

# **Monitoring F5 BIG-IP**

F5 BIG-IP PowerPack version 102

### Table of Contents

Introduction	3
What is F5 BIG-IP LTM?	3
What Does the F5 BIG-IP PowerPack Monitor?	4
Installing the F5 BIG-IP PowerPack	4
Configuration and Discovery	6
Prerequisites for Monitoring F5 BIG-IP	6
Creating an SNMP Credential for F5 BIG-IP	6
Discovering an F5 BIG-IP System	7
Aligning F5 BIG-IP Dynamic Applications	9
Manually Aligning the "F5 BIG IP LTM: Service Discovery" Dynamic Application with the BIG-IP Root	
Device	1
Viewing Component Devices	3

# Chapter

### Introduction

#### Overview

This manual describes how to monitor F5 Networks' BIG-IP Local Traffic Manager (LTM) devices in SL1 using the F5 BIG-IP PowerPack.

The following sections provide an overview of BIG-IP LTM devices and the F5 BIG-IP PowerPack:

What is F5 BIG-IP LTM?	3
What Does the F5 BIG-IP PowerPack Monitor?	4
Installing the F5 BIG-IP PowerPack	4

**NOTE:** ScienceLogic provides this documentation for the convenience of ScienceLogic customers. Some of the configuration information contained herein pertains to third-party vendor software that is subject to change without notice to ScienceLogic. ScienceLogic makes every attempt to maintain accurate technical information and cannot be held responsible for defects or changes in third-party vendor software. There is no written or implied guarantee that information contained herein will work for all third-party variants. See the End User License Agreement (EULA) for more information.

### What is F5 BIG-IP LTM?

F5 Networks' BIG-IP Local Traffic Manager (LTM) devices manage local system traffic to ensure optimal network and application performance and increase the system's operational efficiency. BIG-IP LTM solutions include BIG-IP appliances, the VIPRION application delivery controller, and software-based BIG-IP Virtual Editions.

#### What Does the F5 BIG-IP PowerPack Monitor?

The F5 BIG-IP PowerPack enables you to monitor LTM configuration and performance metrics for virtual servers, pools, and member nodes, as well as other chassis and asset information.

The F5 BIG-IP PowerPack includes the following features:

- Dynamic Applications that discover and monitor F5 BIG-IP LTM devices
- Device Classes for each of the F5 BIG-IP LTM devices that the F5 BIG-IP PowerPack can monitor
- Event Policies and corresponding alerts that are triggered when F5 BIG-IP LTM devices meet certain status criteria

#### Installing the F5 BIG-IP PowerPack

Before completing the steps in this manual, you must import and install the latest version of the F5 BIG-IP PowerPack.

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

To download and install a PowerPack:

- 1. Download the PowerPack from the ScienceLogic Customer Portal.
- 2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
- 3. In the **PowerPack Manager** page, click the **[Actions]** button, then select Import PowerPack.
- 4. The Import PowerPack dialog box appears:

Import PowerPack™		×
Browse for file	Browse	

- 5. Click the [Browse] button and navigate to the PowerPack file.
- 6. When the PowerPack Installer modal page appears, click the [Install] button to install the PowerPack.

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

# Chapter

# 2

## **Configuration and Discovery**

#### Overview

The following sections describe how to configure and discover F5 BIG-IP Local Traffic Manager (LTM) services for monitoring by SL1 using the *F5 BIG-IP* PowerPack:

Prerequisites for Monitoring F5 BIG-IP	6
Creating an SNMP Credential for F5 BIG-IP	6
Discovering an F5 BIG-IP System	7
Aligning F5 BIG-IP Dynamic Applications	9
Manually Aligning the "F5 BIG IP LTM: Service Discovery" Dynamic Application with the BIG-IP Root Device	11
Viewing Component Devices	3

#### Prerequisites for Monitoring F5 BIG-IP

Before you can monitor F5 BIG-IP services using the F5 BIG-IP PowerPack, you must ensure that SL1 can communicate with BIG-IP using SNMP and you must know the SNMP community string for the BIG-IP system. SL1 can then use the data collected from BIG-IP to create device records for all components managed by BIG-IP.

