

Creating a Tiered Service Offering

ScienceLogic version 8.4.2

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Chapter

Creating a Tiered Service Offering

Overview

This manual describes how a service provider might configure SL1 to offer their customers a managed service for the devices that are hosted by the provider or on a customer site. In this example, there are three initial configuration steps:

- 1. Creating Product SKUs
- 2. Creating Device Templates
- 3. Creating User Policies

After performing the initial configuration, you can provision a new customer by:

- 1. Creating an Organization record.
- 2. Aligning Product SKUs to the Organization record.
- 3. Creating and running a Discovery Session that includes the appropriate device template.
- 4. Creating a user account for the customer.

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

- To view a pop-out list of menu options, click the menu icon (三).

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Levels of Service

In this example, customers will be offered three tiers of service:

- Bronze, which includes the availability and latency monitoring that SL1 automatically performs for every device.
- Silver, which includes additional monitoring capabilities, including CPU, physical memory, file system and interface statistics collection.
- Gold, which includes more frequent Interface statistics collection and additional, device/application specific, collection. For example, gold-level monitoring for an Apache Web Server might include:
 - Port monitoring policies for ports 80 and 443.
 - A web content verification policy.
 - A system process monitoring policy for the "httpd" process.

Steps to Configure the Tiered Service

This manual describes the following steps for creating and offering the example service:

- Creating Product SKUs. In SL1, product SKUs are used to track the products and services that are
 associated with the devices, organizations, interfaces, and assets in the system. In this example, a product
 SKU is created for each type of device for each level of service. For example, this example includes a product
 SKU for "Gold Level Apache/Linux Server Monitoring". When a new customer is provisioned, the product
 SKUs for the services that they subscribed to are manually aligned with that customer's organization record.
- 2. Creating Device Templates. In SL1, device templates are used to save a set of parameters for monitoring a device. For example, a device template can specify the availability protocol, interface monitoring settings, and device/application-specific monitoring settings for a device. The device template can then be used to reconfigure multiple devices or device groups, or to specify the initial configuration for all devices discovered using a specific discovery session. In this example, a device template is configured for each type of device for each level of service. For example, this example includes a device template for "Gold Level Apache/Linux Web Servers". When a new customer is provisioned, the appropriate device template is selected in the discovery session(s) that will discover that customer's devices. If you select a device template in a discovery session, all monitoring settings in the device template are automatically applied to each discovered device.
- 3. **Creating User Policies**. In SL1, user policies allow you to define a set of user account properties and permissions to re-use for multiple user accounts. When you create a user account, you can use a user policy to quickly apply settings to the new user account. User policies have a dynamic relationship with their member user accounts. When you make a change to a user policy, the user accounts associated with that user policy are automatically updated. In this example, a single user policy is defined that grants customer-level access to the system. When a new customer is provisioned, the user policy is used to create a user account for the new customer.
- 4. **Provisioning a New Customer**. The following provisioning process is used in this example:

- An organization is created for the customer.
- The product SKUs for the services the customer subscribed to are aligned with the organization. Because each product SKU in this example specifies a service level and a type of device, a customer could subscribe to a different service level for each type of device. For example, a customer might subscribe to gold service for their MySQL Database Servers and silver service for their Apache/Linux Web Servers.
- A discovery session is created for each type of customer device. For example, one discovery session that includes all the customer's Apache Web Servers, one discovery session that includes all the customer's MySQL Database Servers, etc. The appropriate device template is selected based on the product SKU's listed in the customer's organization record.
- A user account is created for the customer. The pre-configured user policy is used to create the user account.

NOTE: This manual describes how to provision devices manually. You could configure an automatic provisioning process using the ScienceLogic API.

Chapter

2

Configuring Product SKUs

Overview

In SL1, product SKUs are used to track the products and services that are associated with the devices, organizations, interfaces, and assets in the system. In this example, a product SKU is created for each type of device for each level of service. For example, this example includes a product SKU for "Gold Level Apache/Linux Server Monitoring". When a new customer is provisioned, the product SKUs for the services that they subscribed to are manually aligned with that customer's organization record.

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

- To view a pop-out list of menu options, click the menu icon (三).

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Creating a Product SKU

To create a product SKU for this example, perform the following steps:

- 1. Go to the **Product Catalog** page (Registry > Business Services > Product Catalog).
- 2. Select the **[Create]** button in the top right of the page.
- 2. The Add Product page appears.
- 3. In the Add Product page, enter values in the following fields. See the Example Product SKU Definitions for section for a list of example values:
 - Product Name. Name of the product. For example, "Bronze Level Apache Web Server Monitoring".
 - **SKU Identifier**. A numeric identifier for the product based on your business requirements and processes.
 - **Product Class**. Description of the type of product. System administrators can select the plus icon or 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.
 - For Entity Type. The element for which you are creating a product. In this example, product SKUs are associated with customer organizations. Select Organizations in this field.
- 4. Select the **[Save]** button to save the new product SKU.
- 5. Optionally, you can track the cost for each service by entering values in the following fields and then selecting the **[Save]** button again:
 - **Non-Recurring Cost**. Any initial, non-recurring cost associated with the product. Can be up to 12 characters in length.
 - Monthly Recurring Cost. Monthly recurring cost associated with the product.

