



Installation Guide Supplement

for use with

Integrated Citrix[®] Servers

Websense[®] Web Security
Websense Web Filter

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Citrix Integration

This supplement to the Websense Web Security and Websense Web Filter *Installation Guide (Installation Guide)* provides information specific to integrating Websense software with Citrix[®] MetaFrame[®] Presentation Server, Presentation Server[™], or XenApp[™]. For general installation instructions, refer to the *Installation Guide*.



Note

In this supplement, the term *Citrix server* is used to refer to MetaFrame Presentation Server, Presentation Server, and XenApp collectively. If information or an instruction applies to one of these products only, it is referred to by name.

Integrating Websense software with a Citrix product involves the following components:

- ◆ **Websense Citrix Integration Service:** The Integration Service must be installed on each Citrix server to allow that server to communicate with Websense Filtering Service.
- ◆ **Websense Network Agent:** Manages Internet protocols that are not managed by your Citrix server integration. It can also detect HTTP network activity and instruct Filtering Service to log this information.



Note

If your Citrix server runs applications that use protocols other than HTTP, FTP, or SSL, Network Agent can apply protocol filtering to those applications based on a computer or network policy, or the Default policy. It cannot apply user- and group-based policies to protocol filtering of applications running on the Citrix server.

Supported Citrix versions

- ◆ XenApp 5.0 (Windows, 32-bit, only)
- ◆ Presentation Server 4.5 (Windows only)
- ◆ Presentation Server 4.0 (Windows only)
- ◆ MetaFrame Presentation Server 3.0 (Windows only)

**Note**

For Presentation Servers, Websense Citrix Integration Service supports Windows 2000 Server (32-bit) and Windows Server 2003 (32-bit).

For XenApp, the Citrix Integration Service supports Windows Server 2008 (x86) and Windows Server 2003 (32-bit).

Client computers

- ◆ To be filtered by Websense software, Citrix client computers must access the Internet through a Citrix server.
- ◆ Non-Citrix clients in the network also may be filtered by the same installation of Websense software. This instance can be either stand-alone or integrated with another product. See [Chapter 2: Combining Citrix with Another Integration](#) for more information.

Filtering Citrix server users

Websense software integrated with a Citrix server can monitor individual Citrix users for HTTP, HTTPS, FTP, and SSL. Network Agent can be used to filter other protocols, based on policies set for the server.

The machines running as Citrix servers communicate with Websense Filtering Service using a Websense component called the Citrix Integration Service, which is installed on the Citrix server machine.

When Websense software is integrated with Citrix:

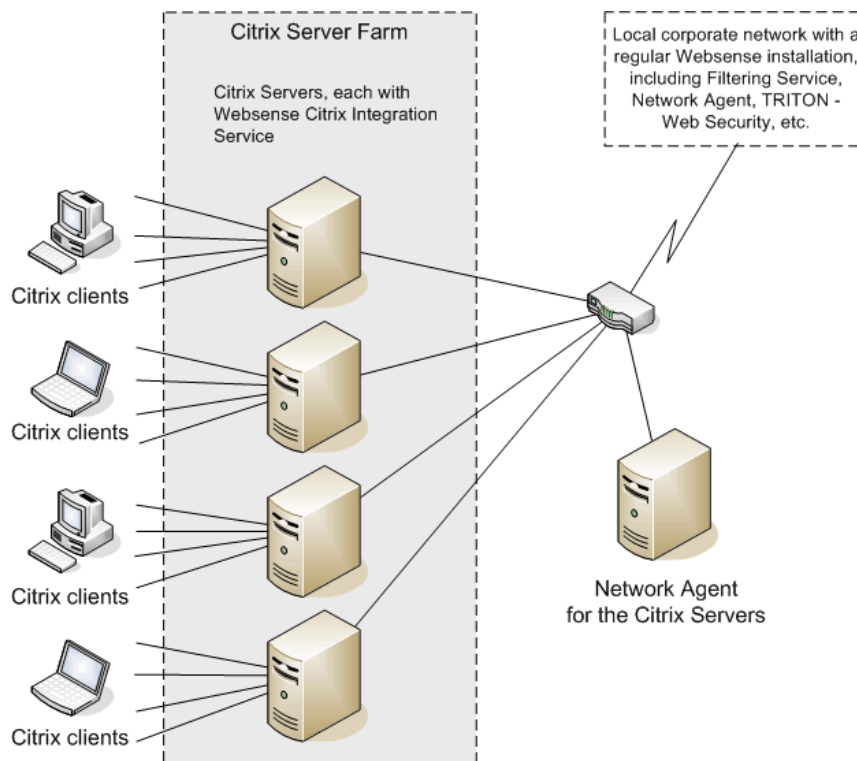
- ◆ A recommended maximum of 10 Citrix servers can be connected to one Filtering Service. This number can be configured and depends on the user load.
Multiple Filtering Services are needed if more than 15 Citrix servers are used, with each Citrix server handling about 20 to 30 Citrix users.
- ◆ The Filtering Service and Network Agent monitoring Citrix traffic should be installed on a dedicated machine, and not on a Citrix server.
- ◆ The Filtering Service and Network Agent monitoring Citrix traffic use the same Policy Broker, Policy Server, User Service, and other Websense components that are used to monitor non-Citrix traffic.
- ◆ Separate Network Agents must be used to monitor non-Citrix traffic.
- ◆ Do not configure a separate Websense integration to filter HTTP, HTTPS, FTP, or SSL requests from Citrix servers.

- ◆ If you want to use Network Agent to filter protocol traffic from the Citrix Servers:
 - Network Agent must be located where it can see all of the traffic between the Citrix servers and the Filtering Service instances. For example, the machine running Network Agent could be located on a span port on the same network switch as the machines running Filtering Service.
 - If the Citrix server is configured to use virtual IP addresses, configure Network Agent to monitor the entire range of the IP addresses. Also, a single policy should be set for this range. See the Network Configuration topic in TRITON - Web Security Help for instructions on configuring IP ranges for Network Agent.
 - If you are running Websense software in stand-alone mode, a separate instance of Network Agent must be installed to monitor users of the Citrix servers. Do not monitor non-Citrix traffic with this Network Agent.

While Network Agent can be used to filter protocols for Citrix, user-based and group-based policies cannot be applied. Policies can be applied to individual computers and network ranges, identified by IP addresses or IP address ranges. Otherwise, the Default policy is applied to all users.

Also, Network Agents monitoring non-Citrix traffic (users who access the Internet without going through a Citrix server) must not be used to monitor Citrix traffic.

This diagram shows a typical deployment to filter users who access the Internet through a Citrix server. To simplify the diagram, not all individual Websense components are shown.



Typical Citrix Integration

The main Websense filtering components are installed on a separate, dedicated machine that can communicate with all of the Citrix server machines, and non-Citrix users, if applicable. The Websense Citrix Integration Service must be installed on each Citrix server to allow it to communicate with Filtering Service. No other Websense components should be installed on the Citrix server machines.

Filtering both Citrix and non-Citrix users

If your network includes some users who access the Internet via a Citrix server, and others who access the Internet through another gateway (firewall, caching appliance, or proxy server), the integrations can be configured to work together.

- ◆ To install the Citrix Integration Service on a Citrix Server, see [page 9](#).
- ◆ If you have Citrix users and non-Citrix users in your network, the same Websense components, except for Network Agent, can be used for both sets of users. A separate installation of Network Agent is needed for the Citrix users. See [Installing Websense software to integrate with Citrix, page 8](#), for instructions.
- ◆ To install Websense software for non-Citrix users, refer to the *Installation Guide* and the supplement for the integration product, if applicable.
- ◆ To configure the Websense components installed with the non-Citrix integration to communicate with Citrix, refer to the section pertaining to your integration in [Chapter 2: Combining Citrix with Another Integration](#).

