Re	port	Service Usage Report   New Policy	y 2	Reset Guide
400,000				
350,000				
300,000				
250,000				
200,000				
150,000				
100,000				
50,000				
0				
	06:00		12:00	
	Apr 17	12:00	Apr 18	12:00
Currently Visible:	04/18/2012 04:27 - 04/18/2012 16	8.27	Range: 6 H	iour 12 Hour 1 Day Max Range
Date Range Selec	Data Type/Label	Graph Type Trend Mouse-over	Min Max	Missed Avg Polls
Start 04/16/2012 16	Average lise	line 💌 🗸	0 3	899,980 88,257 0
End 04/18/2012 16				
Presets Set				

- The y-axis displays the average value of the data point(s).
- The x-axis displays time. The increments vary, depending upon the selected data type (from the **[Options]** menu) and the date range (from the **Date Range Selection** pane).
- Mousing over any point in any line displays the high, low, and average value at that time-point in the **Data Table** pane.
- You can use your mouse to scroll the report to the left and right.
- In a graph of normalized data, clicking on a data point zooms in on that time period and shows the non-normalized data.

# Example

# **Creating a Bandwidth Billing Report**

#### Overview

This example describes how a service provider might configure the ScienceLogic platform to create bandwidth billing reports for a customer.

To create a bandwidth billing report in the ScienceLogic platform, you must perform the following tasks:

- 1. Define product SKUs for each type of bandwidth billing structure used by your organization, or use existing product SKUs.
- 2. Configure the network interfaces that will be used in the bandwidth billing policies. To use an interface in a bandwidth billing policy, the ScienceLogic platform must be configured to collect bandwidth statistics for the interface every five minutes.
- 3. Define one or more bandwidth billing policies.
- 4. Generate the Interface Billing report that includes the bandwidth billing policies that you created. You can optionally configure the platform to generate the report on a set schedule.

The following sections describe how to perform each of these steps.

### Creating a Product SKU

To define a bandwidth billing policy, you must first define product SKUs for each type of bandwidth product, or use existing product SKUs in the ScienceLogic platform.

Product SKUs can be associated with organizations, devices, assets, or interfaces. Product SKUs allow you to track and bill customers for products and services rendered, such as bandwidth billing. Product SKU's can be viewed, edited, and created in the **Product Catalog** page (Registry > Business Services > Product Catalog). When you associate a product with an organization, device, asset, or interface, that product/element pair appears in the **Product Subscription Manager** page (Registry > Business Services > Product Subscriptions). This section describes how to create a Product SKU that a service provider is most likely to use.

To create the example Product SKU:

- 1. Go to the **Product Catalog** page (Registry > Business Services > Product Catalog).
- 2. Click the [Create] button and the Edit Product modal page appears.
- 3. In this example, the customer is billed based on the 95th percentile value of inbound and outbound bandwidth. To configure the example Product SKU, supply values in the following fields:
  - **Product Name**. Enter a name for the Product SKU. For this example, the product SKU is named Accumulative 95th Percentile Mega = 1000000.
  - **SKU Identifier**. Enter a short identifier for the Product SKU. For this example, the identifier is *BW*-A95P-1000.
  - **Product Class**. Select the type of service this Product SKU represents. You can add a new product class by clicking the red plus icon. The example SKU is for dedicated Internet access; select Dedicated Internet Access Service from the drop-down list.
  - Addendum/Description. Optionally enter description of the product SKU.
  - For Entity Type. To use a Product SKU with a bandwidth billing policy, you must select Interface from this drop-down list. After selecting Interface, the fields Interface Service Type and Interface Percentile Rate will appear.
  - Interface Service Type. The example the policy will bill the customer based on inbound and outbound bandwidth in Megabits, with Megabits defined as 1000000 bits. Select Mega = 1000000: Percentile: In & Out in this drop-down list.
  - Interface Percentile Rate. The value you select in this field determines the single bandwidth usage reading that will be used to calculate the cost to the customer. Most services bill customers based on the bandwidth usage reading at the 95th percentile. For this example, select 95%. If your organization uses a different bandwidth usage reading to calculate cost, you can select from 50% to 100% or Disabled.

