

TREND MICRO[®] Smart Protection Server 26

Security Made Smarter

Administrator's Guide











Endpoint Security Messaging Security

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http://downloadcenter.trendmicro.com/

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The user documentation for Trend MicroTM Smart Protection Server is intended to introduce the main features of the software and installation instructions for your production environment. You should read through it prior to installing or using the software.

Detailed information about how to use specific features within the software are available in the online help file and the Knowledge Base at the Trend Micro website.

http://esupport.trendmicro.com

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http://www.trendmicro.com/download/documentation/rating.asp

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Glossary



Preface

Welcome to the Trend MicroTM Smart Protection Server Administrator's Guide. This document contains information about product settings.

Topics include:

- Smart Protection Server Documentation on page viii
- Audience on page viii
- Document Conventions on page ix

Smart Protection Server Documentation

The Smart Protection Server documentation consists of the following:

- Installation and Upgrade Guide: Helps you plan for installation, upgrades, and deployment.
- Administrator's Guide: Helps you configure all product settings.
- **Online Help**: Provides detailed instructions on each field and how to configure all features through the user interface.
- **Readme File**: Contains late-breaking product information that might not be found in the other documentation. Topics include a description of features, installation tips, known issues, and product release history.

The documentation is available at:

http://downloadcenter.trendmicro.com/

Audience

The Smart Protection Server documentation is written for IT managers and administrators. The documentation assumes that the reader has in-depth knowledge of computer networks.

The documentation does not assume the reader has any knowledge of virus/malware prevention or spam prevention technology.

Document Conventions

To help you locate and interpret information easily, the Smart Protection Server documentation uses the following conventions.

TABLE P-1. Document conventions

CONVENTION	DESCRIPTION
ALL CAPITALS	Acronyms, abbreviations, and names of certain com- mands and keys on the keyboard
Bold	Menus and menu commands, command buttons, tabs, options, and tasks
Italics	References to other documentation or new technol- ogy components
Monospace	Examples, sample command lines, program code, web URL, file name, and program output
Note:	Configuration notes
Tip:	Recommendations
WARNING!	Reminders on actions or configurations that should be avoided

Chapter 1

Introducing Trend Micro Smart Protection Server

This chapter introduces and describes Trend MicroTM Smart Protection Server.

Topics include:

- How Does Trend Micro Smart Protection Server Work? on page 1-2
- What's New on page 1-8
- Trend Micro Smart Protection Network on page 1-11
- About File Reputation on page 1-11
- About Smart Feedback on page 1-12

How Does Trend Micro Smart Protection Server Work?

Trend MicroTM Smart Protection NetworkTM is a next-generation, in-the-cloud based, advanced protection solution. At the core of this solution is an advanced scanning architecture that leverages malware prevention signatures that are stored in-the-cloud.

This solution leverages file reputation and web reputation technology to detect security risks. The technology works by off loading a large number of malware prevention signatures and lists that were previously stored on endpoints to Trend Micro Smart Protection Servers or Trend MicroTM Smart Protection NetworkTM.

Using this approach, the system and network impact of the ever-increasing volume of signature updates to endpoint is significantly reduced.

The Need for a New Solution

In the current approach to file-based threat handling, patterns (or definitions) required to protect an endpoint are, for the most part, delivered on a scheduled basis. Patterns are delivered in batches from Trend Micro to endpoints. When a new update is received, the virus/malware prevention software on the endpoint reloads this batch of pattern definitions for new virus/malware risks into memory. If a new virus/malware risk emerges, this pattern once again needs to be updated partially or fully and reloaded on the endpoint to ensure continued protection.

Over time, there has been a significant increase in the volume of unique emerging threats. The increase in the volume of threats is projected to grow at a near-exponential rate over the coming years. This amounts to a growth rate that far outnumbers the volume of currently known security risks. Going forward, the volume of security risks represents a new type of security risk. The volume of security risks can impact server and workstation performance, network bandwidth usage, and, in general, the overall time it takes to deliver quality protection - or "time to protect".

A new approach to handling the volume of threats has been pioneered by Trend Micro that aims to make Trend Micro customers immune to the threat of virus/malware volume. The technology and architecture used in this pioneering effort leverages technology that off load the storage of virus/malware signatures and patterns to the

cloud. By off loading the storage of these virus/malware signatures to the cloud, Trend Micro is able to provide better protection to customers against the future volume of emerging security risks.

Smart Protection Network Solutions

The cloud-based query process makes use of two network-based technologies:

- Trend MicroTM Smart Protection NetworkTM: A globally scaled, Internet-based, infrastructure that provides services to users who do not have immediate access to their corporate network.
- Smart Protection Server: Smart Protection Servers exist in the local network. This is
 made available for users who have access to their local corporate network. These
 servers are designed to localize operations to the corporate network to optimize
 efficiency.

Tip: Install multiple Smart Protection Servers to ensure the continuity of protection in the event that connection to a Smart Protection Server is unavailable.

These two network-based solutions host the majority of the virus/malware pattern definitions and web reputation scores. Trend MicroTM Smart Protection NetworkTM and Smart Protection Server make these definitions available to other endpoints on the network for verifying potential threats. Queries are only sent to Smart Protection Servers if the risk of the file or URL cannot be determined by the endpoint.

Endpoints leverage file reputation and web reputation technology to perform queries against Smart Protection Servers as part of their regular system protection activities. In this solution, agents send identification information, determined by Trend Micro technology, to Smart Protection Servers for queries. Agents never send the entire file when using file reputation technology. The risk of the file is determined using identification information.

About Pattern Files

The cloud-based query process makes use of a small local pattern file combined with a real-time cloud query system. The cloud query system verifies files, URLs, and other components against a Smart Protection Server during the verification process. Smart Protection Servers use several algorithms for an efficient process that uses minimal network bandwidth usage.

There are three pattern files:

- Smart Scan Pattern: This pattern is downloaded to and available on Smart Protection Servers and Trend Micro Smart Protection Network. This file is updated hourly.
- Smart Scan Agent Pattern: This pattern is stored locally on the endpoint for scans that do not require Smart Protection Servers. This file is updated daily.
- Web Blocking List: Smart Protection Servers download this pattern from Trend Micro ActiveUpdate servers. This pattern is used for Web Reputation queries.

Pattern Update Process

Pattern updates are a response to security threats. Smart Protection Network and Smart Protection Servers download the Smart Scan Pattern file from ActiveUpdate servers. Trend Micro products that support Smart Protection Servers download Smart Scan Agent Patterns from ActiveUpdate servers.

Endpoints within your intranet download Smart Scan Agent Pattern files from Trend Micro products that support Smart Protection Servers. External endpoints are endpoints that are outside of the intranet and unable to connect to Smart Protection Servers or Trend Micro products that support Smart Protection Servers.



FIGURE 1-1. Pattern update process

The Query Process

Endpoints that are currently in your intranet use Smart Protection Servers for queries. Endpoints that are currently not in your intranet can connect to Trend Micro Smart Protection Network for queries.

While a network connection is required for utilizing Smart Protection Servers, endpoints without access to network connection still benefit from Trend Micro technology. Smart Scan Agent Pattern and scan technology that reside on endpoints protect endpoints that do not have access to a network connection.

Agents installed on endpoints first perform scanning on the endpoint. If the agent cannot determine the risk of the file or URL, the agent verifies the risk by sending a query to a Smart Protection Server.

LOCATION	PATTERN FILE AND QUERY BEHAVIOR
Access to intranet	 Pattern Files: Endpoints download the Smart Scan Agent Pattern file from Trend Micro products that support. Queries: Endpoints connect to Smart Protection Server for queries.
Without access to intranet	 Pattern Files: Endpoints do not download the latest Smart Scan Agent Pattern file unless connection to a Trend Micro product that support Smart Protection Servers is available. Queries: Endpoints scan files using local resources such as the Smart Scan Agent Pattern file.

TABLE 1-1. Protection behaviors based on access to intranet

Advanced filtering technology enables the agent to "cache" the query result. This improves scan performance and eliminates the need to send the same query to Smart Protection Servers more than once.

An agent that cannot verify a file's risk locally and cannot connect to any Smart Protection Servers after several attempts will flag the file for verification and temporarily allow access to the file. When connection to a Smart Protection Server is restored, all the files that have been flagged are re-scanned. Then, the appropriate scan action is performed on files that have been confirmed as a threat to your network.

Tip: Install multiple Smart Protection Servers to ensure the continuity of protection in the event that connection to a Smart Protection Server is unavailable.



FIGURE 1-2. Query process

What's New

Table 1-3 is a list of new features for Smart Protection Server:

TABLE 1-2. Version 2.6

NEW FEATURE	DESCRIPTION
Dashboard Enhance- ment	The dashboard can now be displayed on devices that do not support Adobe™ Flash™ Player.
Fixed some minor issues	Trend Micro fixed some minor issues.

TABLE 1-3. Version 2.5

NEW FEATURE	DESCRIPTION
IPv6	This version of Smart Protection Server supports IPv6 environments.
Dashboard Enhance- ment	The dashboard and widgets have a new look and feel. The dashboard also provide new layouts and options.
New Log Types	Blocked Web Access Log: This log only displays Web Reputation queries for malicious websites, based on keywords, the data range, and product entities.
	Reputation Service Log: This log displays informa- tion about File/Web Reputation service status check- ing events. Administrators can delete logs that are no longer needed from the Log Maintenance screen.

