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1.2 TXOne StellarEnforce™

Administrator's Guide

The trust list-based solution for locking down fixed-function computers

Windows

Endpoint Security

TXOne Networks StellarEnforce™ 1.2 Administrator's Guide

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http://docs.trendmicro.com/en-us/enterprise/txone-stellarenforce.aspx

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This documentation introduces the main features of the product and/or provides installation instructions for a production environment. Read through the documentation before installing or using the product.

Detailed information about how to use specific features within the product may be available at the TXOne Networks Online Help Center and/or the TXOne Networks Knowledge Base.

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Preface

This Administrator's Guide introduces TXOne Networks StellarEnforce and covers all aspects of product management.

Topics in this chapter include:

About the Documentation

TXOne Networks StellarEnforce documentation includes the following:

Table 1. TXOne Networks StellarEnforce Documentation

Documentation	Description
Installation Guide	A PDF document that discusses requirements and procedures for installing StellarEnforce.
Administrator's Guide	A PDF document that discusses getting started information and StellarEnforce usage and management.
Readme File	Contains a list of known issues. It may also contain late-breaking product information not found in the printed documentation.
Knowledge Base	An online database of problem-solving and troubleshooting information. It provides the latest information about known product issues. To access the Knowledge Base, go to the following website: http://esupport.trendmicro.com

Download the latest version of the PDF documents and Readme at:

http://docs.trendmicro.com

Audience

TXOne Networks StellarEnforce documentation is intended for administrators responsible for StellarEnforce management, including agent installation.

Document Conventions

The following table provides the official terminology used throughout the TXOne Networks StellarEnforce documentation:

Table 2. Document Conventions

Convention	Description
UPPER CASE	Acronyms, abbreviations, and names of certain commands and keys on the keyboard
Bold	Menus and menu commands, command buttons, tabs, and options
Italics	References to other documents
Monospace	Sample command lines, program code, web URLs, file names, and program output
Navigation > **Path**	The navigation path to reach a particular screen For example, **File** > **Save** means, click **File** and then click **Save** on the interface
 **Note**	Configuration notes
 **Tip**	Recommendations or suggestions
 **Important**	Information regarding required or default configuration settings and product limitations

Convention	Description
 **WARNING!**	Critical actions and configuration options

Chapter 1

Introduction

TXOne StellarEnforce 1.2 delivers a simple, no-maintenance solution to lock down and protect fixed-function computers, helping protect businesses against security threats and increase productivity.

Topics in this chapter include:

About TXOne StellarEnforce

TXOne StellarEnforce protects fixed-function computers like Industrial Control Systems (ICS), Point of Sale (POS) terminals, and kiosk terminals from malicious software and unauthorized use. By using fewer resources and without the need for regular software or system updates, StellarEnforce can reliably secure computers in industrial and commercial environments with little performance impact or downtime.

What's New

TXOne StellarEnforce 1.2 includes the following new features and enhancements.

Table 1-1. What's New in TXOne StellarEnforce 1.2

Feature	Description
Client service failback	Recover StellarEnforce service automatically after it ends unnormally.
Avoid share violation while maintenance mode	To avoid some application disturbed by Stellerenforce maintenance mode due to it need to frequently read/write files.
Non Mass Storage USB Device	Some hardware devices (e.g. Touch screen/ Infrared sensor/ Android Mobile Phone) use other drivers to work as a USB storage device. Enable this function to allow those drivers from being loaded when those hardware devices are plugged in and storage device blocking is enable.

Agent Features and Benefits

StellarEnforce includes the following features and benefits.

Application Lockdown

By preventing programs, DLL files, drivers, and scripts not specifically on the Approved List of applications from running (also known as application

trustlisting), StellarEnforce provides both improved productivity and system integrity by blocking malicious software and preventing unintended use.

StellarEnforce write protection blocks modification and deletion of files,folders, and registry entries.

Exploit Prevention

Known targeted threats like Downad and Stuxnet, as well as new and unknown threats, are a significant risk to ICS and kiosk computers. Systemswithout the latest operating system updates are especially vulnerable to targeted attacks.

For advanced threat prevention, StellarEnforce includes intrusion prevention, execution prevention, application lockdown, and device controlto stop threats from spreading to the endpoint or executing.

Approved List Management

When software needs to be installed or updated, you can use one of the following methods to make changes to the endpoint and automatically addnew or modified files to the Approved List, all without having to unlock TXOne StellarEnforce:

- Maintenance Mode
- Trusted Updater
- Predefined Trusted Updater List
- Command Line Interface (CLI):
  - Trusted hash
  - Trusted certification

Small Footprint

Compared to other endpoint security solutions that rely on large pattern files that require constant updates, application lockdown uses less memory and disk space, without the need to download updates.

Role Based Administration

TXOne StellarEnforce provides a separate administrator and Restricted User account, providing full control during installation and setup, as well as simplified monitoring and maintenance after deployment.

Graphical and Command Line Interfaces

Anyone who needs to check the software can use the console, while system administrators can take advantage of the command line interface (CLI) to access all of the features and functions available.

Self Protection

Self Protection provides ways for TXOne StellarEnforce to defend its processes and resources, required to function properly, from being disabled by programs or actual users.

Self Protection blocks all attempts to terminate the following services:

- Trend Micro Unauthorized Change Prevention Service (*TMBMSRV.exe*)
- Trend Micro Personal Firewall (*TmPfw.exe*)
- TXOne StellarEnforce Service (*WkSrv.exe*)

System Requirements

This section introduces StellarEnforce system requirements.

Hardware Requirements

TXOne StellarEnforce does not have specific hardware requirements beyond those specified by the operating system, with the following exceptions:

Table 1-2. Required Hardware for StellarEnforce

Hardware/Software	Description
Available disk space	350MB minimum
Monitor resolution	640x480

Important

StellarEnforce cannot be installed on a system that already runs one of the following:

- Trend Micro OfficeScan
- Trend Micro Titanium
- Other Trend Micro endpoint solutions

Tip

For the x64 platform removing x86 folders in the installation package can reduce the size of the installer and vice versa.

Operating Systems

Important

Ensure that the following root certification authority (CA) certificates are installed with intermediate CAs, which are found in *WKSrv.exe*. These root CAs should be installed on the StellarEnforce agent environment to communicate with StellarOne.

- Intermediate_Symantec Class 3 SHA256 Code Signing CA
- Root_VeriSign Class 3 Public Primary Certification Authority - G5
- DigiCert Assured ID Root CA
- DigiCert Trusted Root G4

To check root CAs, refer to the Microsoft support site:

https://technet.microsoft.com/en-us/library/cc754841.aspx

Note

- Memory Randomization, API Hooking Prevention, and DLL Injection Prevention are not supported on 64-bit platforms.
- See the latest StellarEnforce readme file for the most up-to-date list of supported operating systems for agents.

Windows clients:

- Windows 2000 SP4 (32-bit)
- Windows XP SP1*/SP2/SP3 (32-bit) (except Starter and Home editions)

Note

StellarEnforce installed on Windows 2000 SP4 (without update rollup) or Windows XP SP1 does not support the following functions: DLL/Driver Lockdown, Script Lockdown, Integrity Monitoring, USB Malware Protection, Storage Device Blocking, Maintenance Mode, and Predefined Trusted Updater.

To support these features, install Filter Manager:

- For Windows 2000 Service Pack 4, apply the update KB891861 from the Microsoft Update Catalog website.
- For Windows XP SP1, upgrade to Windows XP SP2.
- StellarEnforce does not support a custom action of “quarantine” on Windows (Standard) XP Embedded SP1.

- Windows Vista No-SP/SP1/SP2 (32-bit) (except Starter and Homeeditions)
- Windows 7 No-SP/SP1 (32-bit and 64-bit) (except Starter and Homeeditions)
- Windows 8 No-SP (32-bit and 64-bit)
- Windows 8 No-SP (Professional/Enterprise) (32-bit and 64-bit)
- Windows 8.1 No-SP (Professional/Enterprise with Bing) (32-bit and 64-bit)
- Windows 8.1 No-SP (32-bit and 64-bit)
- Windows 10 (Professional/Enterprise/IoT Enterprise) (32-bit and 64-bit)
  - Initial Windows 10
  - Windows 10 RS1 (1607)
  - Windows 10 RS2 (1703)
  - Windows 10 RS1 (1709)
  - Windows 10 RS4 (1803)
  - Windows 10 RS5 (1809)
  - Windows 10 RS6 (1903)
  - Windows 10 (19H2/1909)
  - Windows 10 (20H1/2004)
  - Windows 10 (20H2)
  - Windows 10 (Version 21H1)
  - Windows 10 (Version 21H2)
- Windows 11 (Enterprise) (32-bit and 64-bit)

Note

- Unlock the endpoint before updating your Windows 10 operating system to the Anniversary Update, Creators Update, Fall Creators Update, April 2018 Update, October 2018 Update, or later versions.
- OneDrive integration in Windows 10 Fall Creators Update, Spring Creators Update, or later versions is not supported. Ensure that OneDrive integration is disabled before installing StellarEnforce.
- To improve performance, disable the following Windows 10 components:
  - Windows Defender Antivirus. This may be disabled via group policy.
  - Window Update. Automatic updates may require the download of large files which may affect performance.
  - Windows Apps (Microsoft Store) auto-update. Checking for frequent updates may cause performance issues.
- In Windows 10 April 2018 Update (Redstone 4) and later, StellarEnforce has the following limitations when working with folders where the *case sensitive* attribute has been enabled:
  - Enabling the *case sensitive* attribute for a folder may prevent StellarEnforce from performing certain actions (eg. prescan, custom actions) on that folder. Folders that do not have the attribute enabled are not affected.
  - StellarEnforce blocks all processes started from folders where the *case sensitive* attribute is enabled. Additionally, StellarEnforceis unable to provide any information for the blocked processes, except for file path.
  - The StellarEnforce agent cannot verify file signatures of files saved in folders where the *case sensitive* attribute is enabled.As a result, DAC exceptions related to signatures cannot work.

Windows Server:

- Windows 2000 Server SP4* (32-bit)

Note

StellarEnforce installed on Windows 2000 Server SP4 does not support the following functions: DLL/Driver Lockdown, Script Lockdown, Integrity Monitoring, USB Malware Protection, Storage Device Blocking, Maintenance Mode, and Predefined Trusted Updater.

- Windows Server 2003 SP1/SP2 (32-bit)
- Windows Server 2003 R2 No-SP/SP2 (Standard/Enterprise/Storage) (32-bit)
- Windows Server 2008 SP1/SP2 (32-bit and 64-bit)
- Windows Server 2008 R2 No-SP/SP1 (64-bit)
- Windows Server 2012 No-SP (64-bit)
- Windows Server 2012 R2 No-SP (64-bit)
- Windows Server 2016 (Standard) (64-bit)
- Windows Server 2019 (Standard) (64-bit)
- Windows Server 2022 (Standard) (64-bit)

Windows Embedded Standard:

- Windows (Standard) XP Embedded SP1*/SP2 (32-bit)

Note

- StellarEnforce installed on Windows (Standard) XP Embedded does not support the following functions: DLL/Driver Lockdown, Script Lockdown, Integrity Monitoring, USB Malware Protection, Storage Device Blocking, Maintenance Mode, and Predefined Trusted Updater.
- StellarEnforce does not support a custom action of “quarantine” on Windows (Standard) XP Embedded SP1.

- Windows Embedded Standard 2009 (32-bit)
- Windows Embedded Standard 7 (32-bit and 64-bit)

- Windows Embedded Standard 8 (32-bit and 64-bit)
- Windows Embedded 8 Standard No-SP (32-bit and 64-bit)
- Windows Embedded Standard 8.1 (32-bit and 64-bit)
- Windows Embedded 8.1 Standard (Professional/Industry Pro) (32-bit and 64-bit)

Windows Embedded POSReady:

- Windows Embedded POSReady (32-bit)
- Windows Embedded POSReady 2009 (32-bit)
- Windows Embedded POSReady 7 (32-bit and 64-bit)

Windows Embedded Enterprise:

- Windows Embedded Enterprise XP SP1*/SP2/SP3 (32-bit)

Note

- StellarEnforce installed on Windows (Standard) XP Embedded does not support the following functions: DLL/Driver Lockdown, Script Lockdown, Integrity Monitoring, USB Malware Protection, Storage Device Blocking, Maintenance Mode, and Predefined Trusted Updater.

- Windows Embedded Enterprise Vista (32-bit)
- Windows Embedded Enterprise 7 (32-bit and 64-bit)

Windows Embedded Server:

- Windows Embedded Server 2003 SP1/SP2 (32-bit)
- Windows Embedded Server 2003 R2 (32-bit)
- Windows Embedded Server 2008 (32-bit and 64-bit)
- Windows Embedded Server 2008 R2 (64-bit)
- Windows Embedded Server 2012 (64-bit)
- Windows Embedded Server 2012 R2 (64-bit)

Windows Storage Server

- Windows Storage Server 2012 Standard (64-bit)
- Windows Storage Server 2012 R2 Standard (64-bit)
- Windows Storage Server 2016

Agent Upgrade Preparation

This version of StellarEnforce supports upgrade from the following versions:

- StellarEnforce 1.0
- StellarEnforce 1.1

WARNING!

Before upgrading, take the appropriate actions below as noted for your chosen installation method and the version of your installed StellarEnforce agent.

The latest updates can be downloaded from the StellarEnforce Software Download Center at http://downloadcenter.trendmicro.com/.

Table 1-3. Fresh Installation of the StellarEnforce Agent

Installation Method	Installed Agent Version	Required Action	Settings Retained
Local installation using Windows installer	StellarEnforce 1.0/ 1.1	It's necessary to manually add the install file (SL_Install.exe) into the trusted HASH list before use it.	No settings retained

Installation Method	Installed Agent Version	Required Action	Settings Retained
Local installation using command line interface installer	StellarEnforce 1.0 / 1.1	It's necessary to manually add the install file	No settings retained

		(SL_Install.exe) into the trusted HASH list before use it.	

Table 1-4. Post-Installation Agent Upgrade

Installation Method	Installed Agent Version	Required Action	Settings Retained
Patching by running *stellar_enforce_patch·exe*. To do a silent install instead, open the command prompt as an administrator and enter the following command: *> stellar_enforce_patch·exe -s -a -s/g*	StellarEnforce 1.0 / 1.1	No preparation needed	Compatible settings retained
Remote installation	StellarEnforce 1.0 / 1.1	No preparation needed	Compatible settings retained

Agent Use Overview

TXOne StellarEnforce is a trust list-based solution that locks down computers, preventing all applications not on the Approved List from running. StellarEnforce can be configured and maintained using the graphical user interface (GUI) agent console or the command line interface

(CLI). System updates can be applied without turning off Application Lockdown at the endpoint through Maintenance Mode, trust hash, trust certification, predefined trusted updater list or by using the Trusted Updater.

Consider this typical use case scenario:

1. Set up the Approved List and turn on Application Lockdown on the endpoint so that unapproved applications cannot be run.
2. Use Maintenance Mode, trust hash, trust certification, predefined trusted updater list or by using the Trusted Updater to update or install software.
3. Configure and enable the Restricted User account for later maintenance.

If someone tries to run an application not specifically on the Approved List, the following message displays:

Figure 1-1. TXOne StellarEnforce blocking message

Chapter 2

Using the Agent Console

This chapter describes how to configure TXOne StellarEnforce using the agent console on the endpoint.

Topics in this chapter include:

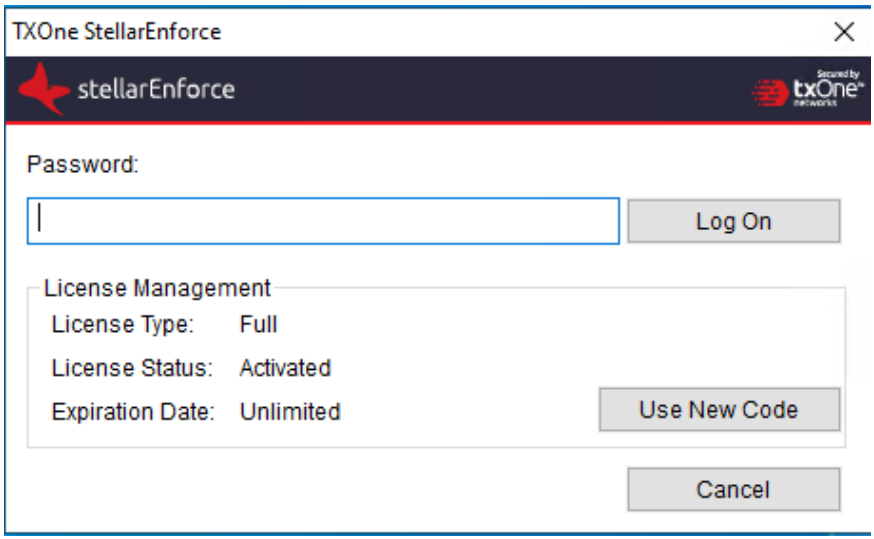
Setting Up the Approved List

Before TXOne StellarEnforce can protect the endpoint, it must check the endpoint for existing applications and files necessary for the system to run correctly.

Procedure

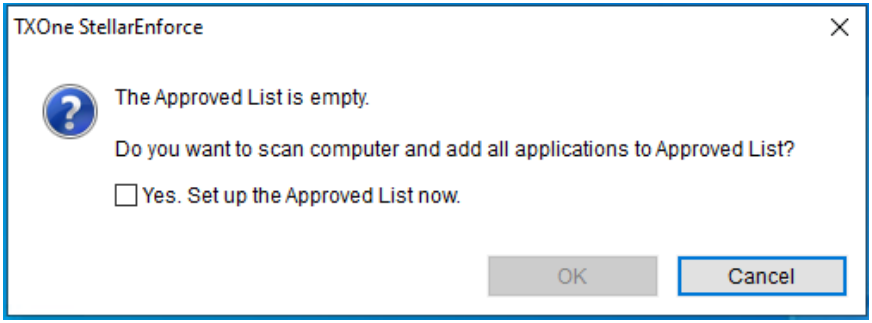
1. Open the StellarEnforce console.

   The StellarEnforce log on screen appears.



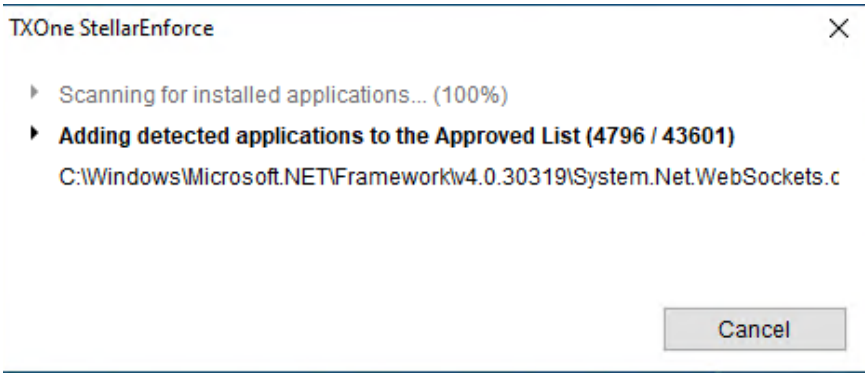
2. Provide the password and click **Log On**.

StellarEnforce asks if you want to set up the Approved List now.

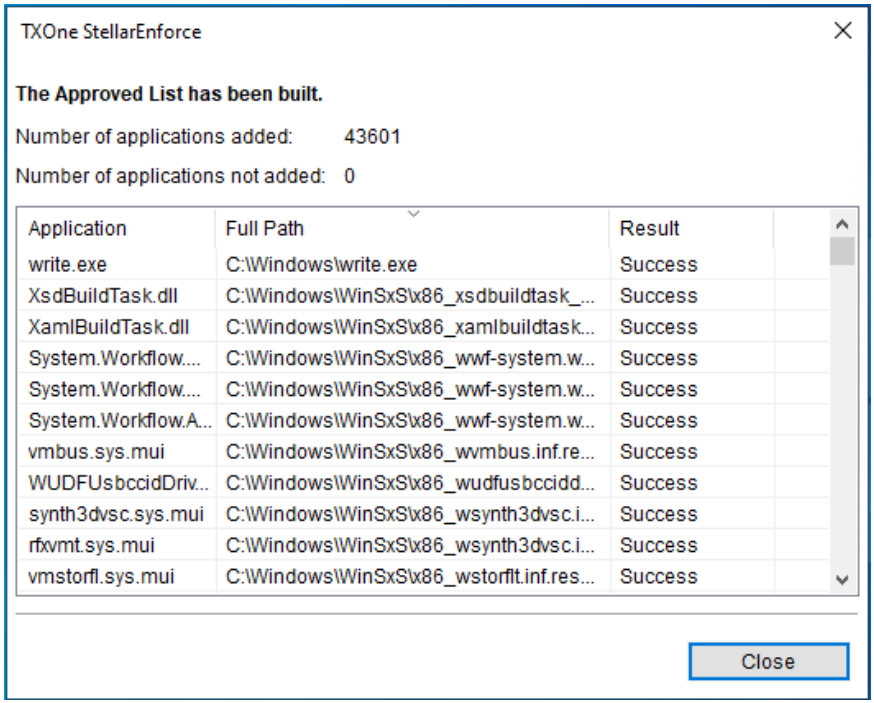


3. At the notification window, select **Yes. Set up the Approved List now** and click **OK**.

   StellarEnforce scans the endpoint and adds all applications to the Approved List.



StellarEnforce displays the Approved List Configuration Results.



Note
When TXOne StellarEnforce Application Lockdown is on, only applications that are in the Approved List will be able to run.

4. Click **Close**.

Configuring Pop-up Notifications for Blocked Files

The administrator can set up a notification that displays on managed endpoints when StellarEnforce blocks and prevents unapproved files from

running or making changes to managed endpoints. This notification alerts the administrator of any blocking event and provides details about the blocked file.

Note

- This feature is disabled by default.
- StellarEnforce only supports feature customization using the agent Setup.ini and config file.

Table 2-1. Configuring Pop-up Notifications for Blocked Files

Setting	Default	Where to Access the Setting	
		Before Agent Deployment	After Agent Deployment
Notifications	Disabled	Customize the *BlockNotification* section of the agent Setup.ini file.	Use agent Command Line Interface to issue a *blockedfilenotification* command.
Request for administrator password when closing the notification	Enabled (if the notification feature is enabled)		Use agent Command Line Interface to issue a *blockedfilenotification* command.
Display event details (file name, file path, and event time)			Use agent Command Line Interface to issue a *blockedfilenotification* command.
Customize the notification title and message	• Title: Application Blocked • Message: A program has been blocked by TXOne StellarEnforce. Please contact your help desk or administrator.		Use agent Command Line Interface to issue a *blockedfilenotification* command.

About the Agent Console

The agent console provides easy access to commonly used features in TXOne StellarEnforce.