Edit Product   Request complete   Editing Product [93]	New Reset
Product Name Accumulative 95th Percentile Mega = 1000000	SKU Identifier BW-A95P-1000
Product Class	Addendum / Description
[Dedicated Internet Access Service ]	
Interface Service Type	For Entity Type
[Mega=1000000: Percentile: In & Out ]	[Interface]
Interface Percentile Rate	
[95%]	
Save	Save As

4. Click the [Save] button to save the Product SKU, which can now be used in a bandwidth billing policy.

## **Configuring Network Interfaces**

By default, the ScienceLogic platform collects usage data from network interfaces every 15 minutes. However, bandwidth billing in the platform requires a shorter polling interval of 5 minutes. Collection intervals can be adjusted on one or more interfaces in the **Network Interfaces** page (Registry > Networks > Interfaces).

To change the collection interval for multiple interfaces:

- 1. Go to the **Network Interfaces** page (Registry > Networks > Interfaces).
- 2. Select the checkbox for each interface for which you want to change the collection interval. You can use the fields at the top of each column to filter the list of interfaces. For this example, the list of interfaces is filtered to include only interfaces on a device called "Aphrodite".
- 3. In the **Select Action** drop-down list at the bottom-right of the page, select Every 5 Min. in the Collection Frequency section.

**CAUTION**: After you create a bandwidth billing policy, the platform will not prevent a user from changing the *Collection Frequency* setting for the associated interfaces. If the collection frequency of an interface that is already included in a bandwidth billing policy is changed, the platform will calculate incorrect bandwidth billing data.

- Interfaces | Interfac
- 4. Click the **[Go]** button.

When you create a Bandwidth Billing policy, the **Available Interfaces** field will display a list of all interfaces with a collection frequency of 5 minutes.

1

**NOTE:** The Interface Billing report supports multi-tenancy. For users of type "user", this means that the Interface Billing report will only display interfaces that are included in the bandwidth billing policies that the user is allowed to view, and interfaces that are aligned with the same organization as the user or has an Emissary setting that allows the user to view the interface.

## Creating a Bandwidth Billing Policy

For this example, the service provider guarantees each customer a specified throughput speed and bills each customer based on incoming and outgoing bandwidth usage. A bandwidth billing policy specifies the product SKU to use for billing, the interfaces used by the customer, and the cost for using the bandwidth. In this example, the bandwidth billing policy includes two interfaces. For each bandwidth billing policy, the ScienceLogic platform creates a virtual interface. A virtual interface is used to record the combined bandwidth usage for all the interfaces included in the associated bandwidth billing policy.

To create a bandwidth billing policy, perform the following steps:

- 1. Go to the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing).
- 2. Click the [Create] button. The Bandwidth Billing Editor page is displayed.
- 3. Supply values in the following fields:
  - **Organization**: Select the organization associated with the customer to be billed. Users of type "administrator" can select from a list of all organizations in the platform. Users of type "user" can select from a list of all organizations of which they are a member.
  - Policy Name: Enter a name for the policy, for example, "Acme Widgets: Bandwidth Usage".
  - **Product SKU**: Select a Product SKU to associate with the bandwidth billing policy. To use the example Product SKU described in the Creating a Product SKU section, selectBW-A95P-1000: Accumulative 95th Percentile Mega = 1000000. The customer will be billed based on inbound and outbound bandwidth for all applicable interfaces. Billing is calculated using the percentile point specified in the **Interface Percentile Rate** field, which in this case is the 95th percentile. A Megabyte will be measured as 1000000 (one million) bytes.
  - *Filter Interface*: You can use this field to search for interfaces by device name, organization, interface name, interface alias, or interface description.
  - Available Interfaces: Select which interfaces to align with the bandwidth billing policy. You can select one or more interfaces. This example includes two interfaces: 2612 BR0/0 BR10/0, and Aphrodite \*\*\*\*\*\*\*\*Peoria Chiefs\*\*\*\*\*\*\*\* Serial 1/2.