#### Creating an SNMP Credential for F5 BIG-IP

To use the Dynamic Applications in the F5 BIG-IP PowerPack, you must first define an SNMP credential in SL1. This credential allows SL1 to communicate with the BIG-IP system.

To configure an SNMP credential for F5 BIG-IP:

1. Go to the **Credential Management** page (System > Manage > Credentials).

- 2. Click the **[Actions]** button.
- 3. In the drop-down list that appears, select Create SNMP Credential. The **Credential Editor** page appears:

Credential Editor		×
Create New SNMP Credential		Reset
Basic Settings Prof	ile Name	SNMP Version
Port [161	Timeout(ms)	Retries
SNMP V1/V2 Settings SNMP Community (Read	-Only)	SNMP Community (Read/Write)
SNMP V3 Settings Security Name		Security Passphrase
Authentication Protocol	Security Level	SNMP v3 Engine ID
Context Name	Privacy Protocol	Privacy Protocol Pass Phrase     The second se
	Save	

- 4. In the **SNMP Version** field, select SNMP V2.
- 5. In the **Profile Name** field, enter a name for the credential.
- 6. In the SNMP Community (Read Only) field, enter the community string for the BIG-IP system.
- 7. Optionally, supply values in the other fields in this page. In most cases, you can use the default values for the other fields.
- 8. Click the **[Save]** button.

#### Discovering an F5 BIG-IP System

After you have created an SNMP credential for the F5 BIG-IP system that you want to monitor, you can create and run a discovery session that will discover the BIG-IP system and automatically align Dynamic Applications with the BIG-IP system.

To do so, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).

2. Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** window appears:



- 3. Enter values in the following fields:
  - IP Address Discovery List. Enter the IP address for the BIG-IP system.
  - SNMP Credentials. Select the SNMP Credential for the BIG-IP system.
- 4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the **Discovery & Credentials** manual.
- 5. Click the [Save] button and then close the Discovery Session Editor window.
- 6. The discovery session you created will appear at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon (*F*) to run the discovery session.
- The Discovery Session window appears. When the BIG-IP system is discovered, you can click its device icon (I) to view the system device's properties.

### Aligning F5 BIG-IP Dynamic Applications

The Dynamic Applications in the F5 BIG-IP PowerPack are divided into four types:

- **Count**. These Dynamic Applications poll BIG-IP to determine the number of component devices monitored by SL1.
- **Discovery**. These Dynamic Applications poll BIG-IP for new instances of component devices or changes to existing instances of component devices.
- **Configuration**. These Dynamic Applications retrieve configuration information about each component device and retrieve any changes to that configuration information.
- Performance. These Dynamic Applications poll BIG-IP for performance metrics.

The following Dynamic Applications are aligned automatically to the F5 BIG-IP system when you run discovery:

- F5: Viprion Chassis Slot Status
- F5 BIG-IP: Cluster Status
- F5 BIG-IP: CPU Configuration
- F5 BIG-IP: Disk Array Status
- F5 BIG-IP: Fan Status
- F5 BIG-IP: Interface Usage (64Bit)
- F5 BIG-IP: Performance
- F5 BIG-IP: Power Supply Status
- F5 BIG-IP: System Configuration
- F5 BIG-IP: Temperature
- F5 BIG-IP: vCMP VM Configuration
- F5 BIG-IP LTM: Node Configuration
- F5 BIG-IP LTM: Node Discovery
- F5 BIG-IP LTM: Node Performance
- F5 BIG-IP LTM: Pool Configuration
- F5 BIG-IP LTM: Pool Discovery: Non-Default Pools
- F5 BIG-IP LTM: Pool Discovery: Virtual Server Default Pools
- F5 BIG-IP LTM: Pool Member Configuration
- F5 BIG-IP LTM: Pool Member Discovery
- F5 BIG-IP LTM: Pool Member Performance
- F5 BIG-IP LTM: Pool Performance
- F5 BIG-IP LTM: Virtual Server Configuration
- F5 BIG-IP LTM: Virtual Server Discovery

