TREND MICRO™

ActiveUpdate Replication Server 1

User's Guide

The User's Guide for Trend Micro™ ActiveUpdate Replication Server is intended to introduce the main features of the software and installation instructions for your production environment. You should read through it prior to installing or using the software.

For technical support, please refer to Getting Support starting on page 5-1 for detailed support information and contact details.

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Introducing Trend Micro ActiveUpdate Replication Server

Trend Micro™ ActiveUpdate Replication Server (AURS) is designed to download ActiveUpdate update items from specified source servers and make them available for other AURS servers or Trend Micro products that may be located in closed environments. After AURS downloads the latest update items, it is considered *synchronized* with the source server. In addition, after AURS has downloaded the latest update items, it can export these allowing other AURS servers to import them.

This chapter includes the following sections:

- *System Requirements* on page 1-3
- *Installing ActiveUpdate Replication Server* on page 1-5
- *Upgrading Trend Micro ActiveUpdate Replication Server* on page 1-10

At the root of Trend Micro antivirus products is both a scan engine and a comprehensive database of virus "signatures," commonly called the virus pattern file. Together, these components do the work of identifying and then cleaning infected files. In ActiveUpdate Replication Server documentation these and other similar components, as well as program updates, are referred to as *update items*.

With AURS you can download these update items from Trend Micro ActiveUpdate servers or other ActiveUpdate Replication Servers to a local AURS server. This

allows other Trend Micro products to obtain these update items without having to download them from Trend Micro ActiveUpdate Servers or other servers residing on external networks.

ActiveUpdate Replication Server is particularly useful for Trend Micro products that reside in environments that don't allow access to other networks or the Internet. AURS is designed to allow products in closed environments to obtain these update items and help keep them current.
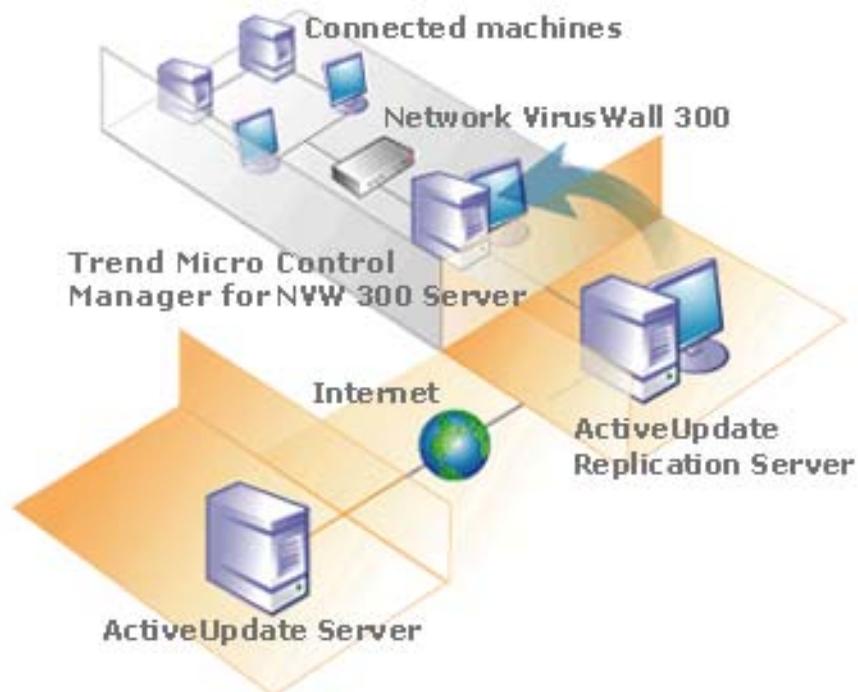
FIGURE 1-1. ActiveUpdate Replication Server concept diagram

In Figure 1.1, ActiveUpdate Replication Server is the only machine that can connect to the Internet and can directly download update items from Trend Micro ActiveUpdate Server. After downloading the most current update items from the source server (in this diagram the ActiveUpdate Server), the ActiveUpdate

Replication Server is considered *synchronized* with the ActiveUpdate Server. Since Trend Micro Network VirusWall 300 and Trend Micro Control Manager (TMCM) for Network VirusWall 300 are located in a closed environment, they cannot access the ActiveUpdate Server and need to obtain the update items via the ActiveUpdate Replication Server.

AURS also supports exporting and importing these update items to and from other AURS servers, allowing AURS servers and Trend Micro products in closed environments to obtain these update items.

ActiveUpdate Replication Server features include:

- An HTTP-based ActiveUpdate server that allows clients to update. Uniform Naming Convention (UNC) is also supported

- Manual or scheduled synchronization of local servers with Trend Micro ActiveUpdate servers or other ActiveUpdate Replication Servers

- Related Server List management

- Configurable Item List for synchronization

- Export and import functionality (the update items on one ActiveUpdate Replication Server can be exported to a single package, and imported by other ActiveUpdate Replication Servers)

- Notify administrators via email when new components are available or when critical events have occurred (for example, the service is unavailable)

- Support for digital signature checking

System Requirements

This section describes both minimum system requirements and recommended system requirements.

Minimum system requirements

The following table lists the minimum (hardware and software) system requirements for ActiveUpdate Replication Server..

Component	Description
CPU	Intel™ Pentium™ III Processor 450MHz or equivalent
Memory	128MB
Disk space	• 3.5MB for AURS • 24.4MB for Apache HTTP Server • 100MB for storing updated items from Trend Micro ActiveUpdate servers (if the updated items are larger than 100MB, more space is needed)
Operating system	• Microsoft™ Windows™ Server 2000 • Windows XP Professional (Service Pack 1) • Windows 2000 Server or Advanced Server (Service Pack 3) • Windows NT 4.0 (Service Pack 6)
Web server	• Microsoft™ Internet Information Server (IIS) 6.0 (Optional) • Apache 2.0 (Optional) to support HTTP service
Others	Microsoft™ Internet Explorer 4.0 or later

TABLE 1-1.   Minimum System Requirements

Recommended system requirements

To obtain optimum ActiveUpdate Replication Server performance, install ActiveUpdate Replication Server on a machine with the following recommended system requirements. Both general and sizing recommendations are listed.

Item	Recommendation
File system	Windows NT File System (NTFS) partition
Network adapter	100Mbps, 32-bit. One designed for bus mastering, direct memory access (DMA)
Monitor	VGA monitor capable of 1024 x 768 resolution, with at least 256 colors

TABLE 1-2.   General Recommendations

Number of CPUs	CPU specifications	RAM	Disk Space
1	Intel™ Pentium™ III 500MHz	256 MB	500 MB

TABLE 1-3. Sizing Recommendations

Installing ActiveUpdate Replication Server

The following section describes how to install the ActiveUpdate Replication Server. Before installing, close all instances of Microsoft Management Console.