TABLE 1-4.Version 2.0

New Feature	DESCRIPTION	
Web Reputation Wid- gets	Additional widgets have been added for Web Reputa- tion.	
Smart Protection	This version of Smart Protection Server includes Web Reputation and Smart Feedback.	
Multilingual User Interface	This version of Smart Protection Server includes Multi- lingual User Interface support, that allows customers to select a preferred display language.	
Logs	This version of Smart Protection Server includes logs for monitoring activity.	
Notifications	This version of Smart Protection Server includes noti- fications for events.	

Features and Benefits

Table 1-5 lists the features and benefits.

TABLE 1-5. Fe	eatures and	benefits
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FEATURES AND BENEFITS		
File Reputation Technology	The corporate network will be better positioned to handle the threat of volume.	
	The overall "time to protect" against emerging threats is greatly decreased.	
	The kernel memory consumption on workstations is sig- nificantly lowered and increases minimally over time.	
	Streamlines administration and simplifies management. The bulk of pattern definition updates only need to be delivered to one server instead of many workstations. This reduces the bulk of the impact of a pattern update on many workstations.	
	Protects against web-based and blended attacks.	
	Stops viruses/malware, Trojans, worms, plus new vari- ants of these security risks.	
	Detects and removes spyware/grayware (including hid- den rootkits).	

FEATURES AND BENEFITS		
Web Reputation Technology	Protects against web-based and blended attacks.	
	Privacy sensitive customers do not need to worry about revealing confidential information through Web Reputa- tion queries to the Smart Protection Network.	
	Smart Protection Server response time to queries is reduced when compared to queries to Smart Protection Network.	
	Installing a Smart Protection Server in your network reduces the gateway bandwidth load.	

TABLE 1-5. Features and benefits (Continued)

Trend Micro Smart Protection Network

The Trend MicroTM Smart Protection Network is a next-generation cloud-client content security infrastructure designed to protect customers from security risks and web threats. It powers both local and hosted solutions to protect users whether they are on the network, at home, or on the go, using light-weight agents to access its unique in-the-cloud correlation of email, web and file reputation technologies, and threat databases. Customers' protection is automatically updated and strengthened as more products, services and users access the network, creating a real-time neighborhood watch protection service for its users.

About File Reputation

File reputation technology from Trend Micro checks the reputation of each file against an extensive in-the-cloud database before permitting user access. Since the malware information is stored in the cloud, it is available instantly to all users. High performance content delivery networks and local caching servers ensure minimum latency during the checking process. The cloud-client architecture offers more immediate protection and eliminates the burden of pattern deployment besides significantly reducing the overall agent footprint.

About Web Reputation

With one of the largest domain-reputation databases in the world, Trend Micro Web reputation technology tracks the credibility of Web domains by assigning a reputation score based on factors such as a Web site's age, historical location changes and indications of suspicious activities discovered through malware behavior analysis. It will then continue to scan sites and block users from accessing infected ones. To increase accuracy and reduce false positives, Trend Micro Web reputation technology assigns reputation scores to specific pages or links within sites instead of classifying or blocking entire sites since often, only portions of legitimate sites are hacked and reputations can change dynamically over time.

Web reputation features help ensure that the web pages that users access are safe and free from web threats, such as malware, spyware, and phishing scams that are designed to trick users into providing personal information. Web reputation blocks web pages based on their reputation ratings. When enabled, Web reputation helps deter users from accessing malicious URLs.

About Smart Feedback

Trend Micro Smart Feedback provides continuous communication between Trend Micro products as well as the company's 24/7 threat research centers and technologies. Each new threat identified through a single customer's routine reputation check automatically updates all Trend Micro threat databases, blocking any subsequent customer encounters of a given threat. By continuously processing the threat intelligence gathered through its extensive global network of customers and partners, Trend Micro delivers automatic, real-time protection against the latest threats and provides "better together" security, much like an automated neighborhood watch that involves the community in protection of others. Because the threat information gathered is based on the reputation of the communication source, not on the content of the specific communication, the privacy of a customer's personal or business information is always protected.

Chapter 2

Using Smart Protection Server

This chapter provides Trend MicroTM Smart Protection Server configuration information.

Topics include:

- Using the Product Console on page 2-2
- Using Smart Protection on page 2-4
- Updating on page 2-8
- Administrative Tasks on page 2-12
- Changing the Product Console Password on page 2-18

Using the Product Console

The product console consists of the following elements:

- Main menu: Provides links to the Summary, Smart Protection, Updates, Logs, and Administration screens.
- Work area: View summary information and component status, configure settings, update components, and perform administrative tasks.

Smart Pro Reputation Service Status: File R Summary Smart Protection Updates	Eputation: 🔗 W	erver /eb Reputation: 🔊 m × Web Reputation -	Logged in as: 👌	admin 💩 Log Off 😒 Help 💟
+ Logs				🌣 Tab Settings 🕂 Add Widgets 🗡
Main Menu	Real Time St	atus & & ? × atest data refresh:07/25/2011 17:41 st	HTTP Traffic Report for File R & & ? × Latest data refresh:07/25/2011 17:39 1 Week 2Week 1 Month 270041 070541	
	Service File Reputation	Protocol Host http:///Pv4 addr.ft http:// IPv6 addr http://viFv4 addr.it http://iPv4 addr.it http://iPv4 addr.it its://iPv6 addr its://iPv6 addr its://ipv6 addr its://ipv6 addr	420 420 2326 421 420 420 420 420 420 420 420 420	Work Area
	Web Reputation	HTTP http://IPv4 addr:5 http:// IPv6 addr :3 http://ocalhost.loca	07/19 07/25	
	Computer S	tatus 🗸		
	<		Active Users for File Reputati 🗶 🌣 📯 🗙	
	Top 10 Infect	ted Computers f 🖉 🌣 🤶 🗙	Latest data refresh:07/25/2011 17:39	

FIGURE 2-1. Summary Screen

MAIN MENU		
Menu	DESCRIPTION	
Summary	Displays customized information about Smart Protec- tion Servers, traffic, and detections when you add wid- gets.	
Smart Protection	Provides options for configuring reputation services, an approved/block URL list, and Smart Feedback.	
Updates	Provides options for configuring scheduled updates, manual program updates, program package uploads, and the update source.	
Logs	Provides options for querying logs and log mainte- nance.	
Administration	Provides options to configure SNMP service, notifica- tions, proxy settings, and collecting diagnostic infor- mation for troubleshooting.	

TABLE 2-1. Contents of Smart Protection Server Main Menu

Accessing the Product Console

After logging on to the web console, the initial screen displays the status summary for Smart Protection Server.

To access the web console:

- **1.** Open a web browser and type the URL indicated on the initial CLI banner after installation.
- 2. Type admin for the user name and the password in the corresponding fields.
- 3. Click Log on.

Using Smart Protection

This version of Smart Protection Server includes File Reputation and Web Reputation services.

Using Reputation Services

Enable Reputation Services from the product console to allow other Trend Micro products to use smart protection.

File Reputation

Enable File Reputation to support queries from endpoints.

Configuring File Reputation

To enable File Reputation:

Navigation Path: Smart Protection > Reputation Services

1. Navigate to the File Reputation Tab.



- 2. Select the Enable File Reputation Service check box.
- **3.** Click **Save**. The Server Address can now be used for File Reputation queries by other Trend Micro products that support Smart Protection Servers.

Web Reputation

Enable Web Reputation to support URL queries from endpoints.

Configuring Web Reputation

To enable Web Reputation:

Navigation Path: Smart Protection > Reputation Services > Web Reputation

1. Navigate to the Web Reputation tab.



- 2. Select the Enable Web Reputation Service check box.
- **3.** (Optional) Specify the priority of the Approved/Blocked URL List when filtering URLs.
- 4. Click Save.

Using the Approved/Blocked URL List

The Approved/Blocked URL List allows you to specify a custom list of approved and/or blocked URLs. This list is used for Web Reputation.

Configuring the Approved/Blocked URL List

To add a rule to the Approved/Blocked URL List:

Navigation Path: Smart Protection > Approved/Blocked URL List

1. Click Add. The Add rule screen displays.

Smart Press	otection Server Logged in as: 👶 admin 🖓 Log Off 😒Help 🔍
Reputation Service Status: File	Reputation: 🥑 Web Reputation: 😣
Summary Smart Protection	Add rule Relp
Paputation Services	Smart Protection > Approved/Blocked URL List > Add rule
Approved/Blocked URL List	✓ Enable this rule
Smart Feedback	Rule
+ Updates	
+ Logs	All subsites This page only
+ Administration	
	Target
	All clients Specify a range IP address: Example: 111.111.1.1 or 111.11.1/11 Domain: For OfficeScan clients, specify the OfficeScan domain. Computer:
	Action
	Approve Block
	Cancel Conter

- 2. Select the **Enable this rule** check box.
- **3.** Select one of the following:
 - URL: to specify a URL and apply to all of the URL's subsites or only one page.
 - URL with keyword: to specify a string and use regular expressions.