Example Product SKU Definitions

The following table lists example values for product SKUs that match the device templates described in **Configuring Device Templates**:

Product Name	Product Class	SKU Identifier	Addendum/Description
Bronze-Level Monitoring	Managed Network Management Services	BRNZ-ALL	Bronze: All Devices
Silver-Level Net-SNMP Monitoring	Managed Network Management Services	SILV-NETSNMP	Silver: Net-SNMP
Gold-Level Apache/Net- SNMP Monitoring	Managed Network Management Services	GOLD-APACHE	Gold: Apache/Net-SNMP

Chapter



Configuring Device Templates

Overview

In SL1, device templates are used to save a set of parameters for monitoring a device. For example, a device template can specify the availability protocol, interface monitoring settings, and device/application-specific monitoring settings for a device. The device template can then be used to reconfigure multiple devices or device groups, or to specify the initial configuration for all devices discovered using a specific discovery session.

In this example, a device template is configured for each type of device for each level of service. For example, this example includes a device template for "Gold Level Apache/Linux Web Servers". When a new customer is provisioned, the appropriate device template is selected in the discovery session(s) that will discover that customer's devices. If you select a device template in a discovery session, all monitoring settings in the device template are automatically applied to each discovered device.

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

- To view a pop-out list of menu options, click the menu icon (三).

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Device Templates for a Monitoring Service

To create device templates for your monitoring service, you need to determine:

- The levels of service that you want to offer and the monitoring capabilities that you want to include at each level.
- The types of devices that will be monitored. For a level of service, you might need to create a device template for each type of device. For example, if you include TCP/IP port monitoring with a particular level of service, you would need to create a device template for web servers (ports 80 and 443), mail servers (port 25), MySQL servers (port 3306), etc.

TIP: Try discovering some test devices to determine which Dynamic Applications, TCP/IP ports, system processes, Windows services, and other monitoring options are applicable for each type of device.

For the bronze level of service in this example, which includes availability and latency monitoring, no device template is required. To monitor availability and latency without collecting other statistics, e.g. interface, file system, CPU, and physical memory utilization, you can discover a device using only the ICMP (ping) protocol. For an example of how to create a discovery session that discovers devices using only the ICMP protocol ("pingable" devices), see *Provisioning a New Customer*.

The following sections describe how to configure the silver level and gold level templates for this example.

Example Silver-Level Net SNMP Template

In this example, the following monitors are included in the silver-level service:

- Availability and Latency statistics. SL1 will automatically perform these collections for all devices.
- File system utilization statistics. If an applicable device is discovered using SNMP, SL1 will automatically perform file system collection every 5 minutes.
- Interface utilization statistics. If an applicable device is discovered using SNMP, SL1 will automatically perform interface collection every 15 minutes.
- CPU utilization statistics. In SL1 systems, this collection is performed using Dynamic Applications. Dynamic Applications are customizable policies that tell the system what data to collect from devices, how to present that data, and when to generate alerts based on the data.
- Memory utilization statistics. In SL1 systems, this collection is performed using Dynamic Applications.

For a tiered service, you will want to limit what is monitored on each device; therefore, this example disables automatic alignment of Dynamic Applications during initial discovery. Instead, the Dynamic Applications for CPU and Memory utilization statistics are applied using a device template. This section describes how to configure a silver-level device template for devices that support Net-SNMP, which includes most Linux and Solaris devices.

To configure the example silver-level device template for Net-SNMP devices, perform the following steps:

- 1. Go to the **Configuration Templates** page (Registry > Devices > Templates) page.
- 2. Select the [Create] button. The Device Template Editor page is displayed:

Device Template Editor Co	onfig Template	Settings (Click fie	ld labels to e	enable/disable the	em)				New	Reset
	Templa	te Name								
Config In	terface	CV Policies	Port Po	licies S	vc Policies	Proc Policies		Dyn Apps	Logs	
Access & Monitoring								Device Preferences	5	
Device Organization	AWs		\sim					Auto-Clear Events	Sca	n All IPs
SNMP Read	c0sm0s (Longe	r Timeout)	\sim	SNMP Write	None		\sim			
Availability Protocol	TCP		\sim	Avail Port	ICMP		\sim	Accept All Logs	Dynami	c Discovery
Latency Protocol	TCP		\sim	Latency Port	ICMP		\sim			
Avail+Latency Alert	Disabled		\sim					Daily Port Scans	Preserv	e Hostname
Collection	Enabled		\sim	Collector Grp	CUG-Core 1-CC	S5-mysql56-phc	\sim			
Coll. Type	Standard		\sim					Auto-Update	Disable A	sset Update
Critical Ping	Disabled		\sim					Bypass Interface		
Event Mask	Disabled		\sim					Inventory		
Device Retention & Basic										
System La	tency	1	-	100 ms	Daily Rollup Ban	Data	1		30 days	^
					Hourly Bandwidt	Rollup h Data	1	1	20 days	
Availabililty Packe	t Size	1	-	56 bytes	Raw Perfor	Data	1		7 days	
Availability Ping	Count	1	1	1 pings	Daily Performanc	Rollup	I		30 days	~
Interface Inventory Settin										
	rimeout	I	60	0000 ms		Allowed in the second s	1	10	1000 interface	IS
<u> </u>				Save	Save As					

By default, all fields in the **[Config]** tab are disabled and will not be modified for the devices to which the template is applied.

- 3. For a tiered service, you will want to limit what is monitored on each device. By default, the system will automatically attempt to align Dynamic Applications with each discovered device during nightly autodiscovery. To disable nightly auto-discovery for the devices to which this template is aligned, enable the following fields by selecting the field name:
 - Dynamic Discovery
 - Auto-Update

When you enable each field, they are unchecked by default. Un-checking these checkboxes for a device disables nightly auto-discovery for that device.

For this example, all the other fields in the **[Config]** tab are left disabled. During discovery, SL1 will supply appropriate default settings in these fields.

4. To configure the Dynamic Applications that will be aligned to the devices to which this template is applied, select the **[Dyn Apps]** tab.

Device Template Editor Editing Dynam	ic Application Subtemplates (Click field labe	Is to enable/disable	them)		New	Reset
Tem	plate Name					
Config Interface	CV Policies Port Policies	Svc Policies	Proc Policies	Dyn Apps	Logs	
Subtemplate Selection Add New Dynamic App Sub-Template	Template Application Behavior All devices (align new applications and update		amic Application With			
	Dynamic Application Settings	Dyn	amic Application			
	Alteon: Load Trending					\sim
	Default SNMP credential	dentials		V Every 15 Min	Poll Rate utes	\sim
		Dynamic Applica	ation Presentation Object	t(s)		
	Real Server Current Sessions	Enabled Ena				
	Dynamic Application Thresholds Rew Data Retention Daily Rollup Retention Hourly Rollup Retention	4		90 days 730 days 365 days		< >

- 5. In the Subtemplate Selection pane, select Add New Dynamic App Sub-Template.
- 6. In the *Align Dynamic Application With* field, select *All devices*. The selected Dynamic Application will be aligned to all devices to which this template is applied.
- 7. In the Dynamic Application field, select Net-SNMP: CPU. This Dynamic Application monitors CPU utilization on devices that support Net-SNMP. If you are configuring a device template for a different type of device, you could select a Dynamic Application that is applicable to that device in this field.
- 8. To enable the **Credentials** field, select its label. The Net-SNMP: CPU Dynamic Application uses SNMP to collect data. Select Default SNMP credential in this field.
- 9. To configure memory utilization collection, repeat steps 5 8, selecting Net-SNMP: Physical Memory in the **Dynamic Application** field.
- 10. Enter a name for the template in the Template Name field. For example, "Silver-Level Net-SNMP".
- 11. To save the device template, select the **[Save]** button.

Example Gold-Level Apache/Linux Web Server Template

In this example, the gold-level service includes all monitoring included in the silver-level, plus more frequent Interface utilization collection and additional, device-specific collection. The template described in this section includes gold-level monitoring for an Apache Web Server running on a device that supports Net-SNMP. This example includes the following monitors in the gold-level service:

- Port monitoring policies for ports 80 and 443.
- A web content verification policy.
- A system process monitoring policy for the "httpd" process.

To configure the example gold-level template for an Apache Web Server running on a device that supports Net-SNMP, perform the following steps:

- 1. To include all monitoring included in the silver-level service, perform steps 1 9 listed in the Example Silver-Level Net-SNMP Template section.
- 2. To configure more frequent Interface collection, select the [Interface] tab.

