

# Avira Update Manager

User Manual

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# 1. Product information

## 1.1 Functionality

Avira Update Manager lets you download updates for many of your Avira products conveniently and automatically from the Internet.

Individual computers on your network can then update products via your intranet, rather than having to download them themselves from the Internet.

Avira Update Manager comprises the following two components:

- Avira Update Manager Server (for both Microsoft Windows and UNIX)
- Avira Update Manager Frontend (for Microsoft Windows only)

The Avira Update Manager Server runs on one or more servers on your intranet and controls the downloading of product updates on these servers.

AUM Frontend lets you configure and operate one or more AUM Servers from a central point (Remote Control).

## 1.2 System requirements

For Avira Update Manager to work perfectly, the computer system must fulfill the following requirements:

- Computer from Pentium class upwards, at least 1 GHz
- Operating system (Windows)
  - Microsoft Server 2003 x86 or x64 (no IA-64 systems), newest SP
  - Microsoft Server 2008 x86 or x64 (no IA-64 systems), newest SP

### Note

You can also install the AUM user interface (the so-called Frontend) on Windows XP from SP1, Windows Vista and Windows 7 x86 or Windows 7 x64 (except IA-64 systems).

### Note

The user interface can only be installed on Microsoft Windows systems.

### Note

Please note that the Windows 2000 operating system is no longer supported.

- Operating system (UNIX)
  - Red Hat Enterprise Linux 6 Server
  - Red Hat Enterprise Linux 5 Server (5.6)
  - Red Hat Enterprise Linux 4 Server (4.8)
  - Novell Open Enterprise Server 2 (SLES 10 SP2)
  - Novell SUSE Linux Enterprise Server 11 (SP1)
  - Novell SUSE Linux Enterprise Server 10 (SP2)
  - Novell SUSE Linux Enterprise Server 9 (SLES 9)
  - Debian GNU/Linux 6; 5; 4
  - Ubuntu Server Edition 8.04
  - Ubuntu Server Edition 10.10

**Note**

The *libstdc++.so.6* library must also be available on the systems. This usually has to be installed subsequently through proprietary distribution package management.

**Note**

If you are using a 64-bit version (amd64/x86\_64) of the above mentioned Linux distributions, 32-bit compatible libraries must also be subsequently installed. The proprietary distribution software management can usually be used for this.

- Internal memory
  - At least 512 MB RAM
  - At least 500 MB temporary memory on the hard disk (depending on the scope of the product updates).
- Internet connection (modem or LAN)
- Administrator rights (for installing the Avira Update Manager)

## 2. Installation

### 2.1 Installation on Windows

Install both components of the Avira Update Manager (Server and Frontend) on a central server on your intranet.

Then, if required, install the AUM Server on all other servers on the intranet which you have designated for supplying clients.

(see ["Installing the AUM Server on other servers" - page 10](#))

#### Note

You can also install the AUM Frontend on other computers and use it to conveniently control the servers with the installed AUM Server (see ["Installing the AUM Frontend on other computers" - page 12](#)).

#### Prerequisites

For the Avira Update Manager to function perfectly on your server, ensure that the following requirements are met:

- System requirements are fulfilled
- You have administrator rights
- During installation all programs running on your server have been terminated
- Where necessary, the ports required by Avira Update Manager are opened in the firewall
- No other programs are occupying the AUM network port

Perform the installation using the following steps:

1. Install Avira Update Manager
2. Install the Avira Update Manager Server on other servers
3. Install the Avira Update Manager Frontend on other computers

#### 2.1.1 Install AUM

1. Go to the website <http://www.avira.com>.

The Avira Update Manager is provided for download in the **Support > Download** section.

2. Save the file to your computer.
3. Double-click on the saved file.

The dialog box of the setup program appears.

4. Click **Continue**.

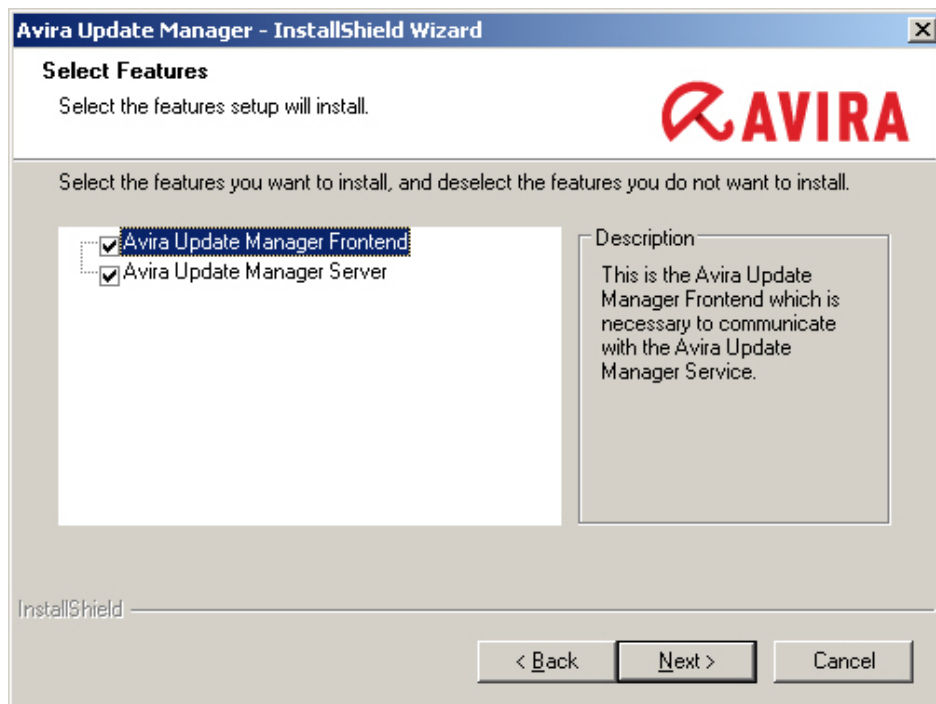
The setup program for Avira Update Manager starts. The dialog box **Welcome...** appears.

5. Click **Next**.

The dialog box with the license agreement appears.

6. Confirm that you accept the terms of the license agreement and click **Next**.

The dialog box **Select Features** appears:



7. Select the required components and click **Next**.

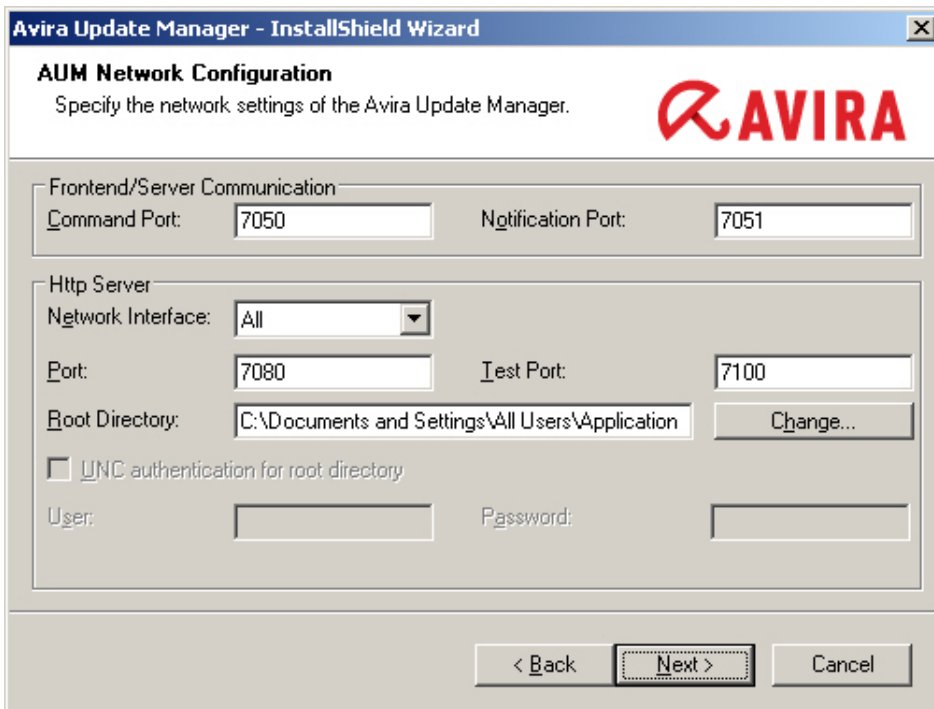
If you have selected **Avira Update Manager Server** for installation, the **Choose Destination Location** dialog box appears.

8. Confirm the specified destination directory by clicking **Next**.

-OR-

Use the **Change...** button to select a different destination directory and confirm by clicking **Next**.

The dialog box **AUM Network Configuration** appears.



The screenshot shows the 'Avira Update Manager - InstallShield Wizard' dialog box, specifically the 'AUM Network Configuration' step. The title bar reads 'Avira Update Manager - InstallShield Wizard'. Below the title bar, the text 'AUM Network Configuration' is displayed, followed by the instruction 'Specify the network settings of the Avira Update Manager.' and the AVIRA logo. The dialog is divided into two main sections: 'Frontend/Server Communication' and 'Http Server'. In the 'Frontend/Server Communication' section, there are two text boxes: 'Command Port' with the value '7050' and 'Notification Port' with the value '7051'. In the 'Http Server' section, there are several fields: 'Network Interface' is a dropdown menu set to 'All'; 'Port' is a text box with '7080'; 'Test Port' is a text box with '7100'; 'Root Directory' is a text box with 'C:\Documents and Settings\All Users\Application' and a 'Change...' button next to it; there is a checkbox for 'UNC authentication for root directory' which is currently unchecked; and 'User' and 'Password' text boxes. At the bottom of the dialog, there are three buttons: '< Back', 'Next >', and 'Cancel'.

9. Confirm the default configuration by clicking **Next**.

-OR-

If necessary, change the predefined ports accordingly. The selected ports are opened automatically during installation and remain open afterwards.

If required, use **Change...** to select a different **Root Directory** and choose a specific adapter under **Network Interface** or leave the setting at **All**. You can also use a UNC path as the root directory and enter the **UNC authentication** here. However, locally connected networks cannot be used.

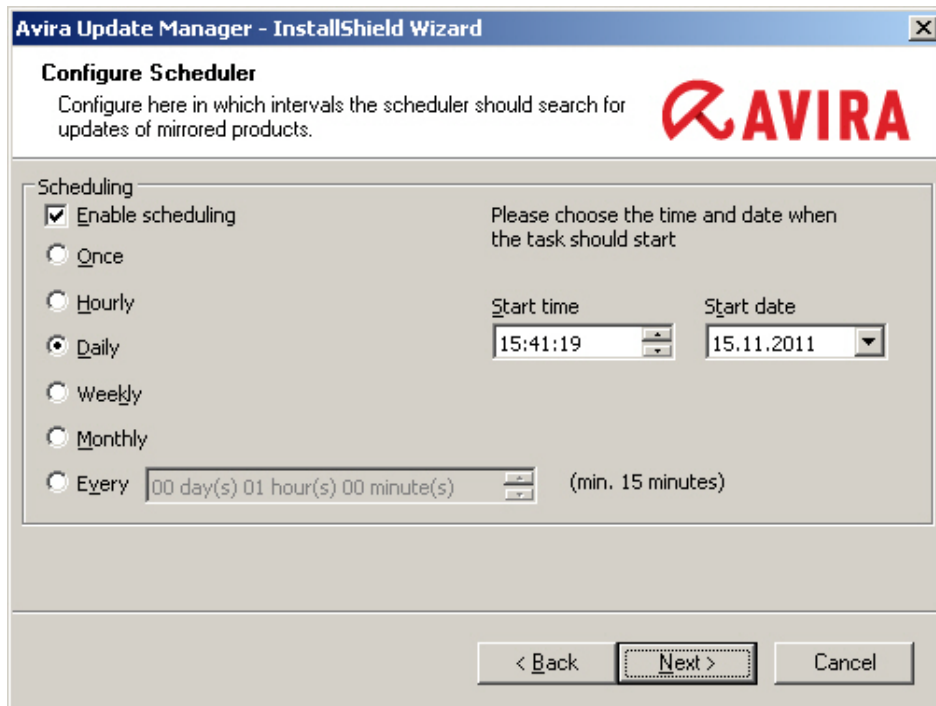
Confirm with **Next**.