Click **Test** to view the results of applying this rule to the most common 20 URLs and the previous day's top 100 URLs in the Web Access Log.

- 4. Select one of the following:
 - All endpoints: to apply to all endpoints.
 - **Specify a range**: to apply to a range of IP addresses, domain names, and computer names.
- 5. Select Approve or Block.
- 6. Click Save.

Using Smart Feedback

Trend Micro Smart Feedback shares anonymous threat information with Trend MicroTM Smart Protection NetworkTM, allowing Trend Micro to rapidly identify and address new threats. You can disable Smart Feedback anytime through this console.

To enable Smart Feedback:

Navigation Path: Smart Protection > Smart Feedback

1. Select Enable Trend Micro Smart Feedback.



- 2. Select your industry.
- **3.** Click **Edit Proxy Settings** to navigate to the Proxy Settings screen if your network uses a proxy server and proxy server settings were not previously configured.
- 4. Click Save.

Updating

The effectiveness of Smart Protection Server depends upon using the latest pattern files and components. Trend Micro releases new versions of the Smart Scan Pattern files hourly.

Tip: Trend Micro recommends updating components immediately after installation.

Configuring Manual Updates

You can perform manual updates for the Smart Scan Pattern and Web Blocking List.

To configure manual updates:

Navigation Path: Updates

- 1. Click Pattern or Program from the drop down menu.
- 2. Click Update Now or Save and Update Now to apply updates immediately.

Configuring Scheduled Updates

Smart Protection Server can perform scheduled updates for the Smart Scan Pattern and Web Blocking List.

To configure scheduled updates:

Navigation Path: Updates

- 1. Click **Pattern** or **Program** from the drop down menu.
- 2. Specify the update schedule.
- 3. Click Save.

Updating Pattern Files

Update pattern files to help ensure that the latest information is applied to queries. A brief description of the available options is below.

- Enable scheduled updates: Select to configure automatic updates every hour or every 15 minutes.
- Update Now: Click to immediately update all pattern files.

Updating Program Files

Update to the latest version of the product program to take advantage of product enhancements.

Performing Updates

There are three ways to update the program file: scheduled updates, manual updates, and by uploading the component.

To configure a scheduled update:

Navigation Path: Updates > Program

1. Select **Enable scheduled updates** and select the update schedule.

Smart F	Protection Server	Logge	d in as: 🚨 admin 🖓 Log Off 🔽Help	🗸
Reputation Service Status: F	ile Reputation: 🧭 Web Reputa	ation: 😰		
Summary	Undator			Halp
 Smart Protection 	opuates	Updates C Help		
= Updates	Updates > Program			
Pattern	Brogrom Status			
Program	Program Status	Current Version	Last Undato	
Source	Casardian Sustan	1000	Tue 20 Jue 2010 02:09:40 DM CCT	
+ Logs	Operating System	1000	Tue 29 Jun 2010 03:08:48 PM CST	
 Administration 	Smart Protection Ser	rver 1000	Tue 29 Jun 2010 03:08:48 PM CST	
		1000	10e 29 Jun 2010 03:08:48 PM CS1	
	Weekly Tuesday	Oally Veekly Tuesday		
	Update Method			
	O Download only			
	 Update automatically 	Update automatically after download		
	Do not automatica	ally update programs that require a resta	rt or reboot.	
	Upload Component			
	Upload program package:		Browse Upload	
	Save Cancel S	Save and Update Now		

- **2.** Select one of the following update methods:
 - **Download only**: Select this check box to download program files without installing them. A message appears on the web product console when program file updates are available for installation.
 - **Update automatically after download:** Select this check box to automatically install program file updates once the updates have been downloaded.
 - Do not automatically update programs that require a restart or reboot: Select this check box to receive a prompt on the web product console if the update requires a restart or reboot. Program updates that do not require a restart or reboot will be installed automatically.
- 3. Click Save.

To perform a manual update:

Navigation Path: Updates > Program

- 1. Select one of the following update methods:
 - **Download only**: Select this check box to download program files without installing them. A message appears on the web product console when program file updates are available for installation.
 - **Update automatically after download**: Select this check box to automatically install program file updates once the updates have been downloaded.
 - Do not automatically update programs that require a restart or reboot: Select this check box to receive a prompt on the web product console if the update requires a restart or reboot. Program updates that do not require a restart or reboot will be installed automatically.
- 2. Click Save and Update Now.

To perform an update by uploading a program file:

Navigation Path: Updates > Program

1. Click Browse... to locate the program file for manual program updates.

Note: Locate the program file that you downloaded from the Trend Micro website or obtained from Trend Micro.

- 2. Locate the file and click **Open**.
- 3. Click Upload.

Configuring an Update Source

Use this screen to specify the update source for File Reputation and Web Reputation. The default update source is Trend Micro ActiveUpdate Server.

Specifying an Update Source

To configure an update source:

Navigation Path: Updates > Source > File Reputation tab | Web Reputation tab

- **1.** Select **Trend Micro ActiveUpdate Server** or select **Other update source** and type a URL.
- 2. Click Save.

Administrative Tasks

Administrative tasks allow you to configure SNMP Service settings, notifications, proxy server settings, or download diagnostic information.

Using SNMP Service

Smart Protection Servers supports SNMP to provide further flexibility in monitoring the product. Configure settings and download the MIB file from the Administration > SNMP Service screen.

Configuring SNMP Service

Configure SNMP Service settings to allow SNMP managing systems to monitor Smart Protection Server status.

To configure SNMP Service:

Navigation Path: Administration > SNMP Service

1. Select the Enable SNMP Service check box.

Smart P	rotection Server		
Reputation Service Status: File	e Reputation: 🥑 Web Reputation: 😫		
Summary	SNMP Service 🛛 🕄 Help		
Smart Protection Updates	Administration > SNMP Service		
 Logs Administration 	SNMP Service Smart Protection Server MIB		
SNMP Service Notifications	Enable SNMP Service		
Proxy Settings	Community name: SmartProtectionServer		
Support	Enable IP restriction		
	IP address:		
	Subnet Mask:		
	Save Cancel		

- 2. Specify a Community name.
- **3.** Select the **Enable IP restriction** check box to prevent unauthorized access to the SNMP service. Classless Inter-Domain Routing (CIDR) is not supported for IP restriction.
- 4. Specify an IP address.
- 5. Specify a subnet mask.
- 6. Click Save.

Downloading the MIB file

Download the MIB file from the web console to use SNMP Service.

To download the MIB file:

Navigation Path: Administration > SNMP Service

- 1. Click **Smart Protection Server MIB** to download the MIB file. A confirmation prompt displays.
- 2. Click Save. The Save As screen displays.
- **3.** Specify the save location.
- 4. Click Save.

The following table provides a description of the Smart Protection Server MIB.

OBJECT NAME	Object Identifier (OID)	DESCRIPTION
Trend-MIB:: TBLVersion	1.3.6.1.4.1.6101 .1.2.1.1	Returns the current Smart Scan Pattern version.
Trend-MIB:: TBLLastSuccessfulUp- date	1.3.6.1.4.1.6101 .1.2.1.2	Returns the date and time of the last successful Smart Scan Pattern update.
Trend-MIB:: LastUpdateError	1.3.6.1.4.1.6101 .1.2.1.3	Returns the status of the last Smart Scan Pattern update. 0 – Last pattern update was successful. <error code=""> - Last pattern update was unsuccessful.</error>
Trend-MIB:: LastUpdateErrorMes- sage	1.3.6.1.4.1.6101 .1.2.1.4	Returns an error message if the last Smart Scan Pat- tern update was unsuc- cessful.
Trend-MIB:: WCSVersion	1.3.6.1.4.1.6101 .1.2.1.5	Returns the current Web Blocking List version.
Trend-MIB:: WCSLastSuccessfulUp- date	1.3.6.1.4.1.6101 .1.2.1.6	Returns the date and time of the last successful Web Blocking List update.

Овјест Nаме	Object Identifier (OID)	DESCRIPTION
Trend-MIB:: WCSLastUpdateError	1.3.6.1.4.1.6101 .1.2.1.7	Returns the status of the last Web Blocking List update. 0 – Last pattern update was successful. <error code=""> - Last pattern update was unsuccessful.</error>
Trend-MIB:: WCSLastUpdateEr- rorMessage	1.3.6.1.4.1.6101 .1.2.1.8	Returns an error message if the last Web Blocking List update was unsuc- cessful.
Trend-MIB:: LastVerifyError	1.3.6.1.4.1.6101 .1.2.2.2	Returns the status of file reputation query. 0 – File reputation query is behaving as expected. <error code=""> - File reputa- tion query is not behaving as expected.</error>

TABLE 2-2 .	Description of Smart Protection Server MIB ((Continued))
			2

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OBJECT NAME	Object Identifier (OID)	DESCRIPTION
Trend-MIB:: WCSLastVerifyError	1.3.6.1.4.1.6101 .1.2.2.3	Returns the status of web reputation query. 0 – Web reputation query is behaving as expected. <error code=""> - Web reputa- tion query is not behaving as expected.</error>
Trend-MIB:: LastVerifyErrorMes- sage	1.3.6.1.4.1.6101 .1.2.2.4	Returns an error message if the last health status of a File Reputation query was unsuccessful.
Trend-MIB:: WCSLastVerifyEr- rorMessage	1.3.6.1.4.1.6101 .1.2.2.5	Returns an error message if the last health status of a Web Reputation query was unsuccessful.