Installation

Most Websense components must be installed on a separate machine from the Citrix server. Only the Citrix Integration Service is installed on each Citrix server machine.

If Websense will be filtering both Citrix and non-Citrix users, refer to [Chapter 2: Combining Citrix with Another Integration](#) after installing the Websense Citrix Integration Service.

Installing Websense software to integrate with Citrix

If you are installing Websense software in stand-alone mode, the Websense software must be installed before the Websense Citrix Integration Service is installed on the Citrix servers. Network Agent must be installed on a separate machine.

**Note**

Websense software (except for the Citrix Integration Service) must be installed on a separate machine from the Citrix machine.

Follow the installation instructions in the *Installation Guide* to install the Websense components you want. The steps below provide specific options to select or alternate instructions to be used as you follow the instructions in the *Installation Guide*. Unless

a specific option or alternative instruction is provided here, you should follow the steps as described in the *Installation Guide*.

1. Start the Websense installer, and follow the prompts.
See the *Installation Guide* for instructions on downloading and starting the installer.
2. On the **Installation Type** screen, select **Custom**.
3. On the **Custom Installation** screen, select **Policy Broker, Policy Server, Filtering Service, and User Service**, and any other Websense components you want to install. Do **not** select Network Agent.
See the *Deployment Guide* for Websense Web Security Solutions (*Deployment Guide*) for information about how to distribute Websense components in an installation.
4. On the **Integration Option** screen, select **Integrated with another application or device**.
5. On the **Select Integration** screen, select **Citrix**.
6. On the **Filtering Plug-In** screen, select only **no, install other selected Websense components, but not the plug-in** (but not **Yes, install the plug-in on this machine**). See the *Installation Guide* for explanations of these options.
7. Follow the remaining installer prompts to complete the installation.
See the *Installation Guide* for instructions on the prompts.
8. On a separate machine, start the Websense installer again.
Copy or download the installer to this machine. See the *Installation Guide* for instructions on downloading and starting the installer.
9. On the **Installation Type** screen, select **Custom**.
10. On the **Custom Installation** screen, select **Network Agent** as the component to install.
11. Follow the remaining installer prompts to complete the installation.
See the *Installation Guide* for instructions on the prompts.

Installing the Citrix Integration Service on a Citrix Server

After the Filtering Service is installed on a separate machine, the Citrix Integration Service must be installed on every Citrix server machine in your network that will be integrated with Websense software. The Citrix Integration Service can be installed only on Windows-based Presentation Servers or XenApp.



Important

For Presentation Servers, the Citrix Integration Service does not support Windows Server 2008. If you attempt to install it on this operating system, the installation will be unsuccessful, and users cannot be filtered.

For XenApp, the Citrix Integration Service does support Windows Server 2008 (x86).

1. Log on with **local** administrator privileges to the machine running Citrix Presentation Server, MetaFrame Presentation Server, or XenApp.
2. Close all applications and stop any antivirus software.
3. Start the Websense installer (on the Citrix machine).
See the *Installation Guide* for instructions on downloading and starting the installer.
4. On the **Installation Type** screen, select **Custom**.
5. On the **Custom Installation** screen, select **Filtering Plug-in**.
The filtering plug-in, in this case, is the Websense Citrix Integration Service.
6. On the **Filtering Service Communication** screen, enter the IP address of the machine on which Filtering Service is installed and the port Filtering Service uses to communicate with integration products and Network Agent (default is 15868).

**Note**

The port used by Filtering Service to communicate with integration products and Network Agent must be in the range 1024-65535. Filtering Service may have been automatically configured to use a port other than the default 15868. When Filtering Service was installed, if the installation program finds the default port to be in use, it is automatically incremented until a free port is found. To determine what port is used by Filtering Service, check the `eimserver.ini` file—located in `C:\Program Files\Websense\bin (Windows)` or `/opt/Websense/bin (Linux)`—on the Filtering Service machine. In this file, look for the **WebsenseServerPort** value.

Important: Do not modify the `eimserver.ini` file.

