



Security Threat Response Manager

STRM Adaptive Log Exporter

Release 2008.2

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Caution: Changes or modifications to this product could void the user's warranty and authority to operate this device.

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STRM Adaptive Log Exporter
Release 2008.2

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Revision History

18 April 2008—Revision 1

The information in this document is current as of the date listed in the revision history.

3	
About This Guide	3
Conventions	3
Technical Documentation	3
Documentation Feedback	3
Requesting Support	4
5	
Overview	5
Integrating Device Support Modules (DSMs) with STRM	5
Using the Adaptive Log Exporter	6
Using the Menu	6
Using the Toolbar	6
Deploying Changes	7
9	
Installing the Adaptive Log Exporter	9
Before You Begin	9
Installing the Adaptive Log Exporter	9
Un-installing the Adaptive Log Exporter	13
15	
Setting Up the Adaptive Log Exporter	15
Using the Preferences Window	15
Managing Updates	16
Configuring Adaptive Log Exporter Updates	16
Scheduling Automatic Updates	19
Configuring the Update Site	21
Configuring Updates for Off-line Sites	22
25	
Managing Devices	25
Installing Device Types	25
Updating Devices	27
Configuring Devices	29
Adding a Device	29
Editing a Device	31
Deleting a Device	32
35	
Managing Destinations	35
Configuring Destinations	35
Adding a Destination	35
Editing a Destination	37
Deleting a Destination	39
Mapping to a Destination	40
Creating a Mapping	40
Removing a Mapping	41
43	
Configuring the Cisco ACS Device	43

45
Configuring the Cisco CSA Device 45
47
Configuring the File Forwarder Device 47
49
Configuring the Juniper SBR Device 49
51
Configuring the Windows Event Log Device 51
53
Configuring the Microsoft DHCP Device 53
55
Configuring the Trend Micro InterScan VirusWall Device 55
57
Configuring the Microsoft Exchange Server Device 57
Forwarding OWA Logs 57
Forwarding SMTP Logs 58
59
Configuring the Microsoft SQL Server Device 59
61
Configuring the Microsoft IIS Device 61
63
Collecting Windows Event Logs 63
Collecting Logs Without an Agent 64
Configuring the Adaptive Log Exporter 65
Collecting Logs With an Agent 67
Configuring the Adaptive Log Exporter 68
Configuring STRM To Accept Logs 71




ABOUT THIS GUIDE

The *STRM Adaptive Log Exporter Users Guide* provides you with information for integrating Device Support Modules (DSMs) with STRM or STRM Log-Only using the Adaptive Log Exporter.

Conventions

[Table 1](#) lists conventions that are used throughout this guide.

Table 1 Icons

Icon	Type	Description
	Information note	Information that describes important features or instructions.
	Caution	Information that alerts you to potential loss of data or potential damage to an application, system, device, or network.
	Warning	Information that alerts you to potential personal injury.

Technical Documentation

You can access technical documentation, technical notes, and release notes directly from the Juniper networks Support Web site at <http://www.juniper.net/support/>.

-

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. Send your comments to techpubs-comments@juniper.net, or fill out the documentation feedback form at <http://www.juniper.net/techpubs/docbug/docbugreport.html>. If you are using e-mail, be sure to include the following information with your comments:

- Document name
- Document part number
- Page number
- Software release version

Requesting Support

- Open a support case using the Case Management link at <http://www.juniper.net/support/> or call 1-888-314-JTAC (from the United States, Canada, or Mexico) or 1-408-745-9500 (from elsewhere).

1

OVERVIEW

The Adaptive Log Exporter is a stand-alone application that allows you to integrate devices/applications with STRM or STRM Log-Only. This chapter includes:

- [Integrating Device Support Modules \(DSMs\) with STRM](#)
- [Using the Adaptive Log Exporter](#)
- [Deploying Changes](#)



Note: Unless otherwise noted, all references to STRM refer to both STRM and STRM Log-Only.

Integrating Device Support Modules (DSMs) with STRM

STRM can log and correlate events received from external sources such as security equipment and network equipment. The Adaptive Log Exporter enables you to forward data from Windows-based devices and applications to STRM for processing. Using the Adaptive Log Exporter, you can easily integrate Windows-based devices with STRM.

To integrate device/applications with STRM:

- Step 1** Install available device types.
For more information, see [Chapter 4 Managing Devices, Installing Device Types](#).
- Step 2** Add and configure the required devices.
For more information, see [Chapter 4 Managing Devices, Configuring Devices](#).
- Step 3** Add and configure the required device destinations.
For more information, see [Chapter 5 Managing Destinations, Configuring Destinations](#).
- Step 4** Map the device to the desired destination, such as syslog or a log file.
For more information, see [Chapter 5 Managing Destinations, Mapping to a Destination](#).
- Step 5** Deploy all changes.

Using the Adaptive Log Exporter

The Adaptive Log Exporter provides menu and tool bar options. This section provides information on the available options including:

- [Using the Menu](#)
- [Using the Toolbar](#)

Using the Menu

The menu options include:

Table 1-1 Adaptive Log Exporter Menu Options

Menu	Sub-Menu	Description
File	Save	Allows you to save current changes.
	Save All	Allows you to save all changes made during the current session.
	Deploy	Allows you to deploy all changes made during the current session.
	Preferences	Allows you to configure Adaptive Log Exporter preferences. For more information, see Chapter 3 Setting Up the Adaptive Log Exporter .
	Exit	Allows you to exit the application.
Edit	Edit Device	Allows you to edit the settings for a currently saved device. For more information, see Chapter 4 Managing Devices .
	Edit Destination	Allows you to edit the mapping destination for a device. For more information, see Chapter 4 Managing Devices .
Window	Show Views	Allows you to view the Destination or Devices tabs.
Help	Software Updates	Allows you to check for software updates. For more information, see Chapter 4 Managing Devices .
	About	Allows you to access information about the version of Adaptive Log Exporter you are using.

Using the Toolbar

The toolbar options include:

Table 1-2 Toolbar Options







Icon	Description
	Allows you to save current changes.
	Allows you to save all changes made during the current session.

Table 1-2 Toolbar Options (continued)

Icon	Description
 Edit Device	Allows you to edit the settings for a currently saved device.
 Edit Destination	Allows you to edit the mapping destination for a device.
 Deploy	Allows you to deploy all changes made during the current session.
 Add Plugins...	Allows you to install all available devices.

Deploying Changes

Once you configure your devices using the Adaptive Log Exporter, you must save your changes to the staging area using the Save or Save All option. Then, you must either manually deploy all changes using the Deploy menu option or, upon exit, a window appears prompting you to deploy changes before you exit. All deployed changes are then enforced.

2

INSTALLING THE ADAPTIVE LOG EXPORTER

This chapter provides information on installing and uninstalling your Adaptive Log Exporter including:

- [Before You Begin](#)
- [Installing the Adaptive Log Exporter](#)
- [Un-installing the Adaptive Log Exporter](#)

Before You Begin

Before you install the Adaptive Log Exporter, make sure you have the following:

- Windows 2000 or Windows 2003 software installed.
- Your system includes at least 200 MB of disk space available.
- Appropriate access to STRM. For more information regarding STRM, see the *STRM Users Guide*.
- Appropriate access to all devices and servers you wish to configure. For more information, see your vendor documentation.

Installing the Adaptive Log Exporter

To install the Adaptive Log Exporter:

Step 1 Download the Adaptive Log Exporter by selecting **Software > Adaptive Log Exporter** from the following website:

<http://downloads.q11labs.com/windowsagent/>

Step 1 Click the Management Software link and Login. Go to the Security Threat Response Manager Link to download the ALE software.

Step 2 Close all other active applications before installing the Adaptive Log Exporter.

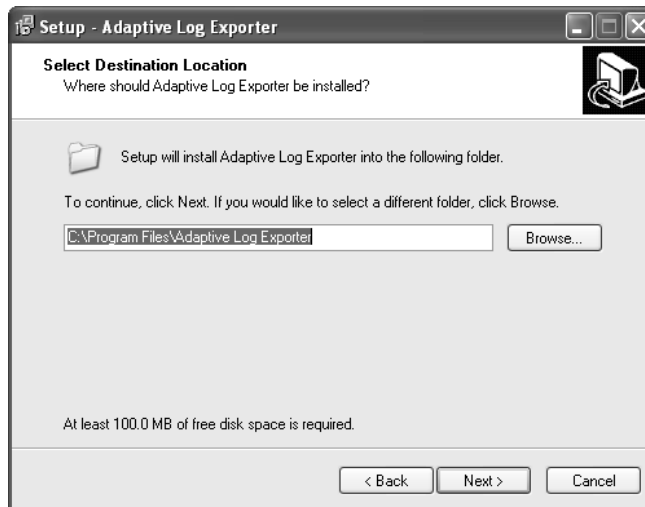
Step 3 Double-click the Adaptive Log Exporter executable.

The Welcome window appears.



Step 4 Click **Next**.

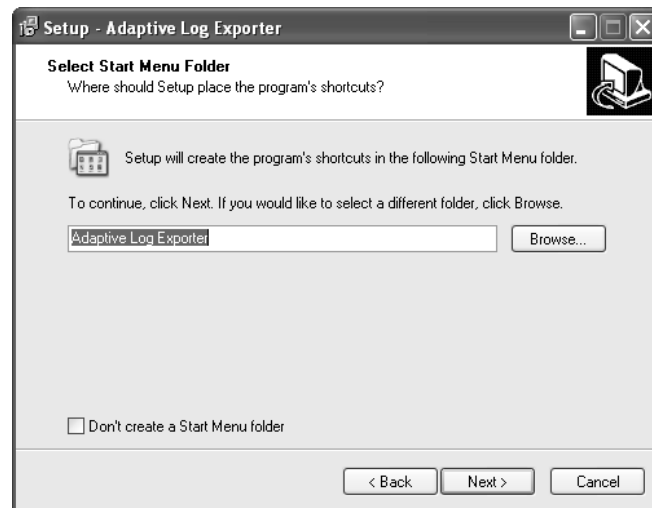
The Select Destination Location window appears.



Step 5 Specify the location you wish to install the Adaptive Log Exporter. To browse your system for a particular location, click **Browse**.

Step 6 Click **Next**.

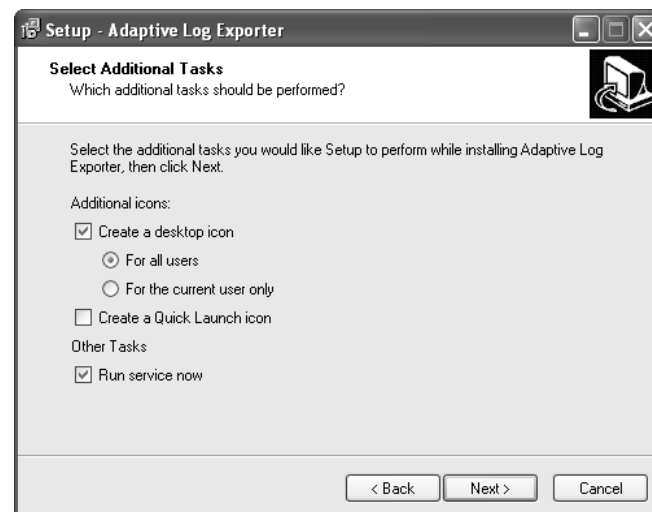
The Start Menu Folder window appears.



Step 7 Specify the name of the menu option in your Start menu. If you do not wish to include a menu option in your Start menu, select the **Don't create a Start Menu folder** check box.

Step 8 Click **Next**.

The Select Additional Tasks window appears.



Step 9 Configure the available options:

- **Create a desktop icon** — Select the check box if you wish to create an icon on your desktop for the Adaptive Log Exporter. You can also select one of the following options:
 - For all users
 - For the current user only
- **Create a Quick Launch icon** — Select the check box if you wish to create an icon on your Quick Launch toolbar.

- **Run service now** — If you wish to run the Adaptive Log Exporter immediately after installation, select the Run service now check box.

Step 10 Click **Next**.

The Ready to Install window appears.



Step 11 Click **Install**.

The Completing the Setup Wizard appears when the installation is complete.



Step 12 Click **Finish**.

The installation process is complete.

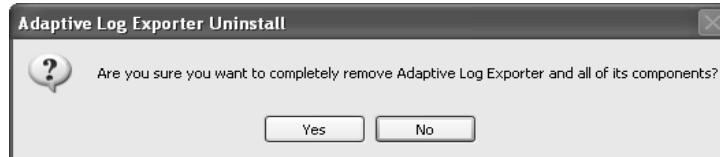
When the installation process completes, you must configure the location that the Adaptive Log Exporter uses for updates. For more information, see [Configuring the Update Site](#).