TABLE 2-2.	Description of Smart Protection Server MIB (Continued)	

Configuring Proxy Settings

If you use a proxy server in the network, configure proxy settings.

Note: SOCKS4 proxy configuration has been removed from Smart Protection Server. After upgrading to this version, if in the previous version SOCKS4 was configured for the proxy settings, the proxy settings need to be re-configured.

Specifying Proxy Settings

SOCKS4 proxy configuration has been removed from Smart Protection Server. After upgrading to this version, if in the previous version SOCKS4 was configured for the proxy settings, the proxy settings need to be re-configured.

To configure proxy settings:

Navigation Path: Administration > Proxy Settings

1. Select the Use a proxy server for updates check box.

Smart Pro	Dtection Server
Reputation Service Status: File	Reputation: 🥑 Web Reputation: 😢
Summary	
 Smart Protection 	Proxy Setungs
+ Updates	Administration > Proxy Settings
+ Logs	Proxy Settings
 Administration 	
SNMP Service	Vse a proxy server
Notifications	Proxy protocol: HTTP
Proxy Settings	O SOCKS5
Support	Server name or IP address:
	Port:
	Proxy server authentication:
	User ID:
	Password:
	Save Cancel

- 2. Select HTTP or SOCKS5 for the Proxy protocol.
- 3. Type the server name or IP address.
- 4. Type the port number.
- 5. If your proxy server requires credentials, type the User ID and Password.

6. Click Save.

Downloading System Information for Support

Use the web console to download diagnostic information for troubleshooting and support.

Downloading the System Information File

To download diagnostic information:

Navigation Path: Administration > Support

- 1. Click Start. The download progress screen appears.
- 2. Click Save when the prompt for the downloaded file appears.
- 3. Specify the location and file name.
- 4. Click Save.

Changing the Product Console Password

The product console password is the primary means to protect Smart Protection Server from unauthorized changes. For a more secure environment, change the console password on a regular basis and use a password that is difficult to guess. The admin account password can be changed through the Command Line Interface (CLI). Use the "configure password" command from the CLI to make changes.

Tip: To design a secure password consider the following:

- (1) Include both letters and numbers.
- (2) Avoid words found in any dictionary (of any language).
- (3) Intentionally misspell words.
- (4) Use phrases or combine words.
- (5) Use a combination of uppercase and lowercase letters.
- (6) Use symbols.

To change the product console password using the CLI:

1. Log on to the CLI console with the admin account.

Trend Micro Smart Protection Server			
Use one of the following addresses with your Trend Micro client management products for File Reputation commections:			
https:// IPv4 addr /tmcss http:// IPv4 addr /tmcss https://[IPv6 addr]/tmcss http://[IPv6 addr]/tmcss https://IMSPS25.trendmicro.com/tmcss http://IMSPS25.trendmicro.com/tmcss			
Use the following address with your Trend Micro client management products for Web Reputation connections:			
http:///IPv4_addr_:5274 http://[IPv6_addr]:5274 http://TMSPS25.trendmicro.com:5274			
Use the following URL to access the Web product console:			
https:// IPv4 addr :4343 https://[IPv6 addr]:4343 https://IMSFS25.trendmicro.com:4343			

2. Type the following to enable administrative commands:

enable

3. Type the following command:

configure password admin

- **4.** Type the new password.
- 5. Type the new password a second time to confirm the password.

Chapter 3

Monitoring Smart Protection Server

Monitor Trend Micro[™] Smart Protection Server with logs and from the Summary screen with widgets.

Topics include:

- Using the Summary Screen on page 3-2
- Using Widgets on page 3-3
- Logs on page 3-5
- Configuring Notifications on page 3-6

Using the Summary Screen

The Summary screen can display customized information about Smart Protection Servers, traffic, and detections.

You can do the following with the Summary screen:

- Add widgets that display information such as real time status, the number of active users, endpoints with the highest number of infections, endpoints with the highest number of blocked URLs, and server traffic.
- Organize widgets using tabs.
- Customize tab layout to display different numbers of columns that align the widgets.
- View information from multiple Smart Protection Servers.

Smart Protection Server supports both HTTP and HTTPS protocols for File Reputation service connections and HTTP protocol for Web Reputation service connections. HTTPS provides a more secure connection while HTTP uses less bandwidth. Smart Protection Server addresses are displayed on the Command Line Interface (CLI) console banner.

Reputation Service Status:	File Reputation: 🥑 Web Repu	itation: 🥑					
Summary						6	Server Visibility
 Smart Protection 						-	-
• Updates	File Reputation ×	web Reputation	+				
Logs						🖸 Tab Settings	🚹 Add Widgets
Administration							
	Real Time Status		1	\$? X	HTTP Traffic Report for File Reputation		2\$?×
	📀 localhost		Latest data refresh:07/21/2	011 20:48	1 Week 2 Weeks 1 Month	Latest data refres)	07/21/2011 20:4 07/15/11-07/21/1
	Service	Protocol	Host	^			
	File Reputation	HTTP, HTTPS	http:///EV4 addr.tmcss http:// I' IPV6 addr http://ocehost.localdomeintmcss https://IPV4 addr.tmcss https:// I IPV6 addr Ittps://enterlinesiteses	Junc Junc	420 (3) 252 168 0 07/15		
	Web Reputation	HTTP	http://IPv4 addr:5274 http:// I IPv6 addr http://ocelhost.jocaldomein:5274	3:527		0 oralhost	7/21
	Computer Status			~	-		
	<			>			
					Active Users for File Reputation		2\$?×
	Top 10 Infected Com	puters for File R	eputation 🧷	\$? X		(steet data refrect	
	1 Mieek 12 Weeks 11 Mc	off	Latest data refresh:07/21/2	011 20:45	1 Week 2 Weeks 1 Month	Latest data refresi	07/21/201 07/15/11-0

FIGURE 3-1. Summary Screen

To view customized information, add widgets to this screen. Drag and drop widgets to change the display order.

Using Tabs

Customize and manage widgets by adding and configuring tabs. Up to 30 tabs can be added.

To add a new tab:

Navigation Path: Summary

- 1. Click from the work area.
- 2. Specify the **Title**.
- 3. Select the Layout.

Note: The tab layout can be changed by clicking Tab Settings.

- 4. Select Auto-fit to specify that all widgets in a tab have the same height.
- 5. Click Save.

Using Widgets

Widgets allow you to customize the information displayed on the Summary screen. New widgets can be added to the web console. Widgets can be dragged and dropped to customize the order in which they display. Available widget packages can be downloaded and updated by using the Program Update screen. After updating the widget package, the new widget can be added from the Summary screen.

Adding Widgets

Select from a list of available widgets to add to each tab.

To add widgets:

Navigation Path: Summary

- 1. Click Add widgets from the work area.
- 2. Select the widgets that you want to add.
- 3. Click Add.

Editing Server Information in Widgets

Editing server information is the same for all widgets. View information from multiple scan servers on one widget by selecting servers from the list of servers that displays.

To edit server information displayed in widgets:

- 1. Click the edit icon *i* in the upper left hand corner of the widget.
- 2. Select the check box for the Smart Protection Server to add to the information displayed in the widget.
- **3.** Click **Save**. The widget automatically refreshes and displays the information of the selected scan servers.
- **Note:** Smart Protection Server Addresses are used with Trend Micro products that manage endpoints. Server Addresses are used for configuring endpoint connections to Smart Protection Servers.

Refreshing Server Information in Widgets

Refreshing server information is the same for all widgets. When you click the refresh button, only information from selected servers will refresh.

Removing a Widget from a Tab

Click the close button 🗵 to remove a widget from a tab. The widget no longer displays.

Logs

Use logs to monitor the status of Smart Protection Server. To view log information, perform a query.

Blocked Web Access Log

The Blocked Web Access Log screen displays information for Web Reputation queries that return malicious results.

Viewing Blocked Web Access Log Entries

To view Blocked Web Access Log entries:

Navigation Path: Logs > Blocked Web Access Log

- 1. Specify the search criteria.
- 2. Click Display Log.

Reputation Service Log

The Reputation Service Log screen displays service status information for Web Reputation and File Reputation.

Viewing Reputation Service Log Entries

To view Reputation Service Log entries:

Navigation Path: Logs > Reputation Service Log

- **1.** Specify the search criteria.
- 2. Click Display Log.

Update Log

The Update Log screen displays information about pattern or program file updates. A brief description of the available options is below.

• **Date Range**: Select the date range that the update took place.

• **Type**: Select the type of update to display.

Viewing Update Log Entries

To view Update Log entries:

Navigation Path: Logs > Update Log

- 1. Specify the search criteria by selecting a date range or type.
- 2. Click Display Log.

Log Maintenance

Perform log maintenance to delete logs that are no longer needed.