In this example, the two selected interfaces are located on separate routers. The first interface, 2612 BR0/0 BR10/0, is active, while the second interface, Aphrodite \*\*\*\*\*\*\*Peoria Chiefs\*\*\*\*\*\*\* Serial 1/2, acts as a failover interface and typically remains dormant. The second interface is used only if the first interface should fail. By including both interfaces in the bandwidth billing policy, no additional steps need to be taken during the billing process to account for failover. When the policy is saved, the ScienceLogic platform creates a virtual interface, which acts as a container for the customer's bandwidth usage information.

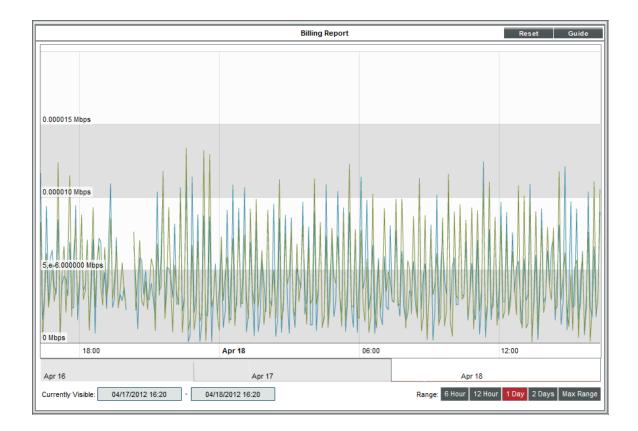
- **Bill On**: Select a specific day of the month on which the customer will be billed. For this example, select 1st Day to bill the customer on the first day of each month.
- **Base Commitment**: Amount of base bandwidth/transfer specified in the customer's contract. For example, enter "1.5". In this example, the unit of measurement specified in the Product SKU is Megabits per second, so "1.5" represents, for 1.5 Megabits per second.
- Base Rate Per Unit: Enter the cost per unit for bandwidth specified in the Base Commitment field. This figure is always based on a unit of 1. For example, enter "100", which represents \$100 per Megabit.
- Overage Rate Per Unit: Enter the cost per unit when the customer exceeds the bandwidth specified in the **Base Commitment** field. For example, enter "130", which represents \$130 per Megabit overage.

reate new policy	Close / Es	c
Editing Policy [19]	nterfaces(s) Linked [2] Rese	t
Organization	[System]	
Policy Name	Acme Widgets: Bandwidth Usage	
Product SKU	[BW-A95P-1000: Accumulative 95th Percentile Mega = 1000000]	Ŧ
Filter Interfaces	[Device Name is like] 🔽 Filter Clear	
Available Interfaces [ 5 min. collection ]		4
Aligned Interfaces [ 5 min. collection ]	2612   BR0/0   BRI0/0 Aphrodite	
Bill On	[1st Day] of Each Month	
Base Committment	1.5 Committed Transfer (10 = 10GB or 10 Mbps)	
Base Rate Per Unit	100 Example (\$100.00 per GB or Mbps)	
Overage Rate Per Unit	130 Example (\$100.00 per GB/Mbps overage)	
	Save	

4. Click the **[Save]** button to save the policy.

The Bandwidth Billing policy appears in the **Bandwidth Billing Policies** page (Registry > Business Services > Bandwidth Billing). To view the bandwidth usage data associated with the virtual interface for the bandwidth billing

policy (the combined bandwidth usage of all interfaces associated with the policy), click the graph icon (<sup>111</sup>) for the bandwidth billing policy. When you click the graph icon, the **Billing Report** page is displayed:



# Viewing the Bandwidth Billing Report

To generate a Bandwidth Billing Report for Acme Widgets: Bandwidth Usage:

- 1. Go to the **[Reports]** tab.
- 2. In the **Run Quick Report** field, select Interface Billing, version 1.2.
- 3. In the **Policy Selection** pane, de-select the **All Policies** checkbox, and then select "System" from the Organizations list.
- 4. Also in the **Policy Selection** pane, select the **Select Individual Policies** checkbox, and then select the Acme Widgets: Bandwidth Usage policy.
- 5. In the **Report Span** pane, select Monthly, and leave the **Starting** and **Duration** fields as This month and 1 month, respectively.