Un-installing the Adaptive Log Exporter

To un-install the Adaptive Log Exporter:

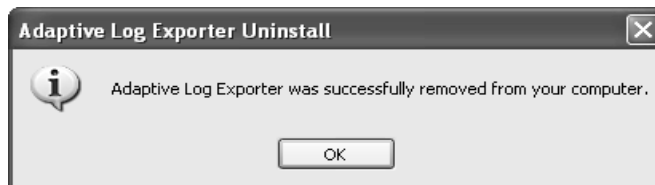
Step 1 From your desktop, select **Start > Programs > AdaptiveLogExporter > Utility > Uninstall AdapterLogExporter**.

A confirmation messages appears.



Step 2 Click **Yes** to continue.

Once the process is complete, a message appears when the uninstall is complete.



Step 3 Click **Ok**.

3

SETTING UP THE ADAPTIVE LOG EXPORTER

This chapter provides information on setting up your Adaptive Log Exporter including:

- [Using the Preferences Window](#)
- [Managing Updates](#)

Using the Preferences Window

The Preferences window provides the following options:

Table 3-1 Preference Options

Menu	Sub-Menu	Description
Help		We recommend that you use the default values for the Help options.
Install/Update		Allows you to configure your update options. For more information, see Configuring Adaptive Log Exporter Updates .
	Automatic Updates	Allows you to schedule updates to your Adaptive Log Exporter. For more information, see Scheduling Automatic Updates .
	Update Site	Allows you to configure the location that the Adaptive Log Exporter uses for updates. For more information, see Configuring the Update Site .



Note: If you deviate from the default values of the Adaptive Log Exporter and you wish to restore default values, click **Restore Defaults** in the Preferences window.

Managing Updates

This section provides information on managing updates for your Adaptive Log Exporter including:

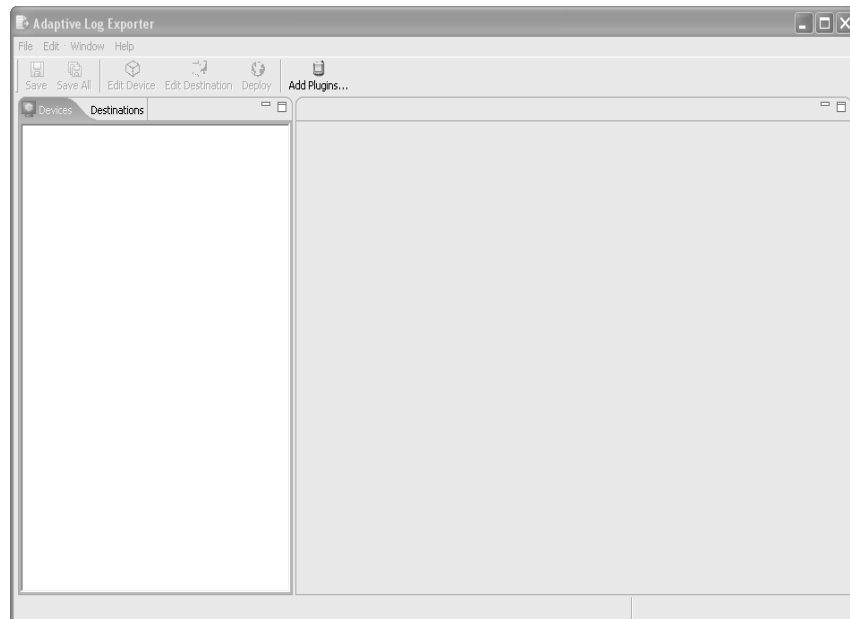
- [Configuring Adaptive Log Exporter Updates](#)
- [Scheduling Automatic Updates](#)
- [Configuring the Update Site](#)

Configuring Adaptive Log Exporter Updates

To configure the preferences for updates:

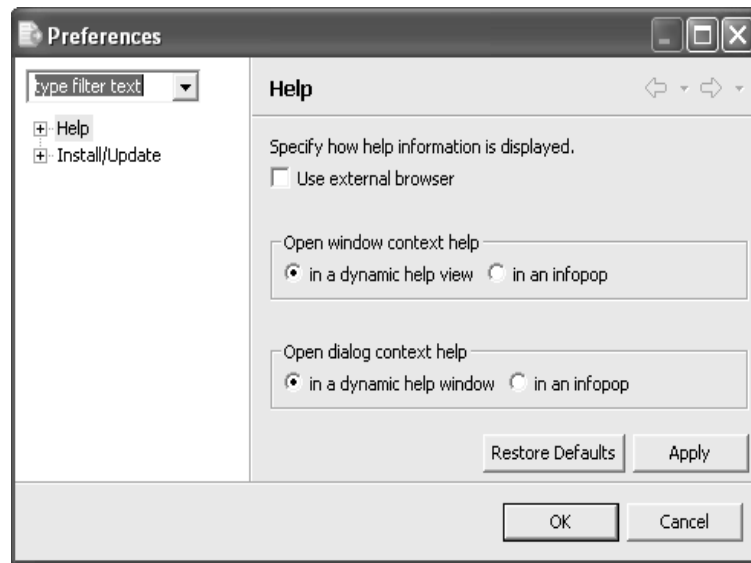
- Step 1** From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

The Adaptive Log Exporter appears.



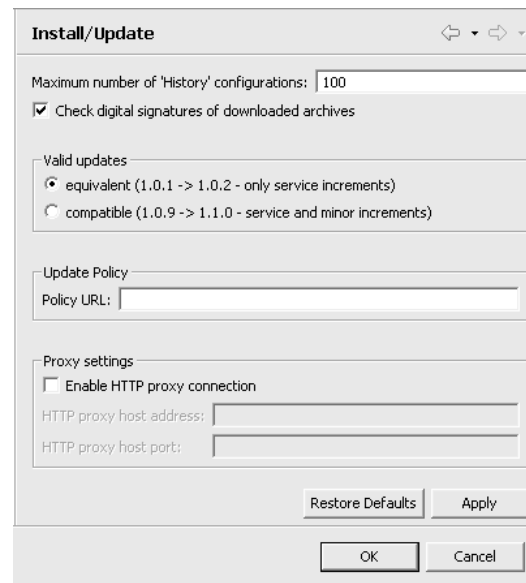
- Step 2** From the menu, select **File > Preferences**.

The Preferences window appears.



Step 3 Click **Install/Update**.

The Install/Update parameters appear.



Step 4 In the Maximum number of History configurations field, enter the number of configuration changes you wish the system to maintain. The default is 100.

Step 5 To ensure greater security for your downloaded archives, select the Check digital signatures of downloaded archives check box. By default, the check box is selected.

Step 6 To determine the updates you wish your system to perform, choose one of the following options:

- **equivalent** — Includes updates that are equivalent with the other currently running version of the Adaptive Log Exporter. Typically, this includes plug-ins and updates.
- **compatible** — Includes updates that are available and include a new version of the application. Typically, this includes a new release of the Adaptive Log Exporter.

Step 7 To specify a specific update policy, specify a URL in the Policy URL field.

This update policy is useful if your deployment includes many Adaptive Log Exporters. If this is the case, you may need to schedule event uploads to minimize the potential high load on the network. For assistance creating a custom update policy, contact Q1 Labs Customer Support.

Step 8 To specify specific proxy settings for your updates:

- a Select the Enable HTTP Proxy connection check box.

Additional fields are activated.

- b In the HTTP proxy host address field, enter the IP address of the desired proxy host.
- c In the HTTP proxy host port field, enter the port number of the proxy host.

Step 9 Click **Apply**.

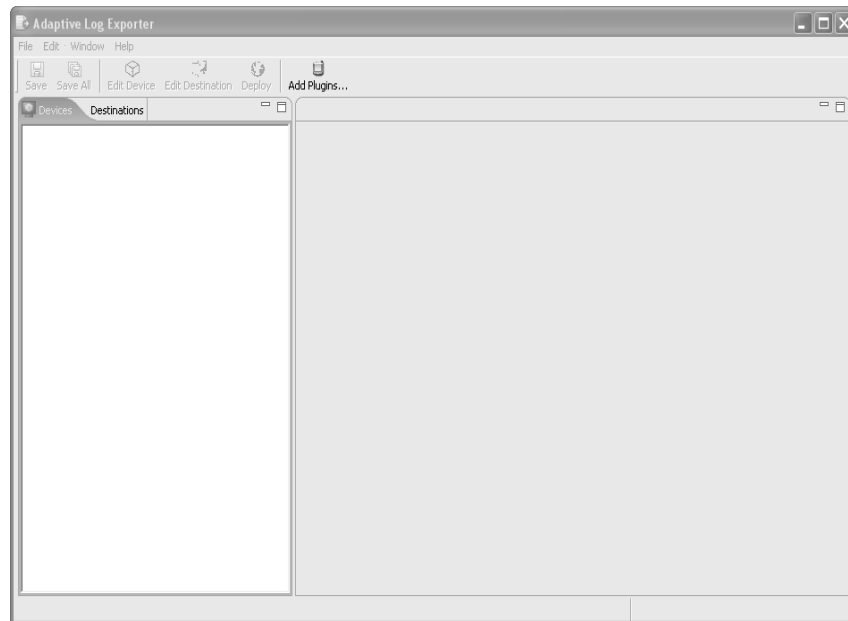
Step 10 Click **OK**.

Scheduling Automatic Updates

You can configure the Adaptive Log Exporter to automatically search for updates. To schedule updates:

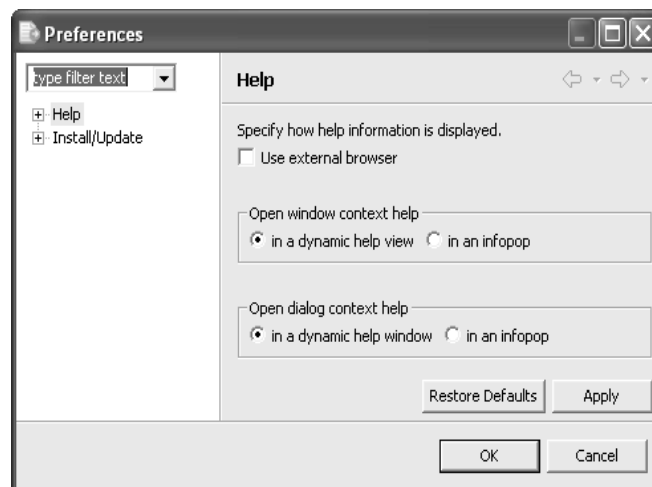
- Step 1** From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

The Adaptive Log Exporter appears.



- Step 2** From the menu, select **File > Preferences**.

The Preferences window appears.

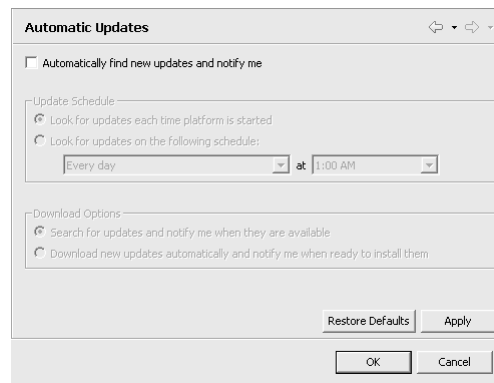


- Step 3** In the left navigation pane, click the + sign next to **Install/Update**.

Additional menu options appear.

- Step 4** Click **Automatic Updates**.

The Automatic Updates parameters appear.



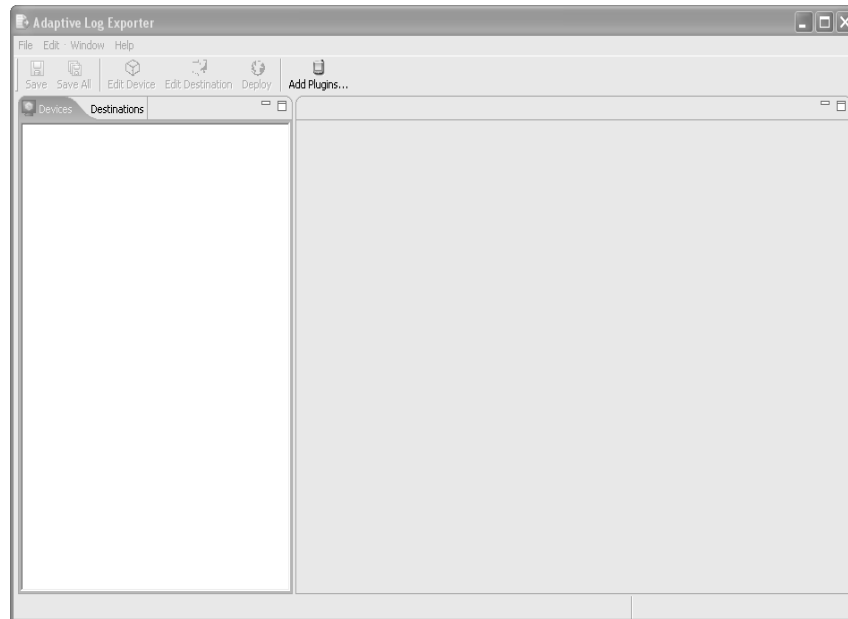
- Step 5** Select the **Automatically find new updates and notify me** check box. Additional options become active. When updates are available, a message appears indicating the available updates.
- Step 6** Select one of the following options to schedule automatic updates:
- **Look for updates each time platform is started** — Enables the system to search for updates each time you start your Adaptive Log Exporter. This is the default.
 - **Look for updates on the following schedule:** — Allows you to use the drop-down list boxes to schedule a specific time for searching for updates.
- Step 7** Select one of the following options for downloading updates:
- **Search for updates and notify me when they are available** — Enables the system to search for updates and provide notification when the updates are available before downloading.
 - **Download new updates automatically and notify me when ready to install them** — Enables the system to search for new updates automatically and notifies you when they are ready to install.
- Step 8** Click **Apply**.
- Step 9** Click **OK**.