During installation AURS provides the option to allow the ActiveUpdate Replication Server to become an HTTP server. This lets other AURS servers obtain update items from that AURS server via HTTP similar to the way Trend Micro products obtain update items from the Trend Micro ActiveUpdate server. To support this functionality, you need a Web server (for example, Microsoft IIS or Apache) installed on the same server as AURS. If you do not have a Web server, the Apache HTTP Server setup program is also included in the AURS installation package and you can choose to install the Apache HTTP Server during the AURS installation process.

If you choose not to support this HTTP service, other AURS servers or Trend Micro products can only obtain update items from a UNC path.

The following procedures are listed for installing AURS:

• Without supporting HTTP service

• Support for HTTP service without existing Web server

• Support for HTTP service with existing Internet Information Server (IIS)

• Support for HTTP service with existing Apache Server

Detailed instructions about each procedure are provided in the following sections.

Installing Without Support for HTTP Service

This section contains the detailed procedure for installing ActiveUpdate Replication Server without support for HTTP service. If you choose this installation, other products or AURS servers can obtain update items from a UNC path on the newly installed AURS server.

To install AURS without support for HTTP service:

1. Locate the ActiveUpdate Replication Server installation program (setup.exe), and then double-click it. If you are installing from a Trend Micro Solutions CD, view the CD interface and click **Install**. The **Choose Setup Language** dialog box appears.

2. Select the language for installation in the **Language Selection** box.

Note: The language you choose will also be the language used on the AURS user interface.

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3. Click **OK**. The **Welcome** screen appears.

4. Click **Next**. The **License Agreement** screen appears.

5. Click **I accept the terms of the license agreement**, and then click **Next**. The **Check System Environment** screen appears and displays the following information:

    • Operating system

    • Windows installer

    • Internet Information Server

    • Apache server

6. Click **Next**. The **Activation Code** screen appears.

7. Type the Activation Code for ActiveUpdate Replication Server. If the ActiveUpdate Replication Server Activation Code has expired or has not been activated, major features, such as synchronization, will not function correctly.

8. Click **Next**. The **HTTP Support** screen appears.

9. Click **Next**. The **Choose Destination Location** screen appears. Click **Change** and choose a location to install ActiveUpdate Replication Server.

10. Click **Next**. The **Choose Data Location** screen appears. Click **Change** and choose a location to store ActiveUpdate Replication Server data files.

11. Click **Next**. The **Ready to Install the Program** screen appears.

12. Click **Install**.

13. Click **Finish** to complete installation.

Installing With Support for HTTP Service

This section contains the detailed procedures for installing ActiveUpdate Replication Server with support for HTTP service. It contains instructions for the following scenarios:

* No Existing Web Server
* Existing Web Server

If you choose this installation, other products or AURS servers can obtain update items from the newly installed AURS server via HTTP.

No Existing Web Server

Follow this procedure to install ActiveUpdate Replication Server if the server you want to install AURS on does not have an existing Web server. During the installation process, the setup program will also install an Apache server version 2.0.

To install AURS and support HTTP service without an existing Web server:

1. Locate the ActiveUpdate Replication Server installation program (setup.exe), and then double-click it. If you are installing from a Trend Micro Solutions CD, view the CD interface and click **Install**. The **Choose Setup Language** dialog box appears.

2. Select the language for installation in the **Language Selection** box.

Note: The language you choose will also be the language used on the AURS user interface.

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3. Click **OK**. The **Welcome** screen appears.

4. Click **Next**. The **License Agreement** screen appears.

5. Click **I accept the terms of the license agreement**, and then click **Next**. The **Check System Environment** screen appears and displays the following information:

* Operating system
* Windows installer
* Internet Information Server
* Apache server

6. Click **Next**. The **Activation Code** screen appears.

7. Type the Activation Code for ActiveUpdate Replication Server. If the ActiveUpdate Replication Server Activation Code has expired or has not been activated, major features, such as synchronization, will not function correctly.

8. Click **Next**. The **HTTP Support** screen appears.

9. Select the **Yes, I want to support HTTP service** check box to allow other AURS servers and Trend Micro products to access and obtain update items from this server connecting via HTTP.

10. Click **Next**. The **Choose Destination Location** screen appears. Click **Change** and choose a location to install ActiveUpdate Replication Server.

11. Click **Next**. The **Choose Data Location** screen appears. Click **Change** and choose a location to store ActiveUpdate Replication Server data files.

12. Click **Next**. The **Install Apache** screen appears.

13. Specify the following:
    - Network Domain- domain name where the server resides
    - Server Name- name of the server you are installing AURS on
    - Administrator's Email address
    - Apache HTTP service port

14. Click **Next**. The Apache installation program runs. The **Configure Server Type** screen appears. AURS uses the Apache HTTP server as the default ActiveUpdate Replication Server HTTP service.

15. Select the Apache HTTP service port.

16. Click **Next**. The **Ready to Install the Program** screen appears.

17. Click **Install**. ActiveUpdate Replication Server copies program and configuration. The **Setup Status** screen appears displaying installation progress. The **Finish** screen appears.

18. Click **Finish** to complete installation. The ActiveUpdate Replication Server icon appears in the system tray.

Existing Web Server

Follow this procedure to install ActiveUpdate Replication Server if the server you want to install AURS on already contains an existing IIS or Apache Web server.

ActiveUpdate Replication Server supports Internet Information Server (IIS) 6.0 and
Apache 2.0.

To install AURS and support HTTP Service with an existing Web server:

1. Locate the ActiveUpdate Replication Server installation program (setup.exe),
   and then double-click it. If you are installing from a Trend Micro Solutions CD,
   view the CD interface and click **Install**. The **Choose Setup Language** dialog
   box appears.

2. Select the language for installation in the **Language Selection** box.

Note: The language you choose will also be the language used on the AURS user
interface.

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3. Click **OK**. The **Welcome** screen appears.

4. Click **Next**. The **License Agreement** screen appears.

5. Click **I accept the terms of the license agreement**, and then click **Next**. The
   Check System Environment screen appears and displays the following
   information:
   - Operating system
   - Windows installer
   - Internet Information Server
   - Apache server

6. Click **Next**. The **Activation Code** screen appears.

7. Type the Activation Code for ActiveUpdate Replication Server. If the
   ActiveUpdate Replication Server Activation Code has expired or has not been
   activated, major features, such as synchronization, will not function correctly.

8. Click **Next**. The **HTTP Support** screen appears.

9. Select the **Yes, I want to support HTTP service** check box to allow other AURS
   servers and Trend Micro products to access and obtain update items from this
   server connecting via HTTP.

10. Click **Next**. The **Choose Destination Location** screen appears. Click **Change**
    and choose a location to install ActiveUpdate Replication Server or accept the
    default location.

11. Click **Next**. The **Choose Data Location** screen appears. Click **Change** and choose a location to store ActiveUpdate Replication Server update items or accept the default location.