6. In the **Output format** field, select Web page (.html).

Run Quick Report Interface Billing, version 1.2		Edit Reset Guide
Policy Selection Policy Selection Official Fields Organizations Organizations Organization Organization Solutions Polices by Organization Polices Biological Biolo	Report Span ○ Day Weeky Weeky <u>The month</u> ▼ <u>10212</u> / <u>Mar</u> / <u>1</u> → <u>Duration</u> <u>1month</u> ▼	
Output format: Web page (html)		Generate

7. Click the **[Generate]** button. The report will open in a new tab in the browser.

	i. Sc	ience	eLo	ogic																	Billing Period Policies	Oct 2014 Selected Policies
Policy Name Acme Widgets:	Organization	Department	Billing ID		Calculated On 2014-10-23		Polls Analyzed	Interfaces		Bill Period		Billing End Date 2014-10-31	Measurement Type Accumulative 95th Percentile	Base Rate	Base Commitment	Base Amount	Actual Usage	Usage Units	Net Overage	Overage Rate	Overage Amount	Total Amount Due
Bandwidth Usage [1]	System	Customer Service	μ	BW-A95P-1000	2014-10-23	Complete		2	0 MB		2014-10-01	2014-10-31	Mega = 1000000	\$100	15	\$150		Мврі	0	130	\$0	\$150

#### Bandwidth Billing Calculations

The report includes the following three dollar amounts for each selected bandwidth billing policy:

- Base Amount (\$)
- Overage Amount (\$)
- Total Bill (\$)

To calculate these values, the report used the data collected for the virtual interface associated with the bandwidth billing policy, and the values from the following fields in the product SKU and bandwidth billing policy:

- Bill On (from billing policy). This value is used to adjust the time period for the policy data.
- **Base Commitment (from billing policy)**. After the bandwidth usage for the time period is calculated, this value is used to calculate the **Base Amount (\$)** value.
- Base Rate Per Unit (from billing policy). After the bandwidth usage for the time period amount is calculated, this value is used to calculate the **Base Amount** (\$) value.
- Overage Rate Per Unit (from billing policy). After the bandwidth usage for the time period amount is calculated, this value is used to calculate the Overage Amount (\$) value.
- Interface Service Type (from SKU). This value is used to calculate the total amount of bandwidth the customer is billed for.
- Interface Percentile Rate (from SKU). This value is used to calculate the total amount of bandwidth the customer is billed for.

To calculate the billing amounts, the following calculations are performed when the report is generated:

- 1. The report calculates the time period for each policy:
  - If a report span of one month was selected in the report input form, the time span is adjusted based on the *Bill On* value defined in the billing policy. If the *Bill On* value is between 2 and 28, the report adjusts the start and end times forward so that the time span starts on the correct day. For example, if on the report input form, you select *Last Month* as the time span and a billing policy has a *Bill On* value of 3, the time span used by the report for that policy will start at the beginning of the 3rd day of last month and end at the end of the 2nd day of the current month. The time span for a policy is not adjusted if the bill on value is less than 2 or greater than 28.
  - If the time span for a billing policy is not adjusted, the time period used by the report is the time span that you specified in the input form.
- 2. The report calculates the total amount of bandwidth the customer is billed for. For Interface Service Types of "Committed Transfer", this amount is the total amount of inbound and outbound bandwidth used for the entire billing period, i.e. the sum of all collected inbound and outbound values. For the other Interface Service Types, the calculation of this value is based on the collected data for a single poll. First, the report calculates a value for each poll during the time span. The value is different for each Interface Service Type:
  - **Percentile In & Out**: The value for each poll is the combined inbound & outbound utilization, measured in the units specified in the SKU.