Configuring the Update Site

To specify a specific location for the Adaptive Log Exporter to search for updates:

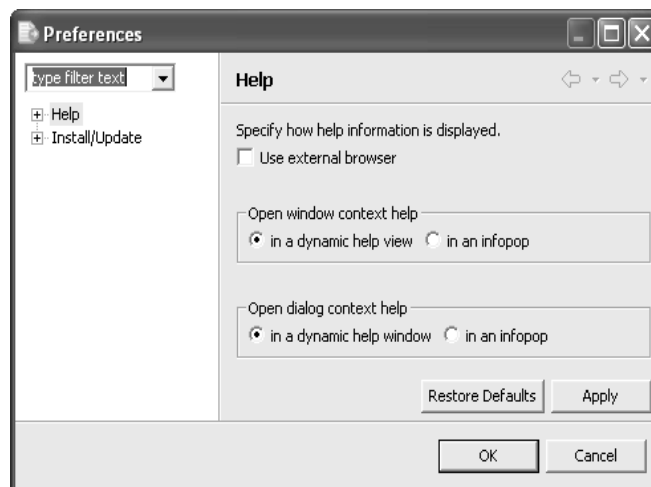
- Step 1** From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

The Adaptive Log Exporter appears.



- Step 2** From the menu, select **File > Preferences**.

The Preferences window appears.

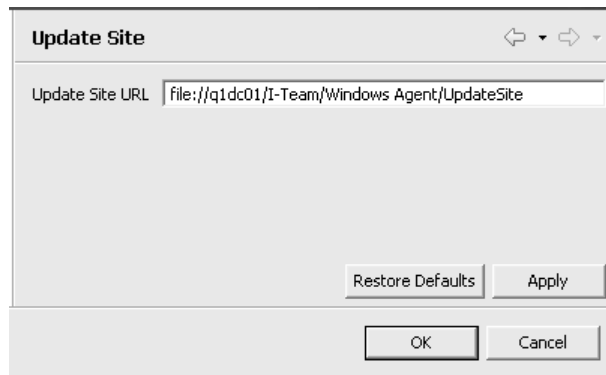


- Step 3** In the left navigation pane, click the + sign next to **Install/Update**.

Additional menu options appear.

- Step 4** Click **Update Site**.

Update Site parameters appear.



Step 5 In the Update Site URL field, enter the location you wish the Adaptive Log Exporter to use for searching for updates.



Note: Adaptive Log Exporter supports both *http* and *file* protocols. For example, the following are valid locations:

`http://<update.server.com>/UpdateSite`

On a Windows server:

`file:\\<SOMEWINDOWSSERVER>\ALE\UpdateSite`

A local file:

`file:///e:/UpdateSite`

You can download updates from

`http://www.juniper.net/support`

Click the Management Software link and log in. Go to the Security Threat Response Manager link.

Step 6 Click **Apply**.

Step 7 Click **OK**.

Configuring Updates for Off-line Sites

To configure updates for a site that has no Internet connection:

Step 1 From a system with Internet connectivity, access the following Web site.

`http://www.juniper.net/support`

Click the Management Software link and log in. Go to the Security Threat Response Manager link.

Step 2 Download the following file:

`windowsagent.zip`

Step 3 Copy the file to your system without Internet connectivity on which you wish to configure updates.

Step 4 Extract the file to your desired update site, for example:

`c:\updatesite`

- Step 5** Configure the update site using the Adaptive Log Exporter interface. See [Configuring the Update Site](#). Make sure you configure the update site to reflect the value entered in [Step 4](#).

4

MANAGING DEVICES

This chapter provides information on adding and managing devices using your Adaptive Log Exporter including:

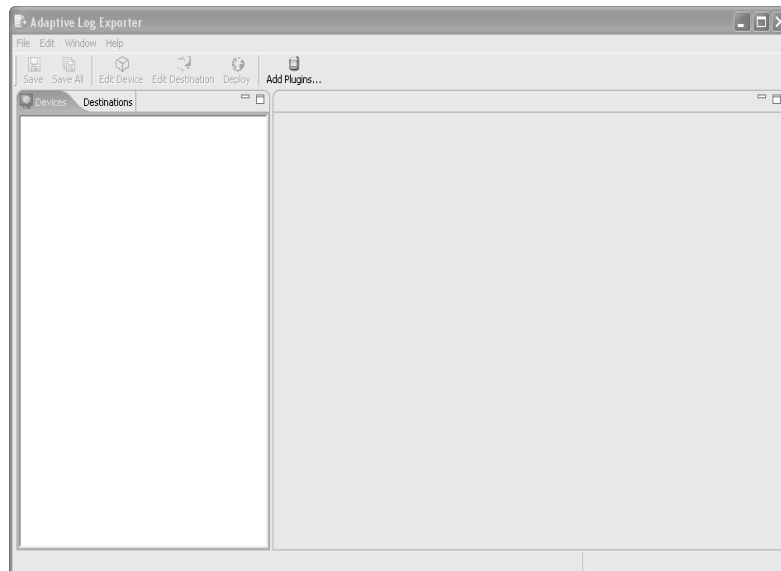
- [Installing Device Types](#)
- [Updating Devices](#)
- [Configuring Devices](#)

Installing Device Types

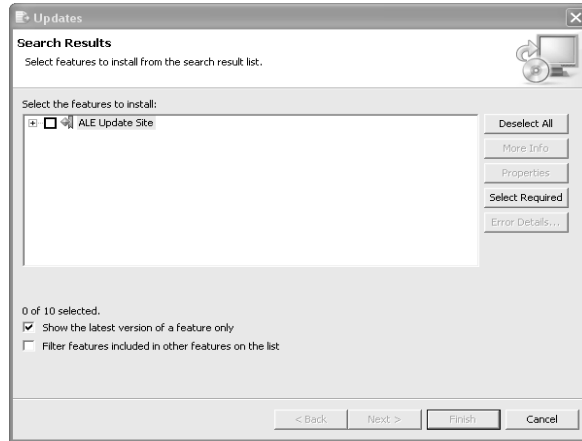
To install device types, such as a Cisco ACS, on your Adaptive Log Exporter:

- Step 1** From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

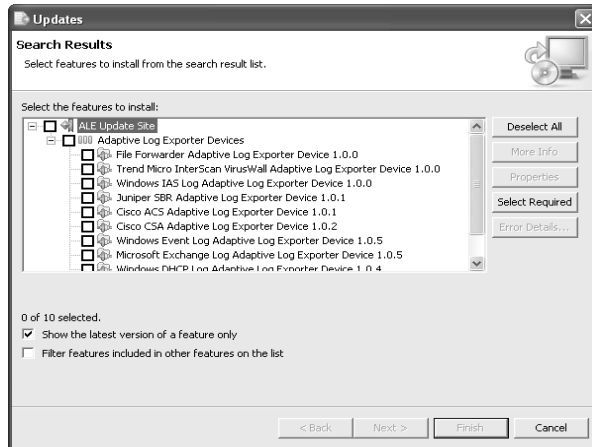
The Adaptive Log Exporter appears.



- Step 2** From the menu, select **Help > Software Updates > Add Plugins**.



Step 3 Click the + sign to expand the menu tree.
The available devices appear.



Step 4 Choose one of the following options:

- a If you wish to install all available devices, select the check box of the top level menu option.
For example, in the above window, select the Q1 Labs Qmmunity check box.
- b If you wish to install specific devices, select the check box(es) for all devices you wish to add to your Adaptive Log Exporter.

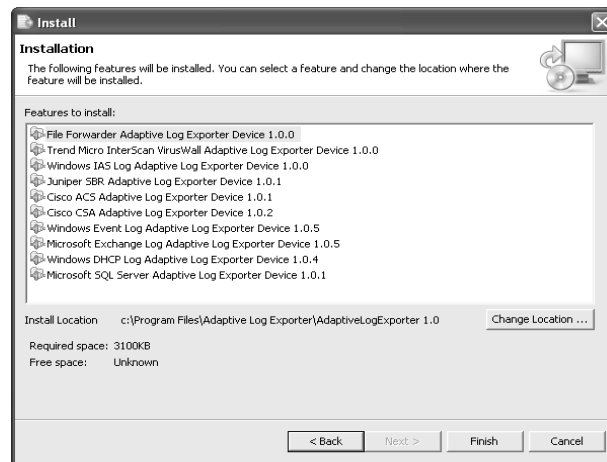
Step 5 Click **Next**.

The Feature License window appears.

Step 6 Read the license associated with the selected device. To continue, you must select the **I accept the terms of the license agreement** option.

Step 7 Click **Next**.

The Installation Window appears.



Note: You must install your devices to the default location. Therefore, do not change the Install Location for your devices.

Step 8 Click **Finish**.

The Feature Verification window appears.

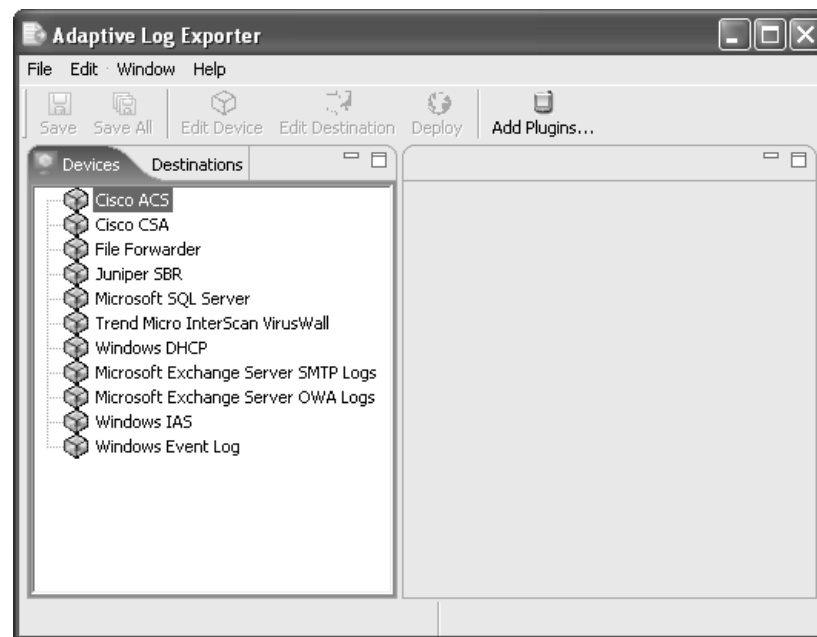
Step 9 Click **Install All** to install all chosen devices.

Updating Devices

To update your device configuration in the Adaptive Log Exporter:

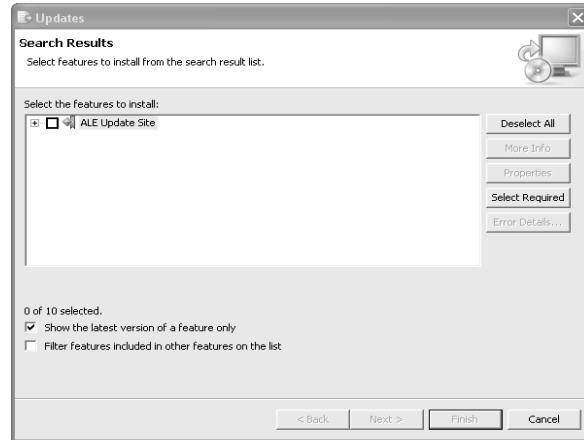
Step 1 From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

The Adaptive Log Exporter appears.



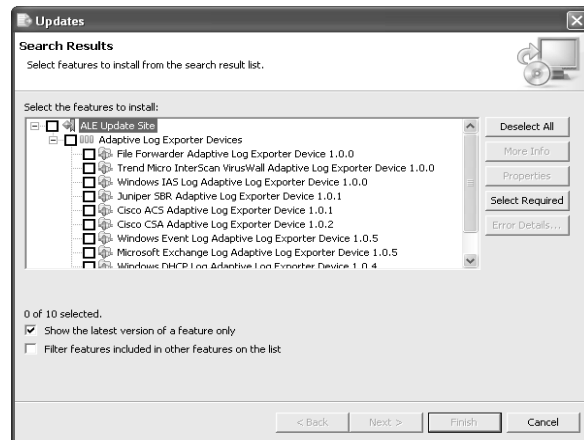
Step 2 From the menu, select **Help > Software Updates > Update Agent**.