Performing Log Maintenance

To perform log maintenance:

Navigation Path: Logs > Log Maintenance

- 1. Select the log types to purge.
- 2. Select to delete all logs or logs older than a specified number of days.
- 3. Select a purge schedule or click **Purge Now**.
- 4. Click Save.

Configuring Notifications

You can configure Smart Protection Server to send email message or Simple Network Management Protocol (SNMP) trap notifications to designated individuals when there is a status change in services or updates.

Email Notifications

Configure email notification settings to notify administrators through email messages when there is a status change in services or updates.

Configuring Email Notifications

To configure email notifications:

Navigation Path: Administration > Notifications

1. Click the **Email** tab. The tab for email notifications appears.

Smart Pro	Dtection Server
Reputation Service Status: File	Reputation: 🧭 Web Reputation: 😣
Summary	Notifications Rela
+ Smart Protection	Notifications
+ Updates	Administration > Notifications
+ Logs	Use this serves to send actifications to administrators when a servely visk is detected
 Administration 	ose this screen to send notifications to autimistrators when a security risk is detected.
SNMP Service	Email SNMP Trap
Notifications 🕨	Email Notification
Proxy Settings	
Support	SMTP server:
	Port number:
	From:
	Events
	Services
	E File Reputation Status Change 🛞
	E web Barratalian Glasse Glasse 🖗
	web Reputation Status Change 🎯
	Pattern Update Status Change (8)
	_
	Updates
	🔲 Program Update Download was Unsuccessful 🛞
	🔲 Program Update Available 😵
	Program Update Status 🛞
	Program Update Restarted Smart Protection Server or Related Services 🋞
	Save Cancel

- 2. Select the **Services** check box or select from the following check boxes:
 - File Reputation Status Change: Select to send a notification for status changes and specify the recipient, subject, and message.
 - Web Reputation Status Change: Select to send a notification for status changes and specify the recipient, subject, and message.
 - **Pattern Update Status Change:** Select to send a notification for status changes and specify the recipient, subject, and message.
- 3. Select the **Updates** check box or select from the following:
 - **Program Update Download was Unsuccessful:** Select to send a notification for this event and specify the recipient, subject, and message.
 - **Program Update Available:** Select to send a notification for this event and specify the recipient, subject, and message.
 - **Program Update Status**: Select to send a notification for this event and specify the recipient, subject, and message.
 - **Program Update Restarted Smart Protection Server or Related Services**: Select to send a notification for this event and specify the recipient, subject, and message.
- 4. Type the SMTP server IP address in the **SMTP server** field.
- 5. Type the SMTP port number.
- 6. Type an email address in the **From** field. All email notifications will show this address in the From field of email messages.
- 7. Click Save.

SNMP Trap Notifications

Configure Simple Network Management Protocol (SNMP) notification settings to notify administrators through SNMP trap when there is a status change in services.

Configuring SNMP Trap Notifications

To configure SNMP trap notifications:

Navigation Path: Administration > Notifications

1. Click the **SNMP Trap** tab. The tab for SNMP trap notifications appears.

🕖 TREND Smart Pro	Dtection Server	
Reputation Service Status: File I	Reputation: 💋 Web Reputation: 🔇	
Summary Smart Protection	Notifications	
+ Updates	Administration > Notifications	
 Logs Administration 	Use this screen to send notifications to administrators when a security risk is detected.	
SNMP Service	Email SNMP Trap	
Notifications 🕨	SNMP Trap	
Proxy Settings Support	Server IP address:	
	Community name:	
	Events	
	Services	
	🔲 File Reputation Status Change 🋞	
	🗌 Web Reputation Status Change 🛞	
	Pattern Update Status Change 🎯	
	Save Cancel	

- 2. Select the **Services** check box or select from the following:
 - File Reputation Status Change: Select to send a notification for status changes and specify the message.
 - Web Reputation Status Change: Select to send a notification for status changes and specify the message.
 - **Pattern Update Status Change**: Select to send a notification for status changes and specify the message.
- 3. Type the SNMP trap server IP address.
- 4. Type the SNMP community name.
- 5. Click Save.

Chapter 4

Troubleshooting and Contact Information

Trend Micro is committed to providing service and support that exceeds our users' expectations. This chapter contains information on how to get technical support. Remember, you must register your product to be eligible for support.

Topics include:

- Before Contacting Technical Support on page 4-2
- Contacting Trend Micro on page 4-2
- TrendLabs on page 4-3
- Known Issues on page 4-3

Before Contacting Technical Support

Before contacting technical support, here are two things you can quickly do to try and find a solution to your problem:

- Check your documentation: Search documents to see if they contain your solution.
- Visit the Trend Micro Technical Support Website: The Trend Micro Technical Support website contains the latest information about all Trend Micro products. The support website has answers to previous user inquiries.

To search the Knowledge Base, visit

http://esupport.trendmicro.com

Contacting Trend Micro

In addition to phone support, Trend Micro provides the following resources:

- Readme: late-breaking product news, installation instructions, known issues, and version specific information
- Knowledge Base: technical information procedures provided by the Support team:

http://esupport.trendmicro.com

• Product updates and patches

http://downloadcenter.trendmicro.com/

• To locate the Trend Micro office nearest you, visit:

http://us.trendmicro.com/us/about-us/contact/index.html

• Email support

support@trendmicro.com

To speed up the problem resolution, when you contact our staff please provide as much of the following information as you can:

- 1. Product build version
- 2. Virtualization platform (VMwareTM or Hyper-VTM) and version
- 3. Exact text of the error message, if any
- 4. Steps to reproduce the problem
- 5. Collect system information from the web console.

TrendLabs

Trend Micro TrendLabsSM is a global network of virus prevention and Web threat research and product support centers providing continuous 24/7 coverage to Trend Micro customers worldwide.

Staffed by a team of more than 250 engineers and skilled support personnel, the TrendLabs dedicated service centers worldwide ensure rapid response to any virus outbreak or urgent customer support issue, anywhere in the world.

The TrendLabs modern headquarters has earned ISO 9002 certification for its quality management procedures in 2000 - one of the first antivirus research and support facilities to be so accredited. Trend Micro believes TrendLabs is the leading service and support team in the antivirus industry.

For more information about TrendLabs, visit:

http://www.trendmicro.com/en/security/trendlabs/overview.htm

Known Issues

Known issues document unexpected product behavior that might require a temporary work around. Trend Micro recommends always checking the Readme file for information about system requirements and known issues that could affect installation or performance. Readme files also contain a description of what's new in a particular release, and other helpful information.

The latest known issues and possible workarounds can also be found in the Trend Micro Knowledge Base:

http://esupport.trendmicro.com

About Hot Fixes, Patches, and Service Packs

After an official product release, Trend Micro often develops hot fixes, patches and service packs to address outstanding issues, enhance product performance, and add new features.

The following is a summary of the items Trend Micro may release:

- Hot Fix: a work-around or solution to customer-reported issues. Trend Micro develops and releases hot fixes to specific customers only.
- Security Patch: a single hot fix or group of hot fixes suitable for deployment to all customers
- Patch: a group of security patches suitable for deployment to all customers
- Service Pack: significant feature enhancements that upgrade the product

Your vendor or support provider may contact you when these items become available. Check the Trend Micro website for information on new hot fix, patch, and service pack releases:

http://downloadcenter.trendmicro.com/

All releases include a readme file that contains installation, deployment, and configuration information. Read the readme file carefully before performing installation.

Appendix A

Command Line Interface (CLI) Commands

This section describes the Command Line Interface (CLI) commands that you can use in the product to perform monitoring, debugging, troubleshooting, and configuration tasks.

Topics include:

• List of Commands on page A-2

List of Commands

This section describes the Command Line Interface (CLI) commands that you can use in the product to perform monitoring, debugging, troubleshooting, and configuration tasks. Log on to the CLI through the virtual machine with your admin account. CLI commands allow administrators to perform configuration tasks and to perform debug and troubleshooting functions. The CLI interface also provides additional commands to monitor critical resources and functions. To access the CLI interface, you will need to have the administrator account and password.

