Configuring Web (HTTP) and File Transfer (FTP) Traffic

After installation, by default your HTTP and FTP traffic is being scanned for viruses, worms and Trojans. Malware such as spyware and other grayware require a configuration change before they are detected. This chapter describes how to make these configuration updates, and includes the following sections:

Default Web and FTP Scanning Settings

Table 4-1 summarizes the Web and file transfer configuration settings, and the default values that are in operation after installation.

Table 4-1 Default Web and FTP scanning settings

Feature	Default Setting
Web (HTTP) scanning of file downloads	Enabled using All Scannable Files as the default scanning method
Webmail scanning	Configured to scan Webmail sites for Yahoo™, AOL™, MSN™, and Google™ by default
File transfer (FTP) scanning for file transfers	Enabled using All Scannable Files as the default scanning method

Table 4-1 Default Web and FTP scanning settings (continued)

Feature	Default Setting
Web (HTTP) compressed file handling for downloading from the Web, and File transfer (FTP) compressed file handling for file transfer from an FTP server	Configured to skip scanning of compressed files when: • Decompressed file count is greater than 200 • Decompressed file size exceeds 30 MB • Number of compression layers exceeds 3 • Decompressed/compressed file size ratio is greater than 100/1
Web (HTTP) and file transfer (FTP) large file handling (do not scan files larger than a specified size - enabled deferred scanning of files larger than a specified size)	Configured to skip scanning of files larger than 50 MB, and to enable deferred scanning of files larger than 2 MB
Web (HTTP) downloads, and file transfers (FTP) action for files in which malware is detected	Clean the download and/or file in which the malware was detected If uncleanable, delete
Web (HTTP) downloads, and file transfers (FTP) action for files in which spyware/grayware is detected	Files are deleted
Web (HTTP) downloads, and file transfers (FTP) notification when malware is detected	An inline notification is inserted in the user's browser, stating that InterScan for CSC SSM has scanned the file you are attempting to transfer, and has detected a security risk.

These default settings give you some protection for your Web and FTP traffic after you install Trend Micro InterScan for Cisco CSC SSM. You may change these settings; for example, you may prefer to use the **Scan by specified file extensions...** option rather than **All Scannable Files** for malware detection. Review the online help carefully for more information about these selections before making changes.

There are additional configuration settings that you may want to update post-installation to get the maximum protection for your Web and FTP traffic. These additional settings are described in the remaining pages of this chapter.

If you purchased the Plus License, which entitles you to receive URL blocking, anti-phishing, and URL filtering functionality, you must configure these features; they are not operable by default.

Downloading Large Files

The Target tabs on the HTTP Scanning and FTP Scanning windows allow you to define the size of the largest download you want scanned. For example, you might specify that a download under 20MB is scanned, but a download larger than 20 MB is not scanned.

In addition, you can:

- Specify whether to allow these unscanned large downloads to be delivered without scanning, which may introduce a security risk, or
- Specify that downloads greater than the specified limit are deleted

By default, the CSC SSM software specifies that files under 50 MB are scanned, and files 50MB and over are delivered without scanning to the requesting client.

Deferred Scanning

The deferred scanning feature is not enabled by default. This feature, when enabled, allows a user to begin downloading data without scanning the entire download. Deferred scanning thus allows a user to begin viewing the data without a prolonged wait while the entire body of information is scanned.

Caution When deferred scanning is enabled, the unscanned portion of the information can introduce a security risk.

If deferred scanning is not enabled, the entire content of the download must be scanned before it is presented to the user. However, some client software may timeout due to the time it takes to collect sufficient network packets to compose complete files for scanning.

To summarize:

Method	Advantage	Disadvantage
Deferred scanning enabled	Prevents client timeouts	May introduce a security risk
Deferred scanning disabled	Safer, the entire file is scanned for security risks before being presented to the user	May result in client timeouts before the download is complete

Scanning HTTPS Traffic

Traffic moving via HTTPS protocol cannot be scanned for viruses and other threats by the CSC SSM software.

Detecting Spyware/Grayware

Grayware is a category of software that may be legitimate, unwanted, or malicious. Unlike threats such as viruses, worms, and Trojans, grayware does not infect, replicate, or destroy data, but it may violate your privacy. Examples of grayware include spyware, adware, and remote access tools.