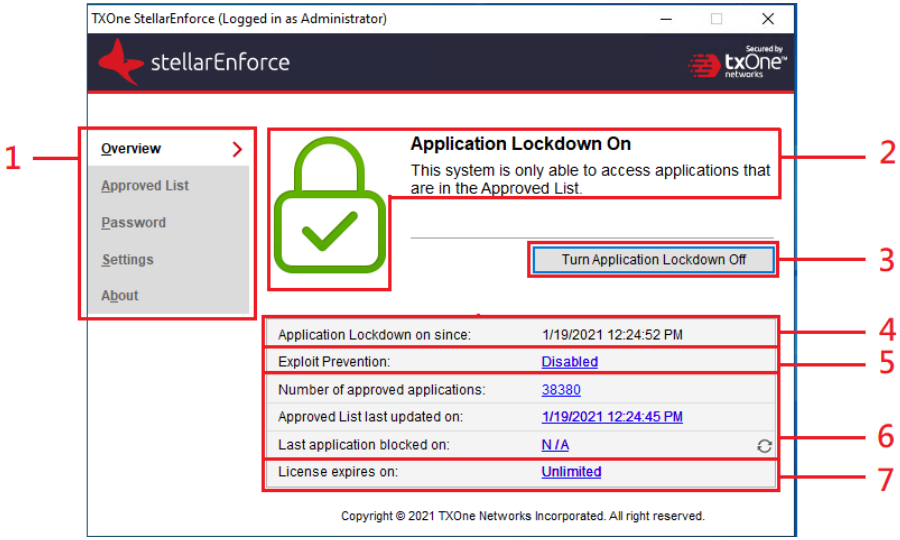


Figure 2-1. The StellarEnforce console

The following table describes the features available on the console:

Table 2-2. Console Feature Descriptions

#	Item	Description
1	**Overview**	Display the software status
	Approved List	Display applications allowed to run and let users manage the list
	Password	Change the StellarEnforce administrator or Restricted User passwords (only available to administrators)
	Settings	Enable or disable vulnerability protection settings and export or import the system configuration
	About	Display the product and component version numbers
2	**Status Information**	The current status of the software

#	Item	Description
3	**Turn Application Lockdown On**	Lock down the system, blocking applications not on the Approved List from running
	Turn Application Lockdown Off	Release the system from lock down, allowing applications not on the Approved List to run **Note** After disabling Lockdown mode, StellarEnforce switches to a "monitor" mode. StellarEnforce does not block any applications from running, but logs when applications that are not in the Approved List run. You can use these logs to assess if the Approved List contains all the applications required on the endpoint.
4	**Application Lockdown on since**	The date and time that Application Lockdown was last turned on
	Application Lockdown off since	The date and time that Application Lockdown was last turned off
5	**Exploit Prevention**	**Enabled**: All Exploit Prevention features are enabled Click the status to open the settings screen.
		Enabled (Partly): Some Exploit Prevention features are enabled Click the status to open the settings screen.
		Disabled: No Exploit Prevention features are enabled Click the status to open the settings screen.
6	**Approved List status**	Click the number of Approved List items or last updated date to open the Approved List. Click the last application blocked date to open the Blocked Application Event Log.
7	**License expires on**	The time and date that the software expires Click the date to provide a new Activation Code.

Viewing StellarEnforce Statuses

You can view your StellarEnforce statuses as indicated by the system tray icons.

Note
System tray icons display if they were enabled during installation.

Table 2-3. Status Icon Descriptions

Console Icon	System Tray Icon	Status	Description
		Locked	The Approved List is being enforced. Unauthorized applications cannot be run.
		Unlocked	The Approved List is not being enforced. Unauthorized applications can be run.
		Locked and in Maintenance Mode	In Maintenance Mode with the Approved List enforced. All applications can be run.

Console Icon	System Tray Icon	Status	Description
		Unlocked and in Maintenance Mode	In Maintenance Mode without Approved List enforced. All applications can be run.
N/A		Expired	The StellarEnforce license has expired, and the system cannot be locked. Update the Activation Code by clicking on the expiration date.
N/A		Blocked	The StellarEnforce has blocked and prevented an unapproved application from running or making changes to the managed endpoint.

About the Approved List

Use the Approved List to display the files that StellarEnforce allows to run or make changes to the endpoint.

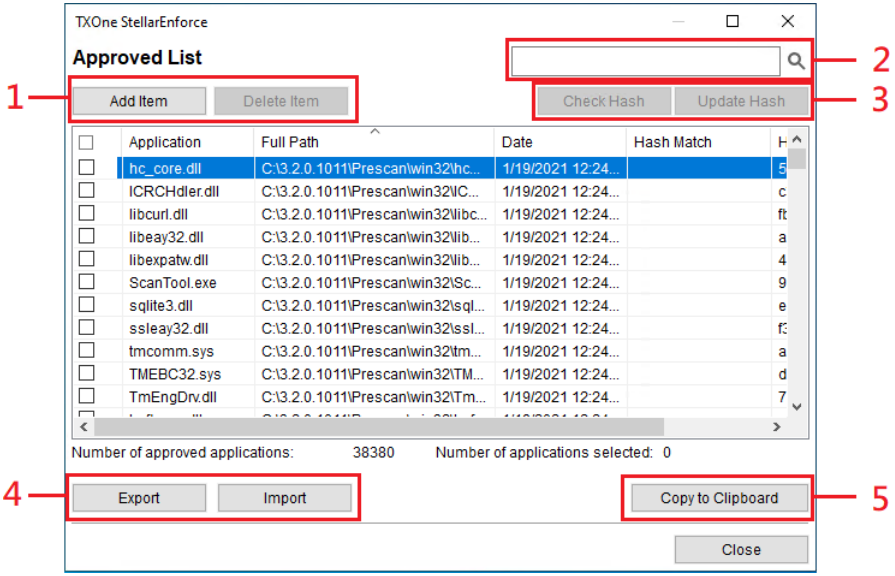


Figure 2-2. The StellarEnforce Approved List

The following table describes the features available on the **Approved List**.

Table 2-4. Approved List Item Descriptions

#	Item	Description
1	**Add Item/Delete Item**	Adds or removes selected items to or from the Approved List.
2	**Search Bar**	Searches the **Application** and **File Path** columns.
3	**Check Hash/Update Hash**	Checks or updates the hash values for applications in the Approved List.
4	**Export/Import**	Exports or imports the Approved List using a SQL database (*·db*) file.
5	**Copy to Clipboard**	Copies the Approved List to the clipboard with comma separated values (CSV) format for easy review or reporting.

About Hashes

StellarEnforce calculates a unique hash value for each file in the Approved List. This value can be used to detect any changes made to a file, since any change results in a different hash value. Comparing current hash values to previous values can help detect file changes.

The following table describes the hash check status icons.

Table 2-5. Hash Check Status Icons

Icon	Description
	The calculated hash value matches the stored value.
	The calculated hash value does not match the stored value.
	There was an error calculating the hash value.

Moving or overwriting files manually (without using the Trusted Updater) can result in the hash values not matching, but a mismatch could also result from other applications (including malware) altering or overwriting existing files. If unsure as to why a hash value mismatch has occurred, scan the endpoint for threats.

Checking or Updating Hashes

Checking the hash value of files in the Approved List can help verify the integrity of files currently permitted to run.

Procedure

1. Open the TXOne StellarEnforce console using the desktop icon (if available) or the **Start** menu by clicking **All Programs** > **TXOne StellarEnforce**.
2. Provide the password and click **Login**.

3. Click the **Approved List** menu item to open the list.To

check the file hash values:

a. Select the files to check. To check all files, select the check box atthe top of the Approved List.

b. Click **Check Hash**.

To update the file hash values:

a. Select the files to update.

b. Click **Update Hash**.

Important

If unsure why a hash value mismatch has occurred, scan the endpoint for threats.

Configuring the Approved List

After setting up the Approved List, users can add new programs by clicking **Add Item**, which displays the options in the following table.

Table 2-6. Methods for Adding Applications to the Approved List

Option	When to Use
Manually browse and select files	Choose this option when the software already exists on the endpoint and is up-to-date. Adding a file grants permission to run the file, but does not alter the file or the system. For example, if Windows Media Player (*wmplayer.exe*) is not in the Approved List after initial setup, users can add it to the list using the console.

Option	When to Use
Automatically add files created or modified by the selected application installer (Trusted Updater)	Choose this option when you need to update or install new applications to your managed endpoint without having to unlock TXOne StellarEnforce. TXOne StellarEnforce will add any new or modified files to the Approved List. For example, if Mozilla Firefox needs to be installed or updated, select this option to allow the installation or update, and also add any files created or modified in the process to the Approved List.

Adding or Removing Files

Procedure

1. Open the TXOne StellarEnforce console using the desktop icon (if available) or the **Start** menu by clicking **All Programs** > **TXOne StellarEnforce**.
2. Provide the password and click **Login**.
3. Click the **Approved List** menu item to open the list.

   To add an item:

   a. Click **Add Item**, select **Manually browse and select files**, and click **Next**.

   b. In the window that opens, choose **Specific applications**, **All applications in selected folders**, or **All applications in a specified path** from the drop-down list.

      A selection window appears.

   c. Select the desired application or folder to add, and click **Open** or **OK**.

   d. Click **OK**. Confirm the items to be added, and click **Approve**.

   e. After adding the desired items to the Approved List, click **Close**.

   To remove an item:

a. Search the Approved List for the application to remove.

b. Select the check box next to the file name to be removed, and click **Delete Item**.

c. When asked to remove the item, click **OK**.

d. Click **OK** again to close the confirmation window.

Updating or Installing Using the Trusted Updater

TXOne StellarEnforce automatically adds applications to the Approved List after the Trusted Updater adds or modifies the program files.

Procedure

1. Open the TXOne StellarEnforce console using the desktop icon (if available) or the **Start** menu by clicking **All Programs** > **TXOne StellarEnforce**.
2. Provide the password and click **Login**.
3. Click the **Approved List** menu item to open the list.
4. To install or update an application, select the installer that the Trusted Updater should temporarily allow to run:

   a. Click **Add Item**, select **Automatically add files created or modified by the selected application installer**, and click **Next**.

   b. In the window that opens, choose **Specific installers**, **All installers in folders and subfolders**, or **All installers in a folder** from the drop-down list.

   c. Select the desired installation package or folder to add, and click **Open**.

Note
Only existing *EXE*, *MSI*, *BAT*, and *CMD* files can be added to the TrustedUpdater.

d. Check that the correct items appear on the list, and click **Start**.

The StellarEnforce **Trusted Updater** window displays.

Figure 2-3. The StellarEnforce Trusted Updater

5. Install or update the program as usual. When finished, click **Stop** on the Trusted Updater.

6. Check that the correct items appear on the Approved List, and click **Approve**, and then click **Close**.

Exporting or Importing the Approved List

Users can export or import the as a database (*·db*) file for reuse in mass deployment situations. **Copy to Clipboard** creates a CSV version of the list on the Windows clipboard.

WARNING!

The operating system files used by the exporting and importing endpoints must match exactly. Any difference between the operating system files on the endpoints can lead to operating system malfunctions or system lock-out after importing.

Procedure

1. Open the TXOne StellarEnforce console using the desktop icon (if available) or the **Start** menu by clicking **All Programs** > **TXOne StellarEnforce**.
2. Provide the password and click **Login**.
3. Click the **Approved List** menu item to open the list.

   To export the Approved List:

   a. Click **Export**, and choose where to save the file.

   b. Provide a filename, and click **Save**.

      The exported file includes the following information:

      - File full path
      - File hash value
      - Additional notes
      - Last update time

   To import an Approved List:

   a. Click **Import**, and locate the database file.

   b. Select the file, and click **Open**.

Account Types

TXOne Networks StellarEnforce provides role-based administration, allowing administrators to grant users access to certain features on the main console. Through the configuration file, StellarEnforce administrators can specify the features available to Restricted User accounts.

Table 2-7. StellarEnforce Accounts

Account	Details
Administrator	• Default account • Full access to StellarEnforce functions • Can use both the console and command line interface (CLI)
Restricted User	• Secondary maintenance account • Limited access to StellarEnforce functions • Can only use the console

To enable Restricted User accounts, see *Configuring Passwords on page 2-18*. To sign in with a specific account, specify the password for that account.

Configuring Passwords

While the StellarEnforce administrator and Restricted User passwords can be changed from the console, only the administrator can change passwords. To log on to the console as the administrator account, provide the administrator password when launching the console.

Important

The StellarEnforce administrator and Restricted User passwords cannot be the same.

Procedure

1. Open the TXOne StellarEnforce console using the desktop icon (if available) or the **Start** menu by clicking **All Programs** > **TXOne StellarEnforce**.
2. Provide the StellarEnforce administrator password and click **Login**.
3. Click the **Password** menu item to display the administrator password page.

   To change the StellarEnforce administrator password:

   a. Provide the current password, specify and confirm the new password, and click **Save**.

   WARNING!

   Please treat your StellarEnforce administrator password with care. If you lose it, please contact TXOne Networks support.

   To create a Restricted User password:

   a. Click **Restricted User** at the top of the console.

   b. Select the **Enable Restricted User** check box.

   c. Specify and confirm the password, and click **Save**.

   To change an existing Restricted User password:

   a. Specify and confirm the new password, and click **Save**.

About Feature Settings

StellarEnforce offers the following protection features.

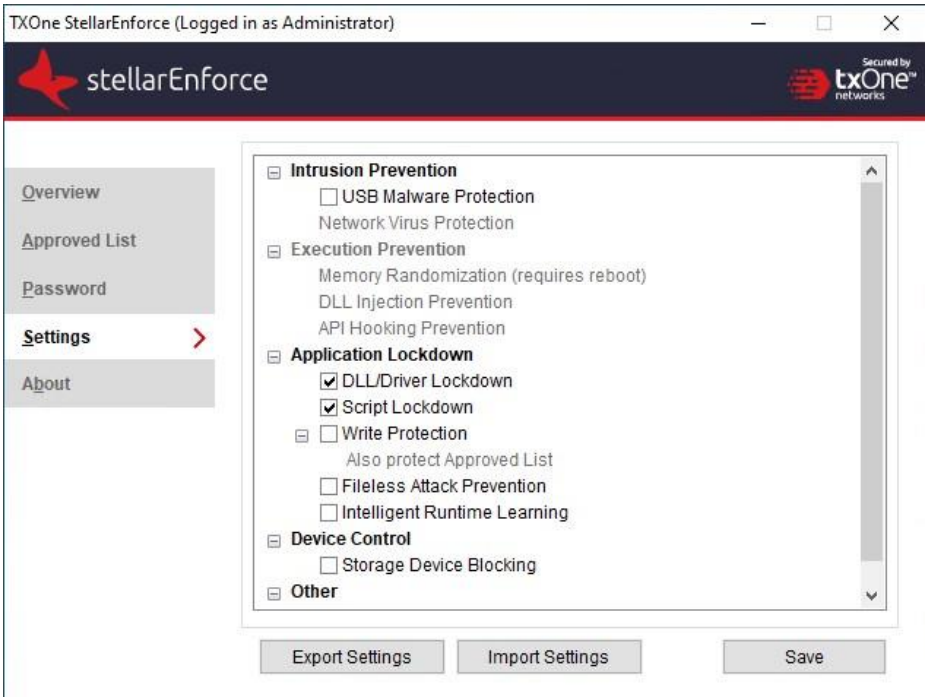


Figure 2-4. StellarEnforce settings screen

Table 2-8. Intrusion Prevention

Setting	Description
USB Malware Protection	USB Malware Protection prevents automated threats on USB or remote drives from infecting the endpoint. Just viewing the contents of the drive may be enough to pass along an infection. Enable this feature to prevent files on USB devices from automatically infecting the endpoint.

Setting	Description
Network Virus Protection	Network Virus Protection scans incoming and outgoing network traffic, blocking threats from infected computers or other devices on the network. Enable this feature to prevent threats on the network from infecting the endpoint.

Table 2-9. Execution Prevention

Setting	Description
Memory Randomization	Address Space Layout Randomization (ASLR) helps prevent shellcode injection by randomly assigning memory locations for important functions, forcing an attacker to guess the memory location of specific processes. Enable this feature on older operating systems such as Windows XP or Windows Server 2003, which may lack or offer limited Address Space Layout Randomization support. **Note** The endpoint must be restarted to enable or disable Memory Randomization.
DLL Injection Prevention	DLL Injection Prevention detects and blocks API call behaviors used by malicious software. Blocking these threats helps prevent malicious processes from running. Never disable this feature except in troubleshooting situations since it protects the system from a wide variety of serious threats.
API Hooking Prevention	API Hooking Prevention detects and blocks malicious software that tries to intercept and alter messages used in critical processes within the operating system. Never disable this feature except in troubleshooting situations since it protects the system from a wide variety of serious threats.

Table 2-10. Application Lockdown

Setting	Description	
DLL/Driver Lockdown	DLL/Driver Lockdown prevents unapproved DLLs or drivers from being loaded into the memory of protected endpoints.	**Important** To enable DLL/Driver Lockdown, Script Lockdown, Write Protection, or Fileless Attack Prevention, ensure that Application Lockdown is also enabled on the managed endpoint.
Script Lockdown	Script Lockdown prevents unapproved script files from being run on protected endpoints.	
Write Protection	Write Protection prevents write access to objects (files, folders, and registry entries) in the Write Protection List and optionally prevents write access to files in the Approved List.	
Fileless Attack Prevention	Fileless Attack Prevention detects and blocks unapproved process chains and arguments that may lead to a fileless attack event.	

Table 2-11. Device Control

Setting	Description
Storage Device Blocking	Blocks storage devices, including USB drives, CD/DVD drives, floppy disks, and network drives from accessing the managed endpoint.

Table 2-12. Other

Setting	Description
Integrity Monitoring	Integrity Monitoring logs events related to changes for files, folders, and the registry on the managed endpoint. **Note** To view Integrity Monitoring logs on the managed endpoint, go to **Start** > **Control Panel** > **Administrative Tools** and access Event Viewer.

Enabling or Disabling Feature Settings

Note

By default, TXOne StellarEnforce enables the **DLL/Driver Lockdown** and **Script Lockdown** features of the Exploit Prevention settings. If Network Virus Protection was not included in the initial installation, it cannot be selected. Reinstall TXOne StellarEnforce if Network Virus Protection is not available.

Procedure

1. Open the TXOne StellarEnforce console using the desktop icon (if available) or the **Start** menu by clicking **All Programs** > **TXOne StellarEnforce**.
2. Provide the password and click **Login**.
3. Click the **Settings** menu item to configure Exploit Prevention settings.
4. Enable or disable the desired features.
5. Click **Save**.

Chapter 3

Using the Agent Command Line Interface (CLI)

This chapter describes how to configure and use TXOne StellarEnforce using the command line interface (CLI).

Topics in this chapter include:

Using SLCmd at the Command Line Interface (CLI)

Administrators can work with TXOne StellarEnforce directly from the command line interface (CLI) using the ***SLCmd.exe*** program.

Procedure

1. Open a command prompt window with Windows administrator privileges.
2. Navigate to the TXOne StellarEnforce installation folder using the ***cd*** command.

   For example, type the following command to reach the default location:

   ```
   cd /d "c:\Program Files\TXOne\StellarEnforce\"
   ```

3. Type ***SLCmd.exe***.

SLCmd Program and Console Function Comparison

The following table lists the TXOne StellarEnforce features available in SLCmd program and the StellarEnforce console program.

Table 3-1. SLCmd Program at the Command Line Interface (CLI) and Console Function Comparison

Function	SLCmd Program at the Command Line Interface (CLI)	Console
Account Management	Yes	Yes
Agent Event Aggregation	No	No
Approved List Management	Yes	Yes
Decrypt/Encrypt configuration file	Yes	No
Display the blocked log	Yes	Yes

Function	SLCmd Program at the Command Line Interface (CLI)	Console
Export/Import Approved List	Yes	Yes
Export/Import configuration	Yes	Yes
Group Policy / Global Policy	No	No
Install	Yes	Yes
Intelligent Runtime Learning	Yes	Yes
Windows Update Support	Yes	No
Application Lockdown	Yes	Yes
Write Protection	Yes	Yes
Write Protection Exceptions	Yes	No
Integrity Monitoring	Yes	Yes
Exception Paths	Yes	No
License Management	Yes	Yes
Administrator password	Yes	Yes
Turn on/off Application Lockdown	Yes	Yes
Enable/disable pop-up notifications for blocked files	Yes	No
Start/Stop Trusted Updater	Yes	Yes
Trusted Hash List	Yes	No
Start/Stop the service	Yes	No
Uninstall	No	No
Storage Device Control	Yes	Yes
Fileless Attack Prevention	Yes	Yes

Function	SLCmd Program at the Command Line Interface (CLI)	Console
Add Trusted USB Device	Yes	No
Configure Maintenance Mode	Yes	No

Not all settings are available through the command line interface (CLI) or console. See *Working with the Agent Configuration File on page 4-2* for information about modifying the system configuration.

SLCmd Program Commands

The following tables list a summary commands available using the ***SLCmd*** program at the command line interface (CLI). To use the program, type ***SLCmd*** and the desired command. Type ***SLCmd*** and press ENTER to display the list of available commands.

Note
Only a StellarEnforce administrator with Windows administrator privileges can use ***SLCmd*** at the command line interface (CLI). ***SLCmd*** will prompt for the administrator password before running certain commands.

The following is a full list of commands available using the ***SLCmd*** program.

General Commands

Perform general actions using the Command Line Interface.

The following table lists the available abbreviated forms of parameters.

Table 3-2. Abbreviations and Uses

Parameter	Abbreviation	Use
adminpassword	*ap*	Manage the StellarEnforce admistrator password

Parameter	Abbreviation	Use
lock	lo	Manage Application Lockdown status
blockedlog	bl	Manage the applications blocked by StellarEnforce
license	lc	Manage the StellarEnforce license
settings	set	Manage the StellarEnforce settings
service	srv	Manage the StellarEnforce service

The following table lists the commands, parameters, and values available.

Table 3-3. General Commands

Command	Parameter	Description
help		Display a list of StellarEnforce commands For example, type: **SLCmd.exe help**
activate	<activation_code>	Activate the StellarEnforce program using the specified Activation Code For example, type: **SLCmd.exe activate XX-XXXX-XXXXX-XXXXX-XXXXX-XXXXX-XXXXX**
set adminpassword		Prompt the currently logged on administrator to specify a new password For example, type: **SLCmd.exe -p <admin_password> setadminpassword**
	<new_password>	Change the currently logged on administrator password to the newly specified password For example, type: **SLCmd.exe -p <admin_password> setadminpassword P@ssWORd**

Command	Parameter	Description
set *lock*		Display the current StellarEnforce Application Lockdown status For example, type: **SLCmd.exe -p <admin_password> set lock** **Note** The default status is *disable*.
	enable	Turn on Application Lockdown For example, type: **SLCmd.exe -p <admin_password> set lockenable**
	disable	Turn off Application Lockdown For example, type: **SLCmd.exe -p <admin_password> set lockdisable**
set *blockedfilenotification*		Display the current notification setting For example, type: **SLCmd.exe -p <admin_password> set blockedfilenotification** **Note** The default setting is *disable*.
	enable	Display a notification on the managed endpoint when StellarEnforce blocks a file. For example, type: **SLCmd.exe -p <admin_password> set blockedfilenotification enable**

Command	Parameter	Description
	disable	Do not display any notification when StellarEnforce blocks a file. For example, type: ***SLCmd.exe -p <admin_password> set blockedfilenotification disable***
show *blockedlog*		Display a list of applications blocked by StellarEnforce For example, type: ***SLCmd.exe -p <admin_password> showblockedlog***
show *license*		Display the current StellarEnforce license information For example, type: ***SLCmd.exe show license***
show *settings*		Display the current status of the vulnerability attack prevention features For example, type: ***SLCmd.exe -p <admin_password> showsettings***
start *service*		Start the StellarEnforce service For example, type: ***SLCmd.exe start service***
status		Display the current status of Application Lockdown and the auto update function of the Approved List For example, type: ***SLCmd.exe -p <admin_password> status***
stop *service*		Stop the StellarEnforce service For example, type:

Command	Parameter	Description
		SLCmd.exe -p <admin_password> stopservice
version		Display the current versions of StellarEnforce components For example, type: *SLCmd.exe -p <admin_password> version*

Optional Feature Commands

Configure optional security features using the Command Line Interface by typing your command in the following format:

SLCmd.exe -p <admin_password> *<command> <parameter>* <value> The following table lists the available abbreviated forms of parameters.