COMMAND	Syntax	DESCRIPTION
configure date	configure date <date> <time></time></date>	Configure date and save to CMOS
		<i>date</i> DATE_FIELD [DATE_FIELD]
		time TIME_FIELD [TIME_FIELD]
configure dns ipv4	configure dns ipv4 <dns1> [dns2]</dns1>	Configure IPv4 DNS set- tings
		<i>dns1</i> <u>IPv4_ADDR</u> Primary DNS server
		<i>dns2</i> <u>IPv4_ADDR</u> Second- ary DNS server []
configure dns ipv6	configure dns ipv6 <dns1> [dns2]</dns1>	Configure IPv6 DNS set- tings
		<i>dns1</i> <u>IPv6_ADDR</u> Primary DNS server
		<i>dns2</i> <u>IPv6_ADDR</u> Second- ary DNS server []

TABLE A-1. Command Line Interface (CLI) Commands

COMMAND	Syntax	DESCRIPTION
configure hostname	configure hostname <hostname></hostname>	Configure the hostname hostname <u>HOSTNAME</u> Hostname or FQDN
configure locale de_DE	configure locale de_DE	Configure system locale to German
configure locale en_US	configure locale en_US	Configure system locale to English
configure locale es_ES	configure locale es_ES	Configure system locale to Spanish
configure locale fr_FR	configure locale fr_FR	Configure system locale to French
configure locale it_IT	configure locale it_IT	Configure system locale to Italian
configure locale ja_JP	configure locale ja_JP	Configure system locale to Japanese
configure locale ko_KR	configure locale ko_KR	Configure system locale to Korean
configure locale ru_RU	configure locale ru_RU	Configure system locale to Russian
configure locale zh_CN	configure locale zh_CN	Configure system locale to Chinese(Simplified)
configure locale zh_TW	configure locale zh_TW	Configure system locale to Chinese(Traditional)

COMMAND	Syntax	DESCRIPTION
configure ipv4 dhcp	configure ipv4 dhcp [vlan]	Configure the default Ethernet interface to use DHCP
		vlan VLAN_ID VLan ID [1-4094], default none VLan: [0]
configure ipv4 static	configure ipv4 static <ip> <mask> <gateway> [vlan]</gateway></mask></ip>	Configure the default Ethernet interface to use the static IPv4 configura- tion
		vlan VLAN_ID VLan ID [1-4094], default none VLan: [0]
configure ipv6 auto	configure ipv6 auto [vlan]	Configure the default Ethernet interface to use the automatic neighbor discovery IPv6 configura- tion
		vlan VLAN_ID VLan ID [1-4094], default none VLan: [0]
configure ipv6 dhcp	configure ipv6 dhcp [vlan]	Configure the default Ethernet interface to use the dynamic IPv6 configu- ration (DHCPv6) vlan VLAN_ID VLan ID [1-4094], default none VLan: [0]

 TABLE A-1.
 Command Line Interface (CLI) Commands (Continued)

Command	Syntax	DESCRIPTION
configure ipv6 static	configure ipv6 static <v6ip> <v6mask> <v6gate> [vlan]</v6gate></v6mask></v6ip>	Configure the default Ethernet interface to use the static IPv6 configura- tion vlan VLAN_ID VLan ID [1-4094], default none VLan: [0]
configure password	configure password <user></user>	Configure account pass- word
		<i>user</i> <u>USER</u> The user name for which you want to change the password. The user could be 'admin', 'root', or any user in the Smart Protection Server's Administrator group.
configure service	configure service inter-face <ifname></ifname>	Configure the default server settings
configure timezone Africa Cairo	configure timezone Africa Cairo	Configure timezone to Africa/Cairo location.
configure timezone Africa Harare	configure timezone Africa Harare	Configure timezone to Africa/Harare location.
configure timezone Africa Nairobi	configure timezone Africa Nairobi	Configure timezone to Africa/Nairobi location
configure timezone America Anchorage	configure timezone America Anchorage	Configure timezone to America/Anchorage loca-tion
configure timezone America Bogota	configure timezone America Bogota	Configure timezone to America/Bogota location

Command	Syntax	DESCRIPTION
configure timezone America Buenos_Aires	configure timezone America Buenos_Aires	Configure timezone to America/Buenos_Aires location
configure timezone	configure timezone	Configure timezone to
America Caracas	America Caracas	America/Caracas location
configure timezone	configure timezone	Configure timezone to
America Chicago	America Chicago	America/Chicago location
configure timezone America Chihuahua	configure timezone America Chihuahua	Configure timezone to America/Chihuahua loca-tion
configure timezone	configure timezone	Configure timezone to
America Denver	America Denver	America/Denver location
configure timezone	configure timezone	Configure timezone to
America Godthab	America Godthab	America/Godthab location
configure timezone	configure timezone	Configure timezone to
America Lima	America Lima	America/Lima location
configure timezone America Los_Angeles	configure timezone America Los_Angeles	Configure timezone to America/Los_Angeles location
configure timezone America Mexico_City	configure timezone America Mexico_City	Configure timezone to America/Mexico_City loca- tion
configure timezone America New_York	configure timezone America New_York	Configure timezone to America/New_York loca-tion
configure timezone	configure timezone	Configure timezone to
America Noronha	America Noronha	America/Noronha

TABLE A-1.	Command Line	Interface (CL	I) Commands	(Continued)
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COMMAND	Syntax	DESCRIPTION
configure timezone	configure timezone	Configure timezone to
America Phoenix	America Phoenix	America/Phoenix
configure timezone	configure timezone	Configure timezone to
America Santiago	America Santiago	America/Santiago
configure timezone America St_Johns	configure timezone America St_Johns	Configure timezone to America/St_Johns
configure timezone	configure timezone	Configure timezone to
America Tegucigalpa	America Tegucigalpa	America/Tegucigalpa
configure timezone Asia Almaty	configure timezone Asia Almaty	Configure timezone to Asia/Almaty location
configure timezone Asia Baghdad	configure timezone Asia Baghdad	Configure timezone to Asia/Baghdad location
configure timezone	configure timezone Asia	Configure timezone to
Asia Baku	Baku	Asia/Baku location
configure timezone	configure timezone Asia	Configure timezone to
Asia Bangkok	Bangkok	Asia/Bangkok location
configure timezone Asia Calcutta	configure timezone Asia Calcutta	Configure timezone to Asia/Calcutta location
configure timezone	configure timezone Asia	Configure timezone to
Asia Colombo	Colombo	Asia/Colombo location
configure timezone	configure timezone Asia	Configure timezone to
Asia Dhaka	Dhaka	Asia/Dhaka location
configure timezone Asia Hong_Kong	configure timezone Asia Hong_Kong	Configure timezone to Asia/Hong_Kong location
configure timezone	configure timezone Asia	Configure timezone to
Asia Irkutsk	Irkutsk	Asia/Irkutsk location

COMMAND	Syntax	DESCRIPTION
configure timezone	configure timezone Asia	Configure timezone to
Asia Jerusalem	Jerusalem	Asia/Jerusalem location
configure timezone	configure timezone Asia	Configure timezone to
Asia Kabul	Kabul	Asia/Kabul location
configure timezone	configure timezone Asia	Configure timezone to
Asia Karachi	Karachi	Asia/Karachi location
configure timezone	configure timezone Asia	Configure timezone to
Asia Katmandu	Katmandu	Asia/Katmandu location
configure timezone	configure timezone Asia	Configure timezone to
Asia Krasnoyarsk	Krasnoyarsk	Asia/Krasnoyarsk location
configure timezone Asia Kuala_Lumpur	configure timezone Asia Kuala_Lumpur	Configure timezone to Asia/Kuala_Lumpur loca-tion
configure timezone	configure timezone Asia	Configure timezone to
Asia Kuwait	Kuwait	Asia/Kuwait location
configure timezone	configure timezone Asia	Configure timezone to
Asia Magadan	Magadan	Asia/Magadan location
configure timezone	configure timezone Asia	Configure timezone to
Asia Manila	Manila	Asia/Manila location
configure timezone	configure timezone Asia	Configure timezone to
Asia Muscat	Muscat	Asia/Muscat location
configure timezone	configure timezone Asia	Configure timezone to
Asia Rangoon	Rangoon	Asia/Rangoon location
configure timezone	configure timezone Asia	Configure timezone to
Asia Seoul	Seoul	Asia/Seoul location
configure timezone	configure timezone Asia	Configure timezone to
Asia Shanghai	Shanghai	Asia/Shanghai location

TABLE A-1.	Command Line	Interface (CLI)	Commands	(Continued)
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COMMAND	Syntax	DESCRIPTION
configure timezone Asia Singapore	configure timezone Asia Singapore	Configure timezone to Asia/Singapore location
configure timezone Asia Taipei	configure timezone Asia Taipei	Configure timezone to Asia/Taipei location
configure timezone Asia Tehran	configure timezone Asia Tehran	Configure timezone to Asia/Tehran location
configure timezone Asia Tokyo	configure timezone Asia Tokyo	Configure timezone to Asia/Tokyo location
configure timezone Asia Yakutsk	configure timezone Asia Yakutsk	Configure timezone to Asia/Yakutsk location
configure timezone Atlantic Azores	configure timezone Atlantic Azores	Configure timezone to Atlantic/
configure timezone Australia Adelaide	configure timezone Aus-tralia Adelaide	Configure timezone to Australia/Adelaide loca-tion
configure timezone Australia Brisbane	configure timezone Aus-tralia Brisbane	Configure timezone to Australia/Brisbane loca-tion
configure timezone Australia Darwin	configure timezone Aus-tralia Darwin	Configure timezone to Australia/Darwin location
configure timezone Australia Hobart	configure timezone Aus-tralia Hobart	Configure timezone to Australia/Hobart location
configure timezone Australia Melbourne	configure timezone Aus-tralia Melbourne	Configure timezone to Australia/Melbourne loca-tion
configure timezone Australia Perth	configure timezone Aus-tralia Perth	Configure timezone to Australia/