Spyware/grayware detection is *not* enabled by default. To begin detecting spyware and other forms of spyware and other grayware in your Web and file transfer traffic, configure this feature on the following windows:

- **Web (HTTP) > Scanning > HTTP Scanning/Target**
- **File Transfer (FTP) > Scanning > FTP Scanning/Target**

You can go directly to the Target tab of the HTTP Scanning window by clicking the Configure Web Scanning link on **Configuration > Trend Micro Content Security > Web** in ASDM. You can go directly to the Target tab of the FTP Scanning window by clicking the Configure File Scanning link on **Configuration > Trend Micro Content Security > File Transfer** in ASDM.

See the "Enabling SMTP & POP3 Spyware/Grayware Detection" section on page 3-3 for more information. Also see the online help for the above-mentioned windows.

Scanning Webmail

Caution If you elect to scan only Webmail, HTTP scanning is restricted to the sites specified on the Webmail Scanning tab of the **Web (HTTP) > Scanning > HTTP Scanning** window. Other HTTP traffic is *not* scanned.

As mentioned in Table 4-1, Webmail scanning for Yahoo, AOL, MSN, and Google are already configured by default. To add additional sites, click the Configure Web Scanning link on **Configuration > Trend Micro Content Security > Web** in ASDM. The Target tab of the **HTTP Scanning** window displays. Click the **Webmail Scanning** tab.

Enter the Webmail site in the **Name** field using:

- The exact Web site name
- A URL keyword
- A string

Note Attachments to messages that are managed via Webmail are scanned.

See the online help for more information about how to configure additional Webmail sites for scanning. Configured sites are scanned until you remove them from the **Scan Webmail at following sites** section of the window by clicking the trashcan icon. Click **Save** to update your configuration.

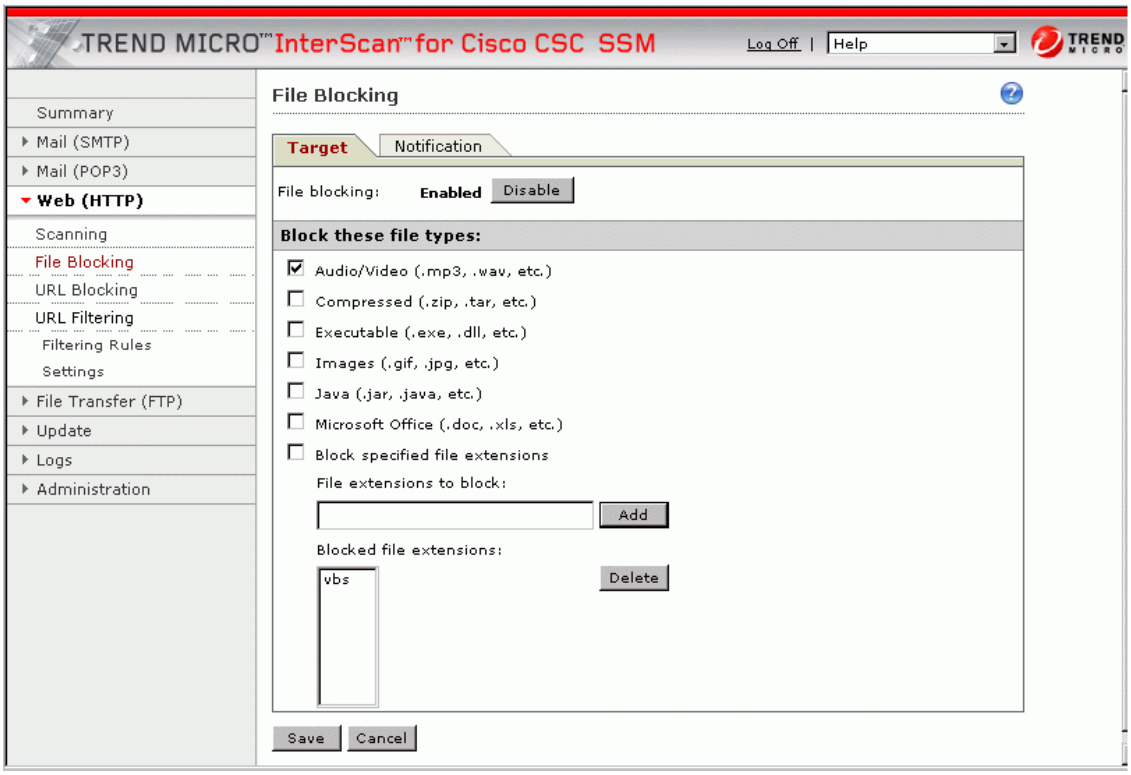
File Blocking

This feature is enabled by default, but doesn't block any files until you specify the types of files you want blocked. File blocking helps you enforce your organization's policies regarding the use of the Internet and other computing resources during work time. For example, suppose your company does not allow downloading of music, both because of legal issues as well as employee productivity issues.