Table 3-4. Abbreviations and Uses

Parameter	Abbreviation	Use
apihookingprevention	*api*	Manage API Hooking Prevention
customaction	*ca*	Manage actions taken when StellarEnforce blocks specific types of events
dlldriverlockdown	*dd*	Manage DLL/Driver Lockdown
dllinjectionprevention	*dll*	Manage DLL Injection Prevention
exceptionpath	*ep*	Manage exceptions to Application Lockdown
integritymonitoring	*in*	Manage Integrity Monitoring
memoryrandomization	*mr*	Manage Memory Randomization
networkvirusprotection	*net*	Manage Network Virus Protection
script	*scr*	Manage Script Lockdown

Parameter	Abbreviation	Use
storagedeviceblocking	*sto*	Allows or blocks storage devices (CD/DVD drives, floppy disks, and network drives) from accessing the managed endpoint.
usbmalwareprotection	*usb*	Manage USB Malware Protection
writeprotection	*wp*	Manage Write Protection
writeprotection- includes-approvedlist	*wpal*	Manage Write Protection including the Approved List

The following table lists the commands, parameters, and values available.

Table 3-5. Optional Feature Commands

Command	Parameter	Description
set apihookingprevention	*enable*	Enable API Hooking Prevention For example, type: ***SLCmd.exe -p <admin_password>set apihookingprevention enable*** **Note** The default status is *Disabled*.
	disable	Disable API Hooking Prevention For example, type: ***SLCmd.exe -p <admin_password>set apihookingprevention disable***
		Display the current status of API Hooking Prevention For example, type:

Command	Parameter	Description
		SLCmd.exe -p <admin_password>set apihookingprevention
set *customaction*		Display the current setting for actions taken when StellarEnforce blocks specific types of events **Note** The default setting is *Ask*.
	ignore	Ignore blocked files or processes when Application Lockdown blocks any of the following events: • Process launch • DLL loading • Script file access For example, type: **SLCmd.exe -p <admin_password>set customaction ignore**
	quarantine	Quarantine blocked files or processes when Application Lockdown blocks any of the following events: • Process launch • DLL loading • Script file access For example, type: **SLCmd.exe -p <admin_password> set customaction qurantine**

Command	Parameter	Description
		Note StellarEnforce does not support a custom action of "quarantine" on Windows (Standard) XP Embedded SP1.
	ask	Ask what to do for blocked files or processes when Application Lockdown blocks any of the following events: • Process launch • DLL loading • Script file access For example, type: ***SLCmd.exe -p <admin_password>set customaction ask***
set dlldriverlockdown		Display the current status of DLL/Driver Lockdown For example, type: ***SLCmd.exe -p <admin_password>set dlldriverlockdown*** **Note** The default status is *Enabled*.
	enable	Enable DLL/Driver Lockdown For example, type: ***SLCmd.exe -p <admin_password>set dlldriverlockdown enable***
	disable	Disable DLL/Driver Lockdown For example, type:

Command	Parameter	Description
		SLCmd.exe -p <admin_password>set dlldriverlockdown disable
set *dllinjectionprevention*		Display the current status of DLL Injection Prevention For example, type: **SLCmd.exe -p <admin_password>set dllinjectionprevention** **Note** The default status is *Disabled*.
	enable	Enable DLL Injection Prevention For example, type: **SLCmd.exe -p <admin_password>set dllinjectionprevention enable**
	disable	Disable DLL Injection Prevention For example, type: **SLCmd.exe -p <admin_password>set dllinjectionprevention disable**
set *exceptionpath*		Display current setting for using exceptions to Application Lockdown For example, type: **SLCmd.exe -p <admin_password>set exceptionpath** **Note** The default setting is *Disabled*.
	enable	Enable exceptions to Application Lockdown

Command	Parameter	Description
		For example, type: ***SLCmd.exe -p <admin_password>set exceptionpath enable***
	disable	Disable exceptions to Application Lockdown For example, type: ***SLCmd.exe -p <admin_password>set exceptionpath disable***
set *integritymonitoring*		Display the current status of Integrity Monitoring For example, type: ***SLCmd.exe -p <admin_password>set integritymonitoring*** **Note** The default status is *Disabled*.
	enable	Enable Integrity Monitoring For example, type: ***SLCmd.exe -p <admin_password> set integritymonitoring enable***
	disable	Disable Integrity Monitoring For example, type: ***SLCmd.exe -p <admin_password>set integritymonitoring disable***
set *memoryrandomization*		Display the current status of Memory Randomization For example, type: ***SLCmd.exe -p <admin_password>set memoryrandomization***

Command	Parameter	Description
		Note The default status is *Disabled*.
	enable	Enable Memory Randomization For example, type: ***SLCmd.exe -p <admin_password> set memoryrandomization enable***
	disable	Disable Memory Randomization For example, type: ***SLCmd.exe -p <admin_password>set memoryrandomization disable***
set *networkvirusprotection*		Display the current status of Network Virus Protection For example, type: ***SLCmd.exe -p <admin_password>set networkvirusprotection*** **Note** The default status is *Enabled*.
	enable	Enable Network Virus Protection For example, type: ***SLCmd.exe -p <admin_password>set networkvirusprotection enable***

	disable	Disable Network Virus Protection For example, type: ***SLCmd.exe -p <admin_password>set networkvirusprotection disable***

Command	Parameter	Description
set *script*		Display the current status of Script Lockdown For example, type: ***SLCmd.exe -p <admin_password>set script*** **Note** The default status is *Enabled*.
	enable	Enable Script Lockdown For example, type: ***SLCmd.exe -p <admin_password>set script enable***
	disable	Disable Script Lockdown For example, type: ***SLCmd.exe -p <admin_password>set script disable***
set *storagedeviceblocking*		Display the current status of Storage Device Blocking For example, type: ***SLCmd.exe -p <admin_password>set storagedeviceblocking*** **Note** The default status is *Disabled*.
	enable	Enable Storage Device Blocking For example, type: ***SLCmd.exe -p <admin_password>set storagedeviceblocking enable***

Command	Parameter	Description
	disable	Disable Storage Device Blocking For example, type: ***SLCmd.exe -p <admin_password>set storagedeviceblocking disable***
set *usbmalwareprotection*		Display the current status of USB Malware Protection For example, type: ***SLCmd.exe -p <admin_password>set usbmalwareprotection*** **Note** The default status is *Disabled*.
	enable	Enable USB Malware Protection For example, type: ***SLCmd.exe -p <admin_password>set usbmalwareprotection enable***
	disable	Disable USB Malware Protection For example, type: ***SLCmd.exe -p <admin_password>set usbmalwareprotection disable***
set *writeprotection*		Display the current status of Write Protection For example, type: ***SLCmd.exe -p <admin_password>set writeprotection***

Command	Parameter	Description
		Note The default status is *Disabled*.
	enable	Enable Write Protection For example, type: ***SLCmd.exe -p <admin_password>set writeprotection enable***
	disable	Disable Write Protection For example, type: ***SLCmd.exe -p <admin_password>set writeprotection disable***
set *writeprotection-includes- approvedlist*		Display the current status of Write Protection including the Approved List For example, type: ***SLCmd.exe -p <admin_password> set writeprotection-includes-approvedlist*** **Note** The default status is *Disabled*. However, the status changes to *Enabled* if Write Protection is enabled.
	enable	Enable protection of the Approved List (in addition to the Write Protection List) when Write Protection is enabled For example, type: ***SLCmd.exe -p <admin_password> set writeprotection-includes- approvedlist enable***

Command	Parameter	Description
	disable	Disable protection of the Approved List (in addition to the Write Protection List) when Write Protection is enabled For example, type: ***SLCmd.exe -p <admin_password> set writeprotection-includes- approvedlist disable***

Restricted User Account Commands

Configure the Restricted User Account using the Command Line Interface by typing your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The

following table lists the available abbreviated forms of parameters.

Table 3-6. Abbreviations and Uses

Parameter	Abbreviation	Use
user	*us*	Manage the Restricted User account
userpassword	*up*	Manage the Restricted User password

The following table lists the commands, parameters, and values available.

Table 3-7. Restricted User Account Commands

Command	Parameter	Description
set *user*		Display the the Restricted User account status For example, type: ***SLCmd.exe -p <admin_password> setuser***

Command	Parameter	Description
		Note The default status is *Disabled*.
	enable	Enable the Restricted User account For example, type: ***SLCmd.exe -p <admin_password> setuser enable***
	disable	Disable the Restricted User account For example, type: ***SLCmd.exe -p <admin_password> setuser disable***
set *userpassword*		Prompt the currently logged on administrator to specify a new Restricted User account password For example, type: ***SLCmd.exe -p <admin_password> set userpassword***
	<new_password>	Change the Restricted User account password to the newly specified password For example, type: ***SLCmd.exe -p <admin_password> set userpassword P@ssWORd***

Script Commands

Deploy scripts using the Command Line Interface by typing your commandin the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The following

table lists the available abbreviated forms of parameters.

Table 3-8. Abbreviations and Uses

Parameter	Abbreviation	Use
script	*scr*	Manage script commands

The following table lists the commands, parameters, and values available.

Table 3-9. Script Commands

Command	Parameter	Description
add *script*	<extension> <interpreter1> [interpreter2] ...	Add the specified script extension and the interpreter(s) required to execute the script For example, to add the script extension *JSP* with the interpreter file *jscript.js*, type: ***SLCmd.exe -p <admin_password> addscript jsp C:\Scripts\jscript.js***
remove *script*	<extension> [interpreter1] [interpreter2] ...	Remove the specified script extension and the interpreter(s) required to execute the script For example, to remove the script extension *JSP* with the interpreter file *jscript.js*, type: ***SLCmd.exe -p <admin_password> removescript jsp C:\Scripts\jscript.js*** **Note** If you do not specify any interpreter, the command removes all interpreters related to the script extension. If you specify interpreters, the command only removes the interpreters specified from the script extension rule.
show *script*		Display all script rules For example, type: ***SLCmd.exe -p <admin_password> showscript***

Note

StellarEnforce uses the following default script rules:

- bat <cmd.exe>
- cmd <cmd.exe>
- com <ntvdm.exe>
- dll <ntvdm.exe>
- drv <ntvdm.exe>
- exe <ntvdm.exe>
- js <cscript.exe>,<wscript.exe>
- msi <msiexec.exe>
- pif <ntvdm.exe>
- ps1 <powershell.exe>
- sys <ntvdm.exe>
- vbe <cscript.exe>,<wscript.exe>
- vbs <cscript.exe>,<wscript.exe>

Approved List Commands

Configure the Approved List using the Command Line Interface by typingyour command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The following table lists the available abbreviated forms of parameters.**Table 3-10.**

Abbreviations and Uses

Parameter	Abbreviation	Use
approvedlist	*al*	Manage files in the Approved List
list	*li*	Manage the Approved List import and export functions

The following table lists the commands, parameters, and values available.

Table 3-11. Approved List Commands

Command	Parameter	Description
add *approvedlist*	[*-r*] <file_or_folder_path>	Add the specified file to the Approved List For example, to add all Microsoft Office files to the Approved List, type: ***SLCmd.exe -p <admin_password> addapprovedlist -r "C:\Program Files\Microsoft Office"*** **Note** Using the optional *-r* value includes the specified folder and related subfolders.
remove *approvedlist*	<file_path>	Remove the specified file from the Approved List For example, to remove *notepad.exe* from the Approved List, type: ***SLCmd.exe -p <admin_password> remove approvedlist C:\Windows\notepad.exe***
show *approvedlist*		Display the files in the Approved List For example, type: ***SLCmd.exe -p <admin_password> showapprovedlist***
check *approvedlist*	*-f*	Update the hash values in the Approved List and display detailed results For example, type:

Command	Parameter	Description
		SLCmd.exe -p <admin_password> checkapprovedlist -f
	-q	Update the hash values in the Approved List and display summarized results For example, type: ***SLCmd.exe -p <admin_password> checkapprovedlist -q***
	-v	Compare the hash values in the Approved List with the hash values calculated from the actual files and prompt the user after detecting mismatched values For example, type: ***SLCmd.exe -p <admin_password> checkapprovedlist -v***
export *list*	<output_file>	Export the Approved List to the file path and file name specified For example, type: ***SLCmd.exe -p <admin_password> exportlist c:\approvedlist\ap.db*** **Note** The output file type must be *DB* format.

Command	Parameter	Description
import list	[-o] <input_file>	Import an Approved List from the file path and file name specified For example, type: *SLCmd.exe -p <admin_password> importlist c:\approvedlist\ap.db* **Note** The input file type must be *DB* format. Using the optional *-o* value overwrites the existing list.

Application Lockdown Commands

Perform actions related to Application Lockdown using the Command Line Interface by typing your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The

following table lists the available abbreviated forms of parameters.

StellarEnforce supports extended regular expressions (ERE). For more information, see https://pubs.opengroup.org/onlinepubs/7908799/xbd/re.html#tag_007_004.

Table 3-12. Abbreviations and Uses

Parameter	Abbreviation	Use
quarantinedfile	*qf*	Manage quarantined files
exceptionpath	*ep*	Manage exceptions to Application Lockdown

The following table lists the commands, parameters, and values available.

Table 3-13. Application Lockdown Commands

Command	Parameter	Description
show *quarantinedfile*		Display a list of quarantined files
restore *quarantinedfile*	<id> [*-al*] [*-f*]	Restore the specified file from quarantine Using the optional *-al* value also adds the restored file to Approved List. Using the optional *-f* value forces therestore
remove *quarantinedfile*	<id>	Delete the specified file
show *exceptionpath*		Display current exceptions to Application Lockdown For example, type: *SLCmd.exe -p <admin_password> showexceptionpath*
add *exceptionpath*	*-e* <file_path> *-tfile*	Add an exception for the specified file For example, type: *SLCmd.exe -p <admin_password> add exceptionpath -e c:\sample.bat -t file*
	-e <folder_path> *-t folder*	Add an exception for the specified folder For example, type: *SLCmd.exe -p <admin_password> add exceptionpath -e c:\folder -t folder*

	-e<folder_path> -t folderandsub	Add an exception for the specified folder and related subfolders For example, type: SLCmd.exe -p <admin_password> add exceptionpath -e c:\folder -t folderandsub
	-e <regular_expression> -t regexp	Add an exception using the regular expression For example, type: • SLCmd.exe -p <admin_password>add exceptionpath -e c:\\folder\\.* -t regexp • SLCmd.exe -p <admin_password>add exceptionpath -e \\\\computer\\folder\\.*\\file\.exe -t regexp

Command	Parameter	Description
remove *exceptionpath*	-e<file_path> -tfile	Remove an exception for the specified file For example, type: SLCmd.exe -p <admin_password> remove exceptionpath -e c:\sample.bat -tfile **Note** Specify the exact <file_path> originally specified in the corresponding add command.
	-e<folder_path> -tfolder	Remove an exception for the specified folder For example, type: SLCmd.exe -p <admin_password> remove exceptionpath -e c:\folder -tfolder **Note** Specify the exact <folder_path> originally specified in the corresponding add command.
	-e<folder_path> -tfolderandsub	Remove an exception for the specified folder and related subfolders For example, type: SLCmd.exe -p <admin_password> remove exceptionpath -e c:\folder -tfolderandsub **Note** Specify the exact <folder_path> originally specified in the corresponding add command.

Command	Parameter	Description
	-e <regular_expression> -t regexp	Remove an exception using the regular expression For example, type: SLCmd.exe -p <admin_password> remove exceptionpath -e c:\\test\\.* -tregexp **Note** Specify the exact <regular_expression> originally specified in the corresponding add command.
test exceptionpath	<regular_expression> <string> -t regexp	Check if the regular expression matches the string For example, type: SLCmd.exe -p <admin_password> test exceptionpath C:\\test\\.* C:\test \sample.exe -t regexp

Write Protection Commands

Configure Write Protection List and Write Protection Exception List using the Command Line Interface by typing your command in the following format:

SLCmd.exe -p <admin_password> **<command>** <parameter> <value> The following table lists the available abbreviated forms of parameters.

Table 3-14. Abbreviations and Uses

Parameter	Abbreviation	Use
writeprotection	wp	Manage the Write Protection feature
writeprotection-file	wpfi	Manage files in the Write Protection List

Parameter	Abbreviation	Use
writeprotection-folder	wpfo	Manage folders in the Write Protection List
writeprotection-regvalue	wprv	Manage registry values and associated registry keys in the Write Protection List
writeprotection-regkey	wprk	Manage registry keys in the Write Protection List
writeprotection-file-exception	wpfie	Manage files in the Write Protection Exception List
writeprotection-folder-exception	wpfoe	Manage folders in the Write Protection Exception List
writeprotection-regvalue-exception	wprve	Manage registry values and associated registry keys in the Write Protection Exception List
writeprotection-regkey-exception	wprke	Manage registry keys in the Write Protection Exception List

The following tables list the commands, parameters, and values available.

Table 3-15. Write Protection List "File" Commands

Command	Parameter	Value	Description
show	writeprotection		Display the entire Write Protection List
	writeprotection-file		Display the files in the Write Protection List For example, type: **SLCmd.exe -p <admin_password> show writeprotection-file**
	writeprotection-file-exception		Display the files in the Write Protection Exception List

Command	Parameter	Value	Description
			For example, type: ***SLCmd.exe -p <admin_password> show writeprotection-file-exception***
	writeprotection-folder		Display the folders in the Write Protection List For example, type: ***SLCmd.exe -p <admin_password> show writeprotection-folder***
	writeprotection-folder-exception		Display the folders in the Write Protection Exception List For example, type: ***SLCmd.exe -p <admin_password> show writeprotection- folder-exception***
add	*writeprotection-file*	<file_path>	Add the specified file to the Write Protection List For example, type: ***SLCmd.exe -p <admin_password> add writeprotection-file archive.txt***

Command	Parameter	Value	Description
			 **Note** The <file_path> value pattern matches from the end of the path toward the beginning of the path. For example, specifying *userfile.txt* matches *c:\Windows\userfile.txt* and *c:\Temp\userfile.txt*.
	writeprotection-file-exception	*-t* <file_path> *-p* <process_path>	Add the specified file and a specific process path for that file to the Write Protection Exception List For example, to add write access by a process named *notepad.exe* to a file named *userfile.txt*, type: ***SLCmd.exe -p <admin_password> add writeprotection-file-exception -t userfile.txt -p notepad.exe***

Command	Parameter	Value	Description
			Note The *-p* and *-t* values pattern match from the end of the path toward the beginning of the path. For example, specifying *userfile.txt* matches *c:\Windows\userfile.txt* and *c:\Temp\userfile.txt*.
		-t <file_path>	Add the specified file to the Write Protection Exception List For example, to add write access by any process to a file named *userfile.txt*, type: ***SLCmd.exe -p <admin_password> add writeprotection-file-exception -t userfile.txt*** **Note** The *-t* value pattern matches from the end of the path toward the beginning of the path. For example, specifying *userfile.txt* matches *c:\Windows\userfile.txt* and *c:\Temp\userfile.txt*.

Command	Parameter	Value	Description
		-p <process_path>	Add the specified process path to the Write Protection Exception List For example, to add write access by a process named notepad.exe to any files, type: **SLCmd.exe -p <admin_password> add writeprotection-file-exception -p notepad.exe** **Note** The -p value pattern matches from the end of the process path toward the beginning of the path. For example, specifying notepad.exe matches c:\Windows\notepad.exe and c:\Temp\notepad.exe.
	writeprotection-folder	[-r] <folder_path>	Add the specified folder(s) to the Write Protection List For example, type: **SLCmd.exe -p <admin_password> add writeprotection-folder -r userfolder**

Command	Parameter	Value	Description
			Note Using the optional *-r* value includes the specified folder and related subfolders. The <folder_path> value pattern matches from the end of the path toward the beginning of the path. For example, specifying *userfile.txt* matches *c:\Windows\userfolder* and *c:\Temp\userfolder*.
	writeprotection-folder-exception	[*-r*] *-t* <folder_path> *-p* <process_path>	Add the specified folder and processes run from the specified path to the Write Protection Exception List For example, to add write access by a process named *notepad.exe* to a folder and related subfolders at *c:\Windows\System32\Temp*, type: ***SLCmd.exe -p <admin_password> add writeprotection- folder-exception -r -tc:\Windows\System32\Temp -p notepad.exe***

Command	Parameter	Value	Description
			Note Using the optional *-r* value includes the specified folder and related subfolders. The *-p* and *-t* values pattern match from the end of the path toward the beginning of the path. For example, specifying *userfile.txt* matches *c:\Windows\userfile.txt* and *c:\Temp\userfile.txt*.
		[*-r*] *-t* <folder_path>	Add the specified folder(s) to the Write Protection Exception List For example, to add write access by any process to a folder at *userfolder*, type: ***SLCmd.exe -p <admin_password> add writeprotection- folder- exception -r -tuserfolder***

Command	Parameter	Value	Description
			Note Using the optional *-r* value includes the specified folder and related subfolders. The *-t* value pattern matches from the last part of the folder path toward the beginning of the path. For example, specifying *userfolder* matches *c:\Windows\userfolder* and *c:\Temp\userfolder*.
		-p <process_path>	Add processes run from the specified paths to the Write Protection Exception List For example, to add write access by a process named *notepad.exe* to any folder, type: ***SLCmd.exe -p <admin_password> add writeprotection-folder-exception -p c:\Windows\notepad.exe***

Command	Parameter	Value	Description
			Note The *-p* value pattern matches from the end of the process path toward the beginning of the path. For example, specifying *notepad.exe* matches *c:\Windows\notepad.exe* and *c:\Temp\notepad.exe*.
remove	*writeprotection-file*	<file_path>	Remove the specified file from the Write Protection List For example, type: ***SLCmd.exe -p <admin_password> remove writeprotection-file archive.txt*** **Note** Specify the exact <file_path> originally specified in the corresponding add command.
	writeprotection-file-exception	*-t* <file_path> *-p* <process_path>	Remove the specified file and process path from the Write Protection Exception List For example, type: ***SLCmd.exe -p <admin_password> remove writeprotection-file-***

Command	Parameter	Value	Description
			exception -t userfile.txt -p notepad.exe **Note** Specify the exact <file_path> and <process_path> originally specified in the corresponding add command.
		-t <file_path>	Remove the specified file from the Write Protection Exception List For example, type: *SLCmd.exe -p <admin_password> remove writeprotection-file-exception -t userfile.txt* **Note** The -t value pattern matches from the end of the path toward the beginning of the path. For example, specifying *userfile.txt* matches *c:\Windows\userfile.txt* and *c:\Temp\userfile.txt*.