12. Click **Next**. The **Configure Server Type** screen appears.

    • Existing IIS Web Server- AURS uses the Internet Information Server as the default ActiveUpdate Replication Server HTTP service.

    • Existing Apache Web Server- AURS uses the Apache Server as the default ActiveUpdate Replication Server HTTP service.

13. Click **Next**. The **Ready to Install the Program** screen appears. During installation, the setup program temporarily halts the Apache or IIS Web server HTTP service.

14. Click **Install**. ActiveUpdate Replication Server copies program and configuration files. The **Setup Status** screen appears displaying installation progress. The **Finish** screen appears.

15. Click **Finish** to complete installation. When installation finishes successfully the ActiveUpdate Replication Server icon appears in the system tray.

Upgrading Trend Micro ActiveUpdate Replication Server

The section describes how to upgrade ActiveUpdate Replication Server from a previous version to a newer one. ActiveUpdate Replication Server will preserve configuration settings from previous versions when you upgrade to a newer version.

The installation program will check for previous versions of ActiveUpdate Replication Server installed on your system, and provide the option to install, upgrade, or remove it according to version of the currently installed software and the version you are attempting to install.

Install type	Current Installed Version	Result
Upgrade.	Older.	Upgrade setup continues.

TABLE 1-4.   Installation types

Install type	Current Installed Version	Result
Legacy.	Newer.	Installation aborts.

TABLE 1-4.   Installation types

To upgrade AURS:

1. Locate and double-click the ActiveUpdate Replication Server installation program (setup.exe). If you are installing from a Trend Micro Solutions CD, view the CD interface and click **Install**.

2. Click **Next**. The setup program stops the ActiveUpdate Replication Server service, checks your system, and lists the following information about your local system:
   - Operating system
   - Windows Installer
   - Internet Information Server
   - Apache server

3. Click **Next**.

   If you have chosen not to support HTTP, the upgrade starts immediately.

   If you have chosen to support HTTP, the **Configure Server Type** screen appears. Do one of the following depending on the Web server installed:
   - If IIS is installed:
     - Click **Next**. ActiveUpdate Replication Server begins to perform the upgrade.
   - If Apache is installed:
     - **i.** Select the port used by Apache.
     - **ii.** Click **Next**. ActiveUpdate Replication Server begins to perform the upgrade.

4. The **Setup Status** screen appears. The screen displays the installation progress. The **Upgrade Complete** screen appears.

5. Click **Finish**.

Getting Started with Trend Micro ActiveUpdate Replication Server

The Trend Micro ActiveUpdate Replication Server (AURS) includes a simple-to-use user interface (console) for configuring AURS.

This chapter introduces the ActiveUpdate Replication Server user interface, as well as instructions for how to access the console and activate AURS:

Getting to Know ActiveUpdate Replication Server

The ActiveUpdate Replication Server console provides an easy-to-use interface to configure settings. This section introduces the AURS console which consists of the following elements:

- Main window: Displays the header, tabs, and main buttons
- Tabs: Provide access to ActiveUpdate Replication Server functions. Tabs include Job Monitor, Options, Server Info and Item Info
- Header: Displays the product name
- Main buttons:
    - OK– Saves the modification and exits the console
    - Cancel – Cancels the modification and exits the console
    - Apply – Saves the modification
    - About – Provides information about ActiveUpdate Replication Server

Accessing the ActiveUpdate Replication Server console

You must have local administrator privileges to access the AURS console. However, two users with administrator privileges cannot access the ActiveUpdate Replication Server console at the same time.

One typical scenario is the "switch user" mode of Windows XP. If one user (for example, User A) with administrator privileges has launched ActiveUpdate Replication Server Console and switched off, then switches on as another user (for example, User B) with administrator privileges, the ActiveUpdate Replication Server console will not function correctly. Only the user who logged in first with administrator privileges can control the ActiveUpdate Replication Server console.

There are multiple ways to access the ActiveUpdate Replication Server console.

To access the AURS console, do one of the following:

- Double-click the AURS system tray icon.
- Right-click the AURS system tray icon, and then click **Show ActiveUpdate Replication Server Console**

• Click **Start** > **Programs** > **Trend Micro** > **ActiveUpdate Replication Server** > **Trend Micro ActiveUpdate Replication Server Console**

The AURS console appears.
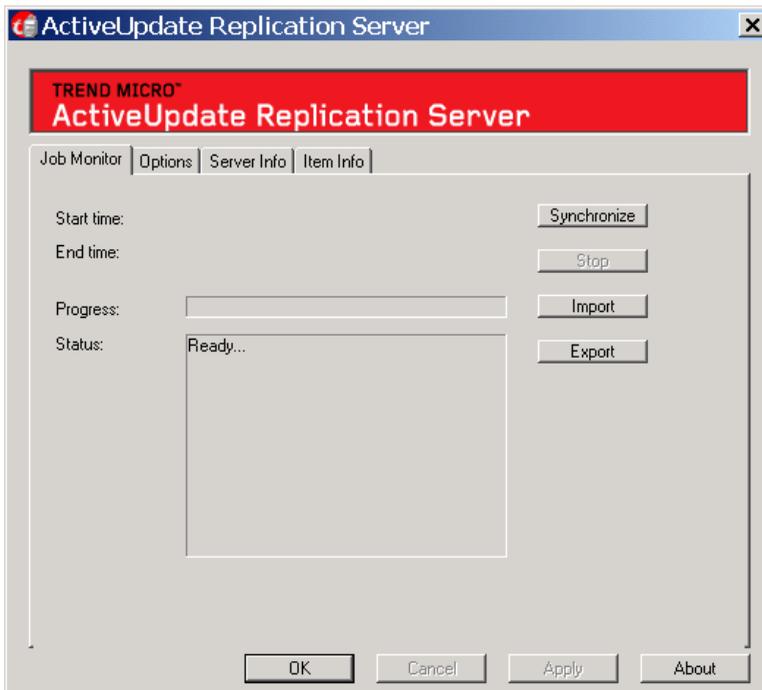
Using the System Tray Icon

After installation, the ActiveUpdate Replication Server system tray icon appears in the system tray.

2-3

The Trend Micro AURS system tray icon includes shortcut menu choices. Right-click the icon to display the menu. The menu contains the following:

- **Start/Stop ActiveUpdate Replication Server:** Starts or stops the server
- **Show ActiveUpdate Replication Server Console:** Displays the server console
- **Exit:** Hides the tray icon, and closes the server console

Starting and Stopping the Service

ActiveUpdate Replication Server installs and runs in the background as a Windows service. The default behavior is to start automatically with Windows. Use the AURS system tray icon to easily start or stop the AURS service.