The **AUM Service Account** dialog box appears.

10. Enter an **Administrative account** (e.g. Administrator) using the appropriate **Account password** and click **Next**.
11. You will now be asked to define a password for the AUM. Enter the password twice and click **Next**.

The dialog box **Configure Scheduler** appears.





12. Confirm the specified configuration by clicking **Next**.

-OR-

Enable/ disable the option **Enable scheduling**, or change the time or interval for the updates and click **Next** to confirm.

13. You will then be asked whether you want AUM Server to be dealt with as an exception to the Microsoft Windows Firewall.

If you confirm by selecting **Yes** the firewall will be configured automatically, if you choose **No** you have to configure the firewall manually at a later stage.

Click **Next** to confirm your choice.

The dialog box **Ready to Install the Program** appears.

14. In the next dialog box, click **Install**.

Avira Update Manager is installed. The message **Installation finished** appears.

15. Click **Finish**.

The setup program creates a new entry in the Windows Start menu **Avira > Avira Update Manager Frontend**.

The installation has been completed successfully.

After installation, the AUM Server starts immediately and must be configured with the AUM Frontend for the product update at a later time (see [3. Configuration - page 19](#)).

## 2.1.2 Installing the AUM Server on other servers

### Note

Installing the AUM Server on multiple servers is usually only necessary for large networks (>2000 computers).

1. Follow the procedure for the initial installation of the AUM Server and AUM Frontend (see ["Install AUM" - page 6](#)), until the dialog box **Select Features** appears.

2. Select only the component **Avira Update Manager Server** and click **Next**.

The dialog box **Choose Destination Location** appears.

3. Confirm the specified destination directory by clicking **Next**.

-OR-

Use the **Change...** button to select a different destination directory and confirm by clicking **Next**.

The dialog box **AUM Network Configuration** appears.

4. Confirm the specified configuration by clicking **Next**.

-OR-

If necessary, change the predefined ports as required.

If required, use **Change...** to select a different destination directory for the updates, specify a fixed IP address under **Network Interface** or save the setting **All**. Click **Next** to confirm.

The **AUM Service Account** dialog box appears.

5. Enter an **Administrative account** (e.g. `Administrator`) using the appropriate **Account password** and click **Next**.

The dialog box **Configure Scheduler** appears.

6. Confirm the specified configuration by clicking **Next**.

-OR-

Enable/ disable the option **Enable scheduling**, or change the time or interval for the updates. Click **Next** to confirm.

7. You will now be asked whether you want AUM Server to be dealt with as an exception in the Microsoft Windows Firewall.

If you confirm by selecting **Yes** the firewall will be configured automatically, if you choose **No** you have to configure the firewall manually at a later stage.

8. Click **Next** to confirm your choice. The dialog box **Ready to Install the Program** appears.

9. Click **Install**.

Avira Update Manager is installed. The message **Installation finished** appears.

10. Click **Finish**.

Installation of the AUM Server on the server has been successfully completed.

11. Repeat this installation until the AUM Server is running on all designated servers.

After installation, the AUM Server starts immediately and must be configured with the AUM Frontend for the product update at a later time (see [3. Configuration - page 19](#)).

### 2.1.3 Automatically configured installation

Avira Update Manager Server can also be configured prior to installation, so that it is ready for use immediately after start-up and is installed without user interaction.

To do this, unpack *avira\_update\_manager\_en.zip*. Then copy the file *silent\_install\_ium\_en.iss* into a directory of your choice, open the file with a text editor and edit the file according to your configuration requirements. The same parameters are available for *ium.conf*.

#### Note

A precise description of the configuration options can be found in the *silent\_install\_ium\_en.iss* file.

Save and then start *setup.exe* or *avira\_update\_manager\_en.exe* by entering the following in the command line:

```
/s /f1"/path/to/silent_install_ium_en.iss"
```

The outcome of the installation is saved in the file *setup.log* in the same directory as *silent\_install\_iwm\_en.iss*.

**Note**

The Avira Update Manager, including the AUM Frontend can also be uninstalled automatically (see [2.4 Deinstallation - page 17](#)).

#### 2.1.4 Installing the AUM Frontend on other computers

1. Follow the procedure for the initial installation of the Avira Update Manager Server and Avira Update Manager Frontend (see [2.1.1 Install AUM - page 6](#)), until the dialog box **Select Features** appears.

2. Select only the component **Avira Update Manager Frontend** and click **Next**.

The dialog box **Choose Destination Location** appears.

3. Confirm the specified destination directory by clicking **Next**.

-OR-

Use the **Change...** button to select a different destination directory and confirm by clicking **Next**.

The dialog box **Ready to Install the Program** appears.

4. Click **Install**.

The Avira Update Manager Frontend is installed.

5. Click **Finish** when completed.

The setup program creates a new entry in the Windows Start menu **Avira > Avira Update Manager Frontend**.

The installation of the Avira Update Manager Frontend has been successfully completed.

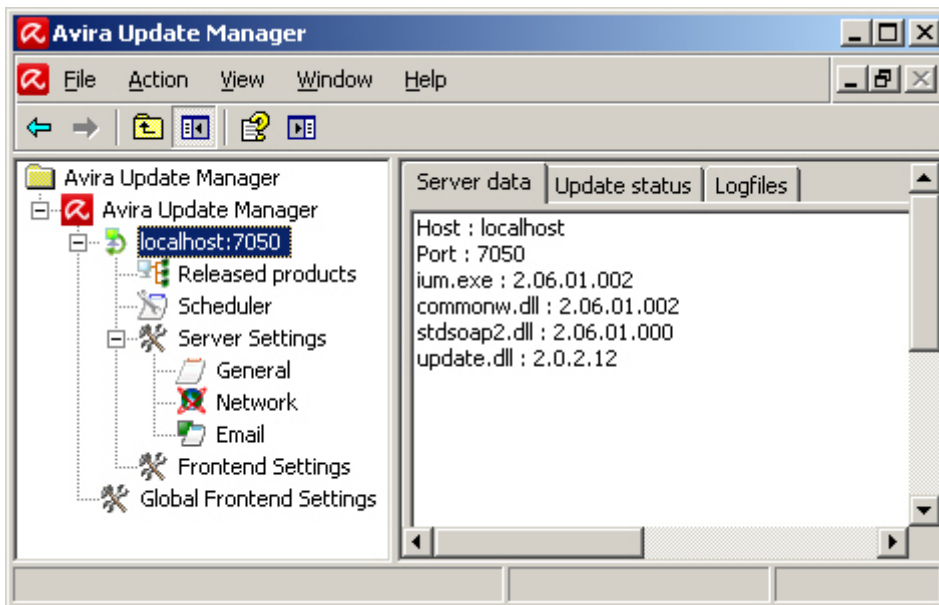
## 2.1.5 User interface

In Windows, the Avira Update Manager service is controlled by means of the graphical user interface – the Avira Update Manager Frontend – which is created as a snap-in for the Microsoft Management Console (MMC).

### Note

The appearance, structure and menu structure of the MMC may vary depending on the operating system. The chapter describes only the proprietary elements of the Avira Update Manager Frontend. For further information on the MMC and on manual integration of a snap-in, please refer to the user manual or the online help of your operating system.

The AUM Frontend consists of a window divided into two areas. The left-hand window area - the navigation area – displays the console structure. The right-hand window area contains the detail window. Many types of information can be displayed in the detail window, including tables and columns.



The entries in the expandable navigation structure are referred to as nodes, for example, the **Server Settings** node.

The console tree of the Avira Update Manager contains the following nodes in the navigation area:

- **Avira Update Manager**

This is the root node to which the managed AUM Servers are added. The detail window shows the version of the AUM Frontend and the logfile for automatic self-updates.

- **Servername:Port [e.g. localhost:7050]**





Displays the server name and the selected port used to connect the AUM Frontend to the AUM Server.

The following details are displayed in the detail window: **Server data** (version information of the currently installed AUM Server), **Update status** and **Logfiles**.

The following entries appear underneath the server node:

- **Released products** - products for product updating can be added here.
- **Scheduler** - configuration for the scheduling of product updates.
- **Server Settings: General** (general configuration options for the AUM); **Network** (configuration options for the source of updates: HTTP server, proxy server); **Email** (configuration for the sending of email messages).
- **Frontend Settings** - SSL Server authentication.
- **Global Frontend Settings**  
Configuration options for Frontend automatic updates.

Status of a server:

Icon	Status
	Server connected
	Server disconnected
	AUM is attempting to make a connection to the server
	An error has occurred.

## 2.2 Installation on Linux

### Prerequisites

For the Avira Update Manager to function perfectly on your server, ensure that the following requirements are satisfied:

- System requirements are fulfilled
- Administrator rights and root rights are granted for the installation
- AUM network ports are open in the firewall (default: 7100, 7050, 7051 and 7080)
- No other applications are installed that occupy the AUM network ports

### Note

If any of the AUM network ports are already used by other applications, the AUM daemon does not start and no error message is displayed at the command line.

The installation of the Avira Update Manager is performed automatically with the aid of an interactive installation script (bash command line).

The script performs the following steps:

- License retrieval (EULA)
- Checking the integrity of the installation files.
- Checking authorizations required for installation.
- Copying the application files and overwriting existing files that are no longer needed.
- Copying the configuration files

### 2.2.1 Installation procedure

1. Log in as 'root'. Otherwise you will not have the authorization to perform the installation and the script will issue an error message.
2. Extract the current installation package, e.g. to */tmp*:

```
cd /tmp; tar -xzvf avira_update_manager_unix_en.tar.gz
```

3. Change the directory to which you have extracted Avira Update Manager:

```
cd avira_update_manager_unix-<version>
```

4. Start the installer:

```
./install
```

5. Read the license agreement carefully. Pressing the space bar will take you to the next page. Accept the license agreement. Then press the **Q** and **Y** keys and click **Enter** to confirm.

The product is now installed. The destination directory is checked and if necessary created. All the necessary files are copied to the destination directory: You will then be asked if you wish to create an icon link to the AUM start script in your system directory:

```
Would you like to create a link in /usr/sbin for avium?[y]
```

6. Recommended: **y(es)**. This is not absolutely necessary but simplifies the subsequent retrieval of the AUM.

```
Please specify if boot scripts should be set up.  
Set up boot scripts? [y]
```

7. Recommended: **y(es)**.

Automatic system start-up is configured: If you would prefer to start the Daemon Avira Update Manager manually after system start-up, perform the following steps: Select **N** and press **Enter**.

You will then be asked if weekly updates for AUM should be downloaded automatically.

```
3) Configuring updates
An internet updater is available with version...
In order to trigger an update you will need to run the
command:
  /usr/lib/AntiVir/ium/avupdate-ium --product=AUM
Would you like to create a link in /usr/sbin for avupdate-
ium ? [y]:
```

8. Recommended: **y(es)**.

```
Would you like to check for AUM updates once a week ? [n]
```

Recommended: **y(es)**.

Finally a report will be displayed confirming that the installation has been successfully completed:

```
Installation of the following features complete:
  Avira Update Manager
  Avira Update Manager
*****
Configuration files:
  /etc/avira/ium.conf      (Avira AUM main config)
*****
Be sure to read the manual file for additional
information.
Thank you for your interest in Avira Update Manager
(UNIX).
```



## 2.3 Reinstall AUM (on Linux)

You can repeat the installation script at any time. Other scenarios are possible:

- Installation of a new version (upgrade) of the AUM. The installation script then checks the previous version and installs the requisite new components.
- Enabling or disabling automatic start-up of the AUM at system start-up.