Command	Parameter	Value	Description
		-p <process_path>	Remove the specified process path from the Write Protection Exception List For example, type: *SLCmd.exe -p <admin_password> remove writeprotection-file-exception -p notepad.exe* **Note** The -p value pattern matches from the end of the process path toward the beginning of the path. For example, specifying *notepad.exe* matches *c:\Windows\notepad.exe* and *c:\Temp\notepad.exe*.
	writeprotection-folder	[-r] <folder_path>	Remove the specified folder(s) from the Write Protection List For example, type: *SLCmd.exe -p <admin_password>remove writeprotection-folder -r c:\Windows*

Command	Parameter	Value	Description
			Note Using the optional *-r* value includes the specified folder and related subfolders. Specify the exact <folder_path> and *-r* value originally specified in the corresponding add command.
	writeprotection-folder-exception	[*-r*] *-t* <folder_path> *-p* <process_path>	Remove the specified folder and process path from the Write Protection Exception List For example, type: ***SLCmd.exe -p <admin_password> remove writeprotection-folder-exception -r -t c:\Windows\System32\Temp -p c:\Windows\notepad.exe***

Command	Parameter	Value	Description
			Note Using the optional *-r* value includes the specified folder and related subfolders. Specify the exact <folder_path>, <process_path>, and *-r* value originally specified in the corresponding add command.
		[*-r*] *-t* <folder_path>	Remove the specified folder(s) from the Write Protection Exception List For example, type: *SLCmd.exe -p <admin_password> remove writeprotection-folder-exception -r -t userfolder*

Command	Parameter	Value	Description
			Note Using the optional *-r* value includes the specified folder and related subfolders. The *-t* value pattern matches from the last part of the folder path toward the beginning of the path. For example, specifying *userfolder* matches *c:\Windows\userfolder* and *c:\Temp\userfolder*.
		-p <process_path>	Remove the specified process path from the Write Protection Exception List For example, type: ***SLCmd.exe -p <admin_password> remove writeprotection-folder-exception -p c:\Windows\System32***

Command	Parameter	Value	Description
			Note The *-p* value pattern matches from the end of the process path toward the beginning of the path. For example, specifying *notepad.exe* matches *c:\Windows\notepad.exe* and *c:\Temp\notepad.exe*.

Table 3-16. Write Protection List "Registry" Commands

Command	Parameter	Value	Description
show	*writeprotection*		Display the entire Write Protection List
	writeprotection-regvalue		Display the registry values in the Write Protection List
	writeprotection-regvalue- exception		Display the registry values in the Write Protection Exception List
	writeprotection-regkey		Display the registry keys in the Write Protection List
	writeprotection-regkey-exception		Display the registry keys in the Write Protection Exception List
add	*writeprotection-regvalue*	<path_of_registry_key> <registry_value>	Add the specified registry value and its related registry key to the Write Protection List For example, to add the registry value of "testvalue" in the "HKEY\test" registry key to the Write Protection List, type:

Command	Parameter	Value	Description
			SLCmd.exe -p <admin_password> add writeprotection-regvalue HKEY\test testvalue
	writeprotection-regvalue- exception	-t <path_of_registry_key> <registry_value> -p <process_path>	Add the specified registry value and its related registry key and a specific process path for that value to the Write Protection Exception List **Note** This command allows write access by the specified process to the specified registry values. The -p value pattern matches from the end of the path toward the beginning of the path.
		-t <path_of_registry_key> <registry_value>	Add the specified registry value and its related registry key to the Write Protection Exception List **Note** This command allows write access by any process to the specified registry value.
		-p <process_path>	Add the specified process to the Write Protection Exception List

Command	Parameter	Value	Description
			Note This command allows write access by the specified process to any registry values. The *-p* value pattern matches from the end of the process path toward the beginning of the path.
	writeprotection-regkey	[*-r*] <path_of_registry_key>	Add the specified registry key to the Write Protection List **Note** Using the optional *-r* value includes the specified registry key and related subkeys.
	writeprotection-regkey-exception	[*-r*] *-t* <path_of_registry_key> *-p* <process_path>	Add the specified registry key and processes run from the specified path to the Write Protection Exception List

Command	Parameter	Value	Description
			Note This command allows write access by the specified process to the specified registry keys. Using the optional *-r* value includes the specified registry key and related subkeys. The *-p* value pattern matches from the end of the process path toward the beginning of the path.
		[*-r*] *-t* <path_of_registry_key>	Add the specified registry key to the Write Protection Exception List **Note** This command allows write access by any process to the specified registry keys. Using the optional *-r* value includes the specified registry key and related subkeys.
		-p <process_path>	Add processes run from the specified paths to the Write Protection Exception List

Command	Parameter	Value	Description
			Note This command allows write access by the specified process to any registry keys. The *-p* value pattern matches from the end of the process path toward the beginning of the path.
remove	*writeprotection-regvalue*	<path_of_registry_key> <registry_value>	Remove the specified registry value from the Write Protection List **Note** Specify the exact <path_of_registry_key> and <registry_value> originally specified in the corresponding add command.
	writeprotection-regvalue- exception	*-t* <path_of_registry_key> <registry_value> *-p* <process_path>	Remove the specified registry value and process path from the Write Protection Exception List **Note** Specify the exact <path_of_registry_key>, <registry_value>, and <process_path> originally specified in the corresponding add command. The *-p* value pattern matches from the end of the path toward the beginning of the path.

Command	Parameter	Value	Description
		-t <path_of_registry_key> <registry_value>	Remove the specified registry value from the Write Protection Exception List
		-p <process_path>	Remove the specified process path from the Write Protection Exception List **Note** The -p value pattern matches from the end of the path toward the beginning of the path.
	writeprotection-regkey	[-r] <path_of_registry_key>	Remove the specified registry key from the Write Protection List **Note** Specify the exact <path_of_registry_key> and -r value originally specified in the corresponding add command. Using the optional -r value includes the specified registry key and related subkeys.
	writeprotection-regkey-exception	[-r] -t <path_of_registry_key> -p <process_path>	Remove the specified registry key and process path from the Write Protection Exception List

Command	Parameter	Value	Description
			Note Specify the exact <path_of_registry_key>, <process_path>, and `-r` value originally specified in the corresponding add command. Using the optional `-r` value includes the specified registry key and related subkeys. The `-p` value pattern matches from the end of the path toward the beginning of the path.
		[`-r`] `-t` <path_of_registry_key>	Remove the specified registry key from the Write Protection Exception List **Note** Using the optional `-r` value includes the specified registry key and related subkeys.
		`-p` <process_path>	Remove the specified process path from the Write Protection Exception List **Note** The `-p` value pattern matches from the end of the path toward the beginning of the path.

Trusted Certification Commands

Configure Trusted Certificates using the Command Line Interface by typingyour command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The following table lists the available abbreviated forms of parameters.**Table 3-17.**

Abbreviations and Uses

Parameter	Abbreviation	Use
trustedcertification	*tc*	Manage Trusted Certifications

The following table lists the commands, parameters, and values available.

Table 3-18. Trusted Certificate Commands

Command	Parameter	Description
set *trustedcertification*		Display current setting for using Trusted Certifications **Note** The default setting is *Enabled*.
	enable	Enable using Trusted Certifications
	disable	Disable using Trusted Certifications
show *trustedcertification*	[*-v*]	Display the certificate files in the Trusted Certifications List Using the optional *-v*value displays detailed information.
add *trustedcertification*	*-c* <file_path> [*-l* <label>] [*-u*]	Add the specified certificate file to the Trusted Certifications List Using the optional *-l*value specifies the unique label for this certificate file

Command	Parameter	Description
		Using the optional *-u* value treats the file signed by this certificate file as a Trusted Updater
remove *trustedcertification*	-l<label>	Remove a certificate file from the Trusted Certifications List by specifying its label

Intelligent Runtime Learning

Configure Intelligent Runtime Learning using the Command Line Interface by typing your command in the following format:

Table 3-19. Abbreviations and Uses

Parameter	Abbreviation	Use
intelligentruntime learning	*irl*	Agent will allow run-time execution files that are generated by applications in the allow list

Table 3-20. Intelligent Runtime Learning Commands

Command	Parameter	Description
set *intelligentruntimelearning*		Display current settings for using Intelligent Runtime Learning
	enable	Enable using Intelligent Runtime Learning
	disable	Disable using Intelligent Runtime Learning

Trusted Hash List Commands

Configure trusted hash values using the Command Line Interface by typing your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The

following table lists the available abbreviated forms of parameters.

Table 3-21. Abbreviations and Uses

Parameter	Abbreviation	Use
trustedhash	*th*	Manage trusted hash values (files) added by the StellarEnforce administrator

The following table lists the commands, parameters, and values available.

Table 3-22. Trusted Hash List Commands

Command	Parameter	Description
set *trustedhash*		Display current setting for using Trusted Hash List **Note** The default setting is *Disabled*.
	enable	Enable using Trusted Hash List
	disable	Disable using Trusted Hash List
show *trustedhash*		Display the hash values in the Trusted Hash List For example, type: ***SLCmd.exe -p <admin_password> showtrustedhash***
add *trustedhash*	-*v*<hash> [-*l* <label>] [-*u*][-*al*] [-*t*<file_path>][-*n*<note>]	Add the specified hash value to the Trusted Hash List For example, to add a trusted file with a hash value *xxx* to the Trusted Hash List, type: ***SLCmd.exe -p <admin_password> add trustedhash -v xxx*** Using the optional -*l*value specifies the unique label for this hash value. Using the optional -*u* value treats the file of the specified hash value as a Trusted Updater.

Command	Parameter	Description
		Note The *-u* value requires the Predefined Trusted Updater List enabled. Using the optional *-al* value adds the file of the specified hash value to Approved List Using the optional *-t* value specifies a file path to check for the hash value **Note** The *-t* value pattern matches from the end of the path toward the beginning of the path. For example, specifying *userfile.txt* matches *c:\Windows\userfile.txt* and *c:\Temp\userfile.txt*. Using the optional *-n* value adds a note for the file hash
remove trustedhash	-l<label>	Remove a file from the Trusted Hash List by specifying its label
remove trustedhash	*-a*	Remove all the hash values in the Trusted Hash List

Trusted Updater Commands

To execute installers or files not specified in agent Approved Lists, configure Trusted Updater by typing your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The

following table lists the available abbreviated forms of parameters.

Table 3-23. Abbreviations and Uses

Parameter	Abbreviation	Use
trustedupdater	*tu*	Manage the Predefined Trusted Updater tool process

The following table lists the commands, parameters, and values available.

Table 3-24. Trusted Updater Commands

Command	Parameter	Description
start *trustedupdater*	[*-r*] <path_of_installer>	Start Trusted Updater to add installer files (*EXE* and *MSI* file types) to the specified folder of the Approved List **Note** Using the optional *-r* value includes the specified folder and related subfolders. For example, to include all installation packages in the *C:\Installers* folder and all sub-folders, type: ***SLCmd.exe -p <admin_password> start trustedupdater -r C:\Installers***
stop *trustedupdater*	[*-f*]	Disable Trusted Updater to stop adding new or updated files to the Approved List **Note** Using the optional *-f* value specifies that the Trusted Updater does not prompt the administrator before committing a file to the Approved List. For example, to stop the Trusted Updater and commit all identified installers (indentified before receiving the stop command) to the Approved List after receiving a prompt, type:

Command	Parameter	Description
		SLCmd.exe -p <admin_password> stop trustedupdater -f

Trusted USB Device Commands

Configure the trusted USB device list using the Command Line Interface by typing your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The

following table lists the available abbreviated forms of parameters.

Table 3-25. Abbreviations and Uses

Parameter	Abbreviation	Use
trustedusbdevice	tud	Manage the trusted USB device list

The following table lists the commands, parameters, and values available.

Table 3-26. Trusted USB Device Commands

Command	Parameter	Description
show usbinfo	***<drive_letter>***	Display the identifiers (VID/PID/SN) of a USB storage device For example, type: *SLCmd.exe -p <admin_password> show usbinfo d*
show *trustedusbdevice*		Display all trusted USB storage devices For example, type: *SLCmd.exe -p <admin_password> showtrustedusbdevice*
add *trustedusbdevice*	***[-vid <VID>] [-pid <PID>] [-sn <SN>]***	Add a trusted USB storage device with the specified identifiers. You must specify at least one device identifier For example, type: *add trustedusbdevice -sn 123456*

Command	Parameter	Description
remove trustedusbdevice	*[-vid <VID>] [-pid <PID>] [-sn <SN>]*	Remove a trusted USB storage device with the specified identifiers. You must specify at least one device identifier For example, type: *remove trustedusbdevice -sn 123456*

Predefined Trusted Updater Commands

Important

The *add* command for adding files to the Predefined Trusted Updater List follows a different format than the general commands specified in the Predefined Trusted Updater Commands table. For details on adding files to the Predefined Trusted Updater List, see *Predefined Trusted Updater "Add" Command on page 3-59*.

Configure Predefined Trusted Updater using the Command Line Interface bytyping your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The following table lists the available abbreviated forms of parameters.

Table 3-27. Abbreviations and Uses

Parameter	Abbreviation	Use
predefinedtrustedupdater	*ptu*	Manage files in the Predefined Trusted Updater Lists

The following table lists the commands, parameters, and values available.

Table 3-28. Predefined Trusted Updater Commands

Command	Parameter	Description
add *predefinedtrustedupdater*	*-e* <folder_or_file_exception>	Add the specified file or folder to the Predefined Trusted Updater Exception List **Important** The ***add*** command for adding files to the Predefined Trusted Updater List follows a different format than the other commands specified in the this list. For details on adding files to the Predefined Trusted Updater List (not the Predefined Trusted Updater Exception List), see *Predefined Trusted Updater "Add" Command on page 3-59*. For example, to add *notepad.exe* to the Predefined Trusted Updater Exception List, type: ***SLCmd.exe -p <admin_password> add predefinedtrustedupdater -e C:\Windows\notepad.exe***
decrypt *predefinedtrustedupdater*	<path_of_encrypted_file> <path_of_decrypted_output_file>	Decrypt a file to the specified location For example, to decrypt *C:\Notepad.xen* to *C:\Editors\notepad.xml*, type: ***SLCmd.exe -p <admin_password> decrypt***

		predefinedtrustedupdater

Command	Parameter	Description
		C:\Notepad.xen C:\Editors \notepad.xml
encrypt *predefinedtrustedupdater*	<path_of_file> <path_of_encrypted_output_file>	Encrypt a file to the specified location For example, to encrypt *C:\notepad.xml* to *C:\Editors \Notepad.xen*, type: ***SLCmd.exe -p <admin_password> encrypt predefinedtrustedupdater C:\Editors\notepad.xml C:\Notepad.xen***
export *predefinedtrustedupdater*	<path_of_encrypted_output>	Export the Predefined Trusted Updater List to the specified encrypted file For example, type: ***SLCmd.exe -p <admin_password> export predefinedtrustedupdater C:\Lists\ptu_list.xen***
import *predefinedtrustedupdater*	<path_of_encrypted_input>	Import a Predefined Trusted Updater List from the specified encrypted file For example, type: ***SLCmd.exe -p <admin_password> import predefinedtrustedupdater C:\Lists\ptu_list.xen***

remove *predefinedtrustedupdater*	-l <label_name>	Remove the specified labeled rule from the Predefined Trusted Updater List For example, to remove the "Notepad" rule, type:

Command	Parameter	Description
		SLCmd.exe -p <admin_password> remove predefinedtrustedupdater -lNotepad
	-e <folder_or_file_exception>	Remove the specified exception from the Predefined Trusted Updater Exception List For example, to remove the *notepad.exe* exception, type: **SLCmd.exe -p <admin_password> remove predefinedtrustedupdater -e C:\Windows\notepad.exe**
set predefinedtrustedupdater		Display the status of the Predefined Trusted Updater List **Note** The default status is *Disabled*.
	enable	Enable the Predefined Trusted Updater List
	disable	Disable the Predefined Trusted Updater List
show predefinedtrustedupdater		Display the files in the Predefined Trusted Updater List For example, type: **SLCmd.exe -p <admin_password> show predefinedtrustedupdater**
	-e	Display the files in the Predefined Trusted Updater Exception List For example, type:

Command	Parameter	Description
		SLCmd.exe -p <admin_password> show predefinedtrustedupdater -e

Predefined Trusted Updater "Add" Command

Add processes, files, or folders to the Predefined Trusted Updater List usingthe Command Line Interface by typing your command in the following format:

SLCmd.exe *-p* <admin_password> ***add*** *predefinedtrustedupdater -u* <folder_or_file> *-t* <type_of_object> [<optional_values>]

The following table lists the command, parameter, and base value.

Table 3-29. Predefined Trusted Updater "Add" Command

Command	Parameter	Value	Description
add	*predefinedtrustedupdater*	<folder_or_file	Add a specified file or folder to the Predefined Trusted Updater List For example, to add *notepad.exe* to the Predefined Trusted Updater List, type: ***SLCmd.exe -p <admin_password> add predefinedtrustedupdater C:\Windows\notepad.exe***

Append the following additional values at the end of the command:

Table 3-30. Predefined Trusted Updater "Add" Additional Values

Value	Required / Optional	Description	Example
-u <folder_or_file>	Required	Add the specified file or folder to the Predefined Trusted Updater List	N/A **Note** This parameter requires the use of the -t <type_of_object> value.
-t <type_of_object>	Required	Specify the type of object to add to the Predefined Trusted Updater List located in -u<folder_or_file> Available objects types are as follows: process: Indicates only *EXE* file types file: Indicates only *MSI* and *BAT* file types folder: Indicates all *EXE*, *MSI*, and *BAT* files in the specified folder folderandsub: Indicates all *EXE*, *MSI*, and *BAT* files in the specified folder and related subfolders	*SLCmd.exe -p <admin_password> add predefinedtrust edupdater -u C:\Windows\notepad.exe -t process*
-p <parent_process>	Optional	Add the full file path to the specified parent process used to invoke the file(s) specified in -u<folder_or_file>	*SLCmd.exe -p <admin_password> add predefinedtrust*

			edupdater -u

Value	Required / Optional	Description	Example
			C:\Windows \notepad.exe -t process -p C:\batch files \note.bat
-l <label_name>	Optional	Specify a label name for the file(s) specified in -u <folder_or_file> **Note** When left blank, StellarEnforce assigns an arbitrary label name.	SLCmd.exe -p <admin_password> add predefinedtrust edupdater -u C:\Windows \notepad.exe -t process -l EDITOR
-al enable	Optional	Compare the hash values in the Approved List with the hash values calculated from the actual files **Note** Enabled by default even when -al is not specified.	SLCmd.exe -p <admin_password> add predefinedtrust edupdater -u C:\Windows \notepad.exe -t process -al enable
-al disable	Optional	Do not compare the hash values in the Approved List with the hash values calculated from the actual files	SLCmd.exe -p <admin_password> add predefinedtrust edupdater -u C:\Windows \notepad.exe -t process -al disable

Windows Update Support

Configure Windows Update Support using the Command Line Interface bytyping your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The

following table lists the available abbreviated forms of parameters.

Table 3-31. Abbreviations and Uses

Parameter	Abbreviation	Use
windowsupdatesupport	*wus*	Allow Windows Update to run on the agent with the Application Lockdown on

The following table lists the commands, parameters, and values available.

Table 3-32. Windows Update Support Commands

Command	Parameter	Description
set *windowsupdatesupport*		Display current setting for Windows Update Support **Note** The default setting is *Disabled*.
	enable	Enable Windows Update Support
	disable	Disable Windows Update Support

Blocked File Notification Commands

Enable or disable notifications for file blocking using the Command Line Interface by typing your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The

following table lists the available abbreviated forms of parameters.

Table 3-33. Abbreviations and Uses

Parameter	Abbreviation	Use
blockedfilenotification	*bfn*	Display notifications on the managed endpoint when StellarEnforce blocks and prevents an application from running or making changes to the endpoint

The following table lists the commands, parameters, and values available.

Table 3-34. Blocked File Notification Commands

Command	Parameter	Description
set *blockedfilenotification*		Display the current setting **Note** The default setting is *Disabled*.
	enable	Enable pop-up notifications
	disable	Disable pop-up notifications

Configuration File Commands

Perform actions on the configuration file using the Command Line Interfaceby typing your command in the following format:

SLCmd.exe *-p* <admin_password> ***<command>*** *<parameter>* <value> The following table lists the available abbreviated forms of parameters.

Table 3-35. Abbreviations and Uses

Parameter	Abbreviation	Use
configuration	*con*	Manage the configuration file

The following table lists the commands, parameters, and values available.

Table 3-36. Configuration File Commands

Command	Parameter	Description
decrypt *configuration*	<path_of_encrypted_file> <path_of_decrypted_output_file>	Decrypts a configuration file to the specified location For example, to decrypt *C:\config.xen* to *C:\config.xml*, type: ***SLCmd.exe -p <admin_password>decrypt configuration C:\config.xen C:\config.xml***
encrypt *configuration*	<path_of_file> <path_of_encrypted_output_file>	Encrypts a configuration file to the specified location For example, to encrypt *C:\config.xml* to *C:\config.xen*, type: ***SLCmd.exe -p <admin_password>encrypt configuration C:\config.xml C:\config.xen***
export *configuration*	<path_of_encrypted_output>	Export the configuration file to the specified location For example, type: ***SLCmd.exe -p <admin_password>export configuration C:\config.xen***
import *configuration*	<path_of_encrypted_input>	Import a configuration file from the specified location For example, type: ***SLCmd.exe -p <admin_password>import configuration C:\config.xen***

Fileless Attack Prevention Commands

Configure Fileless Attack Prevention features using the Command Line Interface by typing your command in the following format:

SLCmd.exe -p <admin_password> ***<command>*** *<parameter>* <value> The following table lists the available abbreviated forms of parameters.**Table 3-37.**

Abbreviations and Uses

Parameter	Abbreviation	Use
filelessattackprevention	*flp*	Manage Fileless Attack Prevention
filelessattackprevention-process	*flpp*	Manage Fileless Attack Prevention processes
filelessattackprevention-exception	*flpe*	Manage Fileless Attack Prevention exceptions

The following table lists the commands, parameters, and values available.

Table 3-38. Fileless Attack Prevention Commands

Command	Parameter	Description
set *filelessattackprevention*		Display the current Fileless Attack Prevention status For example, type: *SLCmd.exe -p <admin_password> set filelessattackprevention*
	enable	Enable Fileless Attack Prevention For example, type: *SLCmd.exe -p <admin_password> set filelessattackprevention enable*
	disable	Disable Fileless Attack Prevention For example, type: *SLCmd.exe -p <admin_password> set filelessattackprevention disable*

Command	Parameter	Description
show *filelessattackprevention-process*		Display the list of monitored processes For example, type: *SLCmd.exe -p <admin_password> show filelessattackprevention-process*
add *filelessattackprevention-exception*	*<monitored_process>* *<Parentprocess1>* *<Parentprocess2>* *<Parentprocess3>* *<Parentprocess4>* *-a <arguments> -regex -l <label>*	Add a Fileless Attack Prevention exception For example, given the following exception: • Monitored Process: *cscript.exe* • Parentprocess1: *a.exe* • Parentprocess2: • Parentprocess3: *c.exe* • Parentprocess4: • Arguments: *-abc -def* • Use regular expression for arguments: *No* To add the exception, type: *SLCmd.exe -p <admin_password> addflpe cscript.exe a.exe "" c.exe "" -a "-abc -def"*
remove *filelessattackprevention-exception*	*-l <label>*	Remove a Fileless Attack Prevention exception For example, type: *SLCmd.exe -p <admin_password> remove filelessattackprevention-exception -l <label>*

Note

- If a monitored process is launched before StellarEnforce is started, StellarEnforce is unable to detect and block the monitored process.
- In systems running Windows Vista x86 (no service pack installed), the Fileless Attack Prevention feature can run the process chain check without issues, but is unable to perform the command line argument check. If a process passes the process chain check on these systems, the command line argument check is skipped completely.