- F5 BIG-IP LTM: Virtual Server Performance
- Host Resource: Configuration
- Net SNMP: CPU
- Net SNMP: Physical Memory
- Net SNMP: Swap
- CAUTION: To discover all of the component devices in the BIG-IP system, you must **manually align** the "F5 BIG-IP LTM: Service Discovery" Dynamic Application with the BIG-IP root device. For instructions on how to do this, see the section on Manually Aligning the Dynamic Application with the BIG-IP Root Device.

If these Dynamic Applications are not aligned during discovery, perform the following steps to add them manually:

- 1. Go to the **Device Properties** page (Registry > Devices > wrench icon) for the BIG-IP system.
- 2. Click the [Collections] tab. The Dynamic Application Collections page appears.
- 3. Click the **[Actions]** button and then select Add Dynamic Application. The **Dynamic Application Alignment** page appears:

Dynamic Application Alignment		Reset
Dynamic Applications	Credentials	
f5 Bulk Snippet Configuration: Bulk Snippet Performance: Database Performance: Database Performance: PowerShell Config: PowerShell Config: PowerShell Performance: Snippet Configuration: LF5 BIG-IP LTM: Virtual Server Discovery LF5 BIG-IP LTM: Virtual Server Discovery LF5 BIG-IP LTM: Pool Discovery: Virtual Server LF5 BIG-IP LTM: Pool Member Discovery LF5 BIG-IP LTM: Node Configuration LF5 BIG-IP LTM: Pool Member Configuration LF5 BIG-IP LTM: Pool Configuration LF5 BIG-IP LTM: Pool Discovery: Non-Default P Snippet Journal: Snippet Performance: LF5 BIG-IP LTM: Pool Performance LF5 BIG-IP LTM: Pool Performance LF5 BIG-IP LTM: Virtual Server Performance SNMP Configuration: LF5 BIG-IP: System Configuration Version: LF5 BIG-IP: System Configuration	Default:  _Default SNMP Credential SNMP:  _Cisco SNMPv3 - Example  _Cisco SNMPv2 - Example  _IPSLA Example  _Nexus snmp  _EM7 Default V2  _EM7 Default V2  _EM7 Default V3  _SNMP Public V1  _SNMP Public V1  _SNMP Public V1  _SNMP Public V2  _LifeSze: Endpoint SNMP  _Internal Database:  _EM7 Collector Database I_EM7 Collector Database SOAP/XML Host:  _Amazon Web Services Credential  _CUCM PerfmonService 8.0 Example  _UCS  _NetApp w/SSL Option Off  _NetApp w/SSL Option I_Polycom - System  _Polycom - Advanced  _Polycom - Interface	

4. In the **Dynamic Applications** field, select the Dynamic Application that you want to align to the BIG-IP system.

- 5. In the Credentials field, select the SNMP credential for the BIG-IP system.
- 6. Click the [Save] button.

# Manually Aligning the "F5 BIG IP LTM: Service Discovery" Dynamic Application with the BIG-IP Root Device

When you run discovery, the "F5 BIG-IP LTM: Component Counts" Dynamic Application is automatically aligned with the F5 BIG-IP system. This Dynamic Application enables you to determine the number of component devices in your BIG-IP system that will be discovered.

To determine the BIG-IP component device count:

- 1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
- 2. Click the wrench icon ( *P*) for the BIG-IP system.
- 3. In the **Device Administration** panel, click the **[Collections]** tab. The **Dynamic Application Collections** page displays.
- 4. Click the plus icon (+) for the "F5 BIG-IP LTM: Component Counts" Dynamic Application. If collection for the Dynamic Application was successful, the graph icons (411) for the "F5 BIG-IP LTM: Component Counts" presentation objects are enabled:

Dynamic Application <sup>TM</sup> Collections					E	Expand	Actions	Reset	Guide
Dynam	ic Application	ID	Poll Frequen	icy	Tγ	pe		<u>Credential</u>	
F5 BIG-IP LTM: Component Counts		1223	15 mins	S	NMP Performan	ce	Default SNI	MP Credent	tial 🥖
1	Presentation Object •		Version	Pid	Found	Collecting	Group	Label	Precedence
+ mLTM Node Count			1	p_4399	yes	yes			0
+ mlLTM Pool Count			1	p_4401	yes	yes			0
+ <u>m</u> LTM Pool Member Count			1	p_4397	yes	yes			0
+ mLTM Virtual IP Count			1	p_4400	yes	yes			0
+ MLTM Virtual Server Count			1	p_4398	yes	yes			0
	Misc Collection Object •				Cid	Found	Collec	ting	Edited By
mDiscovery Object					o_13478	no	yes		
+ F5 BIG-IP: Interface Usage (64Bit)		1222	5 mins	S	NMP Performan	ce	Default SNI	MP Credent	tial 🥖
+ F5 BIG-IP: Performance		1217	15 mins	S	NMP Performan	ce	Default SNI	MP Credent	tial 🥖
+ Net-SNMP: CPU		564	5 mins	S	NMP Performan	ce	Default SNI	MP Credent	tial 🥖
+ Net-SNMP: Physical Memory		565	5 mins	S	NMP Performan	ce	Default SNI	MP Credent	tial 🥖
+ Net-SNMP: Swap		566	5 mins	S	NMP Performan	ce	Default SNI	MP Credent	tial 🥖
F5 BIG-IP: Disk Array Status		1221	60 mins	S	NMP Configurat	ion	Default SNI	MP Credent	tial 🥖
+ F5 BIG-IP: System Configuration		1215	360 mins	S	NMP Configurat	ion	Default SNI	MP Credent	tial 🥖
+ Host Resource: CPU Config		470	1440 mins	S	NMP Configurat	ion	Default SNI	MP Credent	tial 🥖
+ Host Resource: Software		467	120 mins	S	NMP Configurat	ion	Default SNI	MP Credent	tial 🖉
+ System Uptime: hrSystemUptime		932	5 mins	S	NMP Configurat	ion	Default SNI	MP Credent	tial 🥖
+ System Uptime: sysUptime		931	5 mins	S	NMP Configurat	ion	Default SNI	MP Credent	tial 🥖
+ F5 BIG-IP LTM: Service Discovery		1201	120 mins	S	nippet Configura	ition	Default SNI	MP Credent	tial 🥖
+ Host Resource: Memory Config		469	1440 mins	S	nippet Configura	ition	Default SNI	MP Credent	tial 🏼 🖉
+ Support: File System		719	120 mins	S	nippet Configura	ition	Default SN	MP Credent	tial 🥖
					[Select	Action]			▼ Go
		Sav	e )						

5. Click a graph icon (IIII) for any of the "F5 BIG-IP LTM: Component Counts" presentation objects to view the collected data for that presentation object. The **Device Performance** page displays the number of components that are being monitored.

Overview	Options Report	F5 BIG-IP LTM: Component Counts   LTM Node Count	Reset Guide
File Systems	Zoom 6H 12H 1D Max	F	rom: To:
Network Interfaces			
Net-SNMP: CPU			
<ul> <li>Net-SNMP: Physical Memory</li> <li>Net-SNMP: Swap</li> </ul>	21.04		
Net-SNMP: Swap     F5 BIG-IP: Performance			
F5 BIG-IP: Interface Usage (64Bit)	21.02		
▼ F5 BIG-IP LTM: Component Counts			
LTM Pool Member Count			
LTM Virtual Server Count	21		2015-08-27 07:30:00
LTM Virtual IP Count			LTM Node Count: 21
LTM Pool Count	20.98		
	+		
	20.96		
	20.94		
	4	Data	III Missed
	Date Range Selection:	Type/Label Graph Type Trend Mouse-over Min	Max Avg Polls
	Start 08/25/2015 08:46:37	V LTM Node line V 21 21	21 21 86
	End 08/27/2015 08:46:37		
	Presets Set Custom		
Find			

After verifying the number of component devices that will be discovered, perform the following steps to start component device discovery by aligning the "F5 BIG-IP LTM: Service Discovery" Dynamic Application with the BIG-IP root system:

- 1. Go to the **Device Properties** page (Registry > Devices > wrench icon) for the BIG-IP system.
- 2. Click the [Collections] tab. The Dynamic Application Collections page appears.