**To start or stop the ActiveUpdate Replication service:**

1. Right-click the AURS icon.
2. Do one of the following:
   - To start the ActiveUpdate Replication Server, click **Start ActiveUpdate Replication Server**
   - To stop the ActiveUpdate Replication Server, click **Stop ActiveUpdate Replication Server**

Activating ActiveUpdate Replication Server

You need to activate ActiveUpdate Replication Server to take advantage of its full functionality. If you didn't type an Activation Code to activate AURS during installation, activate it by entering the Activation Code in the **Input New Activation Code** dialog box. This is accessed through the **About** box which also contains the version and build number of AURS.

To activate ActiveUpdate Replication Server:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).
2. Click **About** to display the **About** box. The **About** box appears.
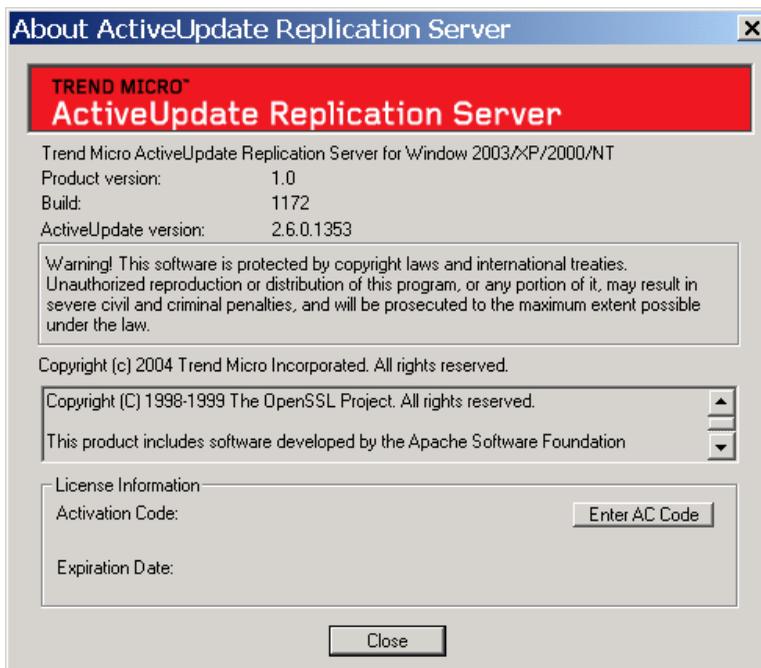
The **About** box provides the following information:

- Platform and version: operating system information, product version, build number, and the version of the ActiveUpdate module.
- Copyright: both Trend Micro and third-party copyright information.
- License information: license information, including Activation Code and Expiration Date.

3. Click **Enter AC Code**. The **Input New Activation Code** dialog box appears.

4. Type the Activation Code.

5. Click **OK**. A confirmation dialog box appears.

6. Click **OK**.

If the Activation Code is:

• Valid it is displayed on the **About** box. The expiration date is also displayed.

• Invalid, a message appears asking you to re-enter the Activation Code

If ActiveUpdate Replication Server:

• Has not been activated, the License Information section is blank. If the current date is later than the expiration date plus grace period, a warning message "expired" appears.

• Has expired or has not been activated, the major features, such as synchronization, will not function correctly.

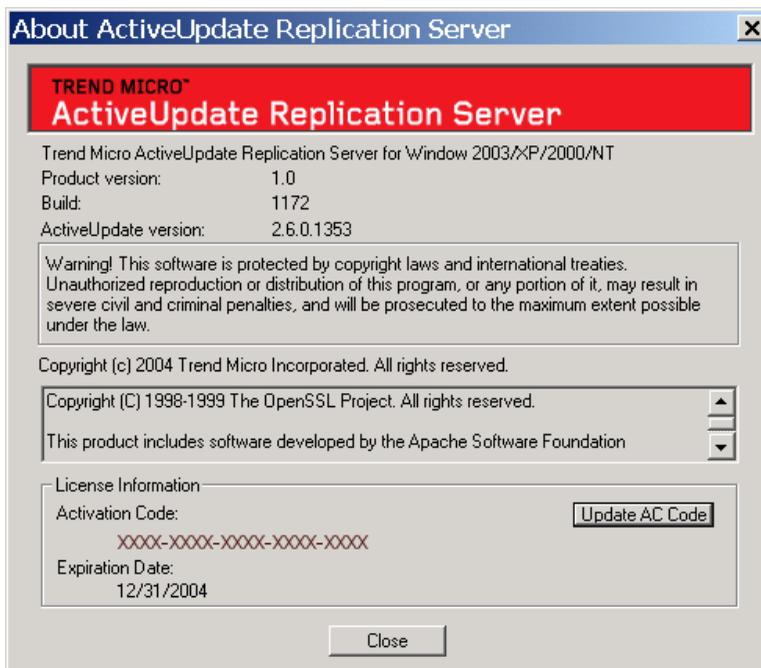• Has been activated, the **About** box may appear similar to the following:

FIGURE 2-1. **ActiveUpdate Replication Server About box**

Updating an Activation Code

Activation Codes expire after a certain amount of type has passed. Typically, the duration for an Activation Code is one year. After an Activation Code has expired you need to update it to continue using the full functionality of ActiveUpdate Replication server.

There are two ways to update an expired Activation Code:

- Directly entering an updated Activation Code
- Updating online

To update an Activation Code:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. Click **About** to display the **About** box. The **About** box appears.

3. Click **Update AC Code**. The **Update Activation Code** dialog box appears.

4. Do one of the following:

   • Click **Type a new Activation Code for ActiveUpdate Replication Server**

      i. Input new Activation Code

      ii. Click **OK**

   • Click **Update Online**

      i. To use a proxy server, select the **Use a proxy server** check box and provide the relevant information:

         • Proxy name or IP address – provides proxy name or IP address of the proxy server

         • Port – provides port of the proxy server

         • HTTP proxy – the proxy is HTTP server

         • SOCKS proxy – the proxy is SOCKS server

         • Proxy Authentication (if needed) – provides authentication information of the proxy server if needed:

            User name – account of the proxy server

            Password – password of the account

5. Click **OK**.

Using ActiveUpdate Replication Server

Use ActiveUpdate Replication Server to choose update items (for example, pattern files or scan engines), set the source server from which to download, and download the update items to the AURS computer. In addition, you can export or import update items to and from other ActiveUpdate Replication Servers.

AURS also allows you to set schedules to synchronize local AURS servers with source servers, as well as setting notifications to inform you when AURS servers have successfully synchronized.

This chapter includes the following sections:

Overview

While IT environments widely vary, the following figure illustrates the steps users need to take to use ActiveUpdate Replication Server for typical scenarios.
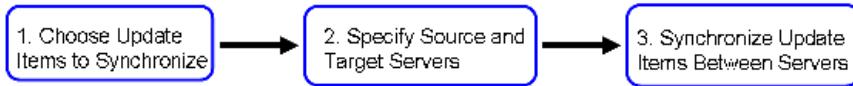

FIGURE 3-1.   Overview of steps for using AURS

As depicted in figure 3-1, steps for using AURS include the following:

Step 1.   Choose Update Items to Synchronize: choose the update items to download to the ActiveUpdate Replication Server. Examples of update items include, virus pattern files, scan engines, and program updates. See *Choosing Update Items to Synchronize* on page 3-3.