## 2.4 Deinstallation

### 2.4.1 Deinstallation with graphical user interface (Windows)

To uninstall Avira Update Manager (e.g. in Windows Server 2003):

1. Open the **Control Panel** via the Windows **Start** menu.
2. Double-click on **Add or Remove Programs**.
3. Select **Avira Update Manager** and click **Remove**.

You will be asked if you really wish to remove the program.

4. Click **Yes** to confirm.

All components of the program are removed.

You will also be asked if you wish to save user data, such as the HTTP root directory and configuration.

5. Click on **Finish** to complete deinstallation.

Avira Update Manager has been uninstalled.

#### **Automatic deinstallation (no interaction required)**

Start *setup.exe* or *avira\_update\_manager\_en.exe* by entering the following in the command line:

```
/s /f1"/path/to/silent_uninstall_ium_en.iss"
```

The AUM is uninstalled without user interaction.

### 2.4.2 Deinstallation on Linux (without graphical user interface)

To uninstall the Avira Update Manager, log in as `root` and run the following command:

```
/usr/lib/AntiVir/ium/uninstall --product=AUM
```

The Avira Update Manager is now completely uninstalled in accordance with the default settings.

However, during deinstallation you will be asked whether you wish to create backups of the logfiles and the configuration files. If you do not want this, press **Enter**. If you wish to create backups, enter y and then press **Enter**.

The same applies to the HTTP root directory. If you wish to delete this directory, press **Enter**, otherwise enter **n** and then press **Enter**.

## 3. Configuration

### 3.1 Configuration with graphical interface (Windows)

Avira Update Manager Frontend lets you configure and control all services on the intranet on which the Avira Update Manager Server is active.

After installation, you have to configure the installed Avira Update Manager Servers to access the intranet and the Internet, as well as the required product updates. To do this, complete the following steps:

1. ["Starting the AUM Frontend for the first time" - page 19](#)
2. ["Server Settings" - page 20](#)

#### Note

If you quit the dialog after changing the configuration, the program will prompt you to save the new configuration. You can either do this immediately at every change or allow the program to remember the changes until you save all changes at the same time, on completion of the configuration.

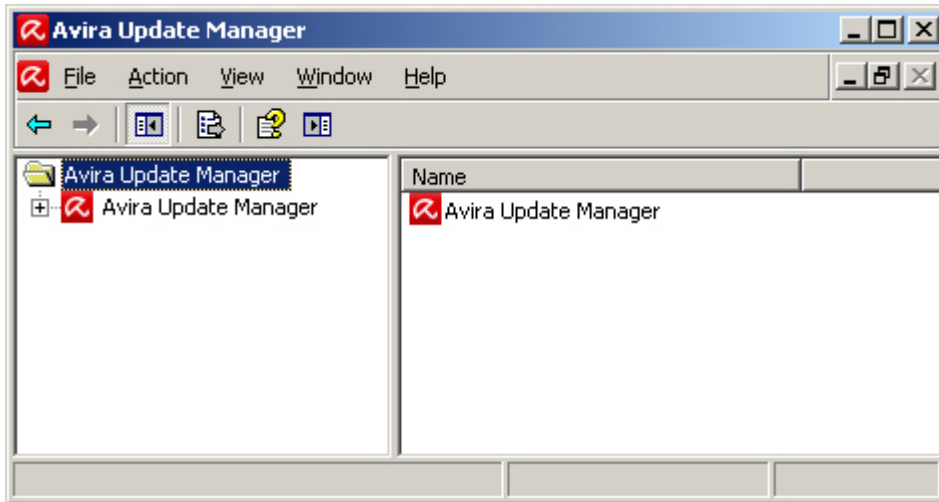
3. Basic settings for configuring the server
  - ["Configuring Internet settings" - page 20](#)
  - ["Configure email notifications" - page 22](#)
4. Advanced settings for configuring the server
  - ["Selecting the location where you wish to save updates" - page 23](#)
  - ["Changing the ports of the integrated HTTP server" - page 24](#)
  - ["Changing the preset download server" - page 26](#)
  - ["Editing the list of AUM Servers" - page 26](#)
5. Advanced settings for downloading the update
  - ["Displaying product update version information" - page 44](#)
  - ["Configuring the update scheduler" - page 28](#)

#### 3.1.1 Starting the AUM Frontend for the first time

The Avira Update Manager Server service must be started on the relevant servers.

1. Click on the program icon in the Windows start menu under **Start > Programs > Avira > Avira Update Manager Frontend > Avira Update Manager Frontend**.

The MMC with the **Avira Update Manager** snap-in appears.



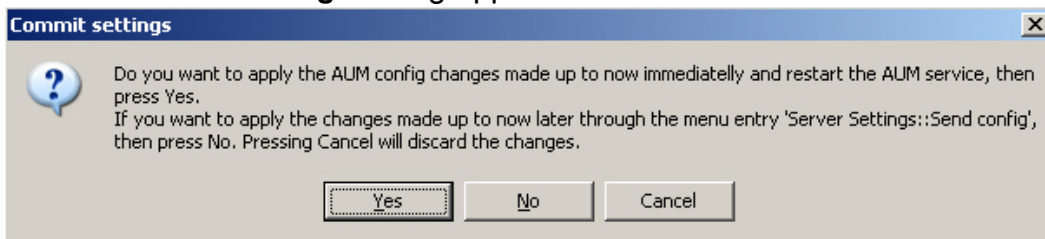
2. Log in on the server, with the Administrator password.

To learn how to add your servers and mirrored Avira products in the AUM, go to chapters ["Editing the list of AUM Servers" - page 26](#) and ["Displaying product update version information" - page 44](#).

### 3.1.2 Server Settings

1. After a change, click on a different navigation area or terminate the Avira Update Manager Frontend.

The **Commit settings** dialog appears:



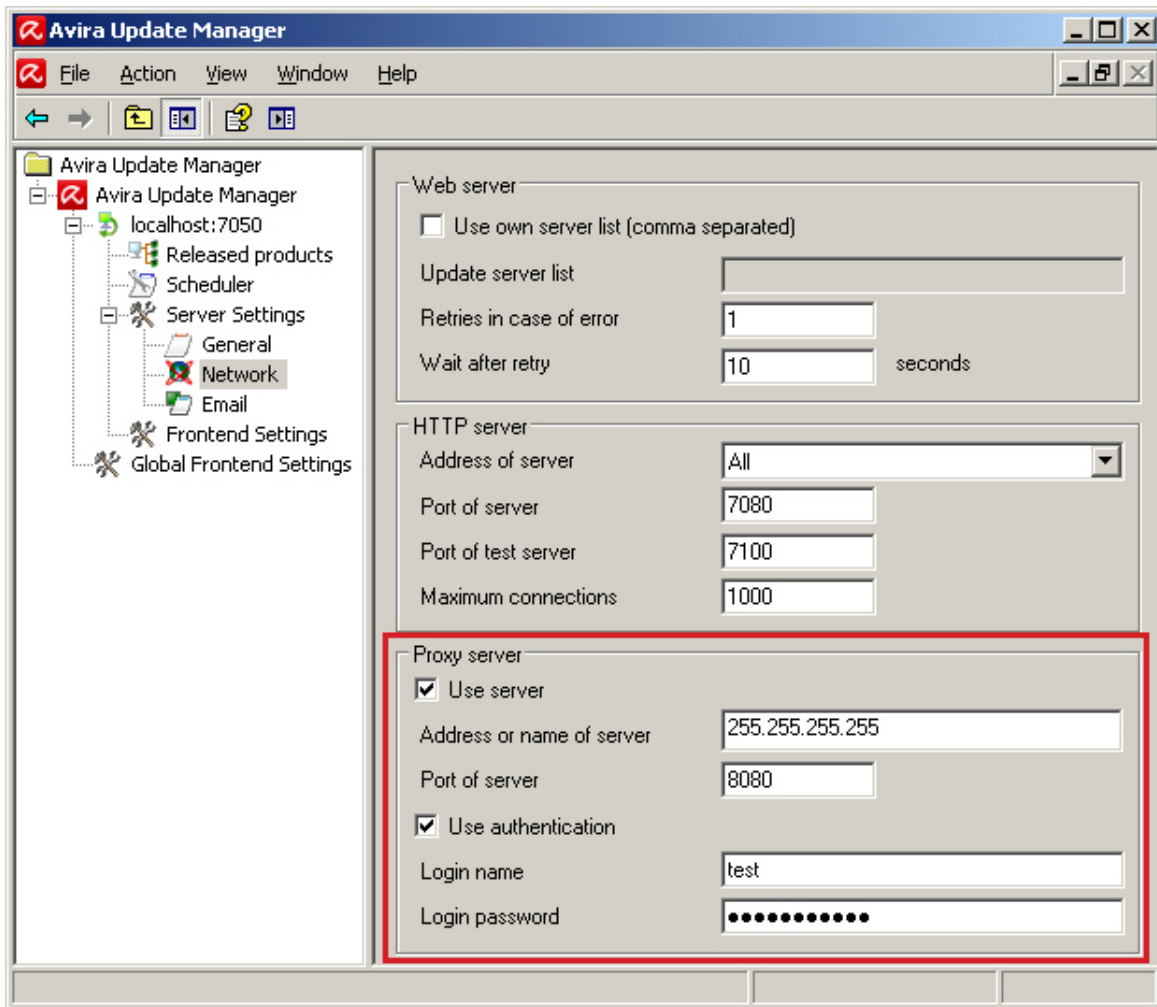
2. Click **Yes** to confirm the configuration change.

### 3.1.3 Configuring Internet settings

To configure the Avira Update Manager for updates via the Internet or the intranet:

1. In the navigation area, click on the node of the server being configured.
2. Click on the **Server Settings** node.

### 3. Click on **Network**.



### 4. Set up a *Proxy server*.

If the Internet is accessed via a proxy server, enable the **Use server** option in the proxy server area.

Enter the *Proxy server* data (optional, if required by the proxy server):

- **Address or name of server**

URL or IP address of the proxy server. Examples: `proxy.domain.com`  
`92.168.1.100`

- **Port of server**

Port number of the proxy server. Example: 8080 or 3128

- **Login name**

Activate the *Use authentication* option and insert the user name logging in to the proxy server.