To block downloads via HTTP protocol, click the Configure File Blocking link on **Configuration > Trend Micro Content Security > Web** in ASDM to display the **File Blocking** window. To block downloads via FTP protocol, click the Configure File Blocking link on **Configuration > Trend Micro Content Security > File Transfer** in ASDM. The **File Blocking** window is the sam e for both protocols.

On the **Target** tab of the **File Blocking** window, block transferring of music files by choosing Audio/Video, as shown in Figure 4-1.

Figure 4-1 Enable File Blocking



You can specify additional file types by file name extension. Click **Block specified file extensions** to enable this feature. Then, add additional file types in the **File extensions to block** field, and click **Add**. In the example, .vbs files are also blocked.

See the online help for more information about file blocking, and for information on deleting file extensions you no longer want to block.

Click the **Notifications** tab of the **File Blocking** window to view the default notification that displays in the user's browser/FTP client when a file blocking event is triggered. You can customize the text of these messages by highlighting and typing over the default message. An optional notification to the administrator is available for HTTP file-blocking events, but is turned off by default. Click **Send the following message...** check box to activate the notification.

Click **Save** when you are finished, to update your configuration.

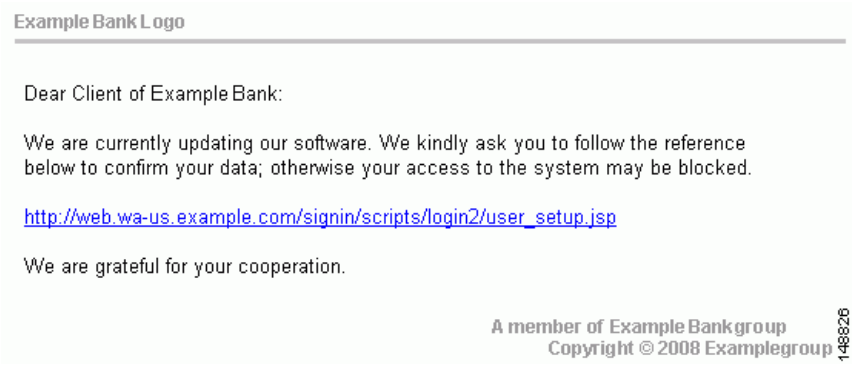
URL Blocking

Note This feature requires the Plus License.

The URL blocking feature helps you prevent employees from accessing prohibited websites. For example, suppose you want to block some sites because policies in your organization prohibit use of dating services, online shopping services, or viewing offensive sites.

You may also want to block sites that are known for perpetrating fraud, such as phishing. Phishing is a technique used by criminals who send email messages that *appear* to be from a legitimate organization, leading users into revealing private information such as bank account numbers. Figure 4-2 shows a common example of an email message used for phishing.

Figure 4-2 Example of Phishing



By default, URL blocking is enabled, but only sites in the TrendMicro PhishTrap pattern file are blocked, until you specify additional sites for blocking.

Blocking Via Local List

To configure URL blocking, perform the following steps:

Step 1 Click **Configure URL Blocking** on **Configuration > Trend Micro Content Security > Web** in ASDM to display the **URL Blocking** window.

Step 2 On the **Via Local List** tab of the **URL Blocking** window, type the URLs you want to block in the **Match** field. You can specify:

- The exact Web site name
- A URL keyword
- A string

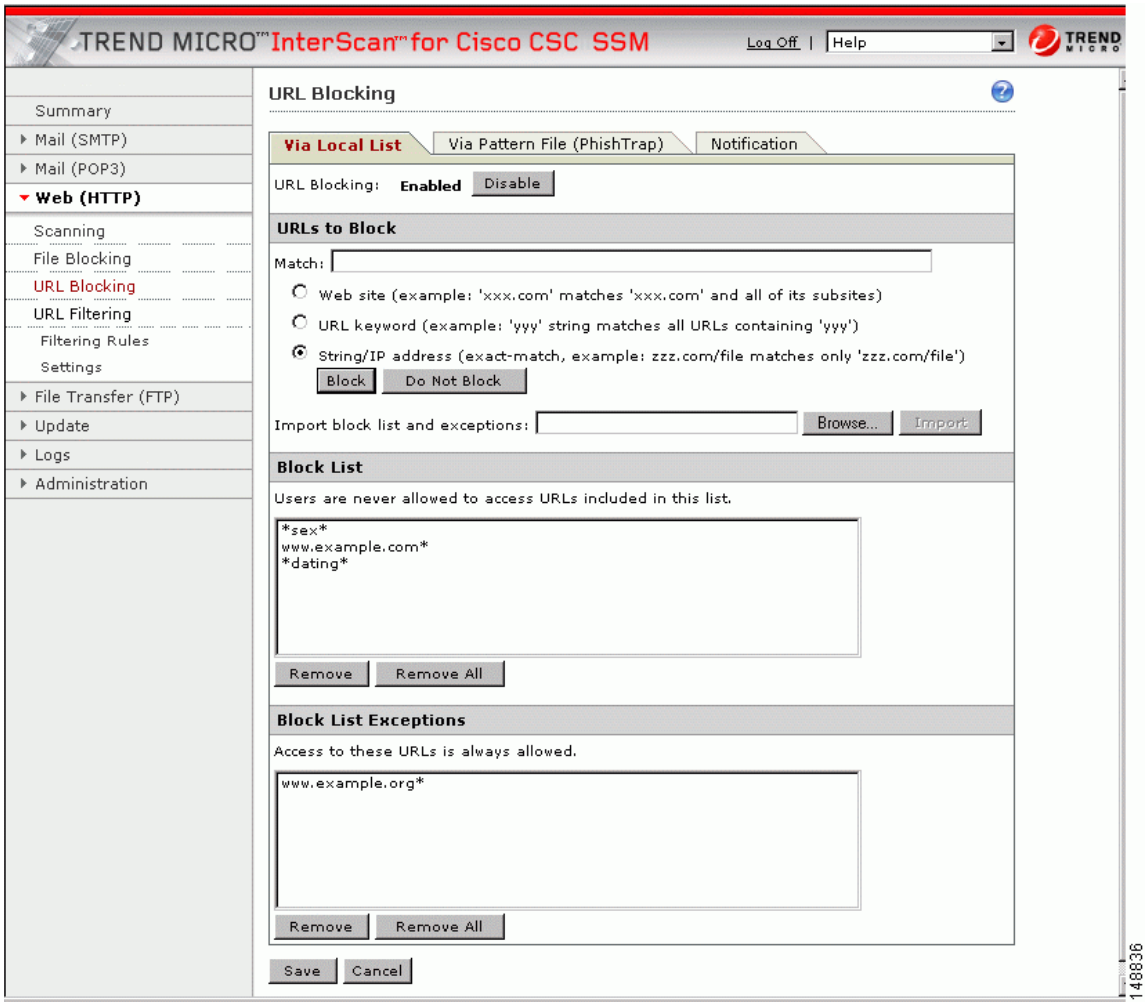
See the online help for more information about formatting entries in the **Match** field.

Step 3 Click **Block** after each entry, to move the URL to the **Block List**. To specify your entry as an exception, click **Do Not Block** to add the entry to **Block List Exceptions**. Entries remain as blocked or exceptions until you remove them.

Note You can also import a block and exception list. The imported file must be in a specific format. See the online help for instructions.

Figure 4-3 shows an example of the **URL Blocking** window (**Via Local List** tab) with some entries.

Figure 4-3 URL Blocking Window



Blocking Via Pattern File (PhishTrap)

Click the Configure URL Blocking link on **Configuration > Trend Micro Content Security > Web** in ASDM to display the **URL Blocking** window. Then click the **Via Pattern File (PhishTrap)** tab.

By default, the Trend Micro PhishTrap pattern file detects and blocks known phishing sites, spyware sites, virus accomplice sites (sites associated with known exploits), and disease vectors (websites that exist only for malicious purposes). Use the **Submit the Potential Phishing URL to TrendLabs** fields to submit sites that you suspect should be added to the PhishTrap pattern file. TrendLabs evaluates the site and may add the site if such action is warranted.

Click the **Notification** tab to review the text of the default message that appears in a user's browser when an attempt is made to access a blocked site. An example is shown in the online help. Customize the text by highlighting and typing over the default message.

Click **Save** when you are finished to update your configuration.

URL Filtering

Note This feature requires the Plus License.

URLs defined on the **URL Blocking** windows described previously are either always allowed or always disallowed. The URL filtering feature, however, allows you to configure URLs in categories, which you can schedule to allow during certain times (defined as leisure time) and disallow during work time.