3. Click the **[Actions]** button and then select Add Dynamic Application. The **Dynamic Application Alignment** page appears:



- 4. In the Dynamic Applications field, select F5 BIG-IP LTM: Service Discovery.
- 5. In the **Credentials** field, select the SNMP credential for the BIG-IP system.
- 6. Click the **[Save]** button.

#### Viewing Component Devices

When SL1 performs collection for the F5 BIG-IP system, SL1 will create component devices that represent each device and align other Dynamic Applications to those component devices. Some of the Dynamic Applications aligned to the component devices will also be used to create additional component devices. All component devices appear in the **Device Manager** page just like devices discovered using the ScienceLogic discovery process.

In addition to the **Device Manager** page, you can view the F5 BIG-IP system and all associated component devices in the following places in the user interface:

• The **Device View** modal page (click the bar-graph icon [**1**] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:



• The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with an F5 BIG-IP system, find the BIG-IP device and click its plus icon (+):

- 🤌 📶 Lab	o-F5-BIG-IP.ga.sci	iencelogic.local 💘 1	0.0.13.11	Appl	ication F	5 Networks, Inc.	BIG-IP Virtual Edition	1227	7 S)	ystem		/ Minor	CUG	Active	m 13 N
					Device							Current	Collection	Collection	
		ice Name *	IP Add		Category		vice Class   Sub-class		DID		Organization	State	Group	State	
1. – 🥜	BIG-IP LTM Se	rvice	۳ .	- /	pplication	F5 Networks, In	nc.   BIG-IP Local Traffic I	Manager 12	28 \$	System		A Healthy		Active	🔲 🗮 🖏
		Device Name •	IP	Address	Device Category	, 1	Device Class   Sub-class		DID		Organization	Current State	Collection Group	Collection State	
1. +	A this-is-ar	n-extremely-long-pool-name-ir			Application		s, Inc.   BIG-IP LTM Pool			System		A Healthy		Active	📾 👯 🗞 :
2. —	P vs-172-0	030-128-001			Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	al Server 1	578	System		1 Notice	CUG	Active	📾 🗱 🗞 j
					Dev							Current	Collection	Collection	
		Device Name *		IP Address	Cate		Device Class   Sub-class		DID	0.1	Organization	State	Group	State	- 1 <b>- 1</b> (h (h
	1. — 🥜 📶 po	ool-172-030-000-001			Applicati		orks, Inc.   BIG-IP LTM Po	001	1599	System		A Healthy		Active	
		Device Name *		IP Addr	ess C	Device ategory	Device Class   Sub-cl	ass	DI	D	Organization	Current State	Collection Group	Collection State	
	1. – 🥠	node-172-030-000-001:80	) 🕴	y			etworks, Inc.   BIG-IP LTN	1 Pool Memb	e 1620	System		A Notice	CUG	Active	🖮 💢 🗞 者
						Device						Current	Collection	Collection	
		Device Nam			Address	Category	Device Class   Sub			DID	Organization	State	Group	State	[
	1.	Ame-172-030-000-	001		P	oplication F5	Networks, Inc.   BIG-IP I	LTM Node	164	10 System	1	A Notice	CUG	Active	19 <b>19</b> 19 <u>18</u>
3. +	And vs-172-0	130.128.002			Application	E5 Networks	s. Inc.   BIG-IP LTM Virtua	Server 1	580	System		A Notice	CUG	Active	m 💥 🗞
4. +					Application		s, Inc.   BIG-IP LTM Virtua			System		A Notice		Active	
5. +	<b>•</b> • • • • •				Application		s, Inc.   BIG-IP LTM Virtua			System		A Notice		Active	
6. +	· · · · · · · · · · · · · · · · · · ·				Application		s, Inc.   BIG-IP LTM Virtua			System		A Notice		Active	
7. +	- uu				Application		s, Inc.   BIG-IP LTM Virtua			System		A Notice		Active	
8. +	- un				Application	F5 Networks	s. Inc.   BIG-IP LTM Virtua	Server 1	577	System		A Notice		Active	
9. +	- un				Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	al Server 1	567	System		A Notice		Active	
10. +	P vs-172-0				Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	al Server 1	566	System		A Notice		Active	
11. +	- un				Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	al Server 1	568	System		A Notice		Active	
12. +	- uu	030-128-011			Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	al Server 1	569	System		A Notice		Active	
13. +	P vs-172-0	030-128-012			Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	al Server 1	581	System		A Notice		Active	m 13 %
14. +	P vs-172-0				Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	al Server 1	571	System		A Notice		Active	
15. +					Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	al Server 1	572	System		A Notice		Active	<b>H X</b> N
16. +					Application	F5 Networks	s, Inc.   BIG-IP LTM Virtua	I Server 1	573	System		1 Notice		Active	
	<b>•</b>				Application	E5 Networks	s. Inc.   BIG-IP LTM Virtua	Server 1	574	System		/ Notice		Active	
17. +															