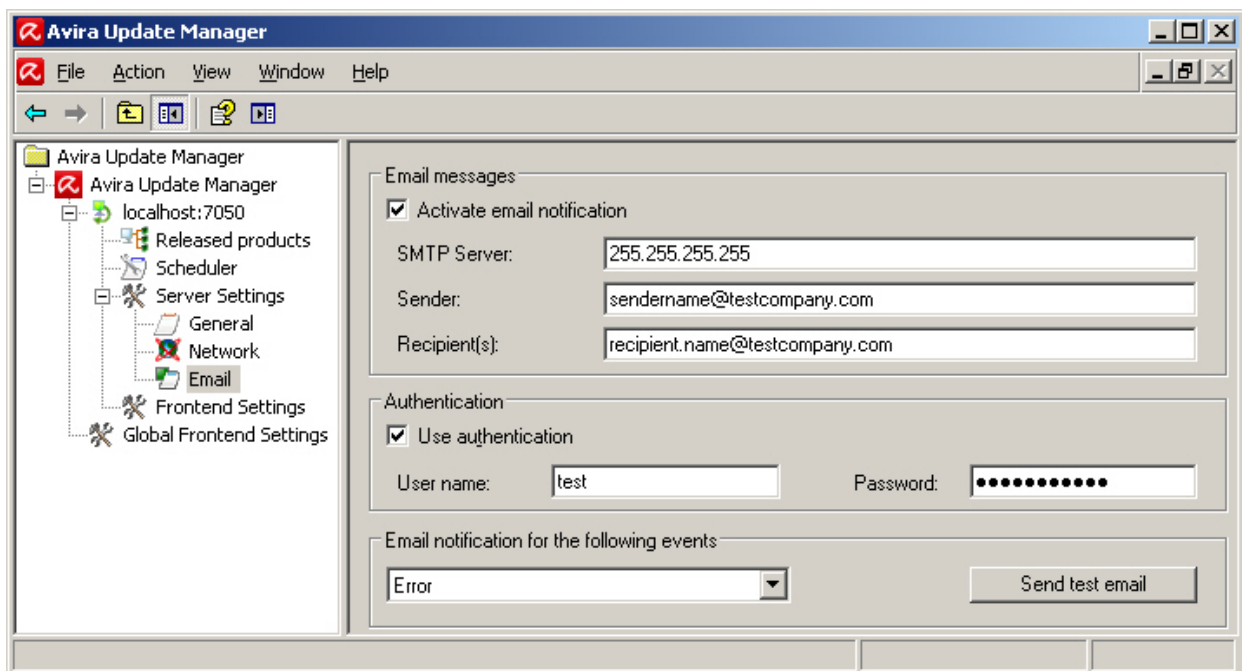
- **Login password**

Password for logging in to the proxy server. The password is saved in encrypted form.

### 3.1.4 Configure email notifications

To define how Avira Update Manager sends email messages:

1. In the navigation area, click on the node of the server being configured.
2. Click on the **Server Settings** node.
3. Click on **Email**:



4. In the *Email messages* area, enable the **Activate email notification** option.

- **SMTP Server**

Name of mail server. The maximum length of the host name is 127 characters.

Examples:

255.255.255.255

mail.testcompany.com

- **Sender**

Sender's email address (optional). Example: sendername@testcompany.com

- **Recipient(s)**

Recipient's email address. Separate individual addresses by commas. The maximum length of all addresses is 259 characters. Example:

`recipient.name@testcompany.com`

5. If an authentication on the mail server is required, enable the **Use authentication** option in the *Authentication* area and enter the mail server login data.

- **User name**

Name for logging in to the mail server.

- **Password**

The password is saved in encrypted form.

6. In the *Email notification for the following events* area, specify when Avira Update Manager should send emails: **Error**, **Warning** or **Information**.

Please also note the information in the report file.

You can also *Send a test email* in the email configuration dialog.

**Note**

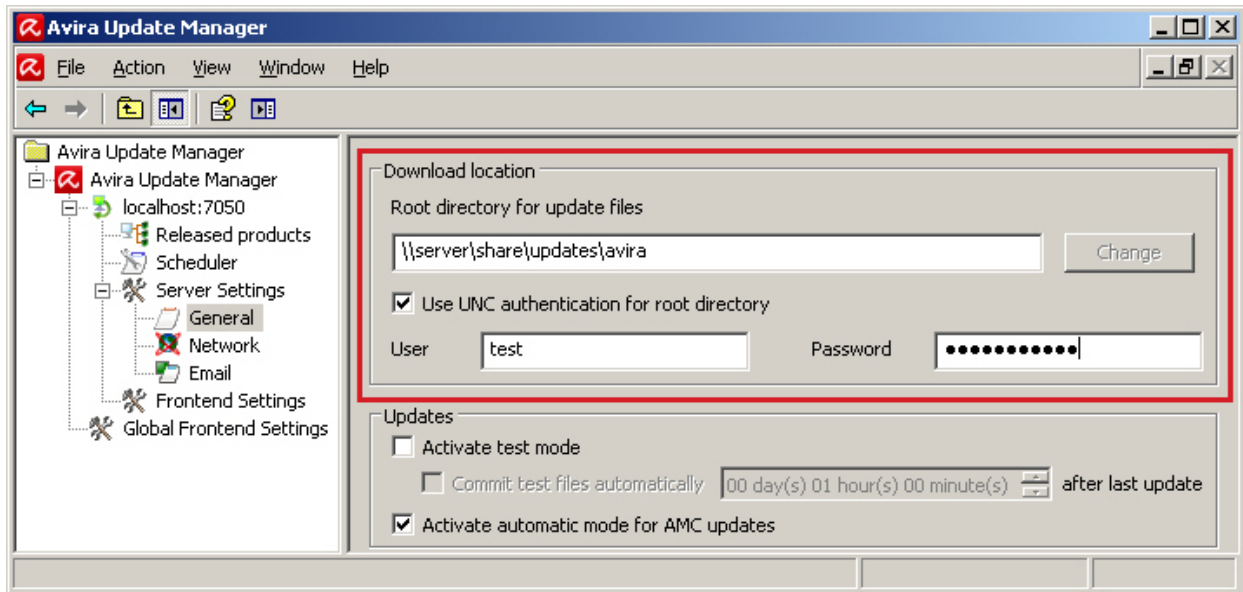
The Simple Message Transfer Protocol (SMTP) is used to send emails. ESMTP (Extended SMTP) is not currently supported. An encrypted transfer via TLS (Transport Layer Security) or SSL (Secure Sockets Layer) is not possible.

### 3.1.5 Selecting the location where you wish to save updates

To define the destination directory in which future updated files and program packages are to be placed:

1. In the navigation area, click on the node of the server being configured.
2. Click on the **Server Settings** node.

### 3. Click **General**:



### 4. In the field **Root directory for update files**, enter the destination directory on the server.

The destination directory can also be on the network. Locally connected networks are not supported.

#### Note

If the destination directory is on a computer on the intranet, you must specify the path manually in the form of a **UNC** path. To do this, ensure that you have the necessary rights on the host computer. The AUM Server should not be logged in as a local system account, otherwise it is not possible to log in to the host computer. Example:

```
\\server\share\updates\avira\
```

### 5. Enable the **Use UNC authentication for root directory** option if authentication is required on the selected server. It will activate the fields for **User** and **Password**.

### 6. Enter the login name and the password. The password is saved in encrypted form.

## 3.1.6 Changing the ports of the integrated HTTP server

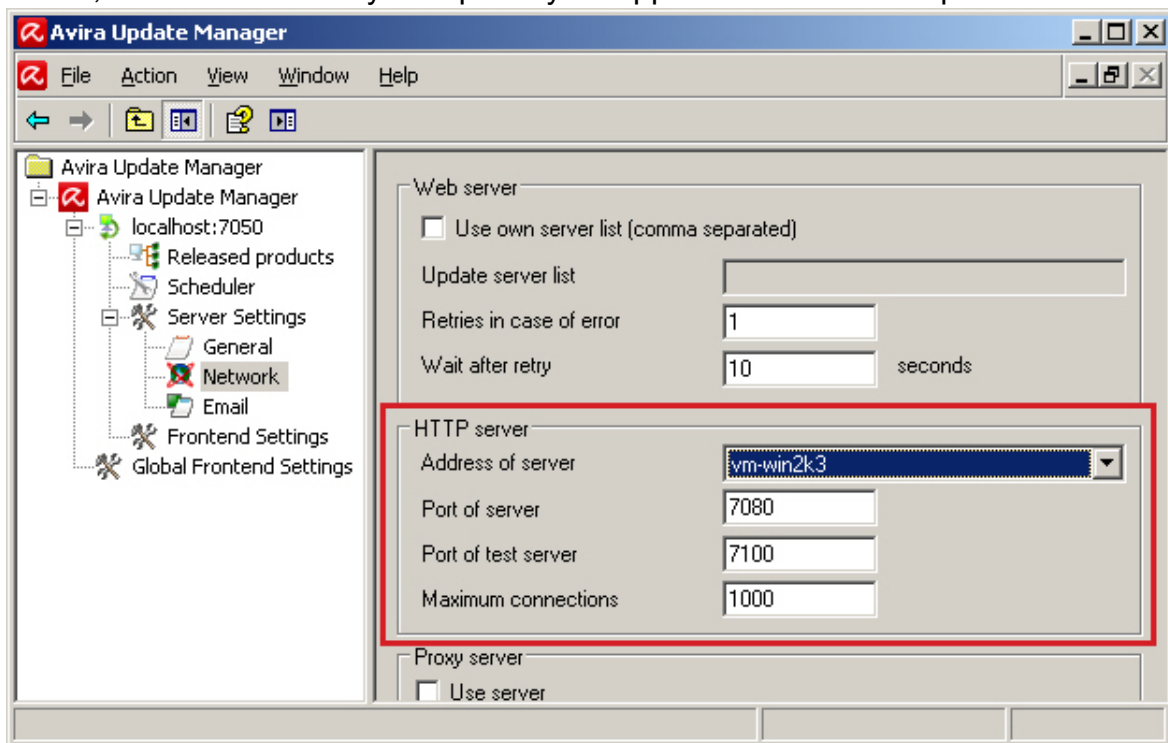
### 1. In the navigation area, click on the node of the server being configured.

### 2. Click on the **Server Settings** node.

### 3. Click on **Network**.

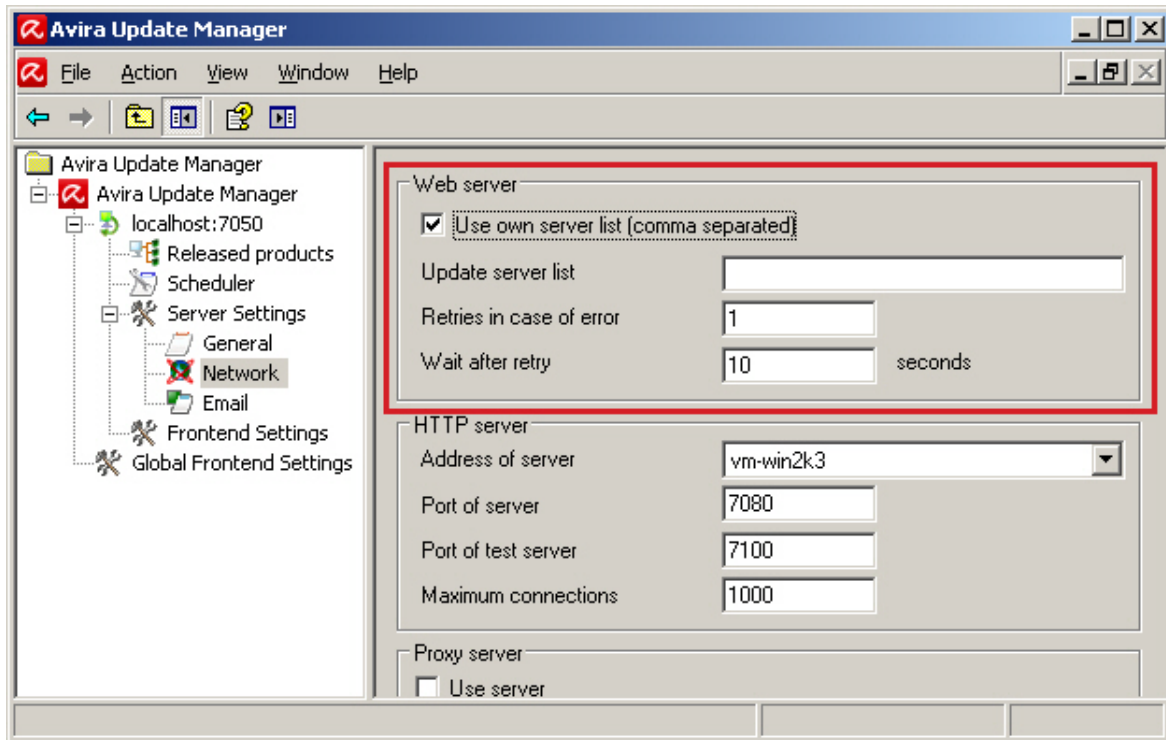


4. In the *HTTP Server* area, change the **Port of server** 7080, or the **Port of test server** 7100, if these are already occupied by an application on this computer.