If any updates are available, the Updates window appears. If no updates are available, a message appears.



Step 3 Click the + sign to expand the menu tree. .

The available devices appear.



Step 4 Choose one of the following options:

- a If you wish to install all available devices, select the check box of the top level menu option.

For example, in the above window, select the Q1 Labs Qmmunity check box.

- b If you wish to install specific devices, select the check box(es) for all devices you wish to add to your Adaptive Log Exporter.

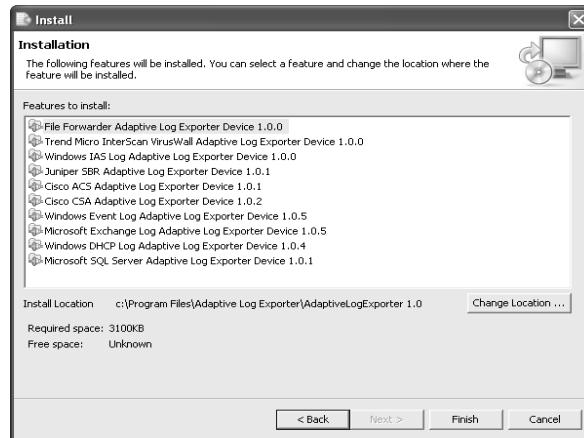
Step 5 Click **Next**.

The Feature License window appears.

Step 6 Read the license associated with the selected devices. To continue, you must select the **I accept the terms of the license agreement** option.

Step 7 Click **Next**.

The Installation Window appears.

**Step 8** If you wish to change the location to which the devices will be installed:

- a Click **Change Location**.
- b Click **Add Location**.
- c Using the menu tree, select the location you wish to install the devices.
- d Click **OK**.
- e Click **OK**.

Step 9 Click **Finish**.

The Feature Verification window appears.

Step 10 Click **Install All** to install all chosen devices.

Configuring Devices

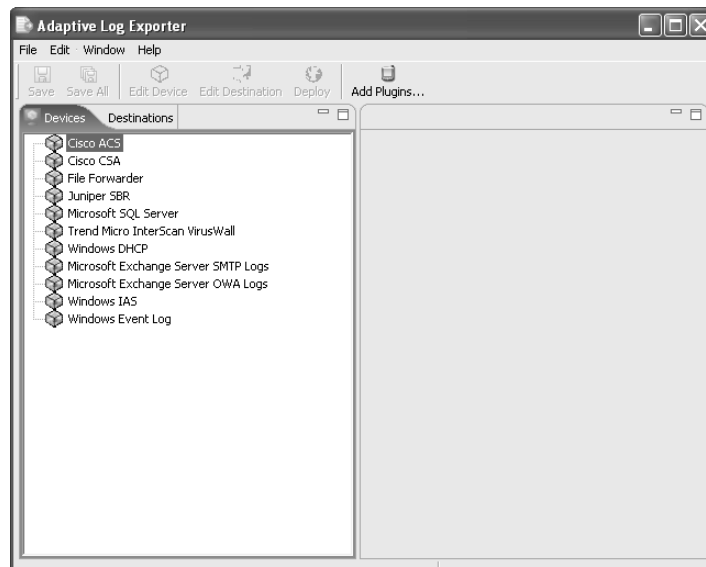
Once you have installed the device types, such as Cisco ACS, to your Devices tab, you can add multiple devices to integrate with STRM. Each device you add to the device type must be configured and then mapped to a destination. For more information on configuring the destination, see [Chapter 5 Managing Destinations](#).

Using the Adaptive Log Exporter, you can,

- [Adding a Device](#)
- [Editing a Device](#)
- [Deleting a Device](#)

Adding a Device To add a device:**Step 1** From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

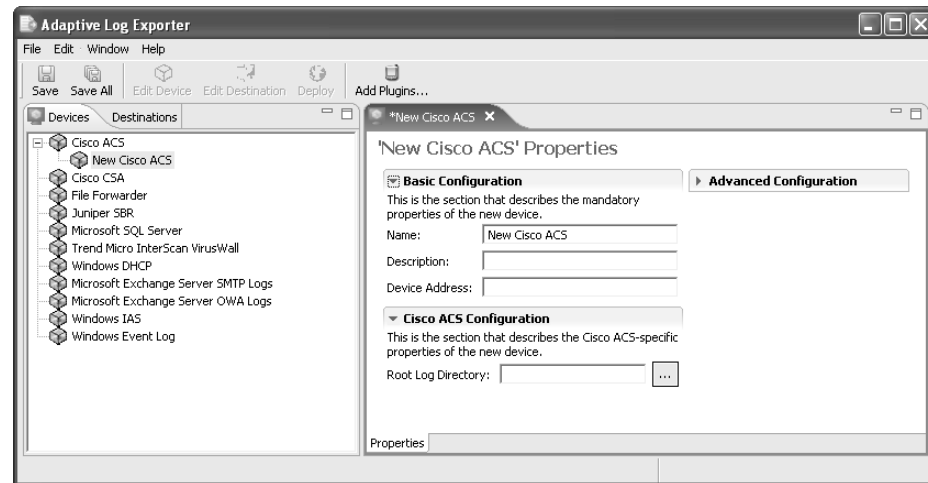
The Adaptive Log Exporter appears.



Step 2 Click the **Devices** tab.

Step 3 For the device type to which you wish to add a device, use the right-mouse button (right-click) on the device name and select **Add Device**.

A new device appears below the main device name and configuration options appear. For example, if you add a new device to the Cisco ACS device, the following window appears:



Step 4 In the Basic Configuration area, enter values for the parameters:

- **Name** — Specify the name you wish to assign this device. The name can be up to 50 characters in length, composed only of alphanumeric characters and the underscore (_).

- **Description** — Specify a description for this device. The description can be up to 100 characters in length.
- **Device Address** — Specify the IP address for this device. This is the IP address this DSM uses to communicate with STRM.

Step 5 Click the arrow next to Advanced Configuration to reveal the configuration parameters.

Step 6 For the Throttle Timeout parameter, specify the number of milliseconds you wish the Adaptive Log Exporter to check for device changes. The default is 500.

Step 7 Configure the device specific parameters.

For more information, see the appropriate section for the device specific configuration.

Step 8 From the menu, select **File > Save**.

Step 9 Repeat for each device you wish to configure.

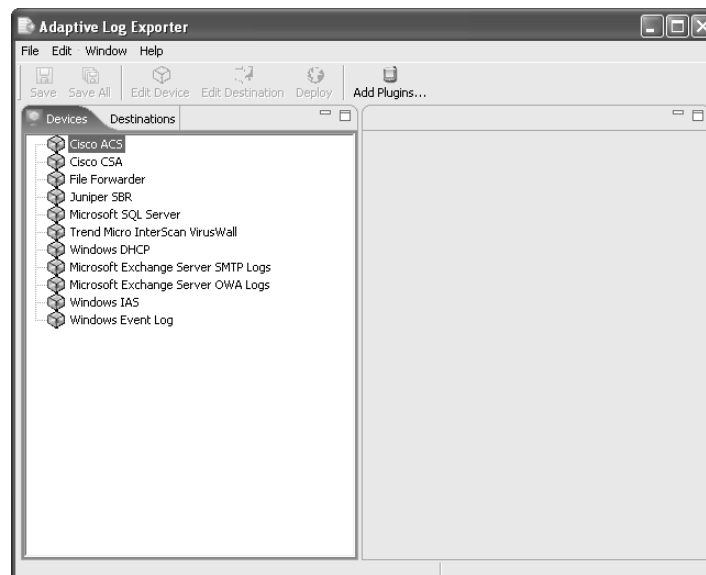
Step 10 From the menu, select **File > Save All**.

Step 11 From the menu, select **File > Deploy**.

Editing a Device To edit a device:

Step 1 From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

The Adaptive Log Exporter appears.



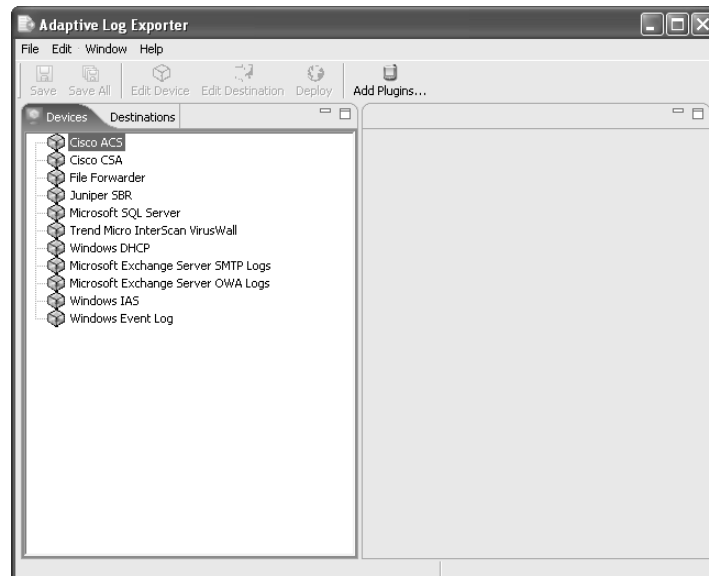
Step 2 Click the **Devices** tab.

Step 3 For the device type that includes the device you wish to edit, click + to expand the menu tree.

- Step 4** For the device you wish to edit, use right-mouse button (right-click) on the device name and select **Edit Device**.
- The configuration parameters for that device appears.
- Step 5** Update the Basic Configuration, as necessary:
- **Name** — Specify the name you wish to assign this device. The name can be up to 50 characters in length, composed only of alphanumeric characters and the underscore (_).
 - **Description** — Specify a description for this device. The description can be up to 100 characters in length.
 - **Device Address** — Specify the IP address for this device. This is the IP address with which you would like your device associated in STRM.
- Step 6** Click the arrow next to Advanced Configuration to reveal the configuration parameters.
- Step 7** For the Throttle Timeout parameter, specify the number of milliseconds you wish the Adaptive Log Exporter to check for device changes.
- Step 8** Configure the device specific parameters.
- For more information, see the appropriate section for the device specific configuration.
- Step 9** From the menu, select **File > Save**.
- Step 10** Repeat for each device you wish to edit.
- Step 11** From the menu, select **File > Save All**.
- Step 12** From the menu, select **File > Deploy**.

Deleting a Device To delete a device:

- Step 1** From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.
- The Adaptive Log Exporter appears.



Step 2 Click the **Devices** tab.

Step 3 For the device type that includes the device you wish to delete, click + to expand the menu tree.

Step 4 For the device you wish to delete, use right-mouse button (right-click) on the device name and select **Delete Device**.

A confirmation window appears.

Step 5 Click **Ok**.

Step 6 From the menu, select **File > Save**.

Step 7 Repeat for each device you wish to delete.

Step 8 From the menu, select **File > Save All**.

Step 9 From the menu, select **File > Deploy**.

5

MANAGING DESTINATIONS

This chapter provides information on adding and managing your device destinations using your Adaptive Log Exporter including:

- [Configuring Destinations](#)
- [Mapping to a Destination](#)

Configuring Destinations

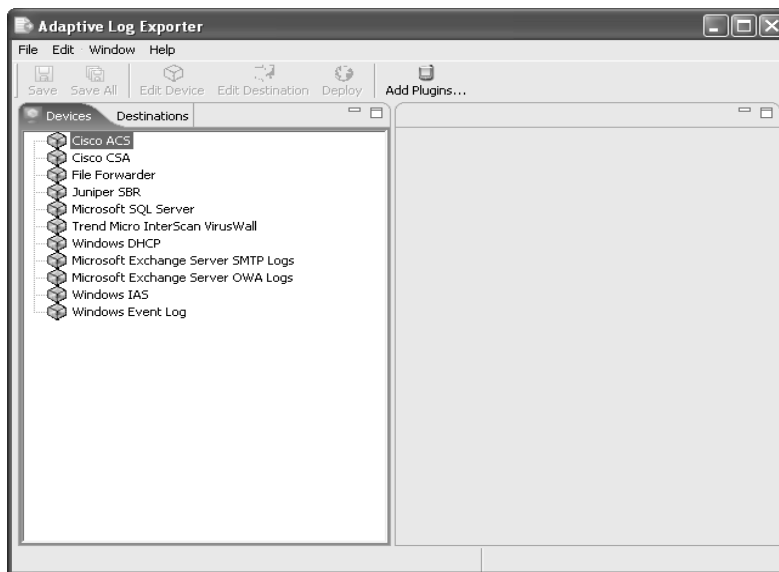
Using the Adaptive Log Exporter, you can,

- [Adding a Destination](#)
- [Editing a Destination](#)
- [Deleting a Destination](#)

Adding a Destination To add a destination:

- Step 1** From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

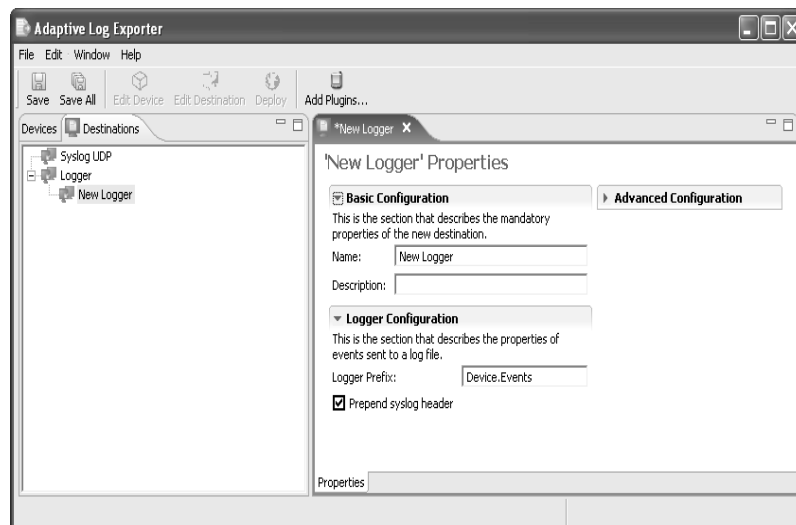
The Adaptive Log Exporter appears.