Config			ries					
	Interface	CV Policies	Port Policies	Svc Policies	Proc Policies	Dyn Apps	Lo	gs
mplate Application B			Appl	ly Settings To				
All interfaces on device]							
erface Settings								
	Collectio	on State			Collectio	on Frequency		
isabled				 1 min. 				
isabled	Interface	Alerting		Disabled	Rollov	ver Alerting		_
ISADICU	Collect	Errors		Disabled	Colley	ct Discards		
isabled	Collect	LIIOIS		V Disabled	Collec	Li Discarus		
	Measuren	nent Scale			Percent	ile Calculation		
ilo				 Accumulative 				
	Counte	er Type			Perce	ntile Factor		_
ounter 32				√ 100%				
isable	Auto Nan	ie Update		<pre>{name}</pre>	Interface	Name Format		
erface Thresholds								
Inbound %	1	- 41 - 1	65 %	Outbound %			65 %	
			03 70				03 /0	
Inbound Bandwidth		I	0 Mbps	Outbound Bandwidtl	1 <u>1</u>		0 Mbps	
Inbound Errors		- 1	000 Pkts	Outbound Errors	s 🛓 🚽	1	1000 Pkts	
Inbound Discards	·	1	000 Pkts	Outbound Discards	3 1	1	1000 Pkts	
Inbound Error %	V		1 %	Outbound Error %	۱		1 %	

- 3. In the Apply Settings To field, select All interfaces on device.
- 4. To enable the **Collection State** field, select its label. Select Enabled in this field.

- 5. To enable the **Collection Frequency** field, select its label. To perform more frequent collection for gold-level devices, select 5 *min*. in this field.
- 6. To configure the port monitoring policies, select the **Port Policies** tab.

Device Template Editor Editing Port	Policy Subtemplates					New	Reset
Те	emplate Name						
Config Interface	CV Policies	Port Policies	Svc Policies	Proc Policies	Dyn Apps	Logs	
Subtemplate Selection	Template Applicatio	Add Policy To		-	Per-IP Polic	cy Creation	
		IP(s) have a matching	port	▼ [Managemen	t IP only j		•
	Port Policy Definition	on		Port / Service			
	1 / tcpmux						v
	Disabled			State			•
				Method			
	Port Scan (NMAP)						v
	Disabled			Critical Poll			*
				Timeout (ms)			
L							
		Save	Save As				

- 7. In the Subtemplate Selection pane, select Add New Port Sub-Template.
- 8. In the Port / Service field, select 80 / http. Leave all fields set to the default values, which will add the policy to the management IP address for all devices to which the template is applied. SL1 will collect availability information for the port every 5 minutes.
- 9. In the Subtemplate Selection pane, select Add New Port Sub-Template.
- 10. In the Port / Service field, select 443 / https. Leave all fields set to the default values, which will add the policy to the management IP address for all devices to which the template is applied. SL1 will collect availability information for the port every 5 minutes.

11.	To configure t	he web content	monitoring	policy, s	select the	CV Policies tab.

	Template Name						
Config Interface	CV Policies	Port Policies	Svc Policies	Proc Policies	Dyn App	os Logs	
ubtemplate Selection	F	Policy Name		State		HTTP Auth Username:Passwo	rd
Add New CV Sub-Template	[Disabled		T		
		Port		Timeout		HTTP Auth Method	
			1 Sec.		Ψ	Default	
		Uniform I	Resource Locator (UR	L)		SSL Encryption	_
			Post String			Expression Check #1 (case sensit	tive
			Post String			Expression Oneok #1 (case sensit	IIVC.
			Cookie Value			Expression Check #2 (case sensit	tive
		Browser	Error Code				
	None		n/a				
		M	in Page size (Kb)			Referrer String	
		M	ax Page Size (kb)			Host Resolution	_
		Min D	ownload Speed (kb/s)			Proxy Server:Port	
		Will D	milioud opeed (m/s)				
		Max r	Islookup time (msec)			Proxy Username: Password	
		Max TC	P connect time (msec)			Proxy Auth Method	
			Default				
		Max overa	Il transaction time (ms	ec)			

- 12. In the Subtemplate Selection pane, select Add New CV Sub-Template.
- 13. Supply values in the following fields:
 - Policy Name. Enter a name for the policy in this field. For example "Standard Gold-Level Monitor".
 - State. Select Enabled in this field.
 - Uniform Resource Locator (URL). Enter "http://%D" in this field. When SL1 performs collection for this policy, the IP address of the device for which collection is being performed will be substituted in to the %D value.
 - **Error Code**. If you expect all monitored devices to return a specific HTTP status code, select that status code in this field. This example assumes all monitored devices will return the most common healthy status code. Select 200 OK in this field. SL1 will generate an alert if a web site returns a status code other than the one selected.

NOTE: This example does not have specific requirements for the other settings defined in this page. You can leave the remaining fields set to the default values. 14. To configure the system process monitoring policy, select the **Proc Policies** tab.