The Device Component Map page (Views > Device Maps > Components) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. This makes it easy to visualize and manage root nodes and their components. SL1 automatically updates the Device Component Map as new component devices are discovered. SL1 also updates each map with the latest status and event information. To view the map for an F5 BIG-IP system, go to the Device Component Map page and select the map from the list in the left NavBar. To learn more about the Device Component Map page, see the Views manual.



#### © 2003 - 2019, ScienceLogic, Inc.

#### All rights reserved.

#### LIMITATION OF LIABILITY AND GENERAL DISCLAIMER

ALL INFORMATION AVAILABLE IN THIS GUIDE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. SCIENCELOGIC <sup>™</sup> AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Although ScienceLogic<sup>™</sup> has attempted to provide accurate information on this Site, information on this Site may contain inadvertent technical inaccuracies or typographical errors, and ScienceLogic<sup>™</sup> assumes no responsibility for the accuracy of the information. Information may be changed or updated without notice. ScienceLogic<sup>™</sup> may also make improvements and / or changes in the products or services described in this Site at any time without notice.

#### Copyrights and Trademarks

ScienceLogic, the ScienceLogic logo, and EM7 are trademarks of ScienceLogic, Inc. in the United States, other countries, or both.

Below is a list of trademarks and service marks that should be credited to ScienceLogic, Inc. The ® and ™ symbols reflect the trademark registration status in the U.S. Patent and Trademark Office and may not be appropriate for materials to be distributed outside the United States.

- ScienceLogic<sup>™</sup>
- EM7<sup>™</sup> and em7<sup>™</sup>
- Simplify IT™
- Dynamic Application™
- Relational Infrastructure Management<sup>™</sup>

The absence of a product or service name, slogan or logo from this list does not constitute a waiver of ScienceLogic's trademark or other intellectual property rights concerning that name, slogan, or logo.

Please note that laws concerning use of trademarks or product names vary by country. Always consult a local attorney for additional guidance.

#### Other

If any provision of this agreement shall be unlawful, void, or for any reason unenforceable, then that provision shall be deemed severable from this agreement and shall not affect the validity and enforceability of any remaining provisions. This is the entire agreement between the parties relating to the matters contained herein.

In the U.S. and other jurisdictions, trademark owners have a duty to police the use of their marks. Therefore, if you become aware of any improper use of ScienceLogic Trademarks, including infringement or counterfeiting by third parties, report them to Science Logic's legal department immediately. Report as much detail as possible about the misuse, including the name of the party, contact information, and copies or photographs of the potential misuse to: legal@sciencelogic.com



800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010