- Step 2** Click the **Destination** tab.

Step 3 For the destination type to which you wish to add a new device, use the right-mouse button (right-click) on the destination name and select **Add Destination**.

A new destination appears below the main destination name and configuration options appear. For example, if you add a new destination to the Syslog UDP destination, the following window appears:



Step 4 In the Basic Configuration area, enter values for the parameters:

- **Name** — Specify the name you wish to assign this destination, composed only of alphanumeric characters and the underscore (_).
- **Description** — Specify a description for this device.

Step 5 Click the arrow next to Advanced Configuration to reveal the configuration parameters.

Step 6 For the Number of Threads parameter, specify the number of concurrent processing threads you wish run in this destination. The default is 1.

Step 7 Choose one of the following options:

- a If you are configuring a Syslog UDP destination:
 - **Syslog Server Address** — Specify the IP address of your STRM system.
 - **Syslog Server Port** — Specify the syslog port on your STRM system.
- b If you are configuring a Logger destination:
 - **Logger Prefix** — Specify the heading you wish to assign to the logs. The Logger Prefix entry must start with **Device.Events** and may contain letters, numbers and periods.
 - **Prepend Syslog Header** — Select the check box if you wish the syslog header to be attached to the message in the logs.

Step 8 From the menu, select **File > Save**.

Step 9 Repeat for each destination you wish to configure.

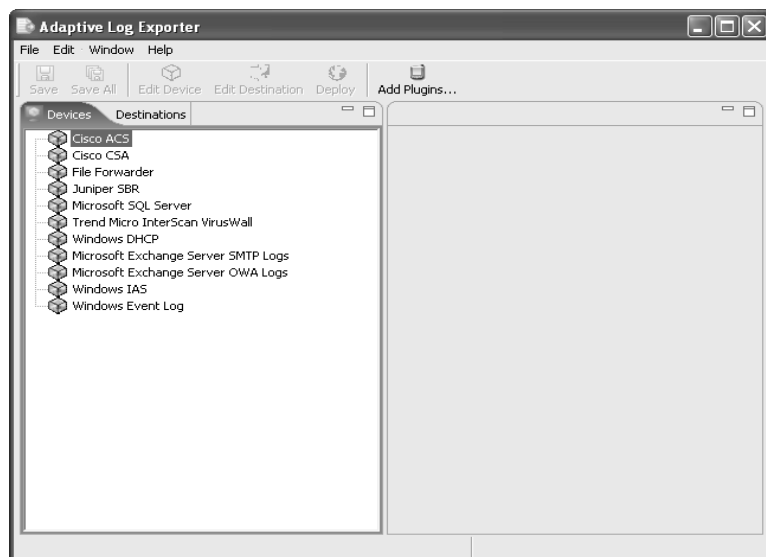
Step 10 From the menu, select **File > Save All**.

Step 11 From the menu, select **File > Deploy**.

Editing a Destination To edit a destination:

Step 1 From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

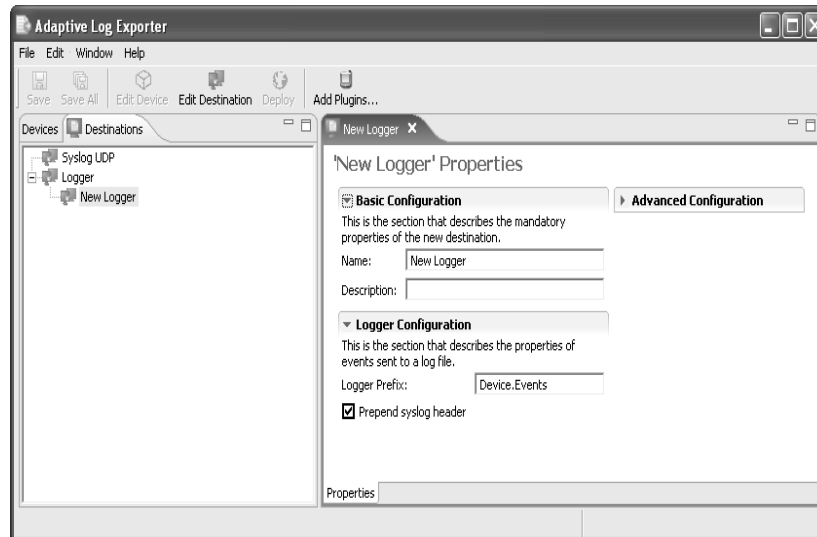
The Adaptive Log Exporter appears.



Step 2 Click the **Destination** tab.

Step 3 For the destination type that includes the destination that you wish to edit, click the + sign to expand the menu tree.

Step 4 For the destination you wish to edit, use the right-mouse button (right-click) on the destination name and select **Edit Destination**.



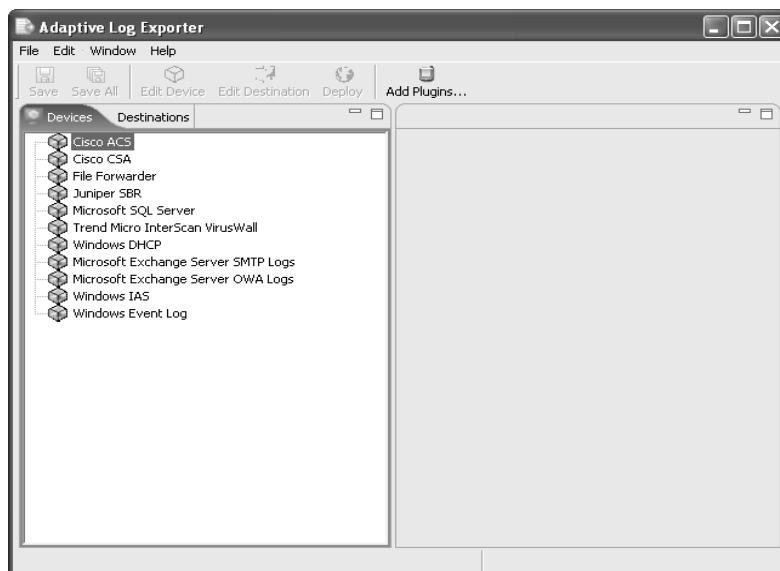
- Step 5** In the Basic Configuration area, update the values, as necessary:
- **Name** — Specify the name you wish to assign this destination, composed only of alphanumeric characters and the underscore (_).
 - **Description** — Specify a description for this device.
- Step 6** Click the arrow next to Advanced Configuration to reveal the configuration parameters.
- Step 7** For the Number of Threads parameter, update the number of concurrent processing threads you wish run in this destination.
- Step 8** Choose one of the following options:
- a If you are configuring a Syslog UDP destination:
 - **Syslog Server Address** — Specify the IP address of your STRM system.
 - **Syslog Server Port** — Specify the syslog port on your STRM system.
 - b If you are configuring a Logger destination:
 - **Logger Prefix** — Specify the heading you wish to assign to the logs. The Logger Prefix entry must start with **Device.Events** and may contain letters, numbers and periods.
 - **Prepend Syslog Header** — Select the check box if you wish the syslog header to be attached to the message in the logs.
- Step 9** From the menu, select **File > Save**.
- Step 10** Repeat for each destination you wish to edit.
- Step 11** From the menu, select **File > Save All**.
- Step 12** From the menu, select **File > Deploy**.

Deleting a Destination

To delete a destination:

Step 1 From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

The Adaptive Log Exporter appears.



Step 2 Click the **Destination** tab.

Step 3 For the destination type that includes the destination that you wish to delete, click + to expand the menu tree.

Step 4 On the destination you wish to delete, use the right-mouse button (right-click) on the destination name and select **Delete Destination**.

A confirmation window appears.

Step 5 Click **Ok**.

Step 6 From the menu, select **File > Save**.

Step 7 Repeat for each device you wish to delete.

Step 8 From the menu, select **File > Save All**.

Step 9 From the menu, select **File > Deploy**.

Mapping to a Destination

Once you have configured your devices and destinations, you must map your device to a destination. This section provides information on mapping a destination to a device including:

- [Creating a Mapping](#)
- [Removing a Mapping](#)

Creating a Mapping To map a device to a destination:

Step 1 From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

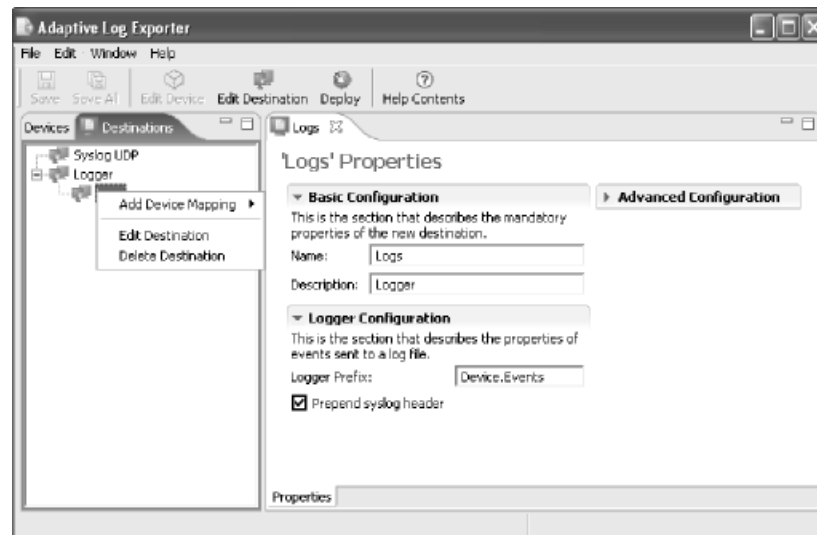
The Adaptive Log Exporter appears.

Step 2 Click the **Destination** tab.

Step 3 For the destination type that includes the destination that you map to a device, click + to expand the menu tree.

Step 4 For the destination you wish to map to a device, use the right-mouse button (right-click) on the destination name and select **Add Device Mapping**.

The mapping is created. A new + sign appears next to the mapped destination.



Step 5 To view the mapping, click + to view the mapped device name.

Step 6 From the menu, select **File > Save**.

Step 7 Repeat for each destination you wish to map to a device.

Step 8 From the menu, select **File > Save All**.

Step 9 From the menu, select **File > Deploy**.

Removing a Mapping To delete a mapping between a device and a destination:

Step 1 From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

The Adaptive Log Exporter appears.

Step 2 Click the **Destination** tab.

Step 3 For the destination type that includes the mapping you wish to remove, click + to expand the menu tree.

Step 4 For the destination that includes the mapping you wish to remove, click + to expand the menu tree.

Step 5 For the mapping you wish to remove, use the right-mouse button (right-click) on the device name and select **Delete Device Mapping**.

The mapping is removed.

Step 6 From the menu, select **File > Save**.

Step 7 Repeat for each mapping you wish to remove.

Step 8 From the menu, select **File > Save All**.

Step 9 From the menu, select **File > Deploy**.

6

CONFIGURING THE CISCO ACS DEVICE

This chapter provides information on configuring your Cisco ACS device.

For information on adding or managing a device, see [Chapter 4 Managing Devices](#).

'New Cisco ACS' Properties

Basic Configuration | **Advanced Configuration**

This is the section that describes the mandatory properties of the new device.

Name:

Description:

Device Address:

Cisco ACS Configuration

This is the section that describes the Cisco ACS-specific properties of the new device.

Root Log Directory:

Properties

Configure the **Cisco ACS device** parameter to specify the **Root Log Directory**, which is the location Cisco ACS stores the logs files.

7

CONFIGURING THE CISCO CSA DEVICE

Cisco Security Agents (CSA) provides security to your deployment to defend against the spread of attacks across networks and systems. These CSA devices enforce a set of policies provided by the Management Center (MC) for CSA devices and selectively applied to system nodes by the network administrator.

This chapter provides information on configuring your CSA device using the Adaptive Log Exporter. For information on adding or managing a device, see [Chapter 4 Managing Devices](#).