Device Template Editor Editing Proces	s Policy Subtemplates					New	Reset
Ter	nplate Name						
Config Interface	CV Policies	Port Policies	Svc Policies	Proc Policies	Dyn Apps	Logs	
Subtemplate Selection Add New Process Sub-Template	Template Applicatio			Add Policy To			•
	Process Policy Defin						¥
	"ACLIENT.EXE"			Process Name			•
			P	ocess Argument			
	Memory Limit (kil	obytes per instance)	Total M	emory Limit (kilobytes)		Total CPU Utilization L	Limit (%)
	0	Minimum Instance	\$	•	Maximu	m Instances	•
				Process User			
				Alert if Found			
	No						•
L	1	Save	Save As				

- 15. In the Subtemplate Selection pane, select Add New Process Sub-Template.
- 16. Supply values in the following fields:
 - Add Policy To. Select All Devices in this field.
 - **Process Name**. Select *httpd* in this field. If httpd has not been discovered as a running process for any device discovered in the system, select the plus icon (+), then enter "httpd" in this field.
 - Alert if Found. Select No in this field. The system will generate an event if the httpd process is not running on a monitored device.

NOTE: This example does not have specific requirements for the other settings defined in this page. You can leave the remaining fields set to the default values.

- 17. Enter a name for the template in the Template Name field. For example, "Gold-Level Apache/Net-SNMP".
- 18. To save the device template, select the **[Save]** button.

Chapter

4

Configuring User Policies

Overview

In SL1, user policies allow you to define a set of user account properties and permissions to re-use for multiple user accounts. When you create a user account, you can use a user policy to quickly apply settings to the new user account. User policies have a dynamic relationship with their member user accounts. When you make a change to a user policy, the user accounts associated with that user policy are automatically updated. In this example, a single user policy is defined that grants customer-level access to the system. When a new customer is provisioned, the user policy is used to create a user account for the new customer.

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

- To view a pop-out list of menu options, click the menu icon (Ξ).

This chapter covers the following topics:

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Using the Default User Policies

SL1 includes a set of sample user policies that are created when the platform is installed. These sample user policies are intended as a starting point for you to create a set of user policies to meet your needs. If you edit the sample user policies, your changes will not be overwritten when you upgrade SL1.

The sample user policies use a sample set of *access keys*. An access key is a customized group of privileges that allow a user to perform actions in SL1. Each privilege (called an *access hook*) typically grants a single action, such as viewing a specific page or editing a specific entity. Access hooks are grouped in to access keys for easier management and alignment with users. SL1 includes 28 sample access keys by default. Similar to the default user policies, these access keys are intended as a starting point for you to create a set of access keys to meet your needs. If you edit the sample access keys, your changes will not be overwritten when you upgrade SL1.

This example uses the default "End User" user policy, which grants limited, view-only access to the user interface. This user policy was designed primarily to be used by customers of service providers. The "End User" user policy is assigned access keys that allow associated users to:

- Use the basic user tools, including the Inbox, Finder, and User Preferences.
- View, create, and add notes to tickets.
- View dashboards that other users have shared with them.
- View articles in the knowledge base
- View their organization record and user accounts associated with their organization.
- View performance data and events for their devices.
- View data about IT Services that other users have shared with them.

The following sections describe how you can customize the default "End User" user policy and the default access keys to meet your needs.

Editing a User Policy

To edit a user policy, including removing or adding permissions, perform the following steps:

1. Go to the **User Policies** page (Registry > Accounts > User Policies). The page displays the default user policies and any additional user policies that have been configured in the platform:

Policy Name •	User Type	Members	Login State	Organization		Theme	ID	Edited By	Last Edited
Hend User	User		Active	-	<u>.</u>		5	em7admin	2011-08-25 19:05:50
PExecutive	User		Active		<u>*</u>		3	em7admin	2011-09-13 10:57:42
Approximentations Manager	User		Active		<u>ی</u>		8	em7admin	2011-08-25 19:09:05
<i>P</i> Operator	User		Active	-	<u>*</u>		4	em7admin	2011-08-25 19:04:29
Provisioning & Device Configuration	User		Active	-	<u>*</u>		7	em7admin	2011-08-25 19:08:23
Apport & Widget Developer	User		Active	-	<u>*</u>		6	em7admin	2011-08-25 19:06:45
ScienceLogic Administrator	User		Active		<u>₽</u>		9	em7admin	2012-03-22 16:00:22

2. Select the wrench icon (*P*) for the user policy you want to edit. For this example, edit the "End User" user policy. The **User Policy Properties Editor** page is displayed:



Some fields have been disabled in the default user policies; disabled fields appear grayed out in the **User Policy Properties Editor** page. When you disable a field in a user policy, that field can be edited on a peruser account basis for all user accounts that are associated with the user policy. For example, if you are using a single user policy for multiple customers, you would leave the **Organization** field disabled; you would align each customer account with the corresponding customer organization when you create their user account. To enable or disable a field, select the field name.