COMMAND	Syntax	DESCRIPTION
configure timezone Europe Amsterdam	configure timezone Europe Amsterdam	Configure timezone to Europe/Amsterdam loca-tion
configure timezone Europe Athens	configure timezone Europe Athens	Configure timezone to Europe/Athens location
configure timezone Europe Belgrade	configure timezone Europe Belgrade	Configure timezone to Europe/Belgrade location
configure timezone Europe Berlin	configure timezone Europe Berlin	Configure timezone to Europe/Berlin location
configure timezone Europe Brussels	configure timezone Europe Brussels	Configure timezone to Europe/Brussels location
configure timezone Europe Bucharest	configure timezone Europe Bucharest	Configure timezone to Europe/Bucharest location
configure timezone Europe Dublin	configure timezone Europe Dublin	Configure timezone to Europe/Dublin location
configure timezone Europe Moscow	configure timezone Europe Moscow	Configure timezone to Europe/Moscow location
configure timezone Europe Paris	configure timezone Europe Paris	Configure timezone to Europe/Paris location
configure timezone Pacific Auckland	configure timezone Pacific Auckland	Configure timezone to Pacific/Auckland location
configure timezone Pacific Fiji	configure timezone Pacific Fiji	Configure timezone to Pacific/Fiji location
configure timezone Pacific Guam	configure timezone Pacific Guam	Configure timezone to Pacific/Guam location
configure timezone Pacific Honolulu	configure timezone Pacific Honolulu	Configure timezone to Pacific/Honolulu location

TABLE A-1.	Command Line	Interface (CLI) Commands	(Continued)
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COMMAND	Syntax	DESCRIPTION
configure timezone Pacific Kwajalein	configure timezone Pacific Kwajalein	Configure timezone to Pacific/Kwajalein location
configure timezone Pacific Midway	configure timezone Pacific Midway	Configure timezone to Pacific/Midway location
configure timezone US Alaska	configure timezone US Alaska	Configure timezone to US/Alaska location
configure timezone US Arizona	configure timezone US Arizona	Configure timezone to US/Arizona location
configure timezone US Central	configure timezone US Central	Configure timezone to US/Central location
configure timezone US East-Indiana	configure timezone US East-Indiana	Configure timezone to US/East-Indiana location
configure timezone US Eastern	configure timezone US Eastern	Configure timezone to US/Eastern location
configure timezone US Hawaii	configure timezone US Hawaii	Configure timezone to US/Hawaii location
configure timezone US Mountain	configure timezone US Mountain	Configure timezone to US/Mountain location
configure timezone US Pacific	configure timezone US Pacific	Configure timezone to US/Pacific location
disable adhoc-query	disable adhoc-query	Disable Web Access Log
disable ssh	disable ssh	Disable the sshd daemon
enable	enable	Enable administrative commands
enable adhoc-query	enable adhoc-query	Enable Web Access Log

COMMAND	Syntax	DESCRIPTION
enable hyperv-ic	enable hyperv-ic	Enable Hyper-V Linux Integration Components on Smart Protection Server
enable ssh	enable ssh	Enable the sshd daemon
exit	exit	Exit the session
help	help	Display an overview of the CLI syntax.
history	history [limit]	Display the current ses- sion's command line his- tory <i>limit</i> specifies the number of CLI commands to dis- play. Example: Specifying a [limit] of "5" means 5 CLI commands display.
reboot	reboot [time]	Reboot this machine after a specified delay or imme- diately <i>time</i> <u>UNIT</u> Time in minutes to reboot this machine [0]
show date	show date	Display current date/time
show hostname	show hostname	Display network host-name
show interfaces	show interfaces	Display network interface information
show ipv4 address	show ipv4 address	Display network IPv4 address

TABLE A-1.	Command Line Interface (CLI) Commands (Continue	ed)
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COMMAND	Syntax	DESCRIPTION
show ipv4 dns	show ipv4 dns	Display network IPv4 DNS servers
show ipv4 gateway	show ipv4 gateway	Display network IPv4 gate- way
show ipv4 route	show ipv4 route	Display network IPv4 rout- ing table
show ipv4 type	show ipv4 type	Display network IPv4 con- figuration type (dhcp / static)
show ipv6 address	show ipv6 address	Display network IPv6 address
show ipv6 dns	show ipv6 dns	Display network IPv6 DNS servers
show ipv6 gateway	show ipv6 gateway	Display network IPv6 gate- way
show ipv6 route	show ipv6 route	Display network IPv6 rout- ing table
show ipv6 type	show ipv6 type	Display network IPv6 con- figuration type (auto / dhcp / static)
show timezone	show timezone	Display network timezone
show uptime	show uptime	Display current system uptime
show url manage- ment	show url management	Display web management console URL

COMMAND	Syntax	DESCRIPTION
show url FileReputa- tionService	show url FileReputation- Service	Display endpoint connec- tion addresses for File Reputation Service
show url WebRepu- tationService	show url WebReputation- Service	Display endpoint connec- tion addresses for Web Reputation Service
shutdown	shutdown [time]	Shut down this machine after a specified delay or immediately
		<i>time</i> <u>UNIT</u> Time in minutes to shutdown this machine [0]

TABLE A-1. Command Line Inter	face (CLI) Commands (Continued)
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Glossary

This glossary describes special terms used in the product documentation set.

Term	EXPLANATION
activate	To enable your software after completion of the regis- tration process. Trend Micro products will not be oper- able until product activation is complete. Activate during installation or after installation (in the manage- ment console) on the Product License screen.
ActiveUpdate	ActiveUpdate is a function common to many Trend Micro products. Connected to the Trend Micro update website, ActiveUpdate provides up-to-date downloads of virus pattern files, scan engines, and program files via the Internet or the Trend Micro Total Solution CD.
address	Refers to a networking address (see IP address) or an email address, which is the string of characters that specify the source or destination of an email message.

Glossary of Terms TABLE G-1.

	specify the source or destination of an email message.
administrator	Refers to "system administrator"—the person in an organization who is responsible for activities such as setting up new hardware and software, allocating user names and passwords, monitoring disk space and other IT resources, performing backups, and managing network security.
administrator account	A user name and password that has administra- tor-level privileges.
antivirus	Computer programs designed to detect and clean computer viruses.
Term	EXPLANATION
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authentication	The verification of the identity of a person or a pro- cess. Authentication ensures that digital data trans- missions are delivered to the intended receiver. Authentication also assures the receiver of the integ- rity of the message and its source (where or whom it came from).
	The simplest form of authentication requires a user name and password to gain access to a particular account. Authentication protocols can also be based on secret-key encryption, such as the Data Encryption Standard (DES) algorithm, or on public-key systems using digital signatures.
	Also see public-key encryption and digital signature.
client	A computer system or process that requests a service of another computer system or process (a "server") using some kind of protocol and accepts the server's responses. A client is part of a client-server software architecture.
configuration	Selecting options for how your Trend Micro product will function, for example, selecting whether to quarantine or delete a virus-infected email message.
default	A value that pre-populates a field in the management console interface. A default value represents a logical choice and is provided for convenience. Use default values as-is, or change them.
(administrative) domain	A group of computers sharing a common database and security policy.

TABLE G-1.	Glossary	of Terms	(Continued)
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TABLE G-1.	Glossary of Terms	(Continued)
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Term	EXPLANATION
domain name	The full name of a system, consisting of its local host name and its domain name, for example, tellsitall.com. A domain name should be sufficient to determine a unique Internet address for any host on the Internet. This process, called "name resolution", uses the Domain Name System (DNS).
download (noun)	Data that has been downloaded, for example, from a website via HTTP.
download (verb)	To transfer data or code from one computer to another. Downloading often refers to transfer from a larger "host" system (especially a server or mainframe) to a smaller "client" system.
FAQ	Frequently Asked Questions—A list of questions and answers about a specific topic.
file	An element of data used for storage, such as an email message or HTTP download.
file type	The kind of data stored in a file. Most operating sys- tems use the file name extension to determine the file type. The file type is used to choose an appropriate icon to represent the file in a user interface, and the correct application with which to view, edit, run, or print the file.
spyware/grayware	A category of software that may be legitimate, unwanted, or malicious. Unlike threats such as viruses, worms, and Trojans, grayware does not infect, replicate, or destroy data, but it may violate your pri- vacy. Examples of grayware include spyware, adware, and remote access tools.
gateway	A gateway is a program or a special-purpose device that transfers IP datagrams from one network to another until the final destination is reached.

Term	EXPLANATION
GUI	Graphical User Interface—The use of pictures rather than just words to represent the input and output of a program. This contrasts with a command line interface where communication is by exchange of strings of text.
hard disk (or hard drive)	One or more rigid magnetic disks rotating about a cen- tral axle with associated read/write heads and elec- tronics, used to read and write hard disks or floppy disks, and to store data. Most hard disks are perma- nently connected to the drive (fixed disks) though there are also removable disks.
НТТР	Hypertext Transfer Protocol—The client-server TCP/IP protocol used on the World Wide Web for the exchange of HTML documents. It conventionally uses port 80.
HTTPS	Hypertext Transfer Protocol Secure—A variant of HTTP used for handling secure transactions.
host	A computer connected to a network.
Internet	A client-server hypertext information retrieval system, based on a series of networks connected with routers. The Internet is a modern information system and a widely accepted medium for advertising, online sales, and services, as well as university and many other research networks. The World Wide Web is the most familiar aspect of the Internet.
Internet Protocol (IP)	An Internet standard protocol that defines a basic unit of data called a datagram. A datagram is used in a connectionless, best-effort, delivery system. The Inter- net protocol defines how information gets passed between systems across the Internet.