Step 2.   Specify Source Servers: next specify the server that contains the update items you need to download. See *Specifying Source Servers* on page 3-7.

Step 3.   Synchronize Update Items Between Source and Local Servers: Download the update items from the source servers to help ensure the local server contains the latest update items. See *Synchronizing Update Items Between Source and Local Servers* **on page 3-11**.

The following sections provide detailed information about each step in the process.

Choosing Update Items to Synchronize

FIGURE 3-2.   Choose update items to synchronize

Choose the update items you want the local AURS server to download from a specified source server. After AURS downloads these update items with the source server, other Trend Micro products or AURS servers can obtain these update items.

An update item has various class and type components. For each update item you can choose the class, and type. Classes and examples of types include the following:

- **Pattern**- This class is the most commonly updated. It includes various types including: Virus Pattern File, Network Virus Pattern File, Outbreak Prevention Policies, and others.
- **Scan Engine**- This class includes various types of updates to the scan engine depending on the operating system the product is running on. Types include: For Windows 9x, For Windows NT kernel, For NVW, and others.
- **Product**- This class refers to updates to specific products. After choosing the Product class, you also need to choose the actual product as the Type. In addition, you need to select the product language (for example, English or Traditional Chinese), and platform (operating system) that the product is running on.

In addition to adding specific update items, AURS allows you to add pre-defined groups of update items. Adding a group lets you quickly add related update items relevant for a specific Trend Micro product. For example, if you chose to add the Trend Micro Network VirusWall 300 group, the following update items are added.
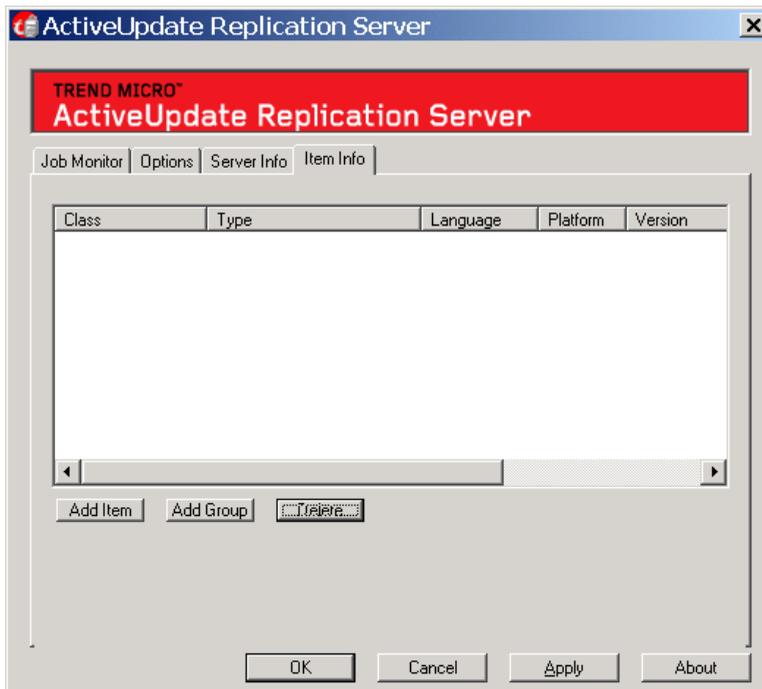
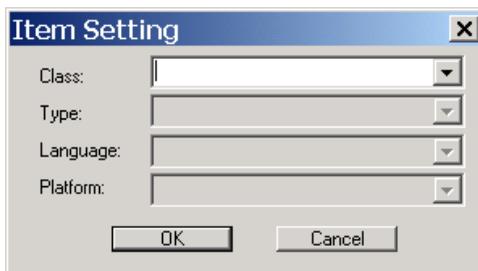| Class	Type	Language	Platform
Pattern	NVW Virus Pattern	n/a	n/a
Scan Engine	For NVW	n/a	n/a
Product	NVW 300	English	Win32

Adding an update item

Only update items on the Item List will be synchronized between the source and local AURS server. Follow these procedures to add an update item to the Item List.

To add an update item to the Item List:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. Click the **Item Info** tab.

3. Click **Add Item**. The **Item Setting** dialog box appears.

4. Choose a class of update item and its type. If you choose the Product class, you also need to select the Language and Platform.
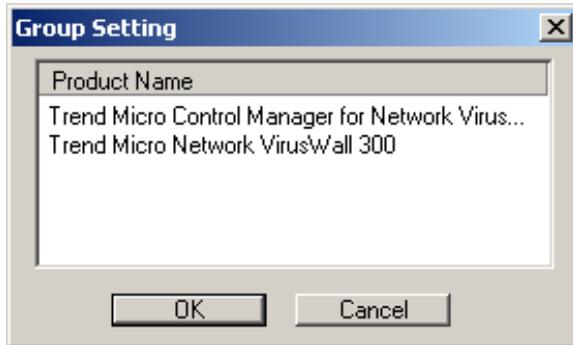
5. Click **OK** to add the update item.

AURS also supports user-defined update items information, but the information must be digital and correspond to an update item on the source server.

Adding a group of update items

For convenience, you can add a group to the Item list. When you add a group, AURS adds all related update items to the Item List. For example, if Network VirusWall 300 is connected to your network, instead of adding each update item manually, simply choose the Network VirusWall 300 group and AURS adds all Network VirusWall 300 update items to the Item List.

To add a group to the Item List:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. On the **Item Info** tab, click **Add Group**. The **Group Setting** dialog box appears.

Group Setting

Product Name
Trend Micro Control Manager for Network Virus...
Trend Micro Network VirusWall 300

OK   Cancel

3. Select one or more group names in the list

4. Click **OK**. The group is added to the Item List.

Removing an update item

The following procedure provides instructions for removing an update item from the Item List. Remove an update item when you no longer want it to be synchronized between the source and local AURS server.

To remove an update item from the Item List:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. Under the **Item Info** tab, select an update item. To select multiple items, hold down the **Shift** key, and use the mouse.

3. Click **Delete**. A confirmation dialog box appears.

4. Click **Yes**.
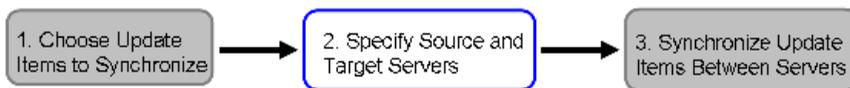
Specifying Source Servers

FIGURE 3-3. **Specify source and target servers**

Using the AURS Server List, you can manage the servers specified as the source of the update items for the local AURS server. These servers will typically be either official Trend Micro ActiveUpdate server or other ActiveUpdate Replication Servers on your organization's intranet.