- 3. To customize the user policy, you can edit the value in one or more fields in this page. For details on each field in the user policy editor, select the [Guide] button. A common customization is adding and removing access keys. The right pane in the User Policy Properties Editor page lists all the access keys in the platform; select the checkboxes for the access keys that you want to grant to your customers. You might want to remove some of the default access keys based on your use of SL1. For example, if you are not using the knowledge base feature, you might want to remove the "Knowledge Base View" access key.
- 4. Select the **[Save]** button to save your changes.

Editing an Access Key

To change the permissions that are granted by a specific access key, perform the following steps:

- 1. Go to the Access Keys page (System > Manage > Access Keys).
- 2. Select the wrench icon (*P*) for the access key that you want to edit. For example, select the "Devices -Information View" access key. This access key grants view-only access to performance data and events for devices. The **Key/Hook Alignment Editor** is displayed:



- 3. The *Aligned Access Hooks* field displays the access hooks that are granted by this access key. The *Unaligned Access Hooks* field displays all the other access hooks that are available in the platform:
 - To add an access hook to the access key, select the access hook in the **Unaligned Access Hooks** field, then select the right arrow button ([>>]).
 - To remove an access hook from the access key, select the access hook in the *Aligned Access Hooks* field, then select the left arrow button ([<<]).
 - For example, the "Devices Information View" includes the Dev:View Profile access hook. This access hook allows a user to view the **[Profile]** tab in the **Device Reports** panel. If you do not want your customers to have access to this tab, select Dev:View Profile in the **Aligned Access Hooks** field, then select the left arrow button ([<<]).
- 4. Select the **[Save]** button to save your changes.

Chapter

5

Provisioning a New Customer

Overview

This chapter describes how to provision a customer that has subscribed to a monitoring service. This example includes the following steps in the provisioning process:

- Creating an Organization and aligning product SKUs.
- Creating and running a discovery session, either for "pingable" devices (Bronze-level monitoring) or using a device template (Silver-level and Gold-level monitoring).
- Creating a User Account.

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

- To view a pop-out list of menu options, click the menu icon (\equiv).

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Creating an Organization and Aligning Product SKUs

The first step for provisioning a new customer is to create an organization record. All of the main entity types in a SL1 system are associated with an organization. In this example, the monitoring services that a customer has subscribed to are tracked by aligning the product SKUs for the services to the customer's organization record. The personnel responsible for discovering that customer's devices in the SL1 system can then view the customer's product subscriptions to determine which device template to include in the discovery session.

To create an organization and align product SKUs, perform the following steps:

- 1. Go to the **Organizational Account Administration** page (Registry > Accounts > Organizations).
- 2. Select the [Create] button. The Add Organizational Record page is displayed in a new window:

Add Organizational Record			Guide Refresh
* Organization Name	Contact First Name	Contact Last Name	Billing ID CRM ID
Street Address	Title	Department	Email Notification Append Text
ij	Phone	Fax	<u></u>
State Postal Code	Toll	Free	Longitude Latitude
[None]	En	nail	Organization Ticket Watchers dashboard_admin em7admin
[United States]			*
	Sa	ive	

- 3. Based on your business requirements, supply values in the fields in this page. The required field is:
 - Organization Name. Enter the name of the customer.
- 4. Select the [Save] button.

5. To align the SKUs for the monitoring services that customer has subscribed to the organization record, select the **[Actions]** button, and then select *Product Catalog*. The **Product Catalog** modal page is displayed:

Organization Properties For Organiz			Actions	Guide Refresh
[Acme Corporation]				
Organization Name Acme Corporation	Contact First			CRM ID
Street Address	roduct Catalog		Close / Esc	
	For Organization [6]		Refresh	
City	Available Products			Latitude
New York	Managed Network Management S	ervices		
State Postal [New York] 1000	L 24x7 2 Hour Response	SUPP001		
Country	L 24x7 3 Hour Response	SUPP002		^
[United States]	L 24x7 24 Hour Response	SUPP0024		-
	L 24x7 4 Hour Response	SUPP003		
	L 24x7 48 Hour Response	SUPP0048		
	24x7 8 Hour Response	SUPP008		
		Save		

- 6. Select the checkbox for each SKU to which the customer has subscribed.
- 7. Select the **[Save]** button.
- 8. Close the **Product Catalog** modal page and then select the **[Refresh]** button in the **Organization Properties** page. The selected SKUs appear in the **Product Usage List** pane:

Organization Name Anne Corporation Image Contact Last Name Image Contact Last Name Street Address Image Contact Last Name Image Contact Last Name City Image Contact Last Name Image Contact Last Name City Image Contact Last Name Image Contact Last Name Phone Fax Image Contact Last Name Image Contact Last Name City Image Contact Last Name Image Contact Last Name Image Contact Last Name City Image Contact Last Name Image Contact Last Name Image Contact Last Name Image Contact Last Name City Image Contact Code New York Image Contact Code Imag	Close <u>S</u> ummary <u>Properties</u>	Logs <u>A</u> ccount	s C <u>o</u> ntacts	Events	Tickets	<u>N</u> otes	
Organization Name (Amme Corporation Billing ID CRM ID Street Address Contact East Name Contact East Name Street Address Contact East Name Contact East Name City Tele Organization New York State Postal Code New York Tele Contact East Name Tele Prote Fax Tele Protect Usage List StVJ Number StVJ Class StVJ Number StV Name StVJ Class StVJ Number Acree Corporation Managed Network Management Services SUPPoil	Organization Properties For Organization [Acme Corpor	ation]			Actions	Guide	Refresh
Reme Corporation Image: Street Advances Street Advances Department City Image: Street Advances City Image: Street Advances Street Advances Street Advances Product Usage List Street St	[Acme Corporation]						
Product Usage List SKU Class SKU Number SkU Name Name Type 1. Managed Network Management Services SUPP001 24x7 2 Hour Response Acme Corporation Org	Acree Corporation	Tole Phone Tol Free	Department	Email Notifica Longitude Organization Ti dashboard dashboard dashboard	Latin Append Text		
- SKU Class SKU Number SkU Name Name Type 1. Managed Network Management Services SUPP001 24x7 2 Hour Response 🙀 Acme Corporation Org		S	ave				
1. Managed Network Management Services SUPP001 24x7 2 Hour Response 🚯 Acme Corporation Org	Product Usage List						

Creating a Discovery Session for Pingable Devices

In this example, Bronze-level monitoring includes only availability and latency monitoring. To create a discovery session that uses only the ICMP protocol to discover devices, perform the following steps:

- 1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
- 2. Select the [Create] button. The Discovery Session Editor page is displayed in a new window:

lentification Information	Descrip	tion			
Address/Hostname Discovery List Upload File Upload File SNMP Credentials SNMP Credentials SNMP Credentials (see SNMPV2 - Example Cisco SNMPV3 - Example Cisco SNMPV3 - Example Cisco SSNMP Port 1610 Example Cisco: SSP SNMP Port 1610 Example		Detection and Scanning Initial Scan Level (System Default (recommended) System Default (recommended) Port Scan All Ps (System Default (recommended) Detection Method & Port Context (recommended) Detection Method & Port (Default Method) Detection Method & Port (Default Method) Detection Method & Port TCP: 2 - compressent	9 9 9 9	Basic Settings Discover Model Non-SNMP Devices DHCP Device Model Cache TTL (h) 2 Collection Server PD: ayoung-dist-cu-251 ([system] Add Devices to Device Group()	s)
Del ENC: Ision SNMPv2 Example Demo Lab EM7 Default V2 EM7 Default V3 IPSLA Example Other Credentials] 😧	TCP: 3 - compressnet TCP: 5 - re TCP: 7 - echo TCP: 9 - discard TCP: 11 - systat TCP: 13 - systat TCP: 13 - systat TCP: 13 - netstat TCP: 16 - netstat TCP: 19 - chargen TCP: 19 - chargen TCP: 20 - model TCP: 20 - m		None Servers	^
Clico VUS CUC Custer Status Clico: VUS CUC Custer Status Clico: ACI Sample Credential Clico: ACI Sample Credential Clico: CSP Example Clico: AserServer - Example Clico: AserServer - Example CUCM Lab EMC SIMLS Example EMC SIMLS Example		(10- co horodati fe00000 Maximum Allowed Interfaces [10000 Bypass hterface Inventory Bypass hterface Inventory Dependence Inventory) 2)	Apply Device Template [[Choose a Template]	~

- 3. Supply values in the following fields:
 - IP Address/Hostname Discovery List. Enter the IP addresses or hostnames for the customer's devices.
 - Initial Scan Level. Select 0. Model Device Only in this field. For a tiered service, you will want to limit what is monitored on each device. Choosing this option disables automatic alignment of Dynamic Applications during initial discovery.
 - **Discover Non-SNMP**. By default, the system will not create device records for devices that respond only to ICMP requests. Select this checkbox to enable discovery of "pingable" devices.
 - **Collection Server PID**. Select the Data Collector that will run the discovery session. All devices discovered using this discovery session will be monitored by the Collector Group that includes this Data Collector. If you are using an All-In-One Appliance, leave this field set to the default value.
 - **Organization**. Select the customer's organization. All devices discovered using this discovery session will be associated with this organization.

NOTE: This example does not have specific requirements for the other settings defined in this page. You can leave the remaining fields set to the default values or select values based on your business requirements.

- 4. Select the **[Save]** button.
- 5. Close the **Discovery Session Editor** page.
- 6. Select the **[Reset]** button in the **Discovery Control Panel** page. The new discovery session is displayed in the list of discovery sessions.
- 7. To run the discovery session, select its lightning bolt icon (\mathscr{I}).