Maintenance Mode Commands

Perform actions related to Maintenance Mode using the Command LineInterface by typing your command in the following format:

SLCmd.exe -p <admin_password> ***<command>*** *<parameter>* <value> The following table lists the available abbreviated forms of parameters.

Table 3-39. Abbreviations and Uses

Parameter	Abbreviation	Use
approvedlist	*al*	Manage Approved List in Maintenance Mode
maintenancemode	*mtm*	Manage Maintenance Mode
maintenancemodeschedule	*mtms*	Manage Maintenance Mode schedule

The following table lists the commands, parameters, and values available.

Table 3-40. Maintenance Mode Commands

Command	Parameter	Description
start *maintenancemode*		Start Maintenance Mode For example, type: *SLCmd.exe -p <admin_password> start maintenancemode*

Command	Parameter	Description
	-duration	Set an action to take place after Maintenance Mode as well as a duration for Maintenance Mode in hours (1 -999) For example, type: *SLCmd start maintenancemode -scan al -duration3*
	-scan quarantine	Start Maintenance Mode and enable file scanning after the maintenance period StellarEnforce will scan files that are created/executed/modified during the maintenance period and quarantines detected files, then add files that are not detected as malicious to the Approved List For example, type: *SLCmd.exe -p <admin_password> start maintenancemode -scan quarantine*
	-scan al	Start Maintenance Mode and enable file scanning after the maintenance period. StellarEnforce scans files that are created/executed/modified files during the period and adds these files (including files that are detected as malicious) to the Approved List For example, type: *SLCmd.exe -p <admin_password> start maintenancemode -scan al*
stop *maintenancemode*		Stop Maintenance Mode For example, type: *SLCmd.exe -p <admin_password> stopmaintenancemode* **Note** You cannot stop Maintenance Mode when an agent is preparing to leave Maintenance Mode.

Command	Parameter	Description
	-discard	Stop Maintenance Mode and do not add files in the file queue to the Approved List For example, type: *SLCmd.exe -p <admin_password> stop maintenancemode discard* **Note** You cannot stop Maintenance Mode when an agent is preparing to leave Maintenance Mode.
set *maintenancemodeschedule*	*-start* YYYY-MM-DDTHH:MM:SS *-end* YYYY-MM-DDTHH:MM:SS	Set the schedule for Maintenance Mode For example, type: *SLCmd.exe -p <admin_password> set maintenancemodeschedule -start2019-04-07T01:00:00 -end 2019-04-07T05:00:00* **Note** • You cannot set the Maintenance Mode schedule when an agent is already in Maintenance Mode or is preparing to leave Maintenance Mode. • If you configure the Maintenance Mode schedule to start earlier than the current time, the system starts the maintenance period immediately after you save the settings.
	-start YYYY-MM-DDTHH:MM:SS *-end* YYYY-MM-DDTHH:MM:SS *-scan quarantine*	Use this command to configure the following: • Set the schedule for Maintenance Mode • Enable file scanning after the maintenance period: StellarEnforce will

Command	Parameter	Description
		scan files that are created/executed/ modified during the maintenance period, quarantine detected threats, and add files that are not detected as malicious to the Approved List For example, type: *SLCmd.exe -p <admin_password> set maintenancemodeschedule -start2019-04-07T01:00:00 -end 2019-04-07T05:00:00 -scan quarantine* **Note** • You cannot set the Maintenance Mode schedule when an agent is already in Maintenance Mode or is preparing to leave Maintenance Mode. • If you configure the Maintenance Mode schedule to start earlier than the current time, the system starts the maintenance period immediately after you save the settings.
	-start YYYY-MM-DDTHH:MM:SS *-end* YYYY-MM-DDTHH:MM:SS *-scan al*	Use this command to configure the following: • Set the schedule for Maintenance Mode • Enable file scanning after the maintenance period: StellarEnforce will scan files that are created/executed/ modified during the maintenance period and add these files (including files that are detected as malicious) to the Approved List For example, type: *SLCmd.exe -p <admin_password> set*

		maintenancemodeschedule -start

Command	Parameter	Description
		2019-04-07T01:00:00 -end *2019-04-07T05:00:00 -scan al* **Note** • You cannot set the Maintenance Mode schedule when an agent is already in Maintenance Mode or is preparing to leave Maintenance Mode. • If you configure the Maintenance Mode schedule to start earlier than the current time, the system starts the maintenance period immediately after you save the settings.
remove *maintenancemodeschedule*		Clear the Maintenance Mode schedule settings For example, type: *SLCmd.exe -p <admin_password> remove maintenancemodeschedule* **Note** You cannot delete schedule settings when an agent is already in Maintenance Mode or is preparing to leave Maintenance Mode.
show *maintenancemode*		Display the Maintenance Mode status For example, type: *SLCmd.exe -p <admin_password> showmaintenancemode*
show *maintenancemodeschedule*		Display the Maintenance Mode schedule settings

Command	Parameter	Description
		For example, type: *SLCmd.exe -p <admin_password> show maintenancemodeschedule*

Important

Before using Maintenance Mode, apply the required updates on the following supported platforms:

- For Windows 2000 Service Pack 4, apply the update KB891861 from the Microsoft Update Catalog website.
- For Windows XP SP1, upgrade to Windows XP SP2.

Note

- To reduce risk of infection, run only applications from trusted sources on endpoints during the maintenance period.
- Agents start one scheduled maintenance period at a time. If you configure a new maintenance period, the system overwrites existing maintenance schedule that has not started yet.
- When the agent is about to leave Maintenance Mode, restarting the agent endpoint prevents StellarEnforce from adding files in the queue to the Approved List.
- During the maintenance period, you cannot perform agent patch updates on endpoints.
- When Maintenance Mode is enabled, StellarEnforce does not support Windows updates that require restarting an endpoint during the maintenance period.
- To run an installer that deploys files to a network folder during the maintenance period, StellarEnforce must have access permission to the network folder.
- Maintenance Mode does not support the Windows Visual Studio debugger.

Manual Scan Commands

Perform actions related to manual scans on endpoints using the CommandLine Interface by typing your command in the following format:

SLCmd.exe -p <admin_password> ***<command>*** *<parameter>* <value>

Note

- The Manual Scan commands require special licensing. Ensure that you have the correct Activation Code before using Manual Scan commands. For more information on how to obtain the Activation Code, contact your sales representative.
- For agent component updates, make sure that StellarEnforce agents can connect to an update source without using a proxy server.
- After a component update is complete, you cannot roll back the component to a previous version.

The following table lists the commands, parameters, and values available.

Table 3-41. Manual Scan Commands

Command	Parameter	Description
start scan	*[-action <action>]*	Start a manual scan on an endpoint Use the *-action* option to specify an actionto perform when an anomaly is detected Available actions are as follows: • *0*: No action • *1*: Clean, or delete if the clean action is unsuccessful • *2*: Clean, or quarantine if the clean action is unsuccessful This is the default action • *3*: Clean, or ignore if the clean action is unsuccessful

Command	Parameter	Description
		For example, type: *SLCmd.exe -p <admin_password> start scan -action 1* **Note** • For each manual scan, StellarEnforce saves the scan results in a log file (with a file name of *ScanResult_YYYYMMDDHHMMSS.log*) in *C:\Program Files\TXOne\StellarEnforce\Scan\log*. • With administrator privileges, you can restore quarantined files using the following command: *WKSupportTool.exe RestorePrescan <QuarantinedFilePath> <FilePathToRestore>* where *<QuarantinedFilePath>* is the file path of the quarantined file and *<FilePathToRestore>*is the folder location to restore the file. For information about quarantined files, see the scan logs.
start update		Update StellarEnforce agent components (pattern file and scan engine)
set update	*-source <source>*	Set the update source for component updates
show update	*-source <source>*	Display the current update source

Chapter 4

Working with the Agent Configuration File

This chapter describes how to configure TXOne StellarEnforce using the configuration file.

Topics in this chapter include:

Working with the Agent Configuration File

The configuration file allows administrators to create and deploy a single configuration across multiple machines.

See *Exporting or Importing a Configuration File on page 4-3* for more information.

Changing Advanced Settings

Some settings can only be changed though the configuration file using the command line interface (CLI). See *Using SLCmd at the Command Line Interface (CLI) on page 3-2* for more information.

Procedure

1. Export the configuration file.
2. Decrypt the configuration file.
3. Edit the configuration file with Windows Notepad or another text editor.

Important

StellarEnforce only supports configuration files in the UTF-8 file format.

Tip

To update multiple agents with shared settings, you may choose to only import the modified settings.

4. Encrypt the edited configuration file.
5. Import the edited configuration file.

Exporting or Importing a Configuration File

Note

TXOne StellarEnforce encrypts the configuration file before export. Users must decrypt the configuration file before modifying the contents.

Procedure

1. Open the TXOne StellarEnforce console using the desktop icon (if available) or the **Start** menu by clicking **All Programs** > **TXOne StellarEnforce**.
2. Provide the password and click **Login**.
3. Click the **Settings** menu item to access the **Export/Import Configuration** section.

   To export the configuration file as a database (*.xen*) file:

   a. Click **Export**, and choose the location to save the file.

   b. Provide a filename, and click **Save**.

   To import the configuration file as a database (*.xen*) file:

   a. Click **Import**, and locate the database file.

   b. Select the file, and click **Open**.

   TXOne StellarEnforce overwrites the existing configuration settings withthe settings in the database file.

Configuration File Syntax

The configuration file uses the XML format to specify parameters used by StellarEnforce.

Important

StellarEnforce only supports configuration files in the UTF-8 file format.

Refer to the following example of the configuration file.

```
<?xml version="1.0" encoding="UTF-8"?>
<Configurations version="1.00.000" xmlns:xsi="http://www.w3.org/2001/XMLSchema-i
    <Configuration>
        <AccountGroup>
            <Account Id="{24335D7C-1204-43d1-9CBB-332D688C85B6}" Enable="no">
                <Password/>
            </Account>
        </AccountGroup>
        <UI>
            <SystemTaskTrayIcon Enable="yes">
                <BlockNotification Enable="no" AlwaysOnTop="yes" ShowDetails="ye
                    <Title/>
                    <Message/>
                </BlockNotification>
            </SystemTaskTrayIcon>
        </UI>
        <Feature>
            <ApplicationLockDown LockDownMode="2">
                <TrustList RecentHistoryUnapprovedFilesLimit="50">
                    <ExclusionList/>
                </TrustList>
                <ScriptLockdown Enable="yes">
                    <Extension Id="bat">
                        <Interpreter>cmd.exe</Interpreter>
                    </Extension>
                    <Extension Id="cmd">
                        <Interpreter>cmd.exe</Interpreter>
                    </Extension>
                    <Extension Id="com">
                        <Interpreter>ntvdm.exe</Interpreter>
                    </Extension>
                    <Extension Id="dll">
                        <Interpreter>ntvdm.exe</Interpreter>
                    </Extension>
                    <Extension Id="drv">
                        <Interpreter>ntvdm.exe</Interpreter>
```

```
            </Extension>
            <Extension Id="exe">
                <Interpreter>ntvdm.exe</Interpreter>
            </Extension>
            <Extension Id="js">
                <Interpreter>cscript.exe</Interpreter>
                <Interpreter>wscript.exe</Interpreter>
            </Extension>
            <Extension Id="msi">
                <Interpreter>msiexec.exe</Interpreter>
            </Extension>
            <Extension Id="pif">
                <Interpreter>ntvdm.exe</Interpreter>
            </Extension>
            <Extension Id="ps1">
                <Interpreter>powershell.exe</Interpreter>
            </Extension>
            <Extension Id="sys">
                <Interpreter>ntvdm.exe</Interpreter>
            </Extension>
            <Extension Id="vbe">
                <Interpreter>cscript.exe</Interpreter>
                <Interpreter>wscript.exe</Interpreter>
            </Extension>
            <Extension Id="vbs">
                <Interpreter>cscript.exe</Interpreter>
                <Interpreter>wscript.exe</Interpreter>
            </Extension>
        </ScriptLockdown>
        <TrustedUpdater>
            <PredefinedTrustedUpdater Enable="no">
                <RuleSet/>
            </PredefinedTrustedUpdater>
            <WindowsUpdateSupport Enable="no"/>
        </TrustedUpdater>
        <DllDriverLockDown Enable="yes"/>
        <ExceptionPath Enable="no">
            <ExceptionPathList/>
        </ExceptionPath>
        <TrustedCertification Enable="yes"/>
        <TrustedHash Enable="no"/>
        <WriteProtection Enable="no" ActionMode="1" ProtectApprov
```

```
        <CustomAction ActionMode="0"/>
        <FilelessAttackPrevention Enable="no">
            <ExceptionList/>
        </FilelessAttackPrevention>
        <IntelligentRuntimeLearning Enable="no"/>
    </ApplicationLockDown>
    <UsbMalwareProtection Enable="no" ActionMode="1"/>
    <DllInjectionPrevention Enable="no" ActionMode="1"/>
    <ApiHookingPrevention Enable="no" ActionMode="1"/>
    <IntegrityMonitoring Enable="no"/>
    <StorageDeviceBlocking Enable="no" ActionMode="1"
    AllowNonMassStorageUSBDevice="no">
        <DeviceException>
            <DeviceGroup name="UserDefined"/>
        </DeviceException>
    </StorageDeviceBlocking>
    <Log>
        <EventLog Enable="yes">
            <Level>
                <WarningLog Enable="yes"/>
                <InformationLog Enable="no"/>
            </Level>
            <BlockedAccessLog Enable="yes"/>
            <ApprovedAccessLog Enable="yes">
                <TrustedUpdaterLog Enable="yes"/>
                <DllDriverLog Enable="no"/>
                <ExceptionPathLog Enable="yes"/>
                <TrustedCertLog Enable="yes"/>
                <TrustedHashLog Enable="yes"/>
                <WriteProtectionLog Enable="yes"/>
            </ApprovedAccessLog>
            <SystemEventLog Enable="yes">
                <ExceptionPathLog Enable="yes"/>
                <WriteProtectionLog Enable="yes"/>
            </SystemEventLog>
            <ListLog Enable="yes"/>
            <UsbMalwareProtectionLog Enable="yes"/>
            <ExecutionPreventionLog Enable="yes"/>
            <NetworkVirusProtectionLog Enable="yes"/>
            <IntegrityMonitoringLog>
                <FileCreatedLog Enable="yes"/>
                <FileModifiedLog Enable="yes"/>
                <FileDeletedLog Enable="yes"/>
```

```
                    <FileRenamedLog Enable="yes"/>
                    <RegValueModifiedLog Enable="yes"/>
                    <RegValueDeletedLog Enable="yes"/>
                    <RegKeyCreatedLog Enable="yes"/>
                    <RegKeyDeletedLog Enable="yes"/>
                    <RegKeyRenamedLog Enable="yes"/>
                </IntegrityMonitoringLog>
                <DeviceControlLog Enable="yes"/>
            </EventLog>
            <DebugLog Enable="yes"/>
        </Log>
    </Feature>
    <ManagedMode Enable="no">
        <Agent>
            <Port/>
            <FixedIp/>
        </Agent>
        <Server>
            <HostName/>
            <FastPort/>
        </Server>
        <Message InitialRetryInterval="120" MaxRetryInterval="7680">
        </Message>
        <MessageRandomization TotalGroupNum="1" OwnGroupIndex="0"
        <Proxy Mode="0">
            <HostName/>
            <Port/>
            <UserName/>
            <Password/>
        </Proxy>
        <GroupPolicy>
            <SyncInterval>20</SyncInterval>
        </GroupPolicy>
    </ManagedMode>
</Configuration>
<Permission>
    <AccountRef Id="{24335D7C-1204-43d1-9CBB-332D688C85B6}">
        <UIControl Id="DetailSetting" State="no"/>
        <UIControl Id="LockUnlock" State="yes"/>
        <UIControl Id="LaunchUpdater" State="yes"/>
        <UIControl Id="RecentHistoryUnapprovedFiles" State="yes"/>
        <UIControl Id="ImportExportList" State="yes"/>
```

```
            <UIControl Id="ListManagement" State="yes"/>
            <UIControl Id="SupportToolUninstall" State="no"/>
        </AccountRef>
    </Permission>
</Configurations>
```

Configuration File Parameters

The configuration file contains sections that specify parameters used by StellarEnforce.

Table 4-1. Configuration File Sections and Descriptions

Section		Description	Additional Information
Configuration		Container for the Configuration section	
	AccountGroup	Parameters to configure the Restricted User account	See *AccountGroup Section on page 4-10*. See *Account Types on page 2-18*.
	UI	Parameters to configure the display of the system tray icon	See *UI Section on page 4-10*.
	Feature	Container for the Feature section	

Section			Description	Additional Information
		ApplicationLockDown	Parameters to configure StellarEnforce features and functions	See *Feature Section on page 4-12*.
		UsbMalwareProtection		
		DllInjectionPrevention		
		ApiHookingPrevention		
		MemoryRandomization		
		NetworkVirusProtection		
		IntegrityMonitoring		
		StorageDeviceBlocking	A parameter to control storage device access to managed endpoints	
		Log	Parameters to configure individual log types	See *Log Section on page 4-25*. See *Agent Event Log Descriptions on page 7-4*.
	ManagedMode		Parameters to configure Centralized Management functions	See *ManagedMode Section on page 4-29*.
Permission			Container for the Permission section	
	AccountRef		Parameters to configure the StellarEnforce console controls available to the Restricted User account	See *AccountRef Section on page 4-33*. See *Account Types on page 2-18*.

AccountGroup Section

Parameters to configure the Restricted User account

See *Account Types on page 2-18*.

Table 4-2. Configuration File *AccountGroup* Section Parameters

Parameter			Setting	Value	Description
Configuration					Container for the Configuration section
	AccountGroup				Container for the AccountGroup section
		Account	*ID*	*<GUID>*	Restricted User account GUID
			Enable	*yes*	Enable the Restricted User account
				no	Disable the Restricted User account
			Password	*<admin_password>*	Password for the Restricted User account to access the StellarEnforce console **Note** The StellarEnforce administrator and Restricted User passwords cannot be the same.

UI Section

Parameters to configure the display of the system tray icon

Table 4-3. Configuration File *UI* Section Parameters

Parameter	Setting	Value	Description
Configuration			Container for the Configuration section

Parameter				Setting	Value	Description
	UI					Container for the UI section
		SystemTaskTrayIcon		Enable	yes	Display the system tray icon and Windows notifications
					no	Hide the system tray icon and Windows notifications
			BlockNotification	Enable	yes	Display a notification on the managed endpoint when a file not specified in the agent Approved List is blocked
					no	Do not display any notifications on the managed endpoint when files not specified in the agent Approved List are blocked
				Authenticate	yes	Prompt for the administrator password when the user attempts to close the notification
					no	Password is not required to close the notification
				ShowDetails	yes	Show file path of the blocked file and the event time
					no	Do not show event details
				AlwaysOnTop	yes	Keep the notification on top of any other screen
					no	Allow other screens to cover the notification
				Title	<Title>	Specify the title for the notification
				Message	<Message>	Specify the message for the notification

Feature Section

Parameters to configure StellarEnforce features and functions

See *About Feature Settings on page 2-19*.

Table 4-4. Configuration File *Feature* Section Parameters

Parameter	Setting	Value	Description
Configuration			Container for the Configuration section
Feature			Container for the Feature section
ApplicationLockDown	*LockDownMode*	*1*	Turn on Application Lockdown
		2	Turn off Application Lockdown
IntelligentRuntimeLearning		*Enable*	Enable using Intelligent Runtime Learning
		Disable	Disable using Intelligent Runtime Learning
TrustList	*RecentHistoryUnapprovedFilesLimit*	*0-65535*	Maximum number of entries in the Blocked Files log
ExclusionList			Container for the Exclusion for Approved List initialization section
	Folder	*<folder_path>*	Exclusion folder path
	Extension	*<file_extension>*	Exclusion file extension
ScriptLockDown	*Enable*	*yes*	Enable Script Lockdown

Parameter	Setting	Value	Description
		no	Disable Script Lockdown
Extension	ID	<file_extension>	File extension for Script Lockdown to block For example, specify a value of *MSI* to block *.msi* files
Interpreter		<file_name>	Interpreter for the specified file extension For example, specify ***msiexec.exe*** as the interpreter for *.msi* files
TrustedUpdater			Container for the TrustedUpdater section
PredefinedTrustedUpdater	Enable	yes	Enable Trusted Updater
		no	Disable Trusted Updater
RuleSet			Container for RuleSet conditions
Condition	ID	<unique_ruleset_name>	Unique name for the set of rules
ApprovedListCheck	Enable	yes	Enable hash checks for programs executed using the Trusted Updater
		no	Disable hash checks for programs executed using the Trusted Updater
ParentProcess	Path	<process_path>	Path of the parent process to add to the Trusted Updater List

Parameter								Setting	Value	Description
						Exception		Path	<process_path>	Path to exclude from the Trusted Updater List
						Rule		Label	<unique_rule_name>	Unique name for this rule
							Updater	Type	process	Use the specified *EXE* file
									file	Use the specified *MSI* or *BAT* file
									folder	Use the *EXE*, *MSI* or *BAT* files in the specified folder
									folder andsub	Use the *EXE*, *MSI* or *BAT* files in the specified folder and its subfolders
								Path	<updater_path>	Trusted Update path
								ConditionRef	<condition_ID>	Condition ID to provide a more detailed rule for the Trusted Updater
					WindowsUpdateSupport			Enable	yes	Allow Windows Update to run on the managed endpoint when it is locked down
									no	Block Windows Update on the managed endpoint when it is locked down
				DLLDriverLockdown				Enable	yes	Enable DLL/Driver Lockdown

Parameter	Setting	Value	Description
		no	Disable DLL/Driver Lockdown
ExceptionPath	Enable	yes	Enable exception paths
		no	Disable exception paths
ExceptionPathList			Container for the Exception List
ExceptionPath	Path	<exception_path>	Exception path
	Type	file	Use only the specified file
		folder	Use the files in the specified folder
		folderandsub	Use the files in the specified folder and its subfolders
		regexp	Use an exception using the regular expression
TrustedCertification	Enable	yes	Enable using Trusted Certifications
		no	Disable using Trusted Certifications
PredefinedTrustedCertification	Type	updater	File signed by this certificate is treated as a Trusted Update
		lockdown	File signed by this certificate is not treated as a Trusted Update

Parameter				Setting	Value	Description
				Hash	<SHA-1_hash_value>	SHA1-hash value of this certificate
				Label	<label>	Description of this certificate
				Subject	<subject>	Subject of this certificate
				Issuer	<issuer>	Issuer of this certificate
			TrustedHash	Enable	yes	Enable using the Trusted Hash List
					no	Disable using the Trusted Hash List
			PredefinedTrustedHash	Type	updater	File matched by this hash value is treated as a Trusted Update
					lockdown	File matched by this hash value is not treated as a Trusted Update
				Hash	<SHA-1_hash_value>	SHA-1 hash value of this file
				Label	<label>	Description of this file
				AddToApprovedList	yes	Add the file matched by this hash value to the Approved List when it is accessed for the first time
					no	Do not add the file matched by this hash