The screenshot shows a window titled "New Cisco CSA" with a tabbed interface. The "Basic Configuration" tab is active, showing fields for Name, Description, and Device Address. The "Cisco CSA Configuration" section is expanded, showing fields for Root Log Directory and Log Filename. The Log Filename field contains the text "logfile.txt".

Enter values the following parameters:

- **Root Log Directory** — Specify the location of the CSA MC alert log files. By default, the CSA alert log files are located in the `C:\alerts\` directory
- **Log Filename** — Specify the name of the active alert log file. The CSA MC can generate a flat logging file to which events are written with a name of your choosing.



Note: This file data is encoded in UTF-8 format. Entry fields are separated by a comma. Event entries are separated by a carriage return/line feed (ASCII Hex 0D 0A). Once a log file exceeds 1 MB, the file is closed and the file name is suffixed

with a time stamp. A new file, using the same file name entered in the CSA MC Alerts Log file field, is then created. Events continue to be written to this new file until it reaches 1 MB.

8

CONFIGURING THE FILE FORWARDER DEVICE

This chapter provides information on configuring your File Forwarder device.

For information on adding or managing a device, see [Chapter 4 Managing Devices](#).

'New File Forwarder' Properties

Basic Configuration **Advanced Configuration**

This is the section that describes the mandatory properties of the new device.

Name:

Description:

Device Address:

File Forwarder Configuration

This is the section that describes the File Forwarder-specific properties of the new device.

Root Log Directory: ...

Starts With:

Ends With:

Properties

Enter values the following parameters:

- **Root Log Directory** — Specify the location the File Forwarder device stores the logs files.
- **Starts With** — If you wish the device to monitor files that start with a specific character combination, select the check box and enter the desired characters. The entered string can be up to 255 characters in length.
- **Ends With** — If you wish the device to monitor files that ends with a specific character combination, select the check box and enter the desired characters. The entered string can be up to 255 characters in length.

For example, to monitor all files ending in .log, specify **.log** as the value for the Ends With parameter.

The logs are written to the following file:

Program Files\Adaptive Log Exporter\logs\ALE_Events.log

9

CONFIGURING THE JUNIPER SBR DEVICE

This chapter provides information on configuring your Juniper SBR device.

For information on adding or managing a device, see [Chapter 4 Managing Devices](#).

'New Juniper SBR' Properties

Basic Configuration **Advanced Configuration**

This is the section that describes the mandatory properties of the new device.

Name:

Description:

Device Address:

Juniper SBR Configuration

This is the section that describes the Juniper SBR-specific properties of the new device.

Root Log Directory:

Properties

Configure the **Juniper SBR** parameter to specify the **Root Log Directory**, which is the location Juniper SBR stores the logs files.

10

CONFIGURING THE WINDOWS EVENT LOG DEVICE

In Microsoft Windows, an event is any significant occurrence in the system, a program that requires users to be notified, or an entry added to a log. The event log device records application, security, and system events in the strm Event Viewer. Using the Event Viewer, you view hardware, software, and system component information. You can also monitor security events on a local or remote computer. Event logs enable you to identify and diagnose the source of current system problems or help you predict potential system problems.

This chapter provides information on configuring your Windows Event Log device using the Adaptive Log Exporter. For information on adding or managing a device, see [Chapter 4 Managing Devices](#).

'New Windows Event Log' Properties

Basic Configuration
This is the section that describes the mandatory properties of the new device.
Name:
Description:
Device Address:

Advanced Configuration

Windows Event Log Configuration
This is the section that describes the Windows Event Log-specific properties of the new device.
 Application Log
 Security Log
 System Log

Windows Event Log Remote System Configuration
This is the section that describes the (optional) remote machine properties.
 Remote Machine:
Poll interval:

Enter values the following parameters:

- **Application Log** — Select the check box if you wish the device to monitor the application log. The application log contains events logged by programs, for example, a database program may record a file error in the application log. The specific events recorded by the application log are determined by the software program.
- **Security Log** — Select the check box if you wish the device to monitor the security log. The security log records events (for example, valid and invalid logon attempts) and events related to resource use (for example, creating, opening, or deleting files). You must be logged in with administrator privileges

or as a member of the administrators group to enable, use, and specify which events you wish to record in the security log.

- **System Log** — Select the check box if you wish the device to monitor the system log. The system log contains events logged by Windows XP system components. For example, if a driver fails to load during startup, an event is recorded in the system log. Windows XP predetermines the events that are logged by system components.
- **Remote Machine**— Select the check box if you wish the device to retrieve the logs from a remote machine. Enter the desired Universal Naming Convention (UNC) name. The entered string can be up to 255 characters in length. For example, \\tango123



Note: *When accessing remote logs, make sure that you configure the Adaptive Log Exporter service to run as a user with Administrative privileges on the remote system. For more information, see the Configure how a service is started technical note on www.microsoft.com.*

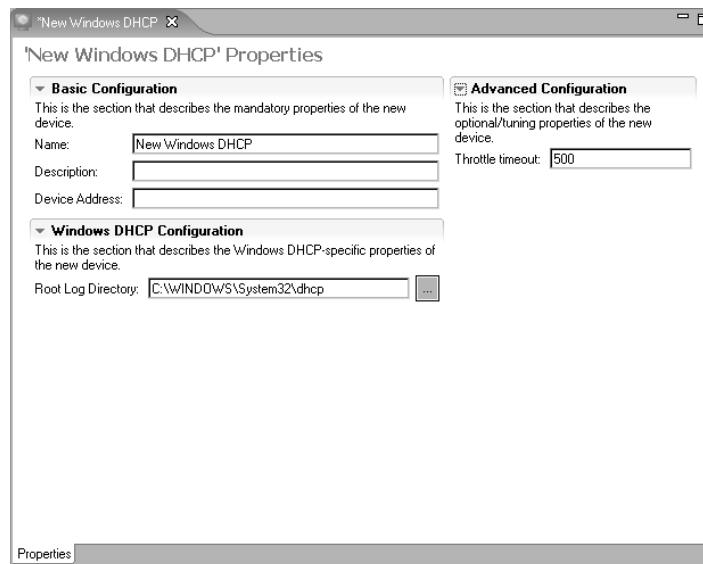
- **Poll Interval** — Specify the remote poll interval enter a value, in milliseconds. The default is 5000 milliseconds.

11

CONFIGURING THE MICROSOFT DHCP DEVICE

In the Microsoft Windows Server family, DHCP server log files use audit logging to permit log files to remain enabled without additional monitoring or administration. This allows you to manage log file growth or conserve disk resources.

This chapter provides information on configuring your Microsoft DHCP device using the Adaptive Log Exporter. For information on adding or managing a device, see [Chapter 4 Managing Devices](#).



Configure the **Root Log Directory** parameter, which is the location of the DHCP server log files. By default, the DHCP audit log files are located at %WINDIR%\system32\dhcp\DhcpSrvLog-xxx.log.

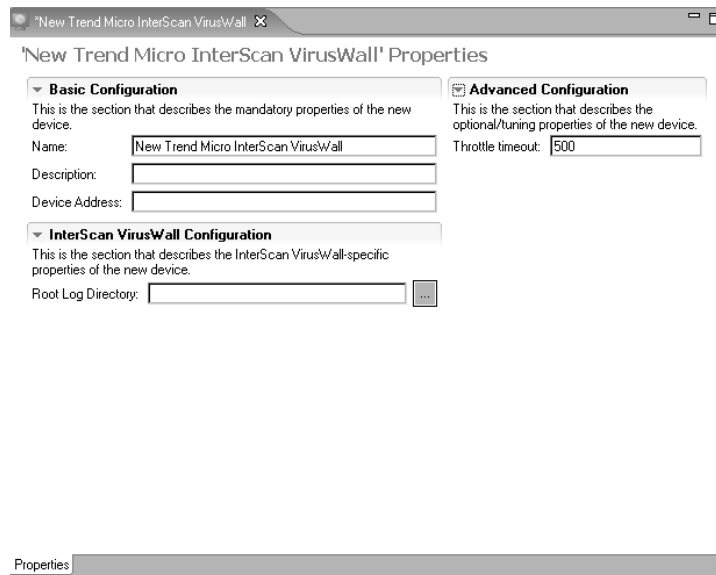
Once you configure your Microsoft DHCP device, make sure you restart the DHCP service to allow the Adaptive Log Exporter to communicate with your DHCP device.

12

CONFIGURING THE TREND MICRO INTERSCAN VIRUSWALL DEVICE

InterScan VirusWall (ISVW) 6 for Windows provides an all-in-one gateway, antivirus, anti-spam, and content management solution for your network. VirusWall's real-time scanning services for SMTP VirusWall, POP3, VirusWall, FTP VirusWall, and HTTP VirusWall monitors for security threats in e-mail, the Internet, and in file transfers to and from the local area network (LAN).

This chapter provides information on configuring your Trend Micro InterScan VirusWall device. For information on adding or managing a device, see [Chapter 4 Managing Devices](#).



Configure the **Root Log Directory** parameter, which is the location of the InterScan VirusWall log files. By default, the VirusWall log files are located in the <installation folder>\Log directory. The <installation folder> is the folder in which you installed your InterScan VirusWall device.

13

CONFIGURING THE MICROSOFT EXCHANGE SERVER DEVICE

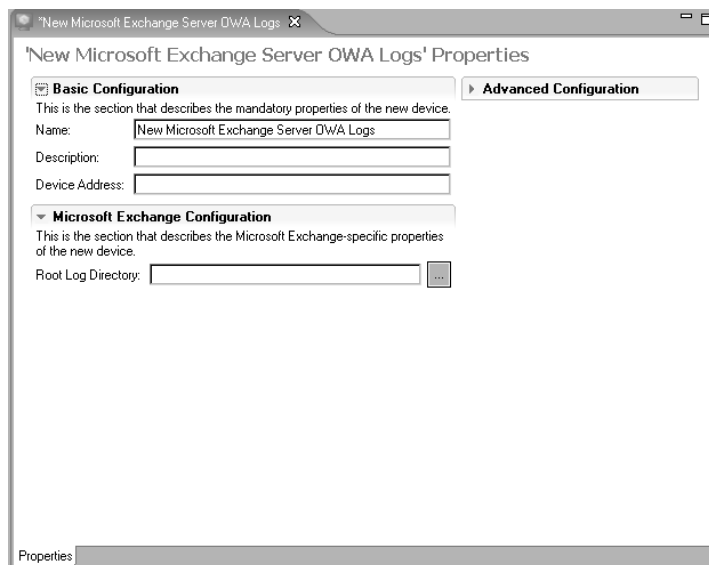
The Microsoft Exchange Server provides you with electronic mail, calendaring, contacts and tasks, and support for the mobile and web-based access to information, as well as supporting data storage. The Microsoft Exchange Server device allows you to forward Outlook Web Access (OWA) or SMTP logs to the Adaptive Log Exporter.

This chapter provides information on forwarding OWA or SMTP logs from your Microsoft Exchange Server using the Adaptive Log Exporter including:

- [Forwarding OWA Logs](#)
- [Forwarding SMTP Logs](#)

Forwarding OWA Logs

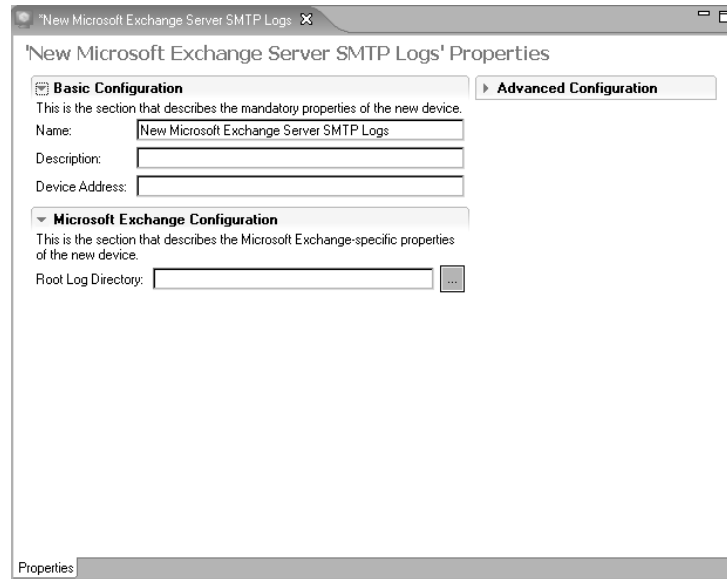
To forward OWA logs to the Adaptive Log Exporter, select the Microsoft Exchange Server OWA device. For information on adding or managing a device, see [Chapter 4 Managing Devices](#).



Configure the **Root Log Directory** parameter, which is the location of the Microsoft Exchange Server OWA log files. By default, the Exchange log files are located in the `%windir%\system32\LogFiles\W3SVC1\` directory.

Forwarding SMTP Logs

To forward SMTP logs to the Adaptive Log Exporter, select the Microsoft Exchange Server SMTP device. For information on adding or managing a device, see [Chapter 4 Managing Devices](#).