Creating a Discovery Session that includes a Device Template

In this example, you must include a device template in the discovery session when you discover devices with silverlevel or gold-level monitoring. As part of the provisioning process, personnel should check the SKUs associated with the organization record to determine which device template should be included in each discovery session. To create a discovery session that includes a device template, perform the following steps:

- 1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
- 2. Select the [Create] button. The Discovery Session Editor page is displayed in a new window:

dentification Information	Descript	ion			0
P and Credentials IP Address/Hostname Discovery List :	9	Detection and Scanning Initial Scan Level (System Default (recommended) System Default (recommended) Part Scan All Ps	Discove Non-SN	MP Devices DHCP	
rowse for file Browse	0	System Default (recommended)	2		
		Port Scan Timeout		Collection Server PID:	
SNMP Credentials	~	System Default (recommended)	ayoung)-dist-cu-251	\sim
NMP A	•	Detection Method & Port		Organization	
Clsm0s Clsco SNMPv2 - Example Clsco SNMPv3 - Example Clsco: CSP SNMP Port 161 Example Clsco: CSP SNMP Port 1610 Exampl		Clefaut Method UDP: 161 SMMP TCP: 1 - topmux	[Syste	m] Add Devices to Device Group(5)
Del EUIC Islos SNMPv2 Example Demo Lab EM7 Defaul V3 EM7 Defaul V3 PSLA Example Other Credentials	0	TCP: 2. compresent TCP: 3. compresent TCP: 9 oppresent TCP: 9 discard TCP: 11 systat TCP: 13 daytime TCP: 15 netstat TCP: 17 otd	None Server	s	^
Asic/Snippet Cisco CUCM Example Cisco VOS CUC Cluster Status Cisco VOS CUC Cluster Status Cisco XOS M&P Cluster Status Cisco: ACI Sample Credential 1 Cisco: ACI Sample Credential 2		TCP: 18 - msp TCP: 19 - chargen TCP: 20 - ftp-data Interface Inventory Timeout (ms) 600000			
Cisco: CSP Example Ctrix XenServer - Example CUCM Lab ENIC SMI-S Example FMIC VMAX Example		Maximum Allowed Interfaces (10000 Bypass Interface Inventory	[Choos	Apply Device Template se a Template]	× ×

- 3. Supply values in the following fields:
 - IP Address Discovery List. Enter the IP addresses or hostnames for the customer's devices.
 - **SNMP Credentials**. Select the SNMP credentials that the system should use to communicate with the customer's devices.
 - Initial Scan Level. Select 0. Model Device Only in this field. For a tiered service, you will want to limit what is monitored on each device. Choosing this option disables automatic alignment of Dynamic Applications during initial discovery.
 - Collection Server PID. Select the Data Collector that will run the discovery session. All devices discovered using this discovery session will be monitored by the Collector Group that includes this Data Collector. If you are using an All-In-One Appliance, leave this field set to the default value.
 - **Organization**. Select the customer's organization. All devices discovered using this discovery session will be associated with this organization.
 - Apply Device Template. Select the device template to apply to all devices discovered using this discovery session.

NOTE: This example does not have specific requirements for the other settings defined in this page. You can leave the remaining fields set to the default values or select values based on your business requirements.

- 4. Select the **[Save]** button.
- 5. Close the **Discovery Session Editor** page.
- 6. Select the **[Reset]** button in the **Discovery Control Panel** page. The new discovery session is displayed in the list of discovery sessions.
- 7. To run the discovery session, select its lightning bolt icon (\mathscr{I}) .

Creating a User Account

To create a user account using the pre-defined "End User" user policy, perform the following steps:

- 1. Go to the **User Accounts** page (Registry > Accounts > User Accounts).
- 2. Select the [Create] button. The Create New Account page is displayed:
- 3. Supply values in the following fields:
 - First Name. Enter the first name of the customer.
 - Last Name. Enter the last name of the customer.
 - Account Login Name. Enter a username for the customer. This is the username that the customer will use to log in to the user interface.
 - Primary Email. Enter the Email address of the customer.

- **Password**. Enter an initial password for the user account. If you leave the **Require Password Reset** checkbox selected, the customer will log in with this password and will immediately be prompted to change their password.
- Confirm Password. Enter the initial password again.
- Organization. Select the organization that you created for this customer.
- Account Type. To align the account with a user policy, select Policy Membership in this field.
- Account Templates. Select the user policy for this account. For example, select End User.

NOTE: This example does not have specific requirements for the other settings defined in this page. You can leave the remaining fields set to the default values or select values based on your business requirements.

4. Select the **[Save]** button. Select **[OK]** in the pop-up window that appears.

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