Parameter			Setting	Value	Description
					value to the Approved List
			Path	<file_path>	File path
			Note	<note>	Add a note for the file matched by this hash value
		WriteProtection	Enable	yes	Enable Write Protection
				no	Disable Write Protection
			ActionMode	0	Allow actions such as edit, rename, and delete
				1	Block actions such as edit, rename, and delete
			ProtectApprovedList	yes	Enable protection of the Approved List (in addition to the Write Protection List) when Write Protection is enabled
				no	Disable protection of the Approved List (in addition to the Write Protection List) when Write Protection is enabled
		List			Container for the Write Protection List
		File	Path	<file_path>	File path
		Folder	Path	<folder_path>	Folder path

Parameter						Setting	Value	Description
						IncludeSubfolder	*yes*	Use the files in the specified folder and its subfolders
							no	Use the files in the specified folder
					RegistryKey	*Key*	*<reg_key>*	Registry key <reg_key> can be abbreviated or expanded as shown below: • HKEY_LOCAL_MACHINE\test HKLM\test • HKEY_CURRENT_CONFIG\test HKCC\test • HKEY_CLASSES_ROOT\test HKCR\test • HKEY_CURRENT_USER\test HKCU\test • HKEY_USERS\test HKU\test
						IncludeSubkey	*yes*	Include any subkeys
							no	Do not include any subkeys
					RegistryValue	*Key*	*<reg_key>*	Registry key <reg_key> can be abbreviated or expanded as shown below:

Parameter			Setting	Value	Description
					• HKEY_LOCAL_MACHINE\test HKLM\test • HKEY_CURRENT_CONFIG\test HKCC\test • HKEY_CLASSES_ROOT\test HKCR\test • HKEY_CURRENT_USER\test HKCU\test • HKEY_USERS\test HKU\test
			Name	*<reg_value_name>*	Registry value name
		ExceptionList			Container for the Write Protection Exception List
			Process	*Path*	*<process_path>*	Path of the process
			File	*Path*	*<file_path>*	File path
			Folder	*Path*	*<folder_path>*	Folder path
				IncludeSubfolder	*yes*	Use the files in the specified folder and its subfolders

Parameter			Setting	Value	Description
				no	Use the files in the specified folder
		RegistryKey	*Key*	*<reg_key>*	Registry key <reg_key> can be abbreviated or expanded as shown below: • HKEY_LOCAL_MACHINE\test HKLM\test • HKEY_CURRENT_CONFIG\test HKCC\test • HKEY_CLASSES_ROOT\test HKCR\test • HKEY_CURRENT_USER\test HKCU\test • HKEY_USERS\test HKU\test
			IncludeSubkey	*yes*	Include any subkeys
				no	Do not include any subkeys
		RegistryValue	*Key*	*<reg_key>*	Registry key <reg_key> can be abbreviated or expanded as shown below: • HKEY_LOCAL_MACHINE\test HKLM\test

Parameter	Setting	Value	Description
			• HKEY_CURRENT_CONFIG\test HKCC\test • HKEY_CLASSES_ROOT\test HKCR\test • HKEY_CURRENT_USER\test HKCU\test • HKEY_USERS\test HKU\test
	Name	*<reg_value_name>*	Registry value name
CustomAction	*ActionMode*	*0*	Ignore blocked files or processes when Application Lockdown blocks any of the following events: • Process launch • DLL loading • Script file access
		1	Quarantine blocked files or processes when Application Lockdown blocks any of the following events: • Process launch • DLL loading • Script file access

Parameter	Setting	Value	Description
		2	Ask what to do for blocked files or processes when Application Lockdown blocks any of the following events: • Process launch • DLL loading • Script file access
UsbMalwareProtection	Enable	yes	Enable USB Malware Protection
		no	Disable USB Malware Protection
	ActionMode	0	Allow action by detected malware
		1	Block action by detected malware
DllInjectionPrevention	Enable	yes	Enable DLL Injection Prevention
		no	Disable DLL Injection Prevention
	ActionMode	0	Allows DLL injections
		1	Blocks DLL injections
ApiHookingPrevention	Enable	yes	Enable API Hooking Prevention
		no	Disable API Hooking Prevention
	ActionMode	0	Allow API hooking
		1	Block API hooking

Parameter	Setting	Value	Description
MemoryRandomization	Enable	yes	Enable Memory Randomization
		no	Disable Memory Randomization
NetworkVirusProtection	Enable	yes	Enable Network Virus Protection
		no	Disable Network Virus Protection
	ActionMode	0	Allow action by detected network viruses
		1	Block action by detected network viruses
IntegrityMonitoring	Enable	yes	Enable Integrity Monitoring
		no	Disable Integrity Monitoring
StorageDeviceBlocking	Enable	yes	Blocks access of storage devices (CD/DVD drives, floppy disks, and USB devices) to managed endpoints
	Disable	no	Allows access of storage devices (CD/DVD drives, floppy disks, and USB devices) to managed endpoints
	ActionMode	0	Allow actions such as edit, rename, and delete
		1	Block actions such as edit, rename, and delete
	AllowNonMassStorageUSBDevic	yes	Allows some drivers (e.g. Touch screen/ Infrared

			e	sensor/Android mobile phone) from being loaded when those hardware devices are plugged in and storage device blocking is enable.
			no	Blocked some drivers (e.g. Touch screen/ Infrared sensor/Android mobile phone) from being loaded when those hardware devices are plugged in and storage device blocking is enable.

Parameter			Setting	Value	Description
	DeviceException				Container for the Storage Device Blocking device exception list
		DeviceGroup			Container for the Storage Device Blocking device list
			name		Unique name of the device list
		Device	vid		Device vendor ID
			pid		Device product ID
			sn		Device serial number
	Log				Container for configuring logs See *Log Section on page 4-25*.
FilelessAttackPrevention			Enable	yes	Enable Fileless Attack Prevention
				no	Disable Fileless Attack Prevention
	ExceptionList				Container for the Fileless Attack Prevention Exception List
		Exception	Target	<monitored process>	Specify *powershell.exe*, *wscript.exe*, *CScript.exe*, or *mshta.exe*
			Label	<label>	Unique name of this exception

Arguments		*<arguments>*	Arguments to be approved

Parameter	Setting	Value	Description
	Regex	yes	Specify yes if argument includes a regular exception
		no	Specify no if argument does not include a regular exception
Parent1		<parent process>	Parent process of the monitored process
Parent2		<grand parent process>	Grandparent process of the monitored process
Parent3		<great grandparent process>	Great grandparent process of the monitored process
Parent4		<great great grandparent process>	Great great grandparent process of the monitored process

Log Section

Parameters to configure individual log typesSee *Agent Event Log Descriptions on page 7-4*.

Table 4-5. Configuration File *Log* Section Parameters

Parameter	Setting	Value	Description
Configuration			Container for the Configuration section
Feature			Container for the Feature section
Log			Container for configuring logs
EventLog	*Enable*	*yes*	Log the StellarEnforce events specified in the following elements
		no	Do not log the StellarEnforce events specified in the following elements
Level			Container for configuring log levels
WarningLog	*Enable*	*yes*	Log "Warning" level events related to StellarEnforce
		no	Do not log "Warning" level events related to StellarEnforce
InformationLog	*Enable*	*yes*	Log "Information" level events related to StellarEnforce
		no	Do not log "Information" level events related to StellarEnforce
BlockedAccessLog	*Enable*	*yes*	Log files blocked by StellarEnforce
		no	Do not log files blocked by StellarEnforce
ApprovedAccessLog	*Enable*	*yes*	Log files approved by StellarEnforce
		no	Do not log files approved by StellarEnforce

Parameter	Setting	Value	Description
TrustedUpdaterLog	Enable	yes	Log Trusted Updater approved access
		no	Do not log Trusted Updater approved access
DLLDriverLog	Enable	yes	Log DLL/Driver approved access
		no	Do not log DLL/Driver approved access
ExceptionPathLog	Enable	yes	Log Application Lockdown exception path approved access
		no	Do not log Application Lockdown exception path approved access
TrustedCertLog	Enable	yes	Log Trusted Certifications approved access
		no	Do not log Trusted Certifications approved access
WriteProtectionLog	Enable	yes	Log Write Protection approved access
		no	Do not log Write Protection approved access
SystemEventLog	Enable	yes	Log events related to the system
		no	Do not log events related to the system
ExceptionPathLog	Enable	yes	Log exceptions to Application Lockdown
		no	Do not log exceptions to Application Lockdown
WriteProtectionLog	Enable	yes	Log Write Protection events
		no	Do not log Write Protection events

Parameter	Setting	Value	Description
ListLog	Enable	yes	Log events related to the Approved list
		no	Do not log events related to the Approved list
USBMalwareProtectionLog	Enable	yes	Log events that trigger USB Malware Protection
		no	Do not log events that trigger USB Malware Protection
ExecutionPreventionLog	Enable	yes	Log events that trigger Execution Prevention
		no	Do not log events that trigger Execution Prevention
NetworkVirusProtectionLog	Enable	yes	Log events that trigger Network Virus Protection
		no	Do not log events that trigger Network Virus Protection
IntegrityMonitoringLog			Container for configuring Integrity Monitoring logs
FileCreatedLog	Enable	yes	Log file and folder created events
		no	Do not log file and folder created events
FileModifiedLog	Enable	yes	Log file modified events
		no	Do not log file modified events
FileDeletedLog	Enable	yes	Log file and folder deleted events
		no	Do not log file and folder deleted events
FileRenamedLog	Enable	yes	Log file and folder renamed events

Parameter	Setting	Value	Description
		no	Do not log file and folder renamed events
RegValueModifiedLog	Enable	yes	Log registry value modified events
		no	Do not log registry value modified events
RegValueDeletedLog	Enable	yes	Log registry value deleted events
		no	Do not log registry value deleted events
RegKeyCreatedLog	Enable	yes	Log registry key created events
		no	Do not log registry key created events
RegKeyDeletedLog	Enable	yes	Log registry key deleted events
		no	Do not log registry key deleted events
RegKeyRenamedLog	Enable	yes	Log registry key renamed events
		no	Do not log registry key renamed events
DeviceControlLog	Enable	yes	Log storage device control events.
		no	Do not log storage device control events.
DebugLog	Enable	yes	Log debugging information
		no	Do not log debugging information

ManagedMode Section

Parameters to configure Centralized Management functions

Table 4-6. Configuration File *ManagedMode* Section Parameters

Parameter	Setting	Value	Description
Configuration			Container for the Configuration section
GroupPolicy			Container for configuring group policy to StellarOne
SyncInterval		*0 ~ 2147483647* Unit: Minutes	Agent information will be updated periodically according to this sync period
Agent			Container for configuring StellarEnforce agents
Port		<server_messages_port>	Specify the secure port for server communications (formerly the agent listening port)
FixedIp		• A.B.C.D/E • A,B,C,D: 0~255 • E: 1~32	Specify the agent IP address (in Classless inter-domain routing (CIDR) format) to communicate with the StellarEnforce server
Server			Container for configuring StellarOne
HostName		<hostname>	Specify the host name of the StellarOne

Parameter	Setting	Value	Description
FastPort		<logs_port>	Specify secure port for collecting logs and status (formerly Fast Lane)
Message			Container for configuring automated messages to StellarOne
InitialRetryInterval		0 ~ 2147483647 Unit: Seconds	Starting interval, in seconds, between attempts to resend an event to StellarOne This interval doubles in size for each unsuccessful attempt, until it exceeds the MaxRetryInterval value
MaxRetryInterval		0 ~ 2147483647 Unit: Seconds	Maximum interval between attempts to resend events to StellarOne
RegularStatusUpdate		• 0 • 1	0: Agent information will not be updated periodically during this sync period 1: Agent information will be updated periodically during this sync period
MessageRandomization			

Parameter	Setting	Value	Description
			Note StellarEnforce agents respond as soon as possible to direct requests from StellarEnforce Central Console. For details, refer to Applying Message Time Groups in the StellarEnforce Administrator's Guide.
	TotalGroupNum	Positive Integer (>= *1*)	Specify the total number of message time groups
	OwnGroupIndex	Zero or Positive Integer, < *TotalGroupNum*	Specify the message time group ID number of this StellarEnforce agent
	TimePeriod	Zero or Positive Integer	Specify the duration of time in whole seconds that this message time group ID number will send automated messages to StellarOne when this group's message-sending cycle is active **Note** Message time groups do not become active if their duration is set to zero (0).
Proxy	*Mode*	*0*	Do not use a proxy (direct access)
		1	Use a proxy (manual setting)

Parameter				Setting	Value	Description
					2	Synchronize proxy settings with Internet Explorer
			HostName		<proxy_hostname>	Specify the proxy host name
			Port		<proxy_port>	Specify the proxy port number
			UserName		<proxy_user_name>	Specify the proxy user name
			Password		<proxy_password>	Specify the proxy password

AccountRef Section

Parameters to configure the StellarEnforce console controls available to the Restricted User account

See *Account Types on page 2-18*.

Table 4-7. Configuration File *AccountRef* Section Parameters

Parameter				Setting	Value	Description
Configuration						Container for the Configuration section
	Permission					Container for the Permission section
		AccountRef				Container for the AccountRef section
			UIControl	ID	DetailSetting	Access the features and functions on the StellarEnforce console **Settings** page

Parameter	Setting	Value	Description
			Note The **Password** page is not available to the Restricted User account.
		LockUnlock	Access the Application Lockdown setting on the **Overview** screen
		LaunchUpdater	Access the **Automatically add files created or modified by the selected application installer** option when a Restricted User clicks **Add Item** on the **Approved List** screen
		RecentHistoryUnapprovedFlles	Access the Block logs if a Restricted User clicks **Last application blocked** on the **Overview** screen
		ImportExportList	Access the **Import List** and **Export List** buttons
		ListManagement	Access the following items on the **Approved List** screen: • The **Delete Item** button • The **Update Hash** button • The **Add Item** > **Add Files/ Folders** menu
	State	*yes*	Enable the permission specified by *ID*
		no	Disable the permission specified by *ID*

Chapter 5

Troubleshooting

This chapter describes troubleshooting techniques and frequently asked questions about TXOne Networks StellarEnforce.

Topics in this chapter include:

Frequently Asked Questions (FAQ)

What if the endpoint becomes infected by a threat?

Do one of the following to remove the threat on the endpoint:

- Start a manual scan on the endpoint.

  For more information, see *Manual Scan Commands on page 3-73*.

- Access the TXOne StellarEnforce Central Console console and send a scan command to start malware scanning on the endpoint.

Where can I get more help with TXOne Networks StellarEnforce?

Get the most up-to-date information and support from the TXOne Networks support website at:

http://esupport.trendmicro.com/en-us/business/

Troubleshooting StellarEnforce

The TXOne StellarEnforce Diagnostic Toolkit offers administrators the ability to perform a number of diagnostic functions, including:

- Create, collect, and delete debugging logs
- Enable or disable Self Protection

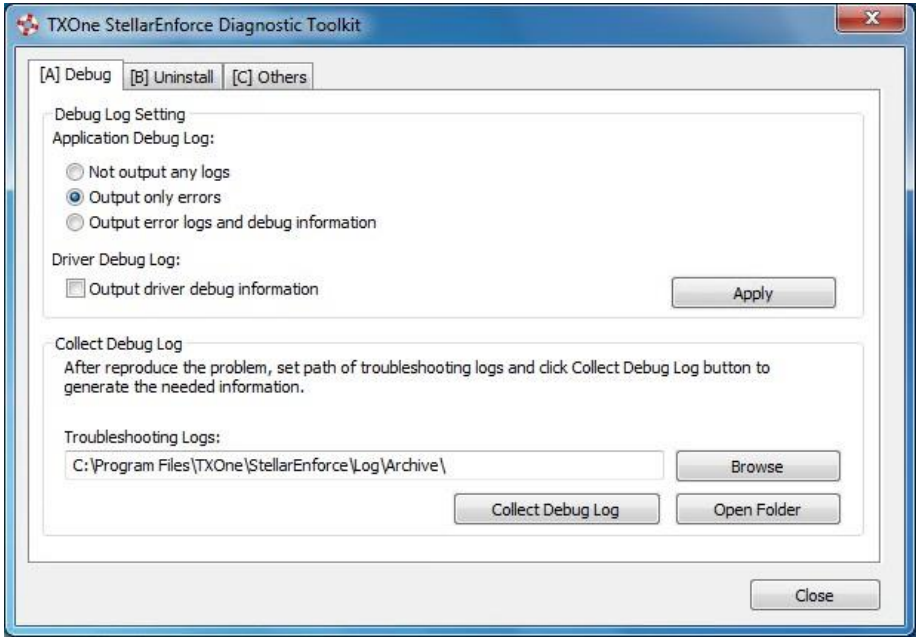


Figure 5-1. The TXOne StellarEnforce Diagnostic Toolkit Debug Tab

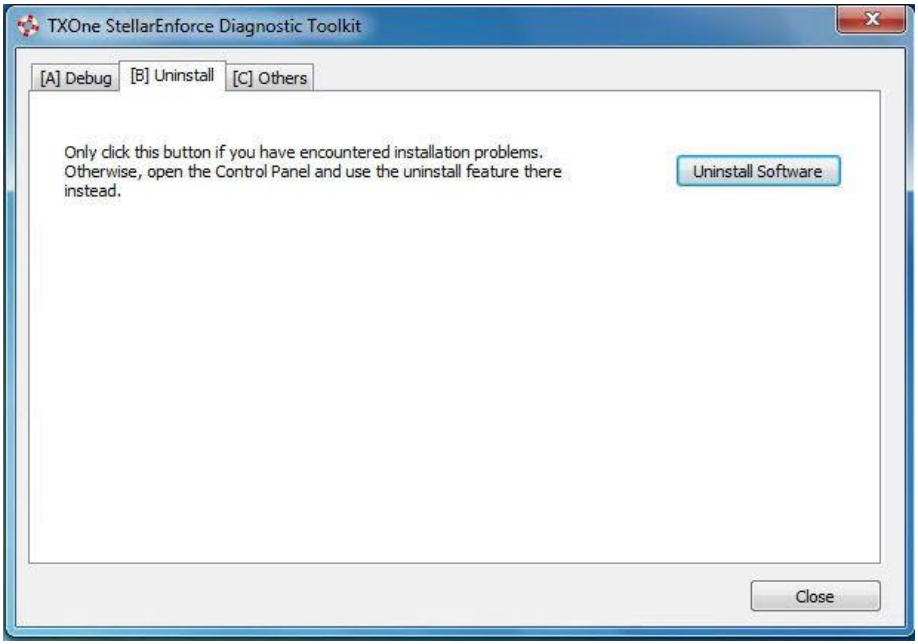


Figure 5-2. The TXOne StellarEnforce Diagnostic Uninstall Tab

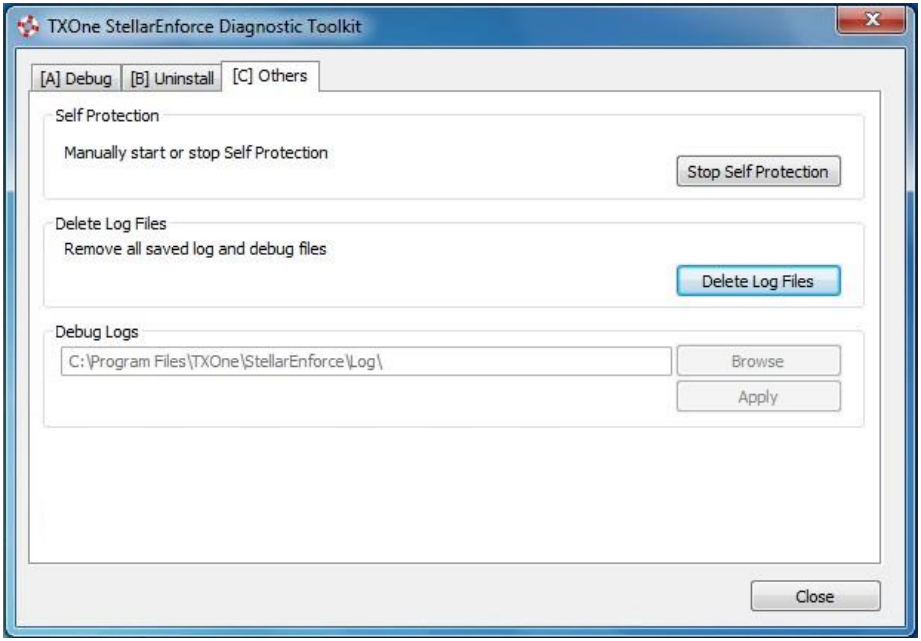


Figure 5-3. The TXOne StellarEnforce Diagnostic Toolkit Others Tab

Using the Diagnostic Toolkit

If TXOne StellarEnforce experiences problems, generate a complete set of application and driver diagnostic logs for analysis, or send them to to TXOneNetworks Technical Support. Both the TXOne Networks administrator and Restricted User accounts can collect the logs.

Procedure

1. Open the Diagnostic Toolkit and enable full logging:

   a. Open the TXOne StellarEnforce installation folder and run WKSupportTool.exe.

Note

The default installation location is *c:\Program Files\TXOne \StellarEnforce*.

b. Provide the TXOne Networks administrator or Restricted User password and click **OK**.

c. On the **[A] Debug** tab, select **Output error logs and debug information** and **Output driver debug information**, and click **Apply**.

2. Reproduce the problem.

3. Collect the diagnostic logs:

a. Reopen the Diagnostic Toolkit.

b. On the **[A] Debug** tab, click **Browse** to choose the location where TXOne StellarEnforce saves the logs.

Note

The default location for saved logs is: *c:\Program Files\TXOne \StellarEnforce\Log\Archive*.

c. Click **OK** when finished.

d. Click **Collect Debug Log**.

e. Once the Debug Logs have been collected, click **Open Folder** to access the zipped log files for review, or to send them to TXOne Networks Technical Support.

Diagnostic Toolkit Commands

The following table lists the commands available using the Diagnostic

Toolkit, *WKSupportTool.exe*.

Note

Only the StellarEnforce administrator can use the Diagnostic Toolkit, and *WKSupportTool.exe* will prompt for the administrator password before running a command.

Table 5-1. Diagnostic Toolkit Commands

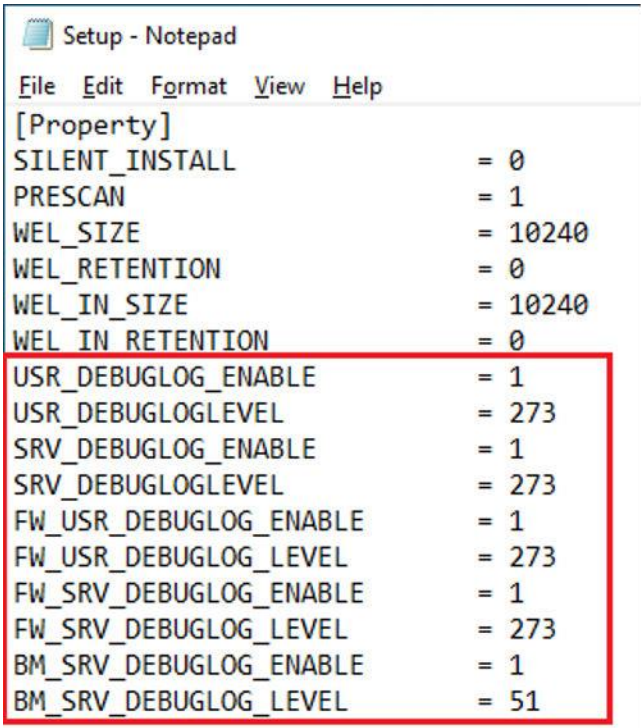
Command	Description
-p <password>	Authenticates the user, allowing the command to run.
debug [on/off] [verbose/ normal] [-drv on] [-drv off]	Turns the debug logs on or off, specifies the log detail level, and if driver logs are included.
collect [path]	Collects debugging information and creates a zip file to the specified path. If no path is specified, the default log location *<installation directory>\Log\Archive* is used.
selfprotection [on/off]	Turns on or off StellarEnforce self protection.
deletelogs	Deletes all StellarEnforce logs.
uninstall	Uninstalls TXOne Networks StellarEnforce.
changelogpath [path]	Change debug log output folder.
EncryptSetupIni Setup.iniSetup.bin	Encrypt the Setup.ini file.