The screenshot shows a window titled "New Microsoft Exchange Server SMTP Logs" with a close button. The main area is titled "'New Microsoft Exchange Server SMTP Logs' Properties". It has two tabs: "Basic Configuration" (selected) and "Advanced Configuration".

Basic Configuration
This is the section that describes the mandatory properties of the new device.

Name:

Description:

Device Address:

Microsoft Exchange Configuration
This is the section that describes the Microsoft Exchange-specific properties of the new device.

Root Log Directory:

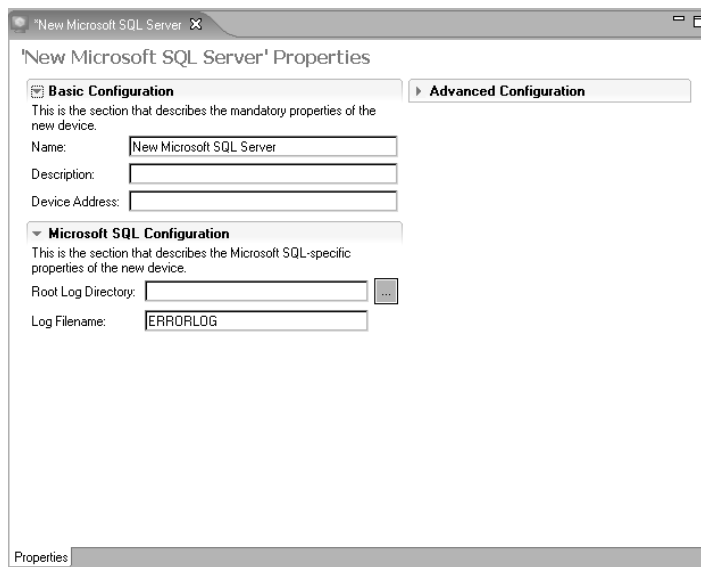
Properties

Configure the **Root Log Directory** parameter, which is the location of the Microsoft Exchange Server SMTP log files. By default, the Exchange log files are located in the `%windir%\system32\LogFiles\SMTPSVC1\` directory.

14

CONFIGURING THE MICROSOFT SQL SERVER DEVICE

Microsoft SQL Server is a comprehensive, integrated, end-to-end data solution that provides a platform for enterprise data and BI applications. This chapter provides information on configuring your Microsoft SQL Server device using the Adaptive Log Exporter. For information on adding or managing a device, see [Chapter 4 Managing Devices](#).



Enter values the following parameters:

- **Root Log Directory** — Specify the location of the Microsoft SQL Server log files. By default, the SQL log files are located in the `C:\Program Files\Microsoft SQL Server\MSSQL\LOG\` directory.
- **Log Filename** — Specify the name of the active log file. By default, the name is ERRORLOG. If this field is empty, the filename defaults to ERRORLOG.

The error log is a standard text file that contains SQL Server information and error messages. The error log can provide meaningful information to assist you in troubleshooting issues or alerting you to potential or existing problems. The error log output includes the time and date the message was logged, the source of the message, and the description of the message. If an error occurs, the log contains the error message number and description. Typically, SQL Server

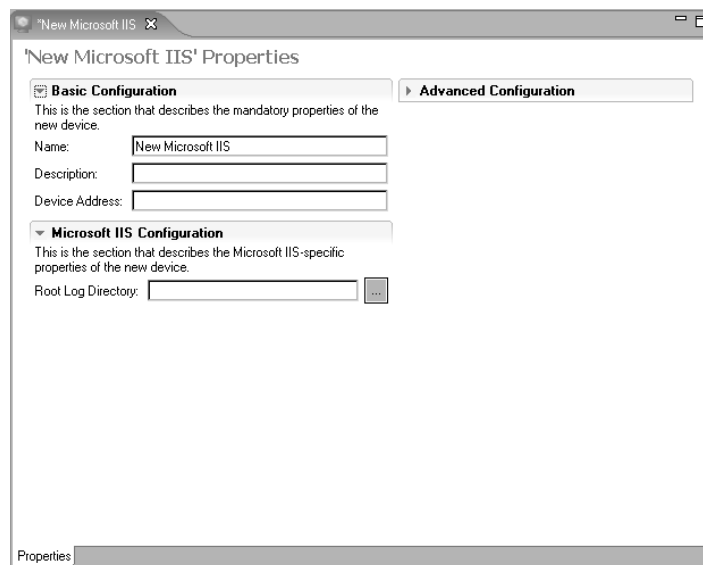
retains backups of the previous six logs and provides each backup with an accrued number appended to the end of the name. For example, the most recent log backup is saved with the extension .1 and the second most recent with the extension .2.

15

CONFIGURING THE MICROSOFT IIS DEVICE

Microsoft Internet Information Services (IIS) includes a broad range of administrative features for managing web sites. You can monitor attempts to access your sites, virtual folders, or files and determine whether attempts were made to read or write to your files. IIS log file formats allow you to record events independently for any site, virtual folder, or file. For more information regarding your Microsoft IIS device, see your vendor documentation.

This chapter provides information on configuring your Microsoft IIS server using the Adaptive Log Exporter. For information on adding or managing a device, see [Chapter 4 Managing Devices](#).



Configure the **Root Log Directory** parameter, which is the location of the Microsoft IIS log files. By default, the IIS log files are located in the `%windir%\System32\LogFiles\` directory.



Note: You can choose a format and enable logging for individual web sites and FTP sites. After you enable logging on a web or FTP site, all traffic to the site (including virtual directories) is written to the corresponding file for each site.

A

COLLECTING WINDOWS EVENT LOGS

This appendix provides information about monitoring event logs from Windows-based servers and hosts. Typically, you can monitor your event logs with or without an agent. The Adaptive Log Exporter is an independent application that runs on a Windows host, commonly referred to as an agent. The Adaptive Log Exporter collects local and remote Windows logs supporting each method of monitoring event logs.

If you choose to use an agent, you must physically install software on the host to be monitored. The host collects and exports the log information to the desired destination. An agent distributes log collection and processing across multiple systems, which reduces the performance impact on each host. If a server or network outage occurs, logging activity is only affected on the server or area of the network affected by the outage. However, maintaining an agent-based deployment may require additional maintenance. For example, if configuration changes are required, you must replicate the configuration changes across all monitored hosts.

If you choose not to use an agent, the log information must be exported or collected from the Windows system without software being installed on the individual monitored hosts. However, you must communicate with remote Windows systems using NETBIOS, which is a relatively slow method of communication. Therefore, monitoring several Windows hosts remotely may cause a significant performance impact for the host server. Communicating remotely also requires that the appropriate domain credentials are supplied to the host server, which may be considered a security risk.

This appendix includes:

- [Collecting Logs Without an Agent](#)
- [Collecting Logs With an Agent](#)
- [Configuring STRM To Accept Logs](#)

Collecting Logs Without an Agent

To collect logs without an agent, you must install the Adaptive Log Exporter in your network. The Adaptive Log Exporter allows you to connect to remote Windows systems to return logs to STRM.



Note: For more information on the Adaptive Log Exporter, see the *Adaptive Log Exporter Users Guide*.

The Adaptive Log Exporter collects logs from individual hosts and forwards data to your STRM appliance using a UDP syslog connection. Collecting logs without an agent simplifies maintenance and does not require you to install software on individual Windows hosts.

When collecting logs without an agent, the Adaptive Log Exporter monitors the network and if a network outage occurs, any missed events are automatically collected and processed by STRM when network connectivity is restored. When the network connection is lost, records are archived on individual hosts.

Figure A-1 shows an example of a network collecting logs without using an agent.

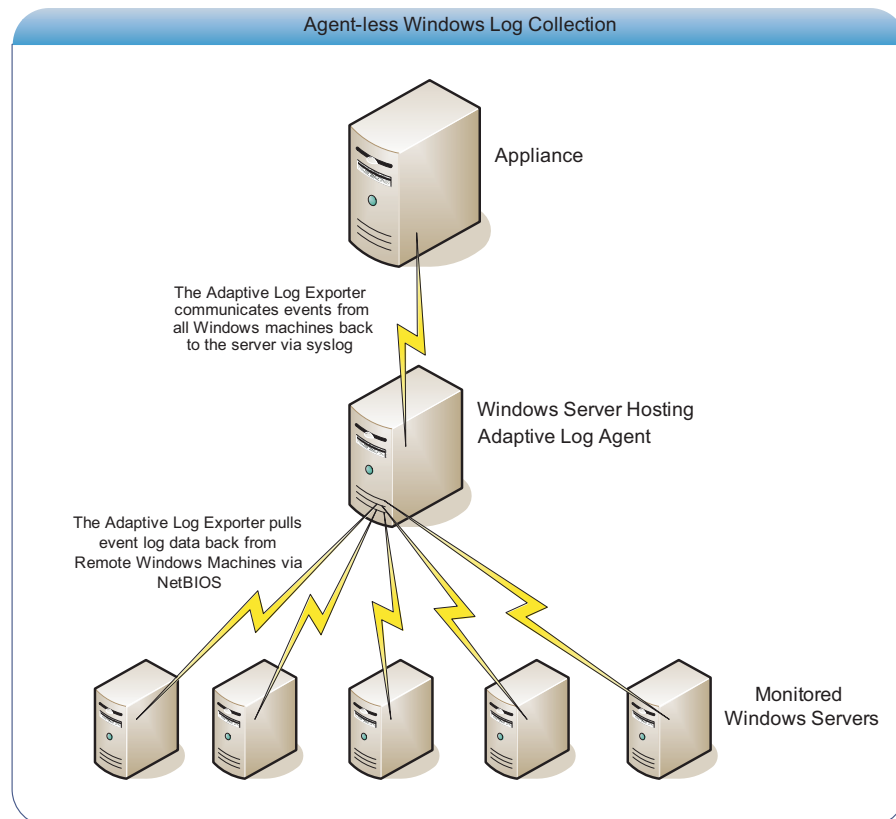


Figure A-1 Collecting Logs Without an Agent

Configuring the Adaptive Log Exporter

To configure the Adaptive Log Exporter to support a network without an agent:

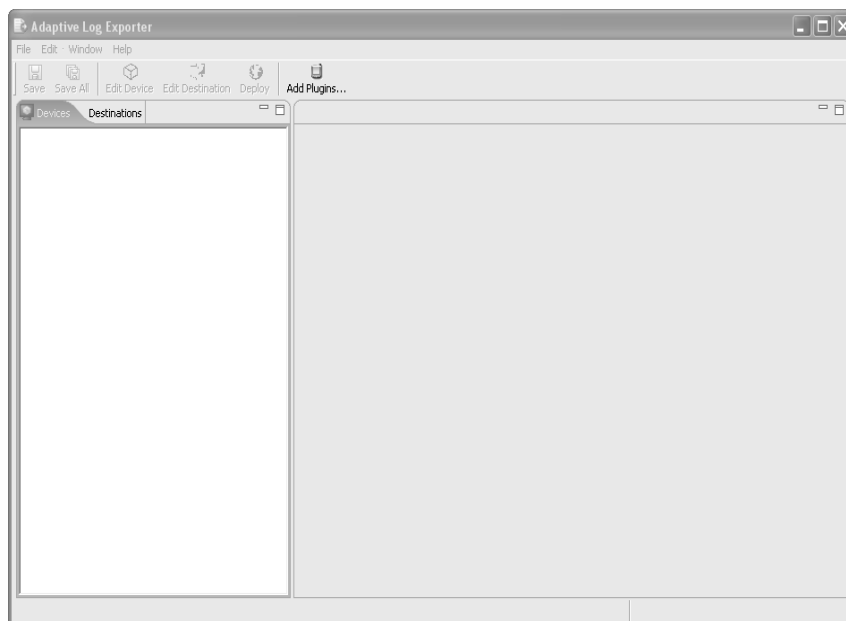
- Step 1** Download and install the Adaptive Log Exporter on the system you wish to host the Adaptive Log Exporter.

For detailed information on the Adaptive Log Exporter, see the *STRM Adaptive Log Exporter Users Guide*.

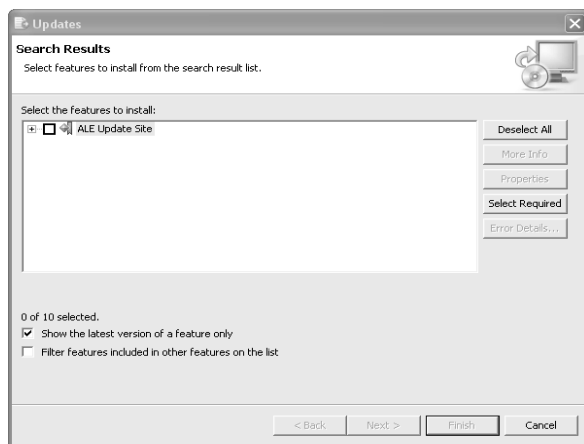
- Step 2** Download and install the Windows Event Log plug-in:

- a From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.