The ActiveUpdate Replication Server can only synchronize with the servers on the Server List.

Adding a server

This section provides instructions for adding a server to the AURS Server List.

To add a server to the Server List:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. Click the **Server Info** tab.
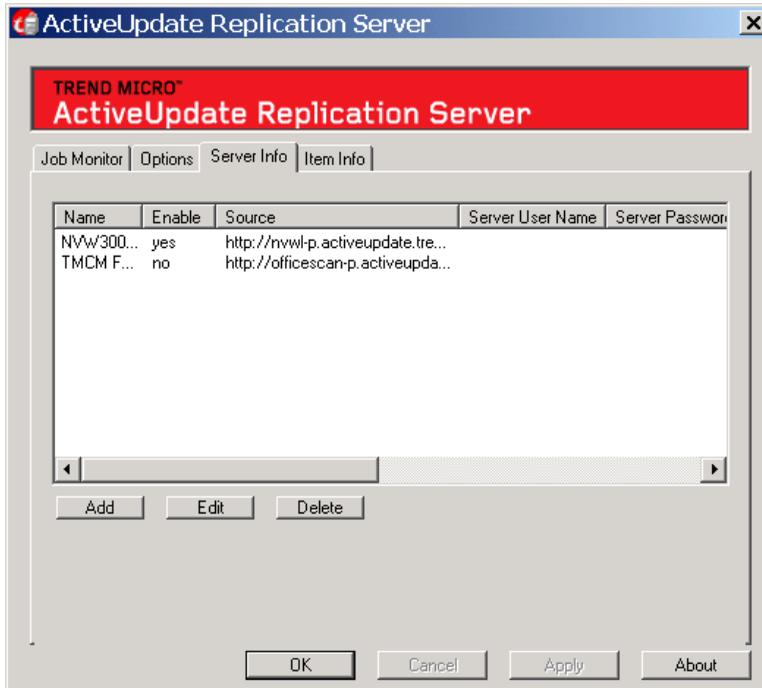
3. On the **Server Info** tab, click **Add**. The **Server Setting** dialog box appears.

4. Configure the following settings:

- Name – type the source server name

- Select the **Enable this server** check box to allow ActiveUpdate Replication Server to import or synchronize update items with this server. Only one server can be enabled.

- Source – provide the URL or UNC path

  - Click **URL** to specify this source server as a Web server and type the URL name

  - Click **UNC** to specify this source server as a UNC server and type the UNC path

- Server Authentication (if needed) – provides authentication information if needed

  i. User name – type the account of the source server

  ii. Password – type password of the account

- Select the **Use a proxy server** check box if a proxy server is needed for the server

  - Proxy name or IP address – provides proxy name or IP address of the proxy server

  - Port – provides port of the proxy server

  - HTTP proxy – the proxy is HTTP server

- • SOCKS proxy – the proxy is SOCKS server
- • Proxy Authentication (if needed) – provides authentication information for the proxy server, user name: account of the proxy server, password: password of the account

5. Click **OK** to add the server to the Server List.

6. Click **Apply**.

Configuring server settings

Use the following instructions to configure the settings for a server listed in the Server List. A common task is to enable a server as the source server.

To configure server settings:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. Click the **Server Info** tab.

3. Select a server, and then click **Edit**.

4. Change the desired information for the server.

5. Click **OK**.

Removing a server

You can remove a server or multiple servers at the same time from the Server List.

To remove a server:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. On the **Server Info** tab, select a server. To select multiple items, hold down the **Shift** key, and use the mouse.

3. Click **Delete**. A confirmation dialog box appears.

4. Click **Yes**.

Synchronizing Update Items Between Source and Local Servers

FIGURE 3-4. Synchronizing update items between source and local AURS servers

Synchronize update items between source and local AURS servers by:

• Manually downloading or setting scheduled synchronization of update items from the source server you set on the **Server Info** page.

• Importing update items from another ActiveUpdate Replication Server. If you choose to import update items, they must have previously been exported to an accessible location by another ActiveUpdate Replication Server.

After choosing which update items (for example, virus pattern files or scan engines) to download, and the source of those items, you need to synchronize the update items on the computer that AURS resides on (local AURS server) with those on the defined source server. This helps ensure the AURS local server has the latest update items.

Performing a manual synchronization

There are two ways to synchronize data between an AURS server and a source (for example, a Trend Micro ActiveUpdate server or another AURS server): manually or with scheduled synchronizations. You can manually synchronize from the **Job Monitor** screen, or set up a scheduled synchronization from the **Options** screen.

Before performing any type of synchronization, define and enable a server in the Server List. See *Adding a server* on page 3-7.

To perform a manual synchronization:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).
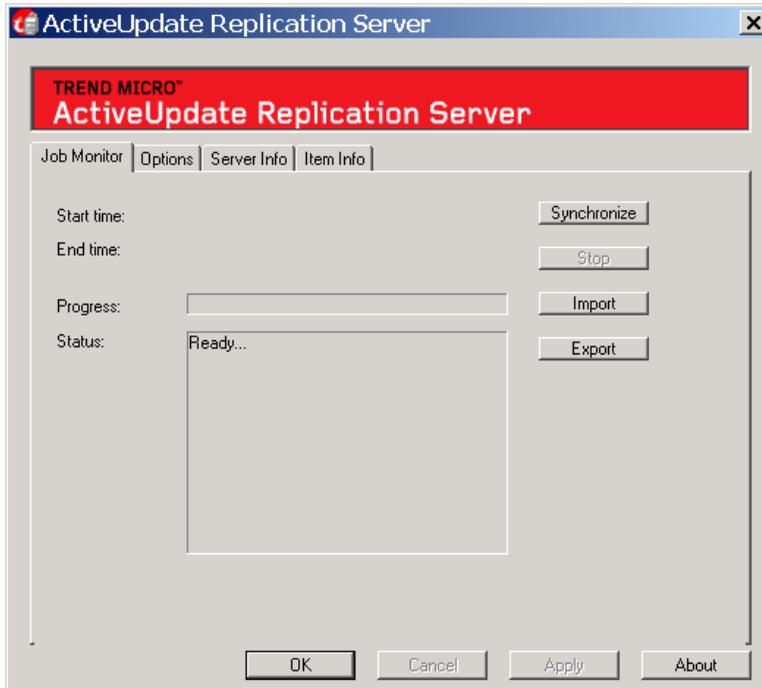
2. On the **Job Monitor** tab, click **Synchronize**. The start time, progress status, and message information are displayed in the box. The results of the action are displayed in the Status field.

Setting Scheduled Synchronization options

You can set how often the AURS server automatically checks the source server for the latest update items. If the source server contains new update items, the local AURS server automatically downloads those update items. This saves you from having to manually check for and download the latest update items from the source server.