Collecting StellarEnforce Debug Logs

Collecting Debug Logs for a Failed Installation

Procedure

1. Adjust *setup.ini* as shown below.

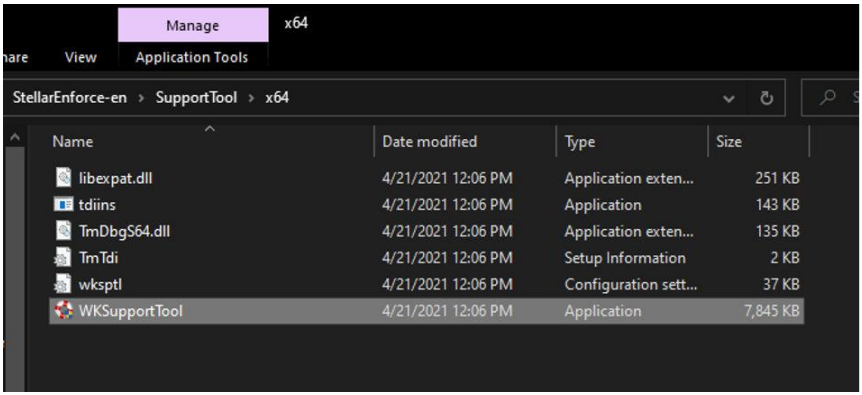


2. Trigger the installer, *SL_Install.exe*, and reproduce the issue.

3. Execute *WKSupportTool* in the installer package.

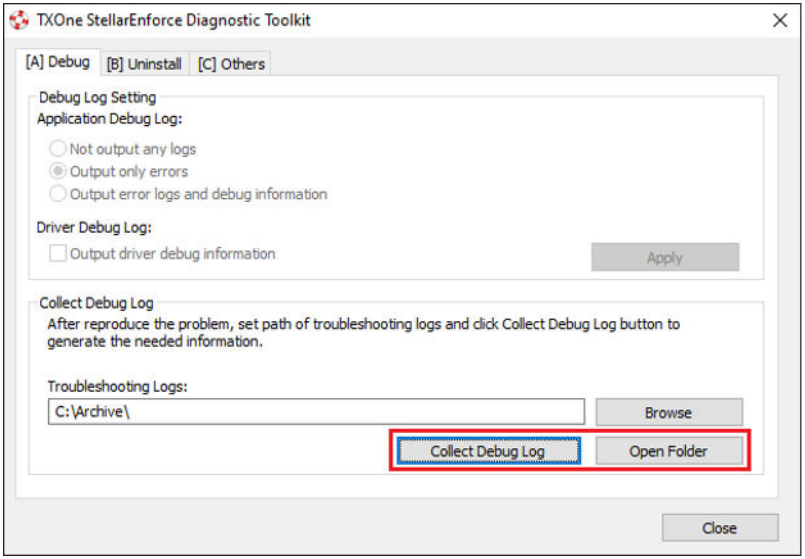
Note

- For the x86 platform, please use the tool found at *install_package \Supporttool\x86*.
- For the x64 platform please use the tool found at *install_package \Supporttool\x64*



4. Click **Collect Debug Log**.

5. Click **Open Folder** to get the archived zip file.

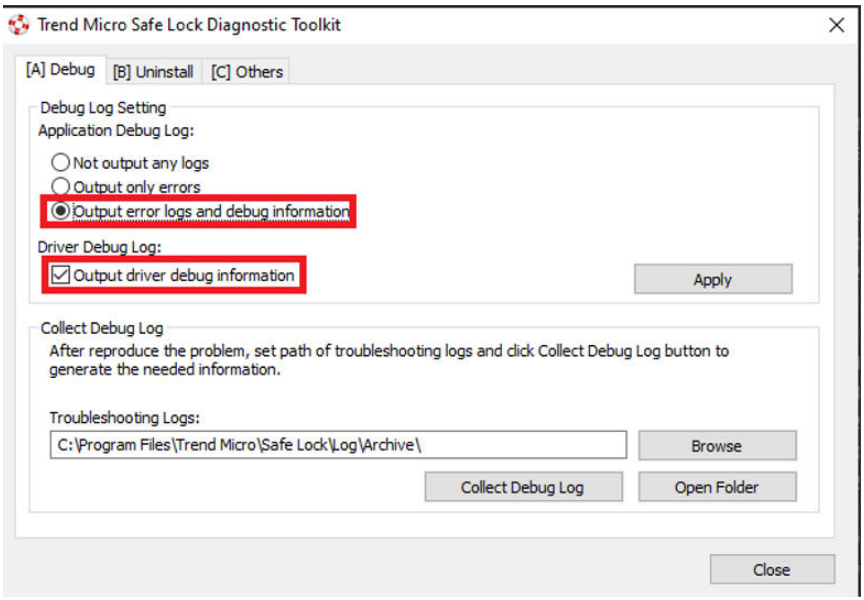


Collecting Debug Logs After Installation

If you find abnormal behavior or issues after installing StellarEnforce, please collect logs from both StellarEnforce and Microsoft Windows Process Monitor logs by using the following procedure.

Procedure

1. Enable debug information with *WKSupportTool*.

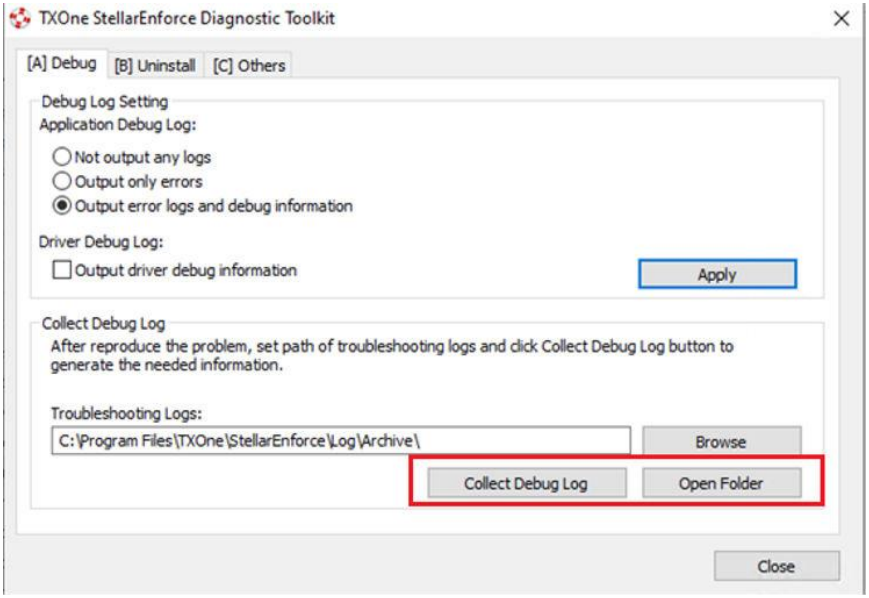


2. Start Process Monitor monitoring your system.
3. Reproduce the issue.
4. Save the Process Monitor log (PML).

Important

We need all events without filtering. Filtering can be added when using the PML for viewing – please make sure not to do this prior to sending the log to us.

5. Collect logs with *WKSupportTool* by clicking **Collect Debug Log**.
6. Click **Open Folder** to get the archived zip file.
7. Please provide both log files to us for analysis, including the time in the log at which the issue occurs and the name of the relevant application.



Collecting Debug Logs for a Performance Issue

When experiencing a performance issue, please provide the following logs:

1. StellarEnforce performance report

2. Windows Performance Recorder
3. Trend Micro Performance Tuning Tool (from Trend Micro AEGIS)

Generating a Performance Report with StellarEnforce

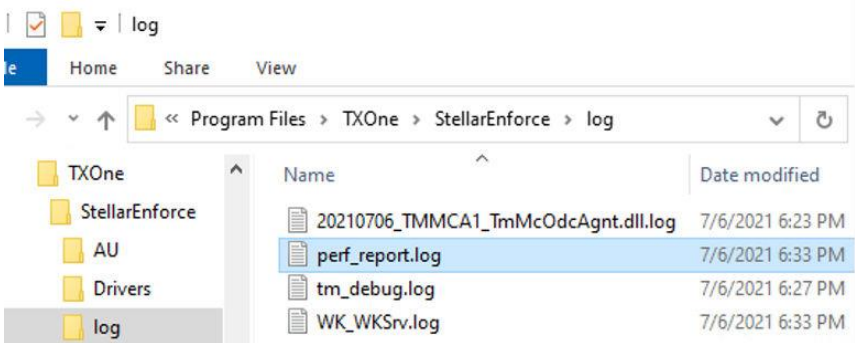
Procedure

1. Stop StellarEnforce service. (*Slcmd.exe stop service*)
2. Create a registry value as follows:

```
HKEY_LOCAL_MACHINE\SOFTWARE\TrendMicro\SafeLock\2\DebugLog

"EnableProfiling"=dword:00000001
```

3. Start StellarEnforce service. (*Slcmd.exe start service*)
4. Perform some tasks related to the issue.
5. Stop StellarEnforce service. (*Slcmd.exe stop service*)
6. Find the file *perf_report.log* at *<wk_installed_folder>\log*.



Note

You don't need to enable debug logging to generate this report. In fact, it's suggested to disable debug logging while measuring performance.

Setting Up Windows Performance Recorder and Generating a Log

- Microsoft provides a tool called Windows Performance Recorder (WPR) for recording all the activities on Windows.
- It is a part of Windows Performance Toolkit, which is included in the Windows Assessment and Deployment Kit.
- If you are running a 64-bit OS, add the following registry setting and then reboot:

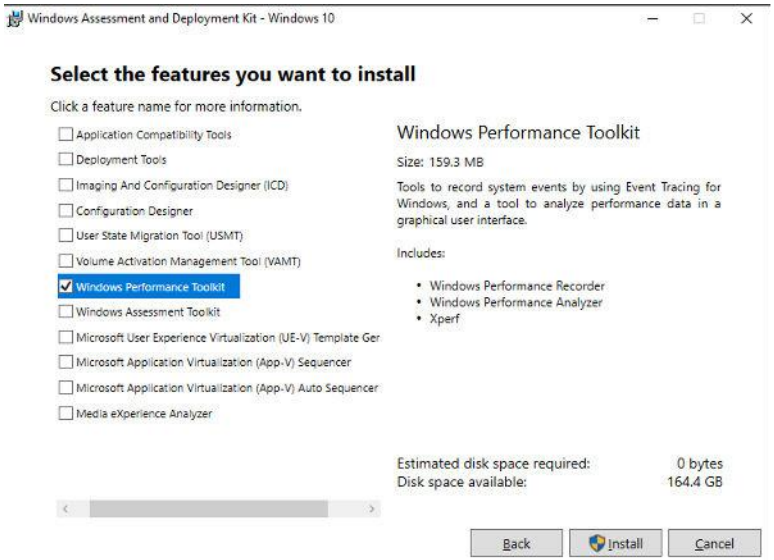
```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\M

"DisablePagingExecutive"=DWORD:1
```

Setting Up Windows Performance Recorder: Windows 8 and Later

Procedure

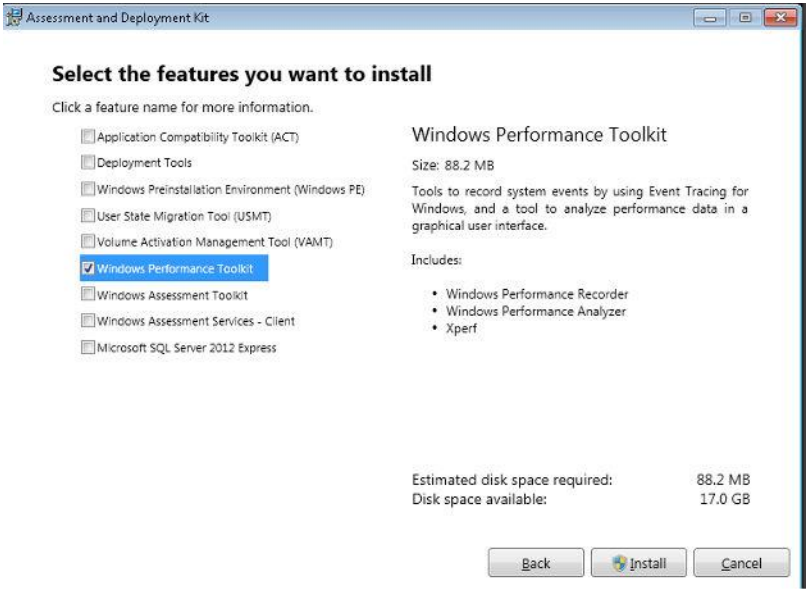
1. Download Windows ADK for Windows 10.
2. Select only **Windows Performance Toolkit** during the installation process.



Setting Up Windows Performance Recorder: Windows 7 and 2008 R2

Procedure

1. Download Windows ADK for Windows 8.
2. Select only **Windows Performance Toolkit** during the installation process.



Setting Up Windows Performance Recorder: Windows Vista, Windows 2008, Windows 2003 SP1, and Windows XP SP2

Procedure

1. 1. Use Windows Performance Toolkit 4.x – please refer to usage guidelines for Windows Performance Toolkit 4.x.

Generating Logs with Windows Performance Recorder

Procedure

1. Launch **Windows Performance Recorder** from the Start menu.
2. Under **More options**, select the following items:

- CPU usage
- Disk I/O activity
- File I/O activity
- Registry I/O activity
- Networking I/O activity
- Heap usage
- Pool usage

3. Change the **Logging mode** to **File**.
4. Click **Start**.
5. Execute the application(s) or task(s) that are related to the issue being reproduced.
6. After the issue has been reproduced, click **Save**.
7. Click **Browse**, specify the desired location for saved logs, then click **Save**.
8. Click **Open Folder** to get your ETL file, then compress it and send it to us.

Chapter 6

Technical Support

TXOne Networks is a joint venture of Trend Micro and Moxa, and support for TXOne Networks products is provided by Trend Micro. All technical support goes through Trend Micro engineers.

Learn about the following topics:

Troubleshooting Resources

Before contacting technical support, consider visiting the following Trend Micro online resources.

Using the Support Portal

The Trend Micro Support Portal is a 24x7 online resource that contains the most up-to-date information about both common and unusual problems.

Procedure

1. Go to https://success.trendmicro.com.
2. Select from the available products or click the appropriate button to search for solutions.
3. Use the **Search Support** box to search for available solutions.
4. If no solution is found, click **Contact Support** and select the type of support needed.

   Tip

   To submit a support case online, visit the following URL:

   https://success.trendmicro.com/sign-in

   A Trend Micro support engineer investigates the case and responds in 24 hours or less.

Threat Encyclopedia

Most malware today consists of blended threats, which combine two or more technologies, to bypass computer security protocols. Trend Micro combats this complex malware with products that create a custom defense strategy.

The Threat Encyclopedia provides a comprehensive list of names and symptoms for various blended threats, including known malware, spam, malicious URLs, and known vulnerabilities.

Go to https://www.trendmicro.com/vinfo/us/threat-encyclopedia/#malware to learn more about:

- Malware and malicious mobile code currently active or "in the wild"
- Correlated threat information pages to form a complete web attack story
- Internet threat advisories about targeted attacks and security threats
- Web attack and online trend information
- Weekly malware reports

Contacting Trend Micro

In the United States, Trend Micro representatives are available by phone or email:

Address	Trend Micro, Incorporated 225 E. John Carpenter Freeway, Suite 1500 Irving, Texas 75062 U.S.A.
Phone	Phone: +1 (817) 569-8900 Toll-free: (888) 762-8736
Website	https://www.trendmicro.com
Email address	support@trendmicro.com

- Worldwide support offices:

  https://www.trendmicro.com/us/about-us/contact/index.html

- Trend Micro product documentation:

https://docs.trendmicro.com

Speeding Up the Support Call

To improve problem resolution, have the following information available:

- Steps to reproduce the problem
- Appliance or network information
- Computer brand, model, and any additional connected hardware or devices
- Amount of memory and free hard disk space
- Operating system and service pack version
- Version of the installed agent
- Serial number or Activation Code
- Detailed description of install environment
- Exact text of any error message received

Sending Suspicious Content to Trend Micro

Several options are available for sending suspicious content to Trend Micro for further analysis.

Email Reputation Services

Query the reputation of a specific IP address and nominate a message transfer agent for inclusion in the global approved list:

https://www.ers.trendmicro.com/

Refer to the following Knowledge Base entry to send message samples to Trend Micro:

https://success.trendmicro.com/solution/1112106

File Reputation Services

Gather system information and submit suspicious file content to Trend Micro:

https://success.trendmicro.com/solution/1059565

Record the case number for tracking purposes.

Web Reputation Services

Query the safety rating and content type of a URL suspected of being a phishing site, or other so-called "disease vector" (the intentional source of Internet threats such as spyware and malware):

https://global.sitesafety.trendmicro.com/

If the assigned rating is incorrect, send a re-classification request to Trend Micro.

Other Resources

In addition to solutions and support, there are many other helpful resources available online to stay up to date, learn about innovations, and be aware of the latest security trends.

Download Center

From time to time, Trend Micro may release a patch for a reported known issue or an upgrade that applies to a specific product or service. To find out whether any patches are available, go to:

https://www.trendmicro.com/download/

If a patch has not been applied (patches are dated), open the Readme file to determine whether it is relevant to your environment. The Readme file also contains installation instructions.

Documentation Feedback

Trend Micro always seeks to improve its documentation. If you have questions, comments, or suggestions about this or any Trend Micro document, please go to the following site:

https://docs.trendmicro.com/en-us/survey.aspx

Chapter 7

Appendix: Reference

This Installation Guide introduces TXOne Networks StellarEnforce and guides administrators through installation and deployment.

Topics in this chapter include:

Enabling Local Administrator Accounts

Windows NT Version 6.x (Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows Server 2008 and Windows Server 2012) and Windows NT 10.x (Windows 10 and Windows Server 2016) require special steps to allow you to use local Windows administrator accounts.

Procedure

1. Open **Computer Management**.
   a. Open the **Start** menu.
   b. Right-click **Computer**.
   c. Go to **Manage**.

      The **Computer Management** window appears.
2. In the list on the left, go to **Computer Management** > **System Tools** > **Local Users and Groups** > **Users**.

   The list of local Windows user accounts displays.
3. In the list of user accounts, right-click **Administrator**, then go to **Properties**.

   The **Administrator Properties** window appears.
4. In the **General** tab, clear **Account is disabled**.
5. Click **OK**.

   The **Computer Management** window reappears, displaying the list of local Windows user accounts.
6. Right-click **Administrator**, then go to **Set Password...**.

   A message displays instructions for setting the password.
7. Set the password.

8. Exit Computer Management.

Enabling Local Accounts for Default Shares

Windows NT Version 6.x, Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2008, and Windows Server 2012 require special steps to allow local Windows administrator accounts to access defaultshares, for example the default share *admin$*.

Tip

Steps vary depending on your Windows version. For specific instructions and help for your Windows version, refer to the Microsoft Knowledgebase at http://msdn.microsoft.com.

Procedure

1. Open **Registry Editor** (*regedit.exe*).
   a. Go to **Start** > **Run**
   b. Type ***regedit***, then press ENTER.
2. Locate and click the following registry subkey:

   HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System
3. Locate the *LocalAccountTokenFilterPolicy* registry entry.If the registry entry does not exist, follow these steps:
   a. Go to **Edit** > **New**.
   b. Select *DWORD Value*.

c. Type *LocalAccountTokenFilterPolicy*, then press ENTER.

4. Right-click LocalAccountTokenFilterPolicy, then go to Modify.
5. In the Valuefield, type 1.
6. Click **OK**.
7. Exit **Registry Editor**.

Getting Device Information

You can use one of the following methods to get the information of a connected device to a endpoint:

- Open the Device Manager on the agent endpoint
- Use the *SLCmd.exe show USBinfo* command on the agent endpoint For more information, see *Trusted USB Device Commands on page 3-54*.
- Go to the **Agent Events** screen for agent events on the SE web consolde and click **View Event Details** for removable devices with event ID 5001

Agent Event Log Descriptions

TXOne Networks StellarEnforce leverages the Windows™ Event Viewer to display the StellarEnforce event log. Access the Event Viewer at **Start** > **Control Panel** > **Administrative Tools**.

Tip

StellarEnforce event logging can be customized by doing the following:

- Before installation, modify the Setup.ini file. See *Setup.ini File Arguments* >

EventLog Section in the StellarEnforce Installation Guide.

- After installation, modify the configuration file. See *Configuration File Parameters* > *Log Section on page 4-25*.

Table 7-1. Windows Event Log Descriptions

Event ID	Task Category	Level	Log Description
1000	System	Information	Service started.
1001	System	Warning	Service stopped.
1002	System	Information	Application Lockdown Turned On.
1003	System	Warning	Application Lockdown Turned Off.
1004	System	Information	Disabled.
1005	System	Information	Administrator password changed.
1006	System	Information	Restricted User password changed.
1007	System	Information	Restricted User account enabled.
1008	System	Information	Restricted User account disabled.
1009	System	Information	Product activated.
1010	System	Information	Product deactivated.
1011	System	Warning	License Expired. Grace period enabled.
1012	System	Warning	License Expired. Grace period ended.
1013	System	Information	Product configuration import started: %path %
1014	System	Information	Product configuration import complete: %path%
1015	System	Information	Product configuration exported to: %path%
1016	System	Information	USB Malware Protection set to Allow.
1017	System	Information	USB Malware Protection set to Block.
1018	System	Information	USB Malware Protection enabled.
1019	System	Warning	USB Malware Protection disabled.