There are six URL categories:

- Company-prohibited
- Not work related
- Research topics
- Business function
- Customer defined
- Others

By default, company-prohibited sites are blocked during both work and leisure time.

Filtering Settings

To configure the URL filtering feature, perform the following steps:

Step 1 Click **Configure URL Filtering Settings** on **Configuration > Trend Micro Content Security > Web** in ASDM to display the **URL Filtering Settings** window. On the URL Categories tab, review the sub-categories listed and the default classifications assigned to each category to see if the assignments are appropriate for your organization. For example, “Illegal Drugs” is a sub-category of the “Company-prohibited” category. If your organization is a financial services company, you may want to leave this category classified as company-prohibited. Simply click the **Illegal Drugs** check box to enable filtering for sites related to illegal drugs. However, if your organization is a law enforcement agency, you should probably reclassify the “Illegal Drugs” subcategory to the “Business function” category. See the online help for more information about reclassification.

Step 2 After you have reviewed and refined the sub-category classifications, enable all the sub-categories for which you want filtering performed by choosing the sub-category check box.

Step 3 If there are sites within some of the enabled sub-categories that you do not want filtered, click the **URL Filtering Exceptions** tab. Type the URLs you want to exclude from filtering in the **Match** field. You can specify:

- The exact Web site name
- A URL keyword
- A string

See the online help for more information about formatting entries in the **Match** field.

Step 4 Click **Add** after each entry, to move the URL to the **Do Not Filter the Following Sites** list. Entries remain as exceptions until you remove them.

Note You can also import an exception list. The imported file must be in a specific format. See the online help for instructions.

Step 5 Click the **Schedule** tab to define the days of the week and hours of the day that should be considered work time. Time not designated as work time is automatically designated as leisure time.

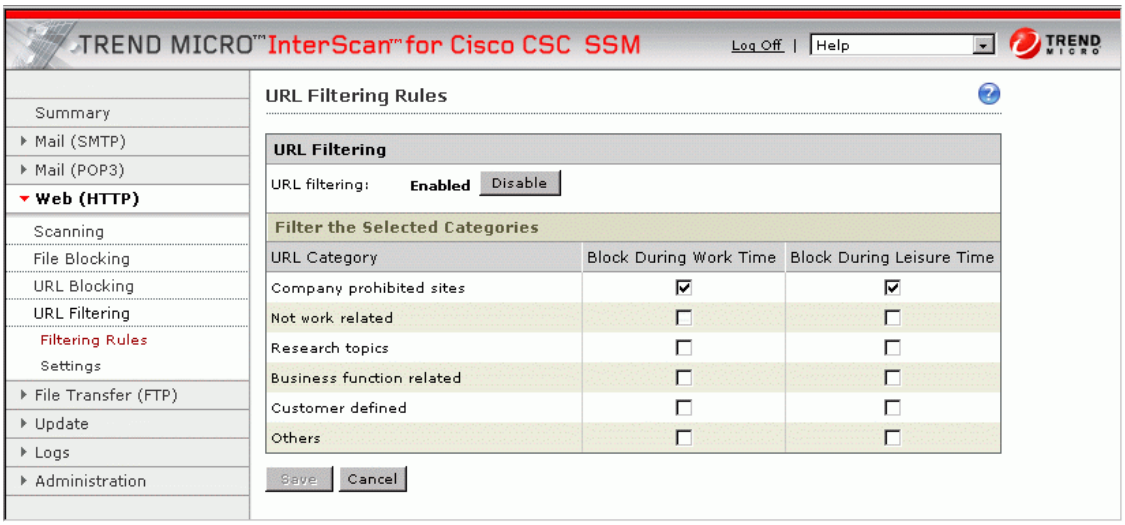
Step 6 Click **Save** to update your URL filtering configuration.

Click the **Reclassify URL** tab to submit questionable URLs to TrendLabs for evaluation.

Filtering Rules

Now that you have assigned your URL sub-categories to categories appropriate for your organization, defined exceptions (if any), and created the work/leisure time schedule, assign the filtering rules that determine when a category is filtering. Click the Configure URL Filtering Rules link on **Configuration > Trend Micro Content Security > Web** in ASDM to display the **URL Filtering Rules** window, shown in Figure 4-4.

Figure 4-4 URL Filtering Rules Window



For each of the six major categories, specify whether the URLs in that category are blocked, and if so, during work time, leisure time, or both. See the online help for more information. Click **Save** to update your configuration.