- **Percentile Inbound**: The value for each poll is the inbound utilization, measured in the units specified in the SKU.
- **Percentile Outbound**: The value for each poll is the outbound utilization, measured in the units specified in the SKU.
- **Percentile: Highest Poll**: The value for each poll is either the inbound utilization or the outbound utilization, whichever is higher, measured in the units specified in the SKU.
- 3. For *Interface Service Types* other than "Committed Transfer", the report orders the data for each poll from the lowest value to the highest value. The value at the percentile specified in the Interface Percentile Rate specified in the SKU is selected. For example, if there were 100 polls during the time period specified in the report, the values would be ordered with the lowest value at position 1 and the highest value at position 100. If the *Interface Percentile Rate* specified in the SKU is 95%, the report would select the value at position 95.

**NOTE**: When the percentile option is selected, the **Billing Report** performance graph displays a calculated value at each percentile point. The Interface Billing report uses the actual reading that is closest to the 95th percentile to calculate billing values.

- 4. The report now uses either the total amount of inbound and outbound bandwidth used (for "Committed Transfer" *Interface Service Types*) or the single selected value (for other *Interface Service Types*) as the calculated bandwidth usage. The calculated bandwidth usage is used to calculate three dollar amounts:
  - Base Amount (\$) = Base Commitment defined in billing policy \* Base Rate defined in billing policy
  - Overage Amount (\$). If the calculated bandwidth usage is less than the base commitment, this value is 0. If the calculated bandwidth usage is greater than the base commitment, this value equals: (calculated bandwidth usage base commitment) \* overage rate defined in policy
  - Total Bill (\$) = Base Amount + Overage Amount

### Scheduling a Bandwidth Billing Report

To schedule a report in the ScienceLogic platform, you must:

- Create a report job, which stores the options and parameters of the report.
- Add the report job to the schedule.

This section describes both of these tasks.

#### Creating a Report Job

You can define a report job in the **Report Jobs** page (Reports > Create Report > Report Jobs). From this page, you can create a report job, run a report job, edit a report job, or delete a report job. To create a report job:

- 1. Go to the **Report Jobs** page (Reports > Create Report > Report Jobs).
- 2. Click the [Create] button in the upper right of the page. The Report Job Editor page appears.

- 3. The **Report Job Editor** page contains fields where you can select the parameters of the report job. The fields are:
  - Job Title. Provide a title for the report job. For this example, enter Billing Report for Sales.
  - **Run as User**. Specify a user that the report will run for. When the report is generated this user's organization restrictions will be used. This is helpful when a system administrator is setting up a scheduled report for a user who does not have access to the Report Scheduler and who may have access only to the entities in his/her organization. Therefore, it is best practice to select the user account for the customer you are generating the report for. For more information on organization restrictions, see the **Access Permissions** manual.
  - **Report Definition**. Select a custom report to run. The drop-down list will display all custom reports in the system. For this example, select *Interface Billing*, version 1.2.
  - Job Recipients. Select the users, external contacts, and vendors to send the report to. For this example, select a user account or external contact associated with the customer's organization. To add job recipients to the report job:
    - Select the Job recipients field. The Recipient Selector modal page appears. In the Matched Recipients list, select the checkbox in the Action column for the user you want to send the report to.
    - Click the [Add/Remove] button in the bottom right of the page to add the selected user(s).
  - Job Type. How the platform will deliver the report. For this example, select *Email & Archive (Deliver to EM7 Inbox)*. When the scheduled report is generated, the platform will send it to the Inbox of all users you selected in the *Job Recipients* field; send the report to the email address for all users, external contacts, and vendors you selected in the *Job Recipients* field; and archive the report in the **Scheduled Report Archive** page (Reports > Create Report > Report Archive).
  - **Delivery Method**. Specifies the method of delivery and the output format for the report. For this example, under Attachment select Microsoft Excel 97/2000/XP Spreadsheet (.xls).
  - **Report Options**. The interface for the selected report appears in this pane. Select the options you want included in the automatically generated report. These options are limited by the Access Keys aligned with your ScienceLogic system account and the organization memberships aligned with your account. For this example, supply the report options that you entered when you followed the steps listed in the Viewing the Bandwidth Billing Report section.