TABLE G-1. Glossary of Terms (Continued)

TABLE G-1.	Glossary of Term	s (Continued)
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Term	EXPLANATION
intranet	Any network which provides similar services within an organization to those provided by the Internet outside it, but which is not necessarily connected to the Internet.
IP	Internet Protocol—See IPv4 address or IPv6 address.
IPv4 address	Internet address for a device on a network, typically expressed using dot notation such as 123.123.123.123.
IPv6 address	Internet address for a device on a network, typically expressed as 1234:1234:1234:1234:1234:1234:1234:1234:
IT	Information technology, to include hardware, software, networking, telecommunications, and user support.
Java file	Java is a general-purpose programming language developed by Sun Microsystems. A Java file contains Java code. Java supports programming for the Internet in the form of platform-independent Java "applets." (An applet is a program written in Java programming language that can be included in an HTML page. When you use a Java-technology enabled browser to view a page that contains an applet, the applet's code is transferred to your system and is executed by the browser's Java Virtual Machine.)
Java malicious code	Virus code written or embedded in Java. <i>Also see</i> Java file.

Term	EXPLANATION
JavaScript virus	JavaScript is a simple programming language devel- oped by Netscape that allows web developers to add dynamic content to HTML pages displayed in a browser using scripts. Javascript shares some fea- tures of Sun Microsystems Java programming lan- guage, but was developed independently.
	A JavaScript virus is a virus that is targeted at these scripts in the HTML code. This enables the virus to reside in web pages and download to a user's desktop through the user's browser.
	Also see VBscript virus.
КВ	Kilobyte—1024 bytes of memory.
license	Authorization by law to use a Trend Micro product.
link (also called hyperlink)	A reference from some point in one hypertext docu- ment to some point in another document or another place in the same document. Links are usually distin- guished by a different color or style of text, such as underlined blue text. When you activate the link, for example, by clicking on it with a mouse, the browser displays the target of the link.
local area network (LAN)	Any network technology that interconnects resources within an office environment, usually at high speeds, such as Ethernet. A local area network is a short-dis- tance network used to link a group of computers together within a building. 10BaseT Ethernet is the most commonly used form of LAN. A hardware device called a hub serves as the common wiring point, enabling data to be sent from one machine to another over the network. LANs are typically limited to dis- tances of less than 500 meters and provide low-cost, high-bandwidth networking capabilities within a small geographical area.

TABLE G-1. Glossary of Terms (Continued)

TERM	EXPLANATION
malware (malicious software)	Programming or files that are developed for the pur- pose of doing harm, such as viruses, worms, and Tro- jans.
management console	The user interface for your Trend Micro product. Also known as the product console.
Mbps	Millions of bits per second—a measure of bandwidth in data communications.
МВ	Megabyte—1024 kilobytes of data.
mixed threat attack	Complex attacks that take advantage of multiple entry points and vulnerabilities in enterprise networks, such as the "Nimda" or "Code Red" threats.
Network Address Translation (NAT)	A standard for translating secure IP addresses to tem- porary, external, registered IP address from the address pool. This allows Trusted networks with pri- vately assigned IP addresses to have access to the Internet. This also means that you don't have to get a registered IP address for every machine in your net- work.
network virus	A type of virus that uses network protocols, such as TCP, FTP, UDP, HTTP, and email protocols to repli- cate. Network viruses often do not alter system files or modify the boot sectors of hard disks. Instead, they infect the memory of client machines, forcing them to flood the network with traffic, which can cause slow- downs or even complete network failure.

TABLE G-1. Gloss	ary of Terms (Continued)
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Term	EXPLANATION
notification (<i>Also see</i> action and target)	A message that is forwarded to one or more of the fol- lowing: - system administrator - sender of a message - recipient of a message, file download, or file transfer The purpose of the notification is to communicate that a prohibited action has taken place, or was attempted, such as a virus being detected in an attempted HTTP file download.
operating system	The software which handles tasks such as the inter- face to peripheral hardware, scheduling tasks, and allocating storage. In this documentation, the term also refers to the software that presents a window sys- tem and graphical user interface.
parameter	A variable, such as a range of values (a number from 1 to 10).
pattern file (also known as Official Pattern Release)	The pattern file, as referred to as the Official Pattern Release (OPR), is the latest compilation of patterns for identified viruses. It is guaranteed to have passed a series of critical tests to ensure that you get optimum protection from the latest virus threats. This pattern file is most effective when used with the latest scan engine.
port	A logical channel or channel endpoint in a communica- tions system, used to distinguish between different logical channels on the same network interface on the same computer. Each application program has a unique port number associated with it.
ргоху	A process providing a cache of items available on other servers which are presumably slower or more expensive to access.

TABLE G-1. Glossary of Terms (Continued)

TABLE G-1.	Glossary of Terms (Continued)	
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Term	EXPLANATION
proxy server	A World Wide Web server which accepts URLs with a special prefix, used to fetch documents from either a local cache or a remote server, then returns the URL to the requester.
scan	To examine items in a file in sequence to find those that meet a particular criteria.
scan engine	The module that performs antivirus scanning and detection in the host product to which it is integrated.
sector	A physical portion of a disk. (<i>Also see</i> partition, which is a logical portion of a disk.)
Secure Socket Layer (SSL)	Secure Socket Layer (SSL), is a protocol designed by Netscape for providing data security layered between application protocols (such as HTTP, Telnet, or FTP) and TCP/IP. This security protocol provides data encryption, server authentication, message integrity, and optional client authentication for a TCP/IP connec- tion.
server	A program which provides some service to other (cli- ent) programs. The connection between client and server is normally by means of message passing, often over a network, and uses some protocol to encode the client's requests and the server's responses. The server may run continuously (as a daemon), waiting for requests to arrive, or it may be invoked by some higher-level daemon which controls a number of spe- cific servers.
shared drive	A computer peripheral device that is used by more than one person, thus increasing the risk of exposure to viruses.
signature	See virus signature.

Term	EXPLANATION
SNMP	Simple Network Management Protocol—A protocol that supports monitoring of devices attached to a network for conditions that merit administrative attention.
traffic	Data flowing between the Internet and your network, both incoming and outgoing.
Transmission Con- trol Protocol/Internet Protocol (TCP/IP)	A communications protocol which allows computers with different operating systems to communicate with each other. Controls how data is transferred between computers on the Internet.
trigger	An event that causes an action to take place. For example, your Trend Micro product detects a virus in an email message. This may <i>trigger</i> the message to be placed in quarantine, and a notification to be sent to the system administrator, message sender, and mes- sage recipient.
true-file type	Used by IntelliScan, a virus scanning technology, to identify the type of information in a file by examining the file headers, regardless of the file name extension (which could be misleading).
URL	Universal Resource Locator—A standard way of speci- fying the location of an object, typically a web page, on the Internet, for example, <i>www.trendmicro.com</i> . The URL maps to an IP address using DNS.
virtual IP address (VIP address)	A VIP address maps traffic received at one IP address to another address based on the destination port num- ber in the packet header.

TABLE G-1. Glossary of Terms (Continued)

TERM	EXPLANATION
Virtual Local Area Network (VLAN)	A logical (rather than physical) grouping of devices that constitute a single broadcast domain. VLAN mem- bers are not identified by their location on a physical subnetwork but through the use of tags in the frame headers of their transmitted data. VLANs are described in the IEEE 802.1Q standard.
Virtual Private Net- work (VPN)	A VPN is an easy, cost-effective and secure way for corporations to provide telecommuters and mobile pro- fessionals local dial-up access to their corporate net- work or to another Internet Service Provider (ISP). Secure private connections over the Internet are more cost-effective than dedicated private lines. VPNs are possible because of technologies and standards such as tunneling and encryption.
virtual router	A virtual router is the component of Screen OS that performs routing functions.
virtual system	A virtual system is a subdivision of the main system that appears to the user to be a stand-alone entity. Vir- tual systems reside separately from each other in the same Trend Micro GateLock remote appliance; each one can be managed by its own virtual system admin- istrator.

TABLE G-1. Glossary of Terms (Continued)

Term	EXPLANATION
virus	A computer virus is a program – a piece of executable code – that has the unique ability to infect. Like biolog- ical viruses, computer viruses can spread quickly and are often difficult to eradicate.
	In addition to replication, some computer viruses share another commonality: a damage routine that delivers the virus payload. While payloads may only display messages or images, they can also destroy files, refor- mat your hard drive, or cause other damage. Even if the virus does not contain a damage routine, it can cause trouble by consuming storage space and mem- ory, and degrading the overall performance of your computer.
Web	The World Wide Web, also called the web or the Internet.
Web server	A server process running at a website which sends out web pages in response to HTTP requests from remote browsers.
workstation (also known as client)	A general-purpose computer designed to be used by one person at a time and which offers higher perfor- mance than normally found in a personal computer, especially with respect to graphics, processing power and the ability to carry out several tasks at the same time.

TABLE G-1. Glossary of Terms (Continued)

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