### 3.1.7 Changing the preset download server

1. In the navigation area, click on the node of the server being configured.
2. Click on the **Server Settings** node.
3. Click on **Network**:



4. Enable the **Use own server list** option.
5. In the field **Update server list**, enter the download server (IP address or computer name).

#### Note

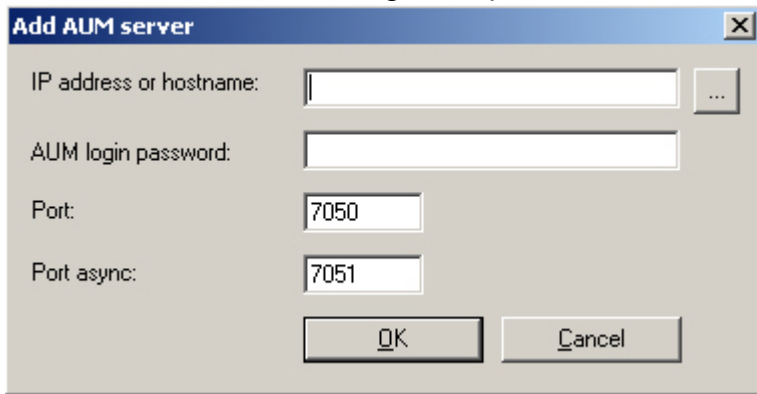
You can also specify multiple proprietary download servers, separated by comma.

### 3.1.8 Editing the list of AUM Servers

To add a new server:

1. Right-click on the **Avira Update Manager** and select **New > Add AUM server**.

The **Add AUM server** dialog box opens:



The dialog box titled "Add AUM server" contains the following fields and buttons:

- IP address or hostname:** A text input field with a browse button (...).
- AUM login password:** A text input field.
- Port:** A text input field with the value "7050".
- Port async:** A text input field with the value "7051".
- Buttons:** "OK" and "Cancel".

2. Enter the name of the server or its IP address in the field **IP address or hostname**, and click the browse button [...] to selected the required server.
3. Enter the password for the server in the **AUM login password** field.
4. Click **OK**.

The server appears in the navigation area of the user interface.

### To delete a server

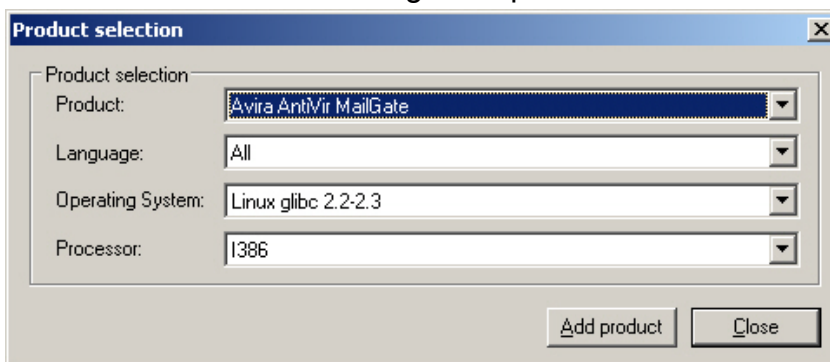
In the navigation area, right-click on the node for the server to be deleted and select **Remove server**.

### 3.1.9 Editing the products list

To select a product to be updated by the Avira Update Manager:

1. In the navigation area, click on the node of the server being configured and log in.
2. Right-click on **Released products** and select the menu item **New > Add product**.

The **Product selection** dialog box opens:



The dialog box titled "Product selection" contains the following fields and buttons:

- Product selection:** A section containing four dropdown menus:
  - Product:** "Avira AntiVir MailGate"
  - Language:** "All"
  - Operating System:** "Linux glibc 2.2-2.3"
  - Processor:** "I386"
- Buttons:** "Add product" and "Close".

3. Select the product to be updated from the **Product** drop-down list.

4. In the **Language** drop-down list, select the required language.

The entry **All** indicates that the product is either only available in English or that all available languages are contained in the program package.

5. In the **Operating System** drop-down list, select the appropriate operating system, then select the **Processor** type.
6. Click **Add product**.

The product is added to the list of released products.

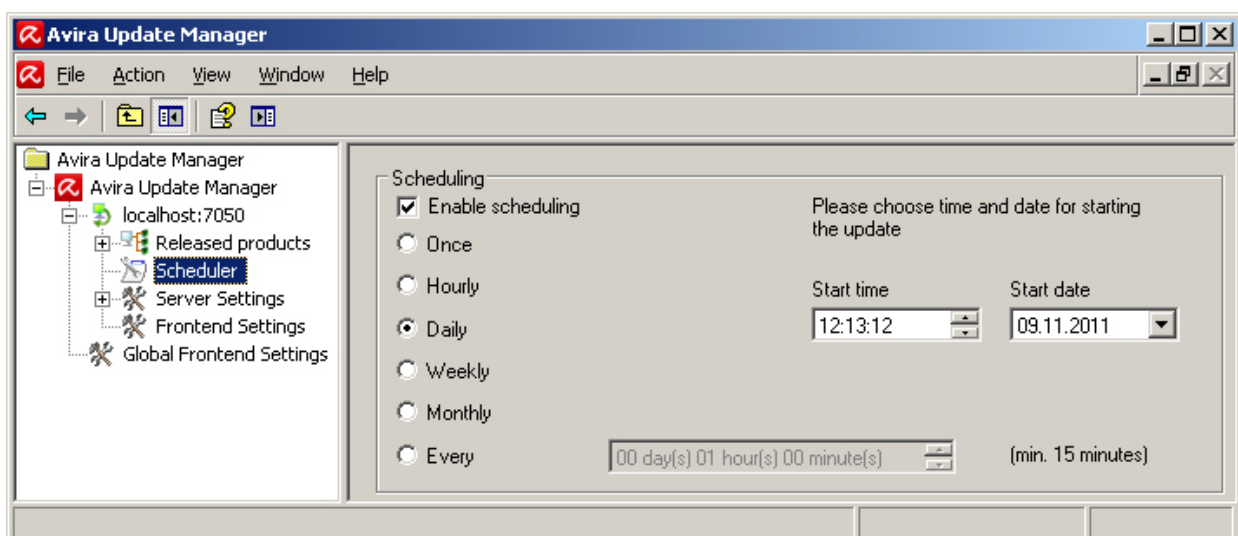
### To delete a product

1. In the navigation area, click on the node of the server being configured.
2. Click on **Released products**.
3. Right-click on the product to be deleted in the list of the products for update and select **Remove product**.

### 3.1.10 Configuring the update scheduler

To configure the interval at which Avira Update Manager scans for available product updates and downloads these updates to the server:

1. In the navigation area, click on the node of the server being configured.
2. Click **Scheduler**:



3. In the *Scheduling* area, activate the **Enable scheduling** function and then the required update interval (Once, Hourly, Daily, Weekly, Monthly or Every x days/hours/minutes).
4. If you have enabled Every x days/hours/minutes enter an update interval. The minimum interval is 15 minutes.
5. Specify the start date and time for the first update in the **Start time/ Start date** fields.

The scheduler has been configured. When you exit the dialog box you will automatically receive a prompt to save all changes. The service performs product updates at the specified date and time and at the appropriate intervals.

**Note**

The selected interval must be at least 5 minutes longer than the interval set for the automatic copying of files in test mode.

## 3.2 Configuration without graphical user interface (Linux)

The most important settings for your Avira Update Manager are contained in the configuration file */etc/avira/ium.conf*.

**Note**

To edit the configuration, open the file in an editor, make the required changes and restart the AUM (see ["Starting and stopping AUM manually" - page 46](#)).

**Note**

Please note that any comments you write in the *ium.conf* file will be deleted each time AUM is restarted.  
Password encryption makes it necessary to configure certain functions via the AUM Frontend.

**Note**

Currently the Avira Update Manager for UNIX-based operating systems is only available in English. Therefore, **do not** edit the parameter  
`<language value="en" />`.

### 3.2.1 Server settings

The default value `0.0.0.0` ensures that the Avira Update Manager is listening to all available network interfaces.

The default setting

```
<ip value="0.0.0.0"/>
```

can also be changed as required. Replace 0.0.0.0 with the corresponding IP address or host name.

### 3.2.2 Setting up a proxy server

Avira Update Manager may use a proxy server for updates. By default, this function is disabled.

```
<use_proxy value="false" />
```

Enable it by making the following changes in the *ium.conf* file:

```
<use_proxy value="true"/>
```

Then insert the information required for the proxy server into the configuration file.

The address of the proxy server is defined with the IP address or server name using the option

```
<proxy_host value="your_proxyserverip"/>
```

while the port used is defined by entering:

```
<proxy_port value="your_proxyserverport"/>
```

Proxy server authentication is disabled by default:

```
<proxy_use_auth value="false"/>
```

Activate this by setting the parameter to

```
<proxy_use_auth value="true"/>
```

You can enter your user name under

```
<proxy_username value=""/>
```

in the command line. The password is defined in

```
<proxy_password value=""/>
```

#### Note

Passwords entered via the AUM Frontend are encrypted. If the passwords are entered by manually editing the configuration file, they will be stored in plain text. It is therefore recommended to enter the passwords via AUM Frontend.

### 3.2.3 Configuring email notifications

The Avira Update Manager can send information about completed repository updates by email. This is how you can configure it:

The SMTP server used for sending the emails:

```
<smtp_server value="smtp_server.tld"/>
```

The sender and the recipient of the notification email can be configured by editing the following parameters:

```
<smtp_from value="AVIUM@your_domain.tld"/>
```

```
<smtp_to value="AUM_Admin@your_domain.tld"/>
```

By default, if enabled, the email notifications are sent only when errors occur:

```
<smtp_level value="error"/>
```

To receive email notifications for warnings and errors, modify the `smtp_level` value to `warning`:

```
<smtp_level value="warning"/>
```

To receive email notifications after successful updates, for warnings and errors, modify the `smtp_level` value to `info`:

```
<smtp_level value="info"/>
```

Authentication on the SMTP server is disabled as the default setting:

```
<smtp_login_required value="false"/>
```

Change the parameter to

```
<smtp_login_required value="true"/>
```

to enable it.

**Note**

SMTP authentication can only be fully configured via the AUM Frontend, because the application encrypts the password, and plaintext cannot be used.

It is therefore recommended to set only the user name in the *ium.conf* file

```
<smtp_login value=""/>
```

leaving the parameter for the password unchanged

```
<smtp_password value="" />
```

The password should be entered via the AUM Frontend.

### 3.2.4 Selecting the location for saving updates

The location where updates are to be saved can be chosen as required. You can specify it by editing the following parameter in the *ium.conf* file:

```
<http_server_root value="/var/avira/ium/HttpRoot"/>
```

#### Note

The Avira Update Manager creates a specific folder structure in this directory. The files it contains should not be changed manually.

### 3.2.5 Changing the ports of the integrated HTTP server

The default settings of the AUM HTTP server are as follows:

```
<http_server_enable value="true"/>
<http_server_ip value="0.0.0.0"/>
<http_server_port value="7080"/>
<http_server_port_test value="7100"/>
```

If the port for the production server (7080) or the port for the test server (7100) is already used by another application, it should be changed into other unused port.

If you do not wish to use the integrated http server, change

```
<http_server_enable value="true"/>
```

from "true" to "false".

### 3.2.6 Changing the preset download server

The *ium.conf* file contains a default list of download servers:

```
<http_server_list_orig value="http://dl1.pro.antivir.de,http://
dl2.pro.antivir.de,http://dl3.pro.antivir.de,http://
dl4.pro.antivir.de,http://dl1.antivir.net,http://
dl2.antivir.net,http://dl3.antivir.net" />
```

#### Note

Please **do not** edit this list.