Before setting scheduled synchronization options, you must have previously selected which update items to download and which source server to check. See *Choosing Update Items to Synchronize* on page 3-3, and *Specifying Source Servers* on page 3-7.

To set scheduled synchronization options:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. On the **Options** tab, under **Schedule**, select the **Enable scheduled update** check box.
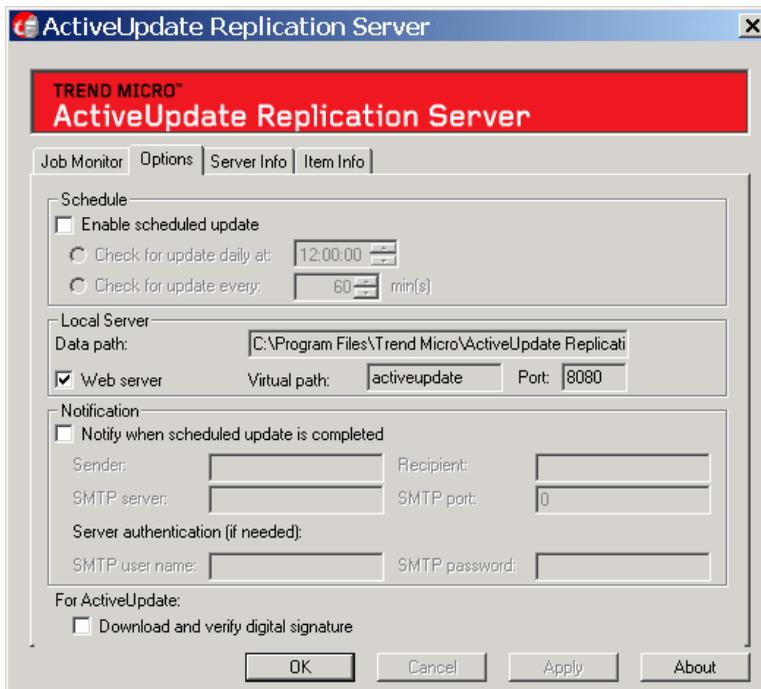
3. Do one of the following:

    •   Specify daily time:

        i.   Click **Check for update daily at:**.

        ii. Set the time for updates to occur.

    •   Specific number of minutes elapsed:

        i.   Click **Check for update every:**.

        ii. Set the time to update.

4. Click **Apply**.

Exporting Update Items

Export update items from the local AURS server to another location on the network that is accessible to other AURS servers. After successfully exporting items, other AURS servers can import the update items and provide them to other Trend Micro products that may be located in a closed environment. AURS can export the update items as directories and files, or compress the update items into a single ZIP file.

The export package or directories can include all specified update items or only those new update items. For example, if you have chosen a group of update items, there are some update items in that group that are updated more frequently (for example, pattern file) than others (for example, scan engine). Choosing only to export the latest update items can speed up synchronization times and conserve network bandwidth.

To export update items:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. On the **Job Monitor** tab, click **Export**. The **Export** dialog box appears.

3. Do one of the following:

- To export all update items, clear the **Export Updated Item Only** check box.
- To export only update items that have been updated, select the **Export Updated Item Only** check box. Choosing only to export the latest update items can speed up synchronization times and conserve network bandwidth.
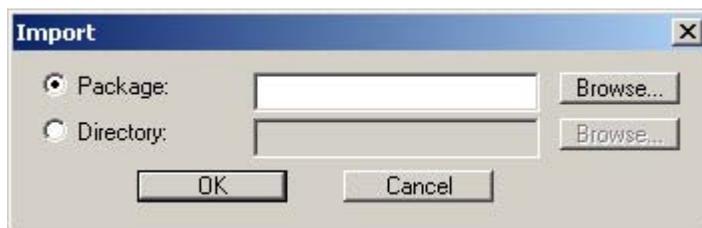
4. Choose one of the following ways to export:
   - To export a single ZIP file that includes the update items:
     i. Click **Package**.
     ii. Type a package name or click **Browse…** and choose a location and a package name.
   - To export directories that contain the update items:
     i. Click **Directory**.
     ii. Type a directory name or click **Browse…** and select a directory name.
   - For certain products, such as **Trend Micro Network VirusWall 300**, you can export to a USB drive:
     i. Click **Network VirusWall 300**.
     ii. Select a USB drive (must be FAT 32 or FAT 16).
5. Click **OK**. After the export has completed, the results of the action are displayed in the Status field.

Importing Update Items

You can import the update items that have been exported from other AURS servers as directories and files or compressed into a ZIP file. Update items must have been previously exported by another AURS server to an accessible location. See *Exporting Update Items* on page 3-14.

To import update items:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).
2. On the **Job Monitor** tab, click **Import.** The **Import** dialog box appears.

3. Do one of the following:

    a. To import a single ZIP file that includes the update items:

        i.   Click **Package**.

        ii. Type a package name or click **Browse…** and locate and select the ZIP file.

    b. To import directories that contain the update items:

        i.   Click **Directory**.

        ii. Type a directory name or click **Browse…** and locate and select the directories.

4. Click **OK**. After the import is completed the results of the action are displayed in the Status field.

Configuring Options

ActiveUpdate Replication Server can keep you informed of events through notification. In addition, to notification, you can also configure local server options of the ActiveUpdate Replication Server.

Configuring Local Server options

Use the **Local Server** options to provide access to update items on the local AURS server via Uniform Naming Convention (UNC) or HTTP with the local AURS server acting as a Web server.

To configure local server options:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. On the **Options** tab, under **Local Server**, do one of the following:

    •   Use the local AURS server as a UNC server by manually sharing the directory listed in Data Path. Other AURS servers and other Trend Micro products that can access that location can import or download update items.

    •   To use the server as a Web server, select the **Web server** check box. This allows the local AURS server to act as a Web server and allows other AURS

servers and other Trend Micro products download update items via HTTP. Virtual path and port displays the information of the Web server.

3. Click **Apply**.

Configuring Notifications

Notify users when scheduled synchronization of new updates is successful or unsuccessful.

ActiveUpdate Replication Server sends out notifications to users under the following circumstances:

Job notifications:

- A user has enabled the option "**Notify when scheduled update is completed**"
- Scheduled synchronization of updates is successful or unsuccessful

License notifications:

- A user has enabled the option "**Notify when scheduled update is completed**"
- ActiveUpdate Replication Server has not been activated or the license has expired
- Each time AURS performs a scheduled synchronization

To configure a notification:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. On the **Options** tab, under **Notification**, select the **Notify when scheduled update is completed** check box.

3. Type the following information:

- Sender – the name of the sending user
- Recipient – the email address of the receiving user
- SMTP server – the email server that sends the notification mail
- SMTP port – the email server's SMTP port
- SMTP user name – the user account of the email server
- SMTP password – the password of the user account

4. Click **Apply**.

Setting "For ActiveUpdate" options

Set AURS to download and verify files with digital signatures. The server, from which the AURS server is synchronized, needs to support this option.