The Adaptive Log Exporter appears.



- b From the menu, select **Help > Software Updates > Add Extensions/Devices**.



- c Click the + sign to expand the menu tree.
The available devices appear.
- d Select the Windows Event Log plug-in.
- e Click **Next**.
The Feature License window appears.
- f Read the license associated with the selected device. To continue, you must select the **I accept the terms of the license agreement** option.
- g Click **Next**.
The Installation Window appears.



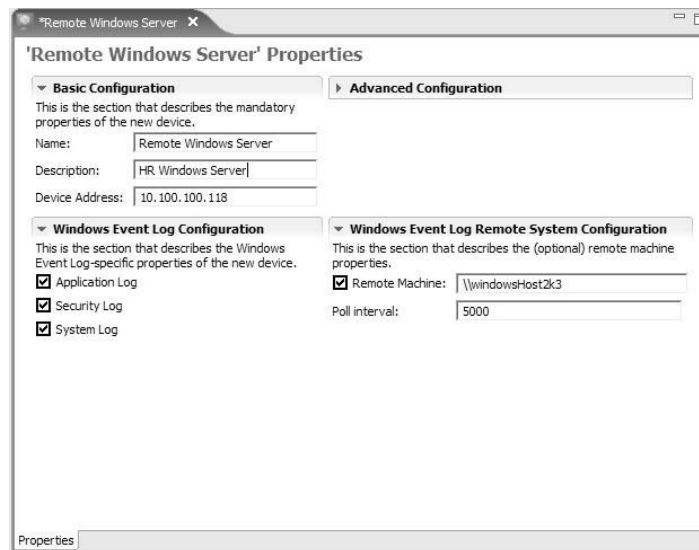
Note: You must install your devices to the default location. Therefore, do not change the *Install Location* for your devices.

- h Click **Finish**.
The Feature Verification window appears.
- i Click **Install All** to install all chosen devices.

Step 3 In the Adaptive Log Exporter, click the **Devices** tab.

Step 4 Using your right mouse button (right-click) the Windows Event Log and select **Add Device**.

A new instance of the device is created and the Properties panel appears.



Step 5 In the Basic Configuration area, enter values for the parameters:

- **Name** — Specify the name you wish to assign this device, composed only of alphanumeric characters and the underscore (_).
- **Description** — Specify a description for this device.
- **Device Address** — Specify the IP address or the hostname of the Windows system you wish to monitor.

Step 6 In the Windows Event Log Configuration area, enter values for the parameters:

- **Application Log** — Select the check box if you wish the device to monitor the application log.
- **Security Log** — Select the check box if you wish the device to monitor the security log.
- **System Log** — Select the check box if you wish the device to monitor the system log.

Step 7 In the Windows Event Log Remote System Configuration, enter values for the parameters:

- **Remote Machine**— Select the check box for the device to retrieve the logs from a remote machine. Enter the desired Universal Naming Convention (UNC) name. The entered string can be up to 255 characters in length. For example, \\tango123.
- **Poll Interval** — Specify the remote poll interval enter a value, in milliseconds. The default is 5000 milliseconds.

Collecting Logs With an Agent

To collect logs with an agent, you must install the Adaptive Log Exporter on each monitored host in your network. The Adaptive Log Exporter then reports, using syslog, to your STRM system. The agent reads the individual Windows event logs and passes information to STRM using syslog.



Note: For more information on the Adaptive Log Exporter, see the *STRM Adaptive Log Exporter Users Guide*.

Figure A-2 shows an example of a network collecting logs using an agent.

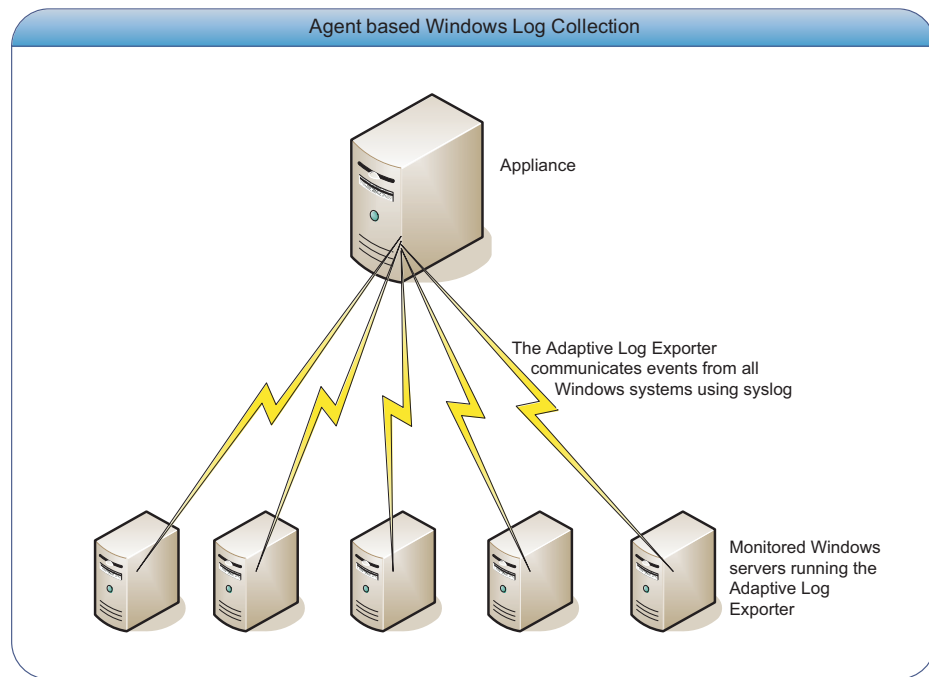
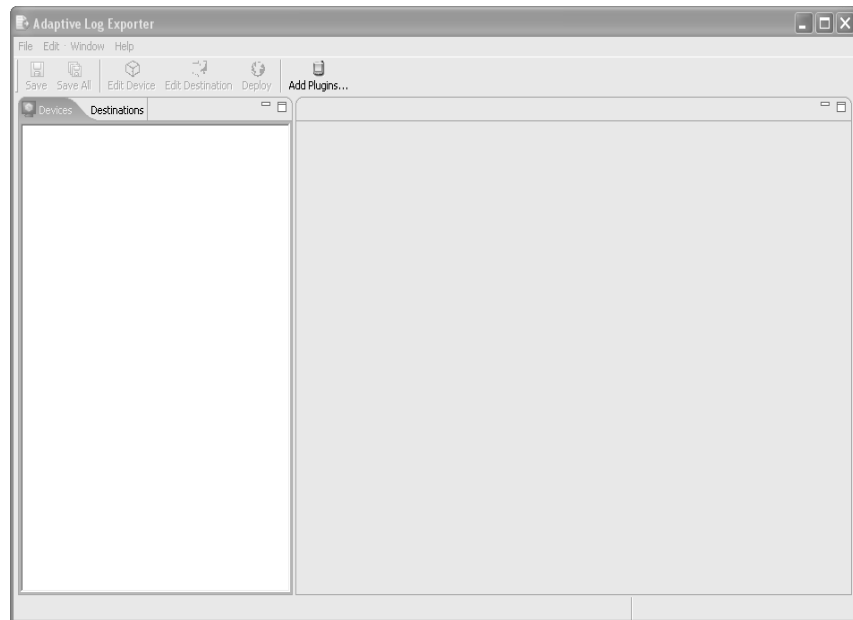


Figure A-2 Collecting Logs With an Agent

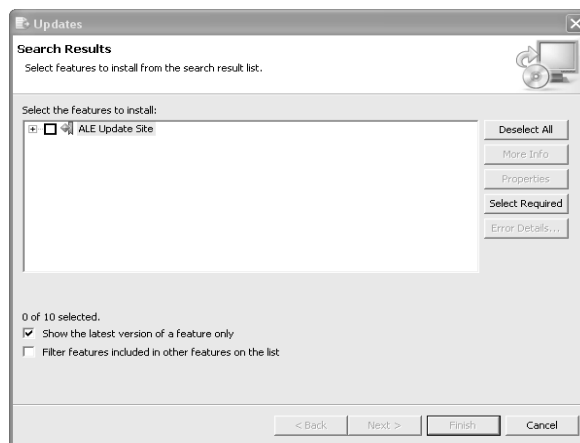
Configuring the Adaptive Log Exporter

To configure the Adaptive Log Exporter to support a network with an agent:

- Step 1 Download and install the Adaptive Log Exporter on the system you wish to host the Adaptive Log Exporter.
For more information on the Adaptive Log Exporter, see the *STRM Adaptive Log Exporter Users Guide*.
- Step 2 Download and install the Windows Event Log plug-in:
 - a From the Start menu, select **Start > Programs > AdaptiveLogExporter > Configure Adapter Log Exporter**.
The Adaptive Log Exporter appears.



- b From the menu, select **Help > Software Updates > Add Extensions/Devices**.



- c Click the + sign to expand the menu tree.
The available devices appear.
- d Select the Windows Event Log plug-in.
- e Click **Next**.
The Feature License window appears.
- f Read the license associated with the selected device. To continue, you must select the **I accept the terms of the license agreement** option.
- g Click **Next**.
The Installation Window appears.



Note: You must install your devices to the default location. Therefore, do not change the Install Location for your devices.

h Click **Finish**.

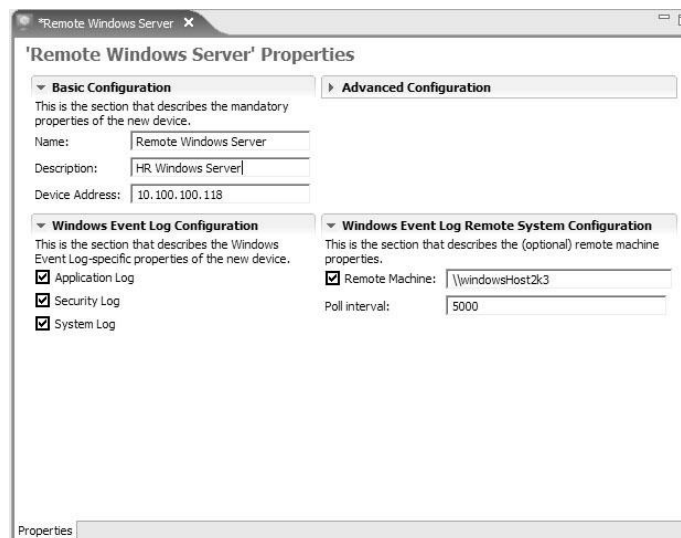
The Feature Verification window appears.

i Click **Install All** to install all chosen devices.

Step 3 In the Adaptive Log Exporter, click the **Devices** tab.

Step 4 Using your right mouse button (right-click) the Windows Event Log and select **Add Device**.

A new instance of the device is created and the Properties panel appears.



Step 5 In the Basic Configuration area, enter values for the parameters:

- **Name** — Specify the name you wish to assign this device, composed only of alphanumeric characters and the underscore (_).
- **Description** — Specify a description for this device.
- **Device Address** — Specify the IP address or the hostname of the Windows system you wish to monitor.

Step 6 In the Windows Event Log Configuration area, enter values for the parameters:

- **Application Log** — Select the check box if you wish the device to monitor the application log.
- **Security Log** — Select the check box if you wish the device to monitor the security log.
- **System Log** — Select the check box if you wish the device to monitor the system log.

Step 7 In the Windows Event Log Remote System Configuration, clear the Remote Machine check box so the device does not retrieve the logs from a remote system.

Step 8 Repeat [Step 4](#) to [Step 7](#) for each remote host you wish to monitor.

Configuring STRM To Accept Logs

Both methods of collecting logs (with or without an agent) results in information being transmitted to STRM using syslog. By default, STRM collects information forwarded using syslog through the device discovery function. STRM automatically recognizes and normalizes Windows event logs.

Once the system begins normalizing event data, STRM can analyze, report, and store the information. To verify that your Windows logs are being processed by STRM, use the Filter/Search function in the Event Viewer to filter on Windows Authorization devices. For more information on filtering using the Event Viewer, see the *STRM Users Guide*. The below window shows an example of data that results from a search.

ID	Date and Time	Source	User Name
1	2007-02-18 16:01:49	Auth Server Login Succeeded	save.bolan
7	2007-02-18 16:01:49	Host Logout	AJONWMOU2
4	2007-02-18 16:01:49	Host Login Succeeded	Q1DC01S
5	2007-02-18 16:01:49	System Status	Q1DC01S
2	2007-02-18 16:01:49	Host Login Succeeded	save.bolan
1	2007-02-18 16:01:45	Host Login Succeeded	Q1DC02S
2	2007-02-18 16:01:29	Host Logout	atom.frank
6	2007-02-18 16:01:27	Host Login Succeeded	atom.frank
1	2007-02-18 16:01:27	Host Login Succeeded	save.bolan
8	2007-02-18 16:01:27	Host Logout	Q11A07S
4	2007-02-18 16:01:27	Host Login Succeeded	Q1DC01S
9	2007-02-18 16:01:27	System Status	atom.frank