If you would prefer to use a proprietary server for the update instead of the official servers, change the following parameter from "false" to "true":



```
<override_server_list value="true"/>
```

### 3.2.7 Editing the list of servers

If you have specified that you wish to use your own download servers, you can specify several custom download servers, separated by commas:

```
<http_server_list_user value="ip_address:port" />
```

### 3.2.8 Editing the product list

New products can be added as follows:

```
/usr/lib/AntiVir/ium/ium --add_products
```

You can use interactive queries to add or remove a product from the repository. After running this command the configuration is saved in `/etc/avira/mirrorconfig.xml`.

#### Note

In order to run `--add_products` it is essential that the Avira Update Manager daemon is not running, otherwise the command will fail.

### 3.2.9 Configuring the repository update schedule

By default the scheduler for the Avira Update Manager is deactivated. An update schedule has to be created manually by editing the `ium.conf` file.

First, set

```
<enable value="false"/>
```

to "true".

Then you can configure the interval at which Avira Update Manager scans for available product updates and downloads them. This requires adding certain options to the configuration file. For example:

```
<scheduler>
<enable value="true"/>
<periodicity value="1"/>
<userdefinedInterval value="0"/>
<userdefinedIntervalSeconds value="0"/>
<start value="1293015226"/>
<weekdays value="127"/>
</scheduler>
```

**Frequency of the updates:**

The frequency of the updates is set with the parameter:

```
<periodicity value="" />
```

Available values:

- 0 = once
- 1 = hourly
- 2 = daily
- 3 = weekly
- 4 = monthly
- 5 = user-defined

If you select 5, you must also set a user-defined interval. This is done with

```
<userdefinedInterval value="" />
```

The specification is made in hours, i.e. 1 = one hour, 2 = two hours, etc.

You can use

```
<userdefinedIntervalSeconds value="" />
```

to set the seconds.

The interval (in seconds) is then yielded from the sum of the two specified values:

```
userdefinedInterval * 3600 + userdefinedIntervalSeconds.
```

**Note**

The selected interval must be at least 5 minutes longer than the interval set for the automatic copying of files in test mode.

In order to set the scheduler for certain days of the week, use:

```
<weekdays value="" />
```

Available values:

- 0 = once
- 1 = Sunday
- 2 = Monday
- 4 = Tuesday
- 8 = Wednesday
- 16 = Thursday

- 32 = Friday
- 64 = Saturday
- 127 = every day

**Start time:**

To specify the start time, you must calculate the seconds since 1970. The date command can be used to calculate the current time in seconds

```
date +%s
```

Accordingly, a specific time can be converted to this format with the command

```
date -d "Year-Month-Day Time" +%s,
```

e.g.

```
date -d "2010-08-24 9:07" +%s
```

Enter the result as the start time, e.g.

```
<start value="1277483495"/>
```

Each subsequent update takes this data as the starting point.

After enabling the Scheduler, the AUM Server adds the following parameters to the configuration file, which you should not change:

```
<state value="3"/>
```

```
<lastRun value="0"/>
```

```
<clienttimezoneoffset value="-60"/>
```

- `state` returns the status of the update task: 0 (task completed successfully), 1 (task failed), 2 (task in progress), 3 (task not run yet)
- `lastRun` shows the time (in seconds, like the `start` parameter) when the task has lastly been run
- `clienttimezoneoffset` is used by the server to compensate any time zone differences

### 3.3 Configuration with graphical interface (Linux AUM Server via AUM Frontend on a Windows client)

If you have enabled Avira Update Manager in daemon mode, you can also manage Avira Update Manager via a graphical user interface (GUI).

For this you need a Windows client (e.g. Windows XP) on your network to install the AUM Frontend.

After installing Avira Update Manager on your Linux system, you must ensure that it is started and can be selected. For this you can use the default basic configuration provided.

You can conveniently define all Avira Update Manager settings at a later time via the AUM Frontend.

### Prerequisites

Requirements for remote management of Avira Update Manager on your Linux system:

- Avira Update Manager has been correctly installed and started
- The relevant ports have been opened in the firewall
- A Windows client is available and Avira Update Manager can be accessed from this client
- The AUM Frontend is installed on the Windows client
- The following incoming and outgoing ports must be enabled on your Windows client for remote management: 7100, 7050, 7051, 7080

1. Enter the following command in the console. For this you require **root** rights.

```
avium start
```

or:

```
/usr/lib/AntiVir/iium/avium start
```

The Avira Update Manager is then started and runs in daemon mode.

```
avium start
Starting Avira Update Manager...
Starting: iium
```

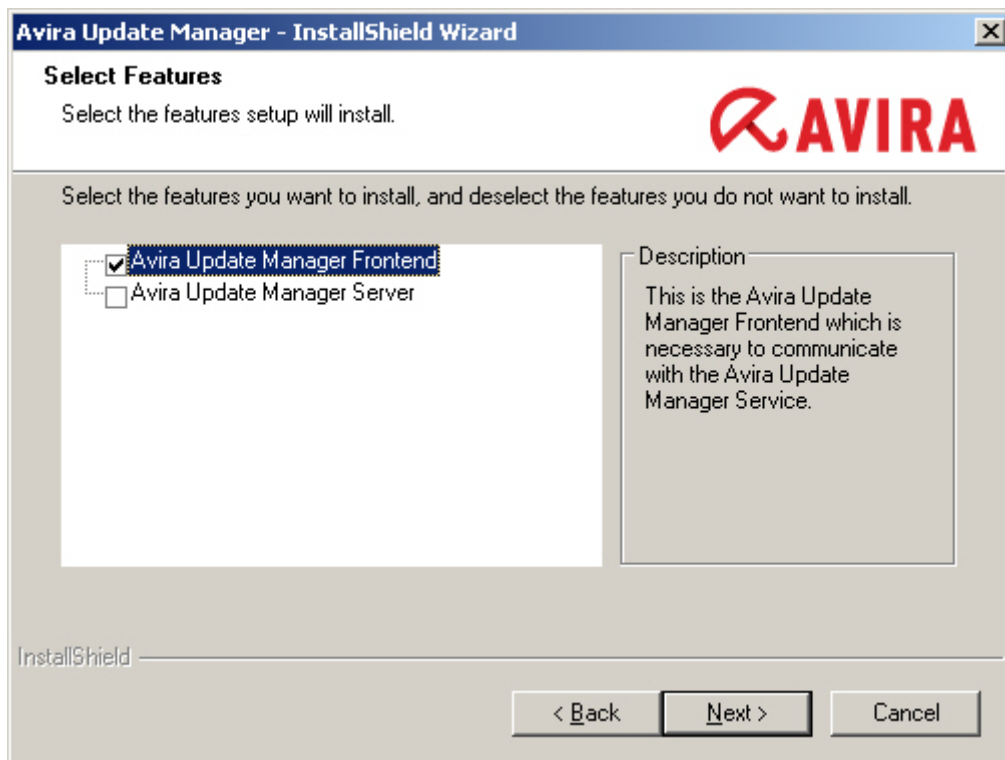
2. If you wish, you can check whether the daemon Avira Update Manager is “listening” on its network ports as follows:

```
# netstat -anp|grep iium
tcp 0 0 0.0.0.0:7080 0.0.0.0:* LISTEN 3722/iium
tcp 0 0 0.0.0.0:7050 0.0.0.0:* LISTEN 3722/iium
tcp 0 0 0.0.0.0:7051 0.0.0.0:* LISTEN 3722/iium
tcp 0 0 0.0.0.0:7100 0.0.0.0:* LISTEN 3722/iium
```

3. You can then install the AUM Frontend **on the Windows client**.

The AUM Frontend is a component of the Avira Update Manager for Windows.

- Go to [www.avira.com](http://www.avira.com) under **Support > Download** and download Avira Update Manager (Windows).
- Start installing the Avira Update Manager.  
During installation, you can choose which components to install:



- Please select only the first option, **Avira Update Manager Frontend**, and continue.
  - After installation you can access the AUM Frontend under **Start > Programs > Avira > Avira Update Manager Frontend > Avira Update Manager Frontend**.
4. Configure AUM via the AUM Frontend, as described in [3.1 Configuration with graphical interface \(Windows\) - page 19](#).

#### Note

If you wish to define a new password for the connection between the AUM Frontend and Avira Update Manager service, this can also be carried out under Linux. In the command line enter  
`./ium --password=`  
 followed by the required password.

## 4. Operation

### 4.1 Operation on Windows (with graphical interface)

The following requirements must be met:

- The Avira Update Manager service is running on the server(s)
- The Avira Update Manager Frontend has been started

This chapter deals with the following topics:

- ["Testing the updates" - page 38](#)
- ["Starting and stopping product updates manually" - page 40](#)
- ["Updating the AUM Server" - page 41](#)
- ["Updating the AUM Frontend" - page 42](#)
- ["Displaying the logfile" - page 43](#)
- ["Displaying product update version information" - page 44](#)

#### Note

Using the AUM Frontend on Windows, you can also configure the following issues for the Linux AUM Server:

["Testing the updates" - page 38](#),  
["Starting and stopping product updates manually" - page 40](#),  
["Displaying the logfile" - page 43](#)  
["Displaying product update version information" - page 44](#)

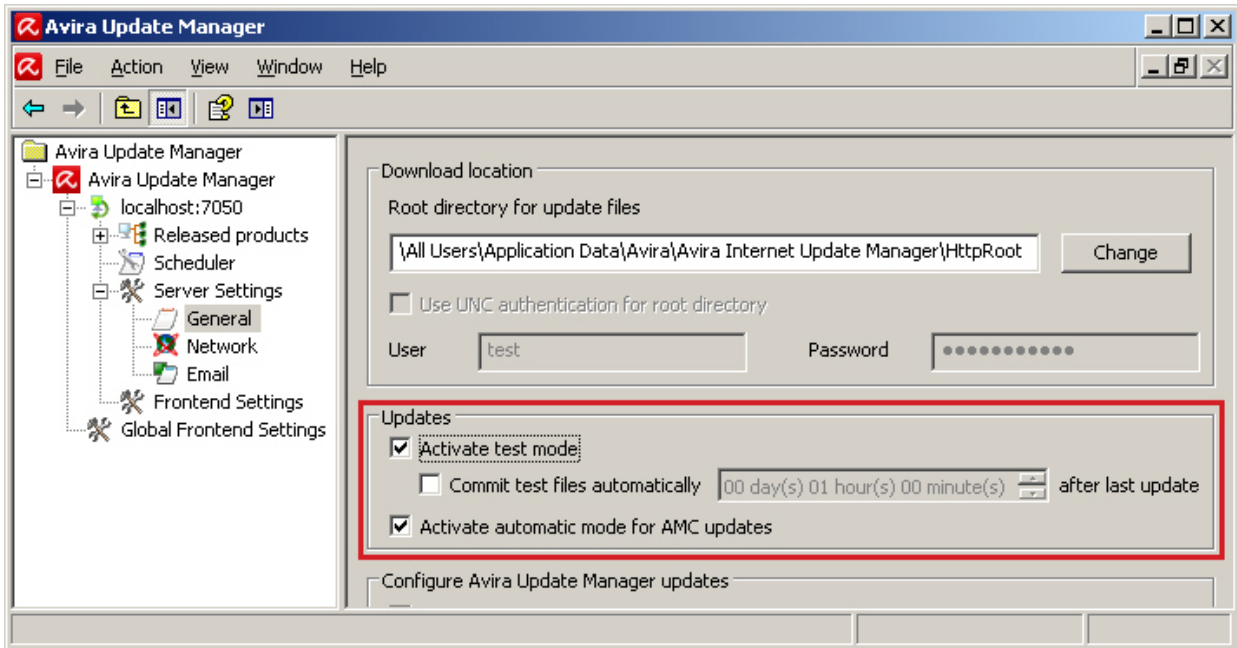
#### 4.1.1 Testing the updates

Avira Update Manager provides updates via a special test port in test mode. Selected test computers can thus test the downloaded files. If these files are found not to contain errors, they can be approved for the regular port by the user manually or by means of an automatic procedure. The update is available to all clients.