7. On the **Select Integration** screen, select **Citrix**.
8. Follow the remaining installer prompts to complete the installation.
See the *Installation Guide* for instructions on the prompts.
9. If you stopped your antivirus software, be sure to start it again.

Repeat this procedure for each Citrix server in your server farm.

Configuring user access on Citrix servers

To allow Websense software to apply policies to individual users and groups defined in a directory service, you must configure user access for your published applications in Citrix. The procedure varies according to the Citrix version.

Citrix Presentation Server v4.0

User access is configured in the Citrix Publish Application wizard. See the Citrix documentation for more information on this wizard.

1. Log on to the Citrix server as an administrator.
2. Open the Publish Application wizard.
3. Go to the Specify Users screen.
4. Specify all users who can access the application so that they must log on with **domain** credentials.



Important

- ◆ Do **not** allow users to log on with local or administrative credentials.
 - ◆ Do **not** allow anonymous connections.
-

Citrix Presentation Server v4.5 and XenApp 5.0

Following is an overview of the procedure for configuring user access in Citrix Presentation Server v4.5. For XenApp 5.0, the process is similar. See Citrix documentation for more information on this wizard.

1. Log on to the Citrix server Access Management Console as an administrator.
2. Select **Applications** in the left navigation pane, or select a particular application you have published.
3. Under **Other Tasks**, select **Permissions**.
4. Click **Add** in the Permissions for folder “Applications” dialog box.
5. Click **Add** in the Add access to folder dialog box.
6. Select the computer or domain for adding users, and mark the **Show users** check box.
7. Select a user, and click **Add** to move that user into the Configured Accounts list.
8. Repeat step 7 to add other users to the Configured Accounts list.
9. Click **OK** twice to save the newly added users.

If you need to change the permissions for a user, use the Edit button in the Permissions for folder “Applications” dialog box.



Important

- ◆ Do **not** allow users to log on with local or administrative credentials.
 - ◆ Do **not** allow anonymous connections.
-

Initial Setup

- ◆ You can configure how Internet requests from Citrix clients are handled when Filtering Service is unavailable. See *Blocking Internet access when Filtering Service is unavailable*, page 12, for instructions.
- ◆ If the integrated Citrix server is configured to use virtual IP addresses, additional Websense configuration is required. See *Configuring for Citrix Virtual IP Addresses*, page 12, for instructions.

Blocking Internet access when Filtering Service is unavailable

If the Citrix Integration Service is unable to connect with Filtering Service, the Integration Service fails open by default. All Internet requests from users on Citrix client machines are permitted.

You can change this default setting so that all traffic is blocked when connectivity with Filtering Service is lost. To make this change, perform the following steps on each Citrix server machine running the Citrix Integration Service:

1. On the Citrix server machine, go to the Websense **bin** directory (C:\Program Files\Websense\bin, by default).
2. Open the **wscitrix.ini** file in a text editor.
3. Change the value of the **FailClosed** parameter to true.
If the Citrix Integration Service loses connectivity with the Filtering Service, all Internet requests are blocked.
4. Save your changes.
5. Restart the Citrix Integration Service in the Windows Services dialog box.

Configuring for Citrix Virtual IP Addresses

If an integrated Citrix server is configured to use virtual IP addresses, you must configure Network Agent to monitor the entire range of the IP addresses.

You should also set a single Websense filtering policy for this range of virtual IP addresses.

See the Network Configuration topic in TRITON - Web Security Help for instructions on adding and editing IP address ranges for Network Agent, and configuring policies for specific IP address ranges.

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Combining Citrix with Another Integration

Websense software can be set up to filter both Citrix and non-Citrix users. This chapter provides the instructions for configuring Websense software (deployed either as stand-alone or integrated with another integration product) to work with the Citrix integration product.

Combined integrations overview

Some configurations allow a single installation of Websense software in the same network to filter both Citrix users and non-Citrix users. Citrix users may be working from remote locations, while non-Citrix users may be located in the office where Websense software is installed.