4. To save the report job you created, click the **[Save]** button in the bottom right of the page.

Report Job Editor				Reset
Job Options Job Title Billing Report for Sales Run As User [em7admin] Report Definition Interface Billing, version 1.2				yyy     Add       Delivery Method       Microsoft Excel 97/2000/XP Spreadsheet (
Report Options  Policy Selection  All Policies  Organizations  Org 2 Science Logic System Test Org Select Individual Policies Policies by Organization  Test policy [1]	Optional Fields Ø Organizatio Ø Departmen Ø Billing ID Ø SKU Numb Ø Calculated Ø Calculation Ø Polls Analy Ø Number of Ø Total Mega Ø Total Mega Ø Bill Period Ø Billing End Ø Billing End	on t er On Status rzed Interfaces bytes In bytes Out t Date Date	Report Span Daily Weekly Monthly Starting This month 2013 / Aug / 1 Duration 1 month Timezone UTC	▼ ▼ ■

#### Scheduling the Report Job

After a report job has been created, you can schedule the report to run automatically. Scheduled reports are automatically generated by the ScienceLogic platform either once, at a specified time, or at specified regular intervals. You can select the day and time the Report Job runs, the recurrence of the Report Job, if necessary, and save these parameters in a calendar to view and edit later. To schedule a Report Job for this example:

- 1. Go to the **Report Scheduler** page (Reports > Create Report > Scheduler).
- 2. The **Report Scheduler** page is divided into two parts:
  - The right side displays a calendar where you can view scheduled report
  - The left side includes buttons that control the display of the calendar on the right side.
- 3. To schedule a Report Job, select the day you want to schedule the report. You can do this by selecting the day from the large or small calendar, or by clicking the **[day]** button if you want to schedule the Report Job for the current day. For this example, select the first day of the month.
- 4. After you have selected a day, the calendar will display an hourly view. You can select the scheduled report to run at the beginning or half mark of the hour by clicking at the top or bottom of the desired hour, or you select the entire hour or multiple hours by clicking and dragging the mouse. For this example, select 9:00 a.m.

- 5. After selecting the time of the report, the **Schedule Report Instance** page appears. Define the following fields:
  - **Event Color**. Select from a range of colors in the drop-down list. The report name will now appear in the selected color in the calendar. Leave the color as the default black for this example.
  - Launch Event. Select the date and time to generate the report. By default, the date and time are set as the date and time you selected in the calendar views, which in this example are 04/01/2012 and 9:00.
  - **Recurrence**. Specifies whether the report is recurring or not. Select by *interval* and then select 1 in the every number field and months in the every *interval* field to make the report recur once every month.
  - **Recur Until**. If you specified that the event is recurring, this field appears. This field specifies the amount of time for which the report will recur. You can select *no limit* or specified date. If you select specified date, you must enter a date in the date field to the right.
  - **Report Job**. Select the Billing Report for Sales report job you created in the Creating a Report Job section.
  - **Report Instance Name**. Supply a name for the scheduled report. For this example, input the same name as the report job: *Billing Report for Sales*.
  - **Report Instance Description**. Supply the description of the scheduled report, e.g. "Monthly billing report for the customer".

Schedule Report Instanc	e
Launch Event	04/01/2012         Image: 9         ↓         ↓         0         ↓
Recurrence:	by interval V every 1 🔹 months V
Recur Until:	💿 no limit 🛑 specified date
Report Job	Billing Report for Sales
Report Instance Name:	Billing Report for Sales
Report Instance Description:	
	Cancel Save

6. To save the scheduled report, click the **[Save]** button. If you want to cancel the scheduled report, click the **[Cancel]** button.

7. If you click **[Save]**, the scheduled report will appear in the calendar at the time it is scheduled to occur:

leport Scheduler		Reset Guid
Today >> Showing: April 2012	8 am	
month week day	9 am	8 am Biling Report for Salee
April 2012	10 am	
S M T W T F S	11 am	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	12 pm	
15         16         17         18         19         20         21           22         23         24         25         26         27         28	1 pm	
29 30	2 pm	
	3 pm	
	4 pm	
	5 pm	
	6 pm	
	7 pm	
	8 pm	
	9 pm	
	10 pm	

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