To operate Avira Update Manager in test mode, the following settings must be configured:

1. In the navigation area, double-click on the node of the server being configured.
2. Double-click on the **Server Settings** node.

### 3. Click **General**:



4. Enable the *Activate test mode* option in the *Updates* area. The test files can be transferred either manually or automatically. Enable the *Commit test files automatically* option and enter the required time (in minutes).

#### Note

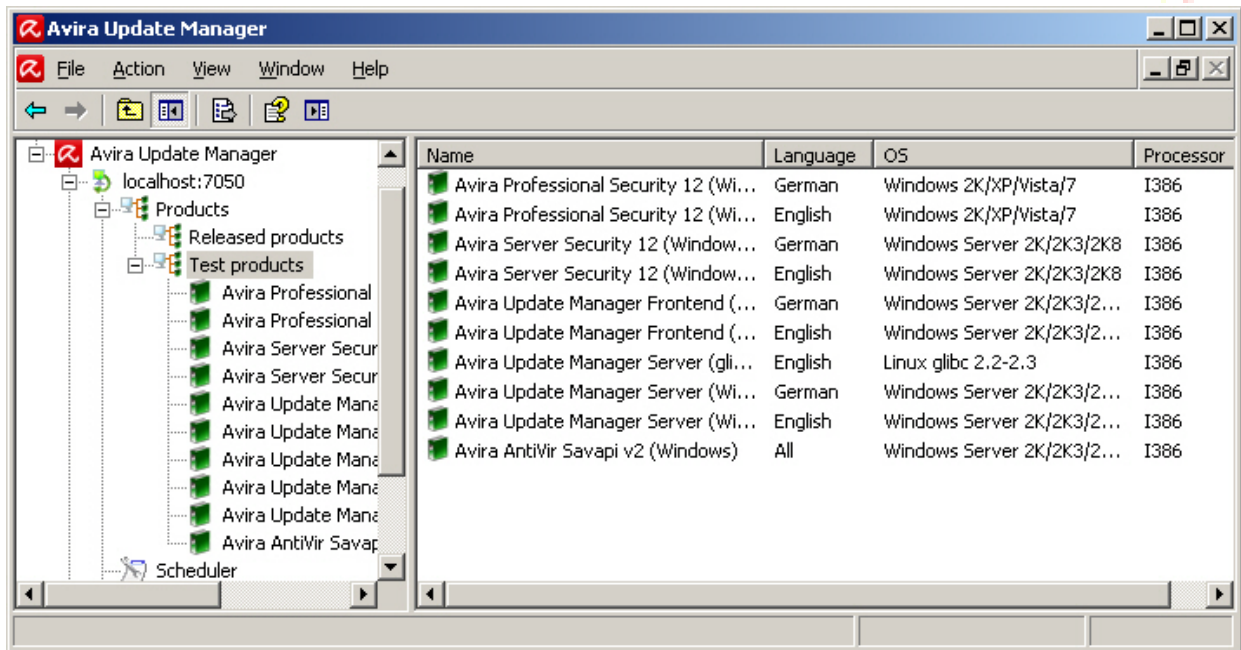
If the server is restarted after an update, the automatic commit for the last update is discarded.

#### Note

The selected interval must be at least 5 minutes less than the interval set for updating the products.

The files will be copied after this period of time has elapsed.

- Click **Yes** to confirm the change. The AUM Servers are first reinitialized (Status: ).



If problems occur during the test, the copying of the test files can be terminated. Right-click on the **Test products** node and select *Drop upcoming commit*.

Alternately, you can enter

```
--drop_automatic_commit
```

in the command line. This means that the automatic product commit remains activated but that queued files are deleted. New files are not saved in the queue until the next update.

Manual commit, which allows files to be enabled individually at any time, is still available via the context menu of the **Test products** node.

#### 4.1.2 Starting and stopping product updates manually

You can manually start the product updates download for each server separately or stop a running download at any time.



The **Scheduler** provides a further download control option (see ["Displaying product update version information" - page 44](#)).

#### To start a product update manually:

- In the navigation area, right-click on the node for the required product and select **Update mirrored products**.



The icon in front of the selected server changes. The Avira Update Manager Server starts downloading the latest product update.

- If errors occur or the download is incomplete, the update is terminated. All temporary files are deleted and the destination directory is not changed. The following icon appears next to the selected server: 
- After a successful product update download, the following icon reappears in front of the server(s): 

#### To restart the update after an unsuccessful download:

1. Check your Internet connection and the connection to the servers in the intranet and check the logfile to find the source of the error.
2. Restart the update.

#### To stop the current product update download manually:

In the navigation area, right-click on the node for the required product and select **Cancel update**.

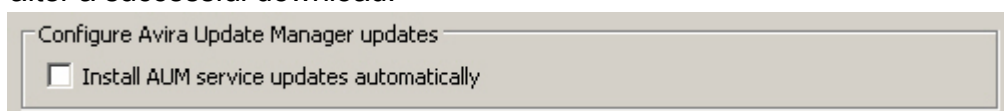
##### Note

You can restart the terminated download by clicking **Update mirrored products** again.

### 4.1.3 Updating the AUM Server

To configure the Avira Update Manager Server automatic update:

1. In the navigation area, double-click on the node of the server being configured.
2. Double-click on the **Server Settings** node.
3. Click **General**.
4. In the *Configure Avira Update Manager updates* area, enable the **Install AUM service updates automatically** if you wish to install the Avira Update Manager update directly after a successful download.



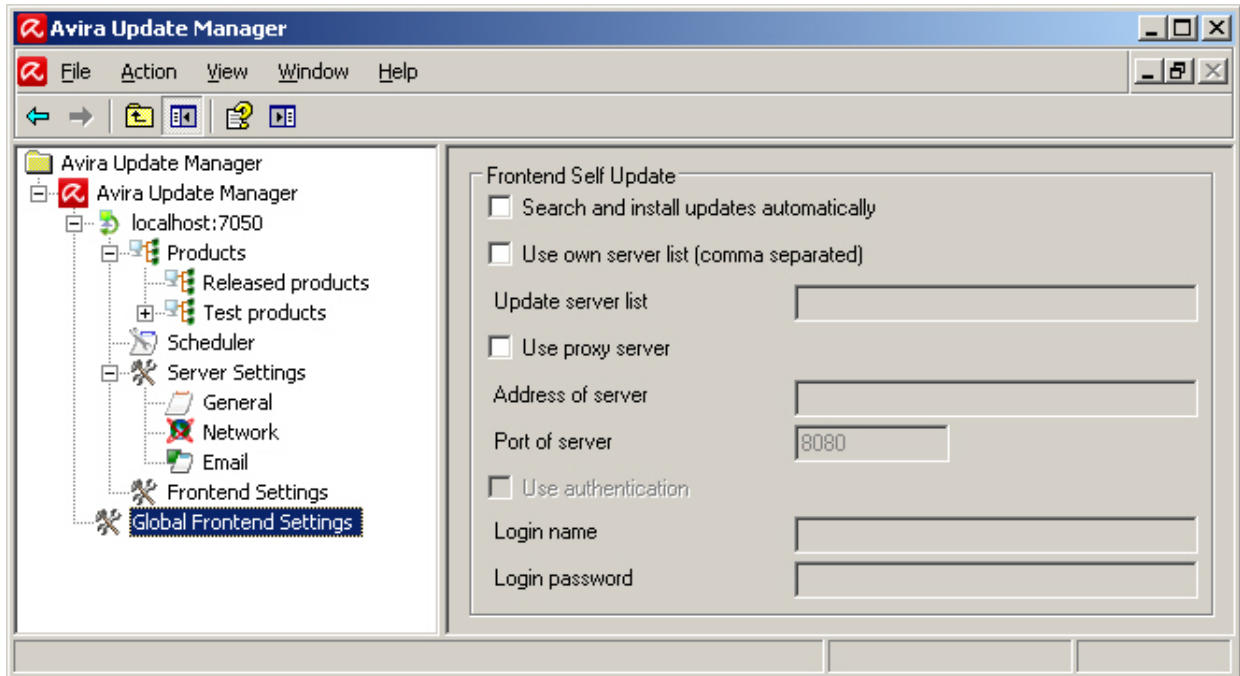
#### To update the AUM Server manually:

In the navigation area, right-click on the node for the required server and select **Start AUM server service self update**.

#### 4.1.4 Updating the AUM Frontend

To configure the AUM Frontend update:

1. In the navigation area, click on **Avira Update Manager > Global Frontend Settings**:



2. If you want the AUM Frontend to update automatically, enable the **Search and install updates automatically** option.
3. To use your own server list for AUM Frontend updates, enable the **Use own server list** option and enter the servers in the list (separated by commas). You can also use a proxy server, by enabling the **Use proxy server** option and entering the **Address**, **Port** and **Authentication**.
4. If you then click in the navigation area again, the following message appears: *"Do you want to accept the AUM Frontend settings?"* Click **OK**.

##### Note

The status of the automatic update can be checked in the logfile of the AUM Frontend.

#### To update the AUM Frontend manually:

In the navigation area, right-click on the **Avira Update Manager** node and select **Update frontend manually now**.

### 4.1.5 Displaying the logfile

The logfile records the activities of the Avira Update Manager Server. Error messages and status reports can be easily viewed and checked.

To display a server report:

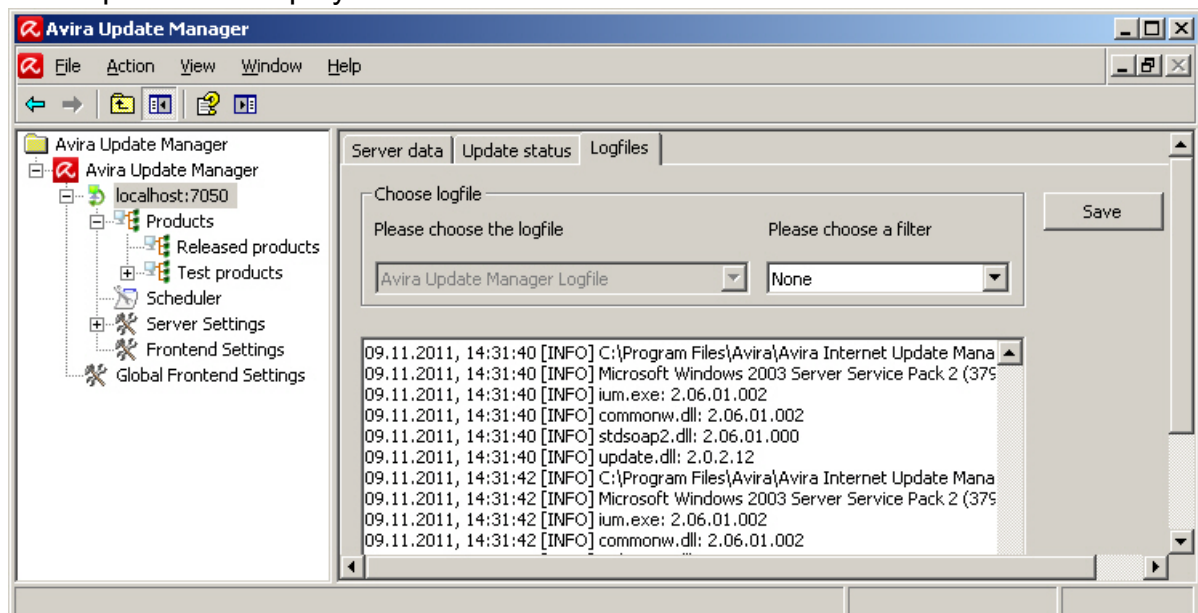
1. In the navigation area, click on the node of the required server.