Deployment scenarios

The corporate network (non-Citrix users) can access the Internet through an integration product, such as Cisco[®] PIX[®]; Check Point[®]; Microsoft[®] Internet Security and Acceleration (ISA) Server or Forefront TMG; or Network Agent (in a stand-alone deployment of Websense software, Network Agent serves in the place of an integration product). The integration product sends Internet requests to Websense software for filtering.

Citrix clients access the network through a Citrix Presentation Server, MetaFrame Presentation Server, or XenApp. Depending on the number of Citrix users, the access may be through one server, or through a server farm consisting of multiple Citrix servers. For more information on deploying Websense software with Citrix, see [Filtering Citrix server users, page 6](#).

Websense filtering is accomplished by installing the Websense Citrix Integration Service on each Citrix server. See [Installing the Citrix Integration Service on a Citrix Server, page 9](#), for instructions.

In lower volume networks, each Integration Service communicates with the same Filtering Service. The non-Citrix users can be pointed to the same instance of Filtering Service as the Integration Service.

Deploying with Network Agent

If Websense software is deployed as stand-alone, using Network Agent for filtering, separate instances of Network Agent are needed for the Citrix and non-Citrix users. See [Stand-Alone Websense software configuration, page 17](#), for configuration information.

Configuration

If Websense software is used to filter both Citrix users and users accessing the Internet through another integration product, the non-Citrix integration must be installed and running before integrating with the Citrix product.

1. Install Websense software as integrated with the non-Citrix integration product first.

See the *Installation Guide* supplement for your integration product for instructions.

2. Next, install the Websense Citrix Integration Service on each Citrix server. See [Installing the Citrix Integration Service on a Citrix Server, page 9](#), for instructions.

This component sends requests from Citrix clients to Filtering Service for filtering. Up to 10 Integration Services can be pointed to the same Filtering Service. If more than 10 Citrix servers are deployed, then additional Filtering Services can be used.

3. Configure the non-Citrix integration product, as described in this chapter, to ensure that requests coming from the Citrix clients are not filtered twice.

Installing Websense software to integrate with the non-Citrix product

Before the Citrix environment can be integrated, Websense software must have been installed integrated with the non-Citrix integration product. If an older version of Websense software is already installed, upgrade it first.

Websense software installed in stand-alone mode uses Websense Network Agent in place of a third-party integration product. For more information, see the *Installation Guide* and *Installation Guide* supplement for upgrading.

Installation and upgrade instructions for integrating Websense software with integration products are found in the *Installation Guide* supplement for each product.

Only the following integration products may be combined with a Citrix integration. This chapter provides the configuration steps needed to enable the non-Citrix and Citrix integrations to work together in the same network:

- ◆ Cisco PIX v6.3. See [Cisco PIX configuration, page 15](#).
- ◆ Check Point FireWall-1 NGX. See [Check Point FireWall-1 configuration, page 16](#).
- ◆ Microsoft Internet Security and Acceleration (ISA) Server 2006 or Forefront TMG. See [Microsoft ISA Server/Forefront TMG configuration, page 16](#).
- ◆ Network Agent (i.e., Websense software in stand-alone mode). See [Stand-Alone Websense software configuration, page 17](#).

Configuring the non-Citrix integration

Before the integrations can be used together, the non-Citrix integration must be set up to prevent Internet requests sent via the Citrix servers from being filtered twice.

A request from a Citrix client is passed to the Citrix server. The Citrix Integration Service sends the request to Filtering Service for filtering. The request is either blocked or permitted by Websense software. Simultaneously, the Citrix server sends the same request to the non-Citrix integration, which must be configured to allow the request to pass to the Internet without sending it to Websense software for filtering.

Cisco PIX configuration

Use a console or TELNET session to configure your Cisco PIX Firewall (security appliance). This configuration has been tested for Cisco PIX version 6.3 and later.

1. Access the security appliance and enter your password.
2. Put the security appliance into privilege EXEC mode by entering **enable**, followed by your enable password.
3. To activate the configure mode, enter **configure terminal**.