Event ID	Task Category	Level	Log Description
1020	System	Information	Network Virus Protection set to Allow.
1021	System	Information	Network Virus Protection set to Block.
1022	System	Information	Network Virus Protection enabled.
1023	System	Warning	Network Virus Protection disabled.
1025	System	Information	Memory Randomization enabled.
1026	System	Warning	Memory Randomization disabled.
1027	System	Information	API Hooking Prevention set to Allow.
1028	System	Information	API Hooking Prevention set to Block.
1029	System	Information	API Hooking Prevention enabled.
1030	System	Warning	API Hooking Prevention disabled.
1031	System	Information	DLL Injection Prevention set to Allow.
1032	System	Information	DLL Injection Prevention set to Block.
1033	System	Information	DLL Injection Prevention enabled.
1034	System	Warning	DLL Injection Prevention disabled.
1035	System	Information	Pre-defined Trusted Update enabled.
1036	System	Information	Pre-defined Trusted Update disabled.
1037	System	Information	DLL/Driver Lockdown enabled.
1038	System	Warning	DLL/Driver Lockdown disabled.
1039	System	Information	Script Lockdown enabled.
1040	System	Warning	Script Lockdown disabled.
1041	System	Information	Script added. [Details]

Event ID	Task Category	Level	Log Description
			File extension: %extension% Interpreter: %interpreter%
1042	System	Information	Script removed. [Details] File extension: %extension% Interpreter: %interpreter%
1044	System	Information	Exception path enabled.
1045	System	Information	Exception path disabled.
1047	System	Information	Trusted certification enabled.
1048	System	Information	Trusted certification disabled.
1049	System	Information	Write Protection enabled.
1050	System	Warning	Write Protection disabled.
1051	System	Information	Write Protection set to Allow.
1052	System	Information	Write Protection set to Block.
1055	System	Information	Added file to Write Protection List. Path: %path%
1056	System	Information	Removed file from Write Protection List. Path: %path%
1057	System	Information	Added file to Write Protection Exception List. Path: %path% Process: %process%
1058	System	Information	Removed file from Write Protection Exception List. Path: %path%

Event ID	Task Category	Level	Log Description
			Process: %process%
1059	System	Information	Added folder to Write Protection List. Path: %path% Scope: %scope%
1060	System	Information	Removed folder from Write Protection List. Path: %path% Scope: %scope%
1061	System	Information	Added folder to Write Protection Exception List. Path: %path% Scope: %scope% Process: %process%
1062	System	Information	Removed folder from Write Protection Exception List. Path: %path% Scope: %scope% Process: %process%
1063	System	Information	Added registry value to Write Protection List. Registry Key: %regkey% Registry Value Name: %regvalue%
1064	System	Information	Removed registry value from Write Protection List. Registry Key: %regkey% Registry Value Name: %regvalue%
1065	System	Information	Added registry value to Write Protection Exception List.

Event ID	Task Category	Level	Log Description
			Registry Key: %regkey% Registry Value Name: %regvalue% Process: %process%
1066	System	Information	Removed registry value from Write Protection Exception List. Registry Key: %regkey% Registry Value Name: %regvalue% Process: %process%
1067	System	Information	Added registry key to Write Protection List. Path: %regkey% Scope: %scope%
1068	System	Information	Removed registry key from Write Protection List. Path: %regkey% Scope: %scope%
1069	System	Information	Added registry key to Write Protection Exception List. Path: %regkey% Scope: %scope% Process: %process%
1070	System	Information	Removed registry key from Write Protection Exception List. Path: %regkey% Scope: %scope% Process: %process%
1071	System	Information	Custom Action set to Ignore.

Event ID	Task Category	Level	Log Description
1072	System	Information	Custom Action set to Quarantine.
1073	System	Information	A custom action was set to ask the central console what action to take.
1074	System	Information	Quarantined file is restored. [Details] Original Location: %path% Source: %source%
1075	System	Information	Quarantined file is deleted. [Details] Original Location: %path% Source: %source%
1076	System	Information	Integrity Monitoring enabled.
1077	System	Information	Integrity Monitoring disabled.
1079	System	Information	Server certification imported: %path%
1080	System	Information	Server certification exported to: %path%
1081	System	Information	Managed mode configuration imported: %path%
1082	System	Information	Managed mode configuration exported to: %path%
1083	System	Information	Managed mode enabled.
1084	System	Information	Managed mode disabled.
1085	System	Information	Protection applied to Write Protection List and Approved List while Write Protection is enabled

Event ID	Task Category	Level	Log Description
1086	System	Warning	Protection applied to Write Protection List while Write Protection is enabled.
1088	System	Information	Windows Update Support enabled.
1089	System	Information	Windows Update Support disabled.
1094	System	Information	The agent has been patched. File applied: %file_name%
1096	System	Information	Trusted Hash List enabled.
1097	System	Information	Trusted Hash List disabled.
1099	System	Information	Storage device access set to Allow
1100	System	Information	Storage device access set to Block
1101	System	Information	Storage device control enabled
1102	System	Warning	Storage device control disabled
1103	System	Information	Event Log settings changed. [Details] Windows Event Log: %ON|off% Level: Warning Log: %ON|off% Information Log: %ON|off% System Log: %ON|off% Exception Path Log: %ON|off% Write Protection Log: %ON|off% List Log: %ON|off% Approved Access Log: DllDriver Log: %ON|off%

Event ID	Task Category	Level	Log Description
			Trusted Updater Log: %ON|off% Exception Path Log: %ON|off% Trusted Certification Log: %ON|off% Trusted Hash Log: %ON|off% Write Protection Log: %ON|off% Blocked Access Log: %ON|off% USB Malware Protection Log: %ON|off% Execution Prevention Log: %ON|off% Network Virus Protection Log: %ON|off% Integrity Monitoring Log File Created Log: %ON|off% File Modified Log: %ON|off% File Deleted Log: %ON|off% File Renamed Log: %ON|off% RegValue Modified Log: %ON|off% RegValue Deleted Log: %ON|off% RegKey Created Log: %ON|off% RegKey Deleted Log: %ON|off% RegKey Renamed Log: %ON|off% Device Control Log: %ON|off% Debug Log: %ON|off%
1104	System	Warning	Memory Randomization is not available in this version of Windows.
1105	System	Information	Blocked File Notification enabled.
1106	System	Information	Blocked File Notification disabled.

Event ID	Task Category	Level	Log Description
1107	System	Information	Administrator password changed remotely.
1111	System	Information	Fileless Attack Prevention enabled.
1112	System	Warning	Fileless Attack Prevention disabled.
1113	System	Warning	Enable Intelligent Runtime Learning.
1114	System	Warning	Disable Intelligent Runtime Learning.
1500	List	Information	Trusted Update started.
1501	List	Information	Trusted Update stopped.
1502	List	Information	Approved List import started: %path%
1503	List	Information	Approved List import complete: %path%
1504	List	Information	Approved List exported to: %path%
1505	List	Information	Added to Approved List: %path%
1506	List	Information	Added to Trusted Updater List: %path%
1507	List	Information	Removed from Approved List: %path%
1508	List	Information	Removed from Trusted Updater List: %path %
1509	List	Information	Approved List updated: %path%
1510	List	Information	Trusted Updater List updated: %path%
1511	List	Warning	Unable to add to or update Approved List: %path%
1512	List	Warning	Unable to add to or update Trusted Updater List: %path%
1513	System	Information	Added to Exception Path List. [Details] Type: %exceptionpathtype%

Event ID	Task Category	Level	Log Description
			Path: %exceptionpath%
1514	System	Information	Removed from Exception Path List. [Details] Type: %exceptionpathtype% Path: %exceptionpath%
1515	System	Information	Added to Trusted Certification List. [Details] Label: %label% Hash: %hashvalue% Type: %type% Subject: %subject% Issuer: %issuer%
1516	System	Information	Removed from Trusted Certification List. [Details] Label: %label% Hash: %hashvalue% Type: %type% Subject: %subject% Issuer: %issuer%
1517	System	Information	Added to the Trusted Hash List.%n [Details] Label : %label% Hash : %hashvalue%

Event ID	Task Category	Level	Log Description
			Type : %type% Add to Approved List: %yes|no% Path : %path% Note: %note%
1518	System	Information	Removed from the Trusted Hash List.%n [Details] Label : %label% Hash : %hashvalue% Type : %type% Add to Approved List: %yes|no% Path : %path% Note: %note%
1519	List	Information	Removed from Approved List remotely: %path%
1520	List	Warning	Unable to create Approved List because an unexpected error occurred during enumeration of the files in %1 %n Error Code: %2 %n
1521	System	Information	Added Fileless Attack Prevention exception. [Details] Label : %label% Target Process: %process_name% Arguments: %arguments% %regex_flag% Parent Process 1 Image Path: %path% Parent Process 2 Image Path: %path%

Event ID	Task Category	Level	Log Description
			Parent Process 3 Image Path: %path% Parent Process 4 Image Path: %path%
1522	System	Information	Removed Fileless Attack Prevention exception. [Details] Label : %label% Target Process: %process_name% Arguments: %arguments% %regex_flag% Parent Process 1 Image Path: %path% Parent Process 2 Image Path: %path% Parent Process 3 Image Path: %path% Parent Process 4 Image Path: %path%
1523	System	Information	Maintenance Mode started
1524	System	Information	Leaving Maintenance Mode
1525	System	Information	Maintenance Mode stopped
1526	List	Information	Added to Approved List in Maintenance Mode. Path: %1 Hash: %2
1527	List	Information	Approved List updated in Maintenance Mode. Path: %1 Hash: %2
1528	System	Information	Maintenance Mode Summary The number of files added to Approved List: %1

Event ID	Task Category	Level	Log Description
			The number of files that couldn't be added to Approved List: %2 Scan Action: %3 The number of files on which action was taken: %4 The number of files on which action could not be taken: %5
2000	Access Approved	Information	File access allowed: %path% [Details] Access Image Path: %path% Access User: %username% Mode: %mode% List: %list%
2001	Access Approved	Warning	File access allowed: %path% [Details] Access Image Path: %path% Access User: %username% Mode: %mode% File Hash allowed: %hash%
2002	Access Approved	Warning	File access allowed: %path% Unable to get the file path while checking the Approved List. [Details] Access Image Path: %path% Access User: %username%

Event ID	Task Category	Level	Log Description
			Mode: %mode%
2003	Access Approved	Warning	File access allowed: %path% Unable to calculate hash while checking the Approved List. [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2004	Access Approved	Warning	File access allowed: %path% Unable to get notifications to monitor process.
2005	Access Approved	Warning	File access allowed:%path% Unable to add process to non exception list.
2006	Access Approved	Information	File access allowed: %path% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2007	Access Approved	Warning	File access allowed: %path% An error occurred while checking the Exception Path List. [Details] Access Image Path: %path% Access User: %username%

Event ID	Task Category	Level	Log Description
			Mode: %mode%
2008	Access Approved	Warning	File access allowed: %path% An error occurred while checking the Trusted Certification List. [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2011	Access Approved	Information	Registry access allowed. Registry Key: %regkey% Registry Value Name: %regvalue% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2012	Access Approved	Information	Registry access allowed. Registry Key: %regkey% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2013	Access Approved	Information	Change of File/Folder allowed by Exception List: %path% [Details]

Event ID	Task Category	Level	Log Description
			Access Image Path: Access User: %username% Mode: %mode%
2015	Access Approved	Information	Change of Registry Value allowed by Exception List. Registry Key: %regkey% Registry Value Name: %regvalue% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2016	Access Approved	Information	Change of Registry Key allowed by Exception List. Registry Key: %regkey% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2017	Access Approved	Warning	Change of File/Folder allowed: %path% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2019	Access Approved	Warning	Change of Registry Value allowed. Registry Key: %regkey%

Event ID	Task Category	Level	Log Description
			Registry Value Name: %regvalue% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2020	Access Approved	Warning	Change of Registry Key allowed. Registry Key: %regkey% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2021	Access Approved	Warning	File access allowed: %path% An error occurred while checking the Trusted Hash List. [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2022	Access Approved	Warning	Process allowed by Fileless Attack Prevention: %path% %argument% [Details] Access User: %username% Parent Process 1 Image Path: %path% Parent Process 2 Image Path: %path%

Event ID	Task Category	Level	Log Description
			Parent Process 3 Image Path: %path% Parent Process 4 Image Path: %path% Mode: Unlocked Reason: %reason%
2503	Access Blocked	Warning	Change of File/Folder blocked: %path% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2505	Access Blocked	Warning	Change of Registry Value blocked. Registry Key: %regkey% Registry Value Name: %regvalue% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2506	Access Blocked	Warning	Change of Registry Key blocked. Registry Key: %regkey% [Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2507	Access Blocked	Information	Action completed successfully: %path%

Event ID	Task Category	Level	Log Description
			[Details] Action: %action% Source: %source%
2508	Access Blocked	Warning	Unable to take specified action: %path% [Details] Action: %action% Source: %source%
2509	Access Blocked	Warning	File access blocked: %path% [Details] Access Image Path: %path% Access User: %username% Mode: %mode% Reason: Not in Approved List File Hash blocked: %hash%
2510	Access Blocked	Warning	File access blocked: %path% [Details] Access Image Path: %path% Access User: %username% Mode: %mode% Reason: Hash does not match expected value File Hash blocked: %hash%
2511	Access Blocked	Information	Change of File/Folder blocked: %path%

Event ID	Task Category	Level	Log Description
			[Details] Access Image Path: %path% Access User: %username% Mode: %mode%
2512	Access Blocked	Warning	Change of Registry Value blocked. Registry Key: %regkey% Registry Value Name: %regvalue% [Details] Access Image Path: %path% Access User: %username% **Note** Enabling the Service Creation Prevention feature triggers Event ID 2512.
2513	Access Blocked	Warning	Process blocked by Fileless Attack Prevention: %path% %argument% [Details] Access User: %username% Parent Process 1 Image Path: %path% Parent Process 2 Image Path: %path% Parent Process 3 Image Path: %path% Parent Process 4 Image Path: %path% Mode: locked Reason: %reason%

Event ID	Task Category	Level	Log Description
2514	Access Blocked	Warning	File access blocked : %BLOCKED_FILE_PATH % [Details] Access Image Path: %PARENT_PROCESS_PATH% Access User: %USER_NAME% Reason: Blocked file is in a folder that has the case sensitive attribute enabled.
3000	USB Malware Protection	Warning	Device access allowed: %path% [Details] Access Image Path: %path% Access User: %username% Device Type: %type%
3001	USB Malware Protection	Warning	Device access blocked: %path% [Details] Access Image Path: %path% Access User: %username% Device Type: %type%
3500	Network Virus Protection	Warning	Network virus allowed: %name% [Details] Protocol: TCP Source IP Address: %ip_address% Source Port: %port% Destination IP Address: %ip_address%

Event ID	Task Category	Level	Log Description
			Destination Port: 80
3501	Network Virus Protection	Warning	Network virus blocked: %name% [Details] Protocol: TCP Source IP Address: %ip_address% Source Port: %port% Destination IP Address: %ip_address% Destination Port: 80
4000	Process Protection Event	Warning	API Hooking/DLL Injection allowed: %path% [Details] Threat Image Path: %path% Threat User: %username%
4001	Process Protection Event	Warning	API Hooking/DLL Injection blocked: %path% [Details] Threat Image Path: %path% Threat User: %username%
4002	Process Protection Event	Warning	API Hooking allowed: %path% [Details] Threat Image Path: %path% Threat User: %username%
4003	Process Protection Event	Warning	API Hooking blocked: %path% [Details]

Event ID	Task Category	Level	Log Description
			Threat Image Path: %path% Threat User: %username%
4004	Process Protection Event	Warning	DLL Injection allowed: %path% [Details] Threat Image Path: %path% Threat User: %username%
4005	Process Protection Event	Warning	DLL Injection blocked: %path% [Details] Threat Image Path: %path% Threat User: %username%
4500	Changes in System	Information	File/Folder created: %path% [Details] Access Image Path: %path% Access Process Id: %pid% Access User: %username%
4501	Changes in System	Information	File modified: %path% [Details] Access Image Path: %path% Access Process Id: %pid% Access User: %username%
4502	Changes in System	Information	File/Folder deleted: %path% [Details] Access Image Path: %path%

Event ID	Task Category	Level	Log Description
			Access Process Id: %pid% Access User: %username%
4503	Changes in System	Information	File/Folder renamed: %path% New Path: %path% [Details] Access Image Path: %path% Access Process Id: %pid% Access User: %username%
4504	Changes in System	Information	Registry Value modified. Registry Key: %regkey% Registry Value Name: %regvalue% Registry Value Type: %regvaluetype% [Details] Access Image Path: %path% Access Process Id: %pid% Access User: %username%
4505	Changes in System	Information	Registry Value deleted. Registry Key: %regkey% Registry Value Name: %regvalue% [Details] Access Image Path: %path% Access Process Id: %pid% Access User: %username%

Event ID	Task Category	Level	Log Description
4506	Changes in System	Information	Registry Key created. Registry Key: %regkey% [Details] Access Image Path: %path% Access Process Id: %pid% Access User: %username%
4507	Changes in System	Information	Registry Key deleted. Registry Key: %regkey% [Details] Access Image Path: %path% Access Process Id: %pid% Access User: %username%
4508	Changes in System	Information	Registry Key renamed. Registry Key: %regkey% New Registry Key: %regkey% [Details] Access Image Path: %path% Access Process Id: %pid% Access User: %username%
5000	Device Control	Warning	Storage device access allowed: %PATH% [Details] Access Image path: %PATH% Access User: %USERNAME%

Event ID	Task Category	Level	Log Description
			Device Type: %TYPE% %DEVICEINFO%
5001	Device Control	Warning	Storage device access blocked: %PATH% [Details] Access Image path: %PATH% Access User: %USERNAME% Device Type: %TYPE% %DEVICEINFO%
6000	System	Information	%Result% [Details] Update Source: %SERVER% [Original Version] Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION% [Updated Version] Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION%

Event ID	Task Category	Level	Log Description
			Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
6001	System	Warning	Update failed: %ERROR_MSG% (%ERROR_CODE%) [Details] Update Source: %SERVER% [Original Version] Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION% [Updated Version] Virus Pattern: %VERSION% Spyware Pattern: %VERSION%

Event ID	Task Category	Level	Log Description
			Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
6002	System	Information	Malware scan started: %SCAN_TYPE% [Details] Files to scan: %SCAN_FOLDER_TYPE% Scanned folders: %PATHS% Excluded paths: %PATHS% Excluded files: %PATHS% Excluded extensions: %PATHS% [Components] Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION%

Event ID	Task Category	Level	Log Description
			Scanner: %VERSION%
6003	System	Information	Malware scan completed: %SCAN_TYPE%. Number of infected files: %NUM% [Details] Files to scan: %SCAN_FOLDER_TYPE% Scanned folders: %PATHS% Excluded paths: %PATHS% Excluded files: %PATHS% Excluded extensions: %PATHS% Start date/time: %DATE_TIME% End date/time: %DATE_TIME% Number of scanned files: %NUM% Number of infected files: %NUM% Number of cleaned files: %NUM% Number of files cleaned after reboot: %NUM% [Components] Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION%

Event ID	Task Category	Level	Log Description
			Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
6004	System	Warning	Malware scan unsuccessful: %SCAN_TYPE% %ERROR% [Details] Files to scan: %SCAN_FOLDER_TYPE% Scanned folders: %PATHS% Excluded paths: %PATHS% Excluded files: %PATHS% Excluded extensions: %PATHS% Start date/time: %DATE_TIME% End date/time: %DATE_TIME% Number of scanned files: %NUM% Number of infected files: %NUM% Number of cleaned files: %NUM% Number of files cleaned after reboot: %NUM% [Components] Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION%

Event ID	Task Category	Level	Log Description
			Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
6005	System	Information	Malware detected: %ACTION% File path: %PATH% [Details] Reboot required: %NEED_REBOOT% [Scan Result] Threat type: %TYPE% Threat name: %NAME% [Components] Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
6006	System	Warning	Malware detected. Unable to perform scan actions: %PATH% [Details] First action: %1ST_ACTION%

Event ID	Task Category	Level	Log Description
			Second action: %2ND_ACTION% Threat type: %TYPE% Threat name: %NAME% [Components] Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
6007	Maintenance Mode	Warning	Malware detected in Maintenance Mode (file quarantine successful): %PATH% [Details] Component versions: Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION%

Event ID	Task Category	Level	Log Description
			Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
6008	Maintenance Mode	Warning	Malware detected in Maintenance Mode (file quarantine unsuccessful): %PATH% [Details] Component versions: Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION% Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
6009	Maintenance Mode	Warning	Malware detected in Maintenance Mode: %PATH% [Details] Component versions: Virus Pattern: %VERSION% Spyware Pattern: %VERSION% Digital Signature Pattern: %VERSION% Program Inspection Pattern: %VERSION% Damage Cleanup Template: %VERSION%

Event ID	Task Category	Level	Log Description
			Damage Cleanup Engine Configuration: %VERSION% Virus Scan Engine: %VERSION% Damage Cleanup Engine: %VERSION% Scanner: %VERSION%
7000	System	Information	Group policy applied [Details] Old Group Name: %GROUP NAME% Old Policy Version: %VERSION% New Group Name: %GROUP NAME% New Policy Version: %VERSION%
7001	System	Warning	Unable to synchronize group policy [Details] Old Group Name: %GROUP NAME% Old Policy Version: %VERSION% New Group Name: %GROUP NAME% New Policy Version: %VERSION% Reason: %Reason%

Agent Error Code Descriptions

This list describes the various error codes used in TXOne StellarEnforce.

Table 7-2. TXOne StellarEnforce Error Code Descriptions

Code	Description
0x00040200	Operation successful.

Code	Description
0x80040201	Operation unsuccessful.
0x80040202	Operation unsuccessful.
0x00040202	Operation partially successful.
0x00040203	Requested function not installed.
0x80040203	Requested function not supported.
0x80040204	Invalid argument.
0x80040205	Invalid status.
0x80040206	Out of memory.
0x80040207	Busy. Request ignored.
0x00040208	Retry. (Usually the result of a task taking too long)
0x80040208	System Reserved. (Not used)
0x80040209	The file path is too long.
0x0004020a	System Reserved. (Not used)
0x8004020b	System Reserved. (Not used)
0x0004020c	System Reserved. (Not used)
0x0004020d	System Reserved. (Not used)
0x8004020d	System Reserved. (Not used)
0x0004020e	Reboot required.
0x8004020e	Reboot required for unexpected reason.
0x0004020f	Allowed to perform task.
0x8004020f	Permission denied.
0x00040210	System Reserved. (Not used)
0x80040210	Invalid or unexpected service mode.

Code	Description
0x00040211	System Reserved. (Not used)
0x80040211	Requested task not permitted in current status. Check license.
0x00040212	System Reserved. (Not used)
0x00040213	System Reserved. (Not used)
0x80040213	Passwords do not match.
0x00040214	System Reserved. (Not used)
0x80040214	System Reserved. (Not used)
0x00040215	Not found.
0x80040215	"Expected, but not found."
0x80040216	Authentication is locked.
0x80040217	Invalid password length.
0x80040218	Invalid characters in password.
0x00040219	Duplicate password. Administrator and Restricted User passwords cannot match.
0x80040220	System Reserved. (Not used)
0x80040221	System Reserved. (Not used)
0x80040222	System Reserved. (Not used)
0x80040223	File not found (as expected, and not an error).
0x80040224	System Reserved. (Not used)
0x80040225	System Reserved. (Not used)
0x80040240	Library not found.
0x80040241	Invalid library status or unexpected error in library function.
0x80040260	System Reserved. (Not used)

Coe	Description
0x80040261	System Reserved. (Not used)
0x80040262	System Reserved. (Not used)
0x80040263	System Reserved. (Not used)
0x80040264	System Reserved. (Not used)
0x00040265	System Reserved. (Not used)
0x80040265	System Reserved. (Not used)
0x80040270	System Reserved. (Not used)
0x80040271	System Reserved. (Not used)
0x80040272	System Reserved. (Not used)
0x80040273	System Reserved. (Not used)
0x80040274	System Reserved. (Not used)
0x80040275	System Reserved. (Not used)
0x80040280	Invalid Activation Code.
0x80040281	Incorrect Activation Code format.

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