To download and verify digital signatures:

1. Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

2. On the **Options** tab, under **ActiveUpdate**, select the **Download and verify digital signature** check box.

3. Click **Apply**.

Removing ActiveUpdate Replication Server

Follow the listed instructions to remove ActiveUpdate Replication Server.

To remove ActiveUpdate Replication Server:

1. There are two ways to start the removal process:
   • On the Windows taskbar, click **Start** > **Programs** > **Trend Micro** > **ActiveUpdate Replication Server** > **Remove Trend Micro ActiveUpdate Replication Server**
   • Click **Start** > **Settings** > **Control Panel** > **Add/Remove Programs**, select **Trend Micro ActiveUpdate Replication Server**, and then click **Remove**.

   The **Remove** dialog box appears.

2. Click **Next**. A message box appears confirming you want to remove ActiveUpdate Replication Server.

3. Click **Yes**.

Note: The next screen only appears if an Apache HTTP server was installed by ActiveUpdate Replication Server during installation.

The **Uninstall Apache** screen appears.

4. Click **Next** to remove Apache. A dialog box displays the removal status. The **Finish** dialog box appears.

5. Click **Finish** to complete removing Apache.

Frequently Asked Questions

This section provides answers to frequently asked questions. These frequently asked questions are categorized according to the following topics:

- Installing and Upgrading
- Using ActiveUpdate Replication Server

Installing and Upgrading

This section contains frequently asked questions related to installing, and upgrading AURS.

Q: How do I install AURS?

A: Locate and double-click the **setup.exe** file. See *Installing ActiveUpdate Replication Server* on page 1-5.

Note: AURS currently only supports installing to an ASCII character directory path.

Q: Which platforms does AURS support?

A: Windows Server 2003, Windows 2000 SP3, Windows XP SP2, and Windows NT4 SP6. See *System Requirements* on page 1-3.

Q: If a computer doesn't have an HTTP server, will AURS install an HTTP server?

A: If you chose to support HTTP service, yes. In this case, AURS will install Apache HTTP Server software. The installation package for the Apache HTTP Server software is included in the AURS installation files. See *Installing ActiveUpdate Replication Server* on page 1-5.

Q: How to upgrade AURS?

A: Locate and double-click the **setup.exe** file of a newer version. See *Upgrading Trend Micro ActiveUpdate Replication Server* on page 1-10.

Q: Will AURS save configuration information after upgrading?

A: Yes.

Using ActiveUpdate Replication Server

The following section provides answers to frequently asked questions about using ActiveUpdate Replication Server

Q: How do I use the email notification?

A: Do the following:

    a.   Access the AURS console (for detailed instructions, see *Accessing the ActiveUpdate Replication Server console* on page 2-2).

    b.   On the **Options** page, specify mail information in the Notification fields.

    c.   Click **Apply**. You can receive AURS status notifications.

Note: After the product registration key has expired and until the Activation Code is updated, the user will automatically receive periodic email notifications according to the configured scheduled period. You will also receive a notification, via email, and according to the scheduled period, if your Activation Code expires.

Q: Which data formats does AURS support for exporting?

A: Export data to a zip package or to a directory. In addition, you can export all of AURS data or only export new update item data. See *Exporting Update Items* on page 3-14.

Q: Which data formats does AURS support for importing?

A: Import a zip package or a data in a directory to AURS. See *Importing Update Items* on page 3-15.

Q: Can AURS support more than one server?

A: You can input information about more than one server, but currently, you can only enable one server at a time. You must enable at least one server.

Q: Can I change the AURS settings when AURS is performing a scheduled update?

A: You can change the AURS settings when AURS is performing a scheduled update, but you must wait for the update process to end before applying changes. See *Setting Scheduled Synchronization options* on page 3-12.

Q: After installation, what AURS configurations do I need to make

A: Refer to the following sections: *Choosing Update Items to Synchronize* on page 3-3, *Specifying Source Servers* on page 3-7, and *Synchronizing Update Items Between Source and Local Servers* on page 3-11.

Q: Does AURS start automatically when the local operating system starts?

A: Yes.

Q: Does AURS save configuration information after closing?

A: Yes.

Q: When the Activation Code has expired, will AURS continue to function normally?

A: No. AURS is unable to synchronize, but you can still use the "Import and Export" functions.

Q: How do I update an Activation Code?

A: Two ways. One is input a new Activation Code, and the other is "Update online". See *Activating ActiveUpdate Replication Server* on page 2-4.

Q: How do I export data to a USB drive?

A: Two ways. The first way is to export data to a local disk and copy files to a USB drive.

Another way is to select Network Virus Wall 300 and select a USB drive. When exporting data to a USB drive more than once, the message "Cannot overwrite the folder...." may appear. If this occurs, use the first method to export to a USB drive. See *Exporting Update Items* on page 3-14.

Only simple storage USB flash devices are supported. USB devices with MP3 player functions or other functions are not supported. For a full list of USB devices supported by Network VirusWall 300 devices see **System Requirements > USB Drive Compatibility** at:

http://www.trendmicro.com/en/products/network/nvw300/evaluate/overview.htm

Getting Support

Trend Micro is committed to providing service and support that exceeds our user's expectations regardless of their location. This chapter contains information on how to get technical support. You must register your product to be eligible for support.

The following topics are discussed in this section:

Before contacting Technical Support

Check your documentation: the manual provides comprehensive information about Trend Micro ActiveUpdate Replication Server. Search both documents to see if they contain the solution to your problem.

Visit our Technical Support Web site: our Technical Support Web site contains the latest information about all Trend Micro products. Previous user inquiries that have been answered are posted on the support Web site.

Visiting the Technical Support Web site

Visit the Trend Micro Technical Support Web site to find answers to your inquiries. The Trend Micro Technical Support Web site contains the latest updated information about our products. New solutions are added daily. However, if you don't find the answer you seek, you can submit your question on-line, where the experts at TrendLabs will provide you with an answer or contact you for more information.

To visit the Technical Support Web site:

• On the Main window, click **Help** > **Technical Support Home Page**.

Contacting Technical Support

A license to the Trend Micro Software usually includes the right to product updates, pattern file updates, and basic technical support for one (1) year from the date of purchase only. Maintenance must be renewed on an annual basis at Trend Micro's then-current Maintenance fees.

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

• Product serial number
• Program, scan engine, pattern file, version number
• Operating system name and version, and Internet connection type
• Exact text of any error message given
• Steps to reproduce the problem

The best way to receive support is to send an email to our highly trained Technical Support staff or visit our Web site.

```
Email: support@trendmicro.com
```

For other ways to contact Technical Support, check the "Support" section of our Web site at:

```
URL: http://www.trendmicro.com
```

TrendLabs℠

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

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For more information about TrendLabs, please visit:

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