Note

For help with individual commands, enter **help** followed by the command. For example, **help filter** shows the complete syntax for the **filter** command, and explains each of the options.

4. Use the **filter url except** command with the IP address or addresses for the Citrix servers to disable the second filtering by Websense software of requests from Citrix users.
 - For a group of Citrix servers in a server farm, you can enter a range:
filter url except <IP address range>
 - For one or two Citrix servers, you can add the commands individually:
filter url except <internal IP address> <internal subnet mask>
<external IP address> <external subnet mask>

Here, the *internal IP address* and *subnet mask* refer to the Citrix server, and the *external IP address* and *subnet mask* are for a secondary machine, other than the PIX firewall, that is used for Internet access. The external settings are generally set to zero:

```
0.0.0.0 0.0.0.0.
```
5. Type **exit** to leave configure mode.

See Cisco's PIX documentation and Websense Web Security and Websense Web Filter *Installation Guide Supplement for use with Integrated Cisco Products* for more information on this integration.

Check Point FireWall-1 configuration

To configure Check Point FireWall-1 to work properly with a Citrix integration, you must define a rule on FireWall-1 to allow requests from the Citrix server to pass to the Internet without sending those requests to Websense software for filtering.

- ▶ Using the Firewall-1 SmartDashboard™ (or Policy Editor in older versions) add the Citrix Presentation Servers to the Allow Rule. Do **not** add the Presentation Servers to the Block rule.

See Check Point's FireWall-1 documentation and Websense's *Installation Guide Supplement for use with Integrated Check Point Products* for more information.

Microsoft ISA Server/Forefront TMG configuration

The Websense ISAPI plug-in must be set to ignore traffic from the Citrix servers. This configuration is done by adding the host name of each Citrix server to the **isa_ignore.txt** file on the Microsoft ISA Server/Forefront TMG (ISA/TMG) machine.

Also, ensure that none of the Citrix servers are set to use the ISA/TMG machine as a proxy server.

1. On the ISA/TMG machine, go to the **WINDOWS\system32** directory and open the **isa_ignore.txt** file in a text editor.

**Note**

The default **isa_ignore.txt** file installed with Websense software contains the following URL:

url=http://ms_proxy_intra_array_auth_query/

Do not delete this URL. It is used by ISA/TMG machines in a CARP array for communication. This URL must be ignored by Websense software to allow filtering and logging to work properly when multiple ISA Servers are deployed in an array.

2. Enter the host name for each Citrix server on its own line in the **isa_ignore.txt** file.

**Important**

You must enter each host name in the exact same format that ISA/TMG passes it to Filtering Service.

Use the following format: **hostname=<host_name>**

Replace *<host_name>* with the name of the Citrix server machine.

3. Restart the ISA/TMG machine.

See Microsoft's ISAPI documentation and Websense's *Installation Guide Supplement for use with Integrated Microsoft® Products* for more information.

Stand-Alone Websense software configuration

If Websense software is running in stand-alone mode, separate instances of Network Agent must be installed to filter Citrix and non-Citrix users. The Network Agent monitoring non-Citrix users must be set to ignore the Citrix servers. This configuration allows protocol filtering of both Citrix and non-Citrix requests.

1. Open TRITON - Web Security, and go to **Settings > Network Agent**.
2. In the left navigation pane, select the IP address of the NIC used for monitoring Internet requests to open its Local Settings page.
3. Under **Monitor List Exceptions**, add each Citrix server that Network Agent should exclude from monitoring.
 - a. To identify a machine, click **Add**, and then enter the Citrix server's IP address, or a range of IP addresses for a group of Citrix servers in a server farm. Then, click **OK**.
 - b. Repeat this process until all Citrix servers have been added, either individually or as part of a range.
4. Click **OK** to cache your changes and return to the NIC Settings page. Changes are not implemented until you click **Save All**.

See the Network Agent section under the Network Configuration topic in TRITON - Web Security Help for instructions on configuring NIC settings.

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