There are three tabs in the detail window in the right-hand part of the MMC window:

- **Server data:** Information on Avira Update Manager
- **Update status:** Information on current product updates
- **Logfiles:** Detailed AUM logfiles

2. Click **Logfiles**.

The report file is displayed on the screen:



3. In the *Choose logfile* area, select a logfile from the list:

- **Avira Update Manager Frontend Update logfile**
- **Avira Update Manager logfile**
- **Avira Update Manager automatic update logfile**

4. Choose a filter, if you wish to filter the AUM logfile:

- Select **Errors** and only `ERROR` messages are listed.
- Select **Warnings** and only `ERROR` and `WARNING` messages are listed.

5. Press **Save** if you wish to save the logfile in .txt format.

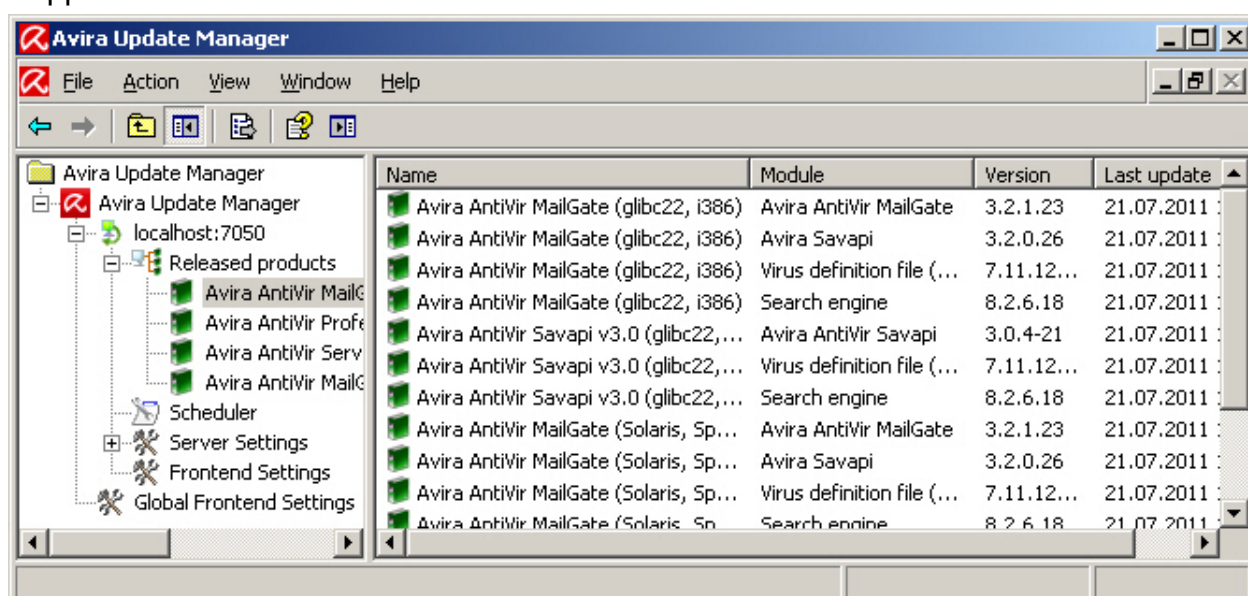
#### 4.1.6 Displaying product update version information

The files for each update product on a server contain version information, which you can choose to display.

To check which versions are on your server:

1. In the navigation area, click on the node of the required server.
2. Click on one of the products added to **Released products**.

Information on the product, virus definition file and additional required update files appears in the detail window.



## 4.2 Operation on Linux (without graphical interface)

### Note

To change the configuration, stop the Avira Update Manager, open the configuration file in an editor, make the required changes and restart the AUM (see ["Starting and stopping AUM manually" - page 46](#)).

### Note

Currently, the Avira Update Manager is available only in English, for UNIX-based systems. Please do not change the parameter `<language value="en" />`.

### 4.2.1 Testing the updates

This function provides a separate optional update structure which enables you to first scan new versions and updates before releasing the files for all your productive systems.

Technically this means starting a further HTTP service which is by default provided via the HTTP port 7100.

Ideally, you can provide a small test environment for these test releases and scan the updates before using them on your productive systems.

The test mode is disabled by default:

```
<testmode value="false"/>
```

To enable it, change the parameter in the *ium.conf* file to:

```
<testmode value="true"/>
```

If the test files have been downloaded, you can start an application to check that your systems are still fully functional with the updated files.

Enter the path to the application that is to be tested, in the parameter:

```
<start_after_update value="" />
```

This application must be certified by Avira, in order to prevent the misuse of this option by unauthorized persons. Please contact the support beforehand.

The test files can then be copied to the release folder automatically. To do this, change the parameter

```
<auto_commit_enable value="false" />
```

to

```
<auto_commit_enable value="true" />
```

You can also define an interval for copying the test files to the release folder. The time unit is one minute. According to the default setting

```
<auto_commit_interval value="60" />
```

the test files will hence be copied automatically after 60 minutes.

**Note**

The selected interval must be at least 5 minutes less than the interval set for updating the products.

If problems occur while testing the updates with the test repository, the automatic copying process of the test files can be terminated, with the command:

```
/usr/lib/AntiVir/iium/iium --drop_automatic_commit
```

This means that automatic product commit remains enabled but the currently queued commit is dropped. The next commit will not be queued until the next update download (after running `/usr/lib/AntiVir/iium/iium --get_updates`).

## 4.2.2 Starting and stopping AUM manually

If you wish to start the Avira Update Manager daemon, use the command:

```
/usr/lib/AntiVir/iium/avium start
```

The Avira Update Manager daemon can be stopped with the following command:

```
/usr/lib/AntiVir/iium/avium stop
```

To restart the daemon enter the command:

```
/usr/lib/AntiVir/iium/avium restart
```

To check whether the Avira Update Manager is running, you can use the command:

```
/usr/lib/AntiVir/iium/avium status
```

## 4.2.3 Updating products

Products are updated manually with the command

```
/usr/lib/AntiVir/iium/iium --get_updates
```

The Avira Update Manager checks if there are any new updates for the products in the repository and then downloads these immediately.

### Note

If the Avira Update Manager daemon is started, after issuing `--get_updates`, it will be in charge of getting the updates for the repository.

### Note

When the Avira Update Manager daemon has been started, the output of `--get_updates` is written in the logfile. If no daemon is running, the output will be displayed directly in the terminal.

#### 4.2.4 Canceling a download (prematurely)

If you wish to cancel a download prematurely, terminate Avira Update Manager using the **Crtl+C** shortcut only, or with

```
/usr/lib/AntiVir/ium/avium stop
```

if the AUM is running in the background.

##### Note

Using `kill -9` can lead to problems with the program requiring a computer reboot.

By sending `SIGKILL` to the `ium` process semaphores are created, which prevent further execution of the service. These can be removed via the following command: `ipcrm -s _semaphore-id_`. This means that for example the command `ipcrm -s _918270815_` deletes the semaphore with the ID 918270815.

Please follow the same procedure with other semaphores.

#### 4.2.5 Updating AUM automatically

You can set AUM to carry out a self-update, after it updates the products' repository, by changing the parameter:

```
<automatic_selfupdate value="false"/>
```

into

```
<automatic_selfupdate value="true"/>
```

If you use AUM via AMC (Avira Update Manager), you can notify the attached AMC Server about available updates, using the parameter:

```
<automatic_mode value="true"/>
```

If you answered yes during the installation (see ["Installation procedure" - page 15](#)), when asked to set automatic updates of AUM, the update command (`/usr/lib/AntiVir/ium/avupdate-ium --product=AUM`) is run automatically once a week.

To set custom automatic updates of AUM on Linux, you can insert a cron job similar to the one optionally created at the installation. For example:

```
# cat /etc/cron.d/avira_updater
```

```
16 12 * * Tue root /usr/lib/AntiVir/ium/avupdate-ium --product=AUM
> /dev/null
```

Available update files are downloaded and automatically installed.

**Note**

If you are running Avira Update Manager in daemon mode, it must be restarted after changing the configuration, for the new settings to be accepted:

```
avium restart
```

or:

```
/usr/lib/AntiVir/iium/avium restart  
Stopping Avira Update Manager...  
Stopping: iium  
Starting Avira Update Manager...  
Starting: iium
```

## 4.2.6 Displaying the logfile

The logfile records the activities of the Avira Update Manager Server.

The logfiles for Avira Update Manager can be accessed in the directory: `/var/log/iium`.

**Log level**

You can define which kind of messages are logged by editing the parameter:

```
<log_level value="info" />
```

- **info**

The default is `info`. It means that errors, warnings and some status messages will be logged. You can decide on the extent of the log file by choosing how much detail is to be logged. From `error` to `debug` the log file becomes more and more detailed, the default `info` being the medium setting.

- **error**

In `error`-mode only errors are logged.

- **warning**

In `warning`-mode errors as well as warning are logged.

- **trace**

In addition `trace` superficially traces the service and saves it to the log.

- **debug**

`Debug` is the setting which delivers the greatest detail. When `<log_level value="debug" />` is chosen, the service is reproduced line after line in the log file, in order to monitor at which passage in the code the service has encountered a problem.



## Log file backup

By default the Avira Update Manager creates only one single logfile. If you would like to start a new logfile after every restart, set

```
<log_append value ="true" />
```

to false.

This also gives you the option of setting a maximum file size in kB by using the parameter:

```
<log_max_size value="1024" />
```

If this file size is reached, the current logfile is backed up and a new logfile is created.

The number of backups can also be limited via the following parameter

```
<log_backup_count value="10" />
```

The earliest backup will be deleted at the creation of a new one.

## 5. Frequently Asked Questions (FAQ)

### What must I look out for when configuring the Avira Professional Security 2012 for Windows?

Avira Update Manager generates the required update structure automatically! It is important when updating via Fileserver/Share to enable the destination directory on the server, so that the update can be carried out by the Avira Professional Security 2012 for Windows.

### 5.1 Procedure for updating via Fileserver/Share

1. Under **Configuration > General > Update**, enable the **via Fileserver/Share** option.
2. Go to the **Configuration > General > Update > Fileserver** tab.
3. In the **Download** area, enter the path to the `update` folder in the destination directory specified in Avira Update Manager.

Example:

*file://192.168.1.1/AUM\_share\_name/update*

4. Where necessary, enter the server login data in the **Server Login** area.

### 5.2 Procedure for updating via Webserver (http)

1. Under **Configuration > General > Update**, enable the **via Webserver** option.
2. Go to the **Configuration > General > Update > Webserver** tab.
3. In the **Download** area, enter the address of the webserver from which the updates are to be downloaded.

Examples:

*http://192.168.1.1:7080/update*

*http://server:7080/update*

4. Where necessary, adjust the proxy server settings in the **Configuration > General > Update > Webserver > Proxy** area.

## 5.3 Procedure for updating SAVAPI products

To update SAVAPI products supported by AUM (Avira AntiVir WebGate, Avira AntiVir MailGate, Avira Server Security 2012 for UNIX, Avira Professional Security 2012 for UNIX), you have to configure */etc/avupdate.conf* by commenting out the `internet-srvs` line and inserting three new lines:

```
-----  
#internet-srvs  
intranet-srvs=http://iumserver:7080  
product-root=/update  
intranet  
-----
```

## 5.4 Avira Support

You can find more questions and answers in our [Knowledgebase](#).

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Issued Q4-2011

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