

# ***Avira Security Management Center***

*User Manual*



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# Avira Internet Update Manager (Avira IUM)

## 1 Product information

### 1.1 Functionality

Avira Internet 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 Internet Update Manager comprises the following two components:

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

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

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

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## 1.2 System requirements

For Avira Internet 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 2000, SP4
  - 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 Avira IUM user interface (the so-called Frontend) on Microsoft Windows 2000 SP4, Windows XP from SP1, Windows Vista and Windows 7 (x86 or x64 (except IA-64 systems)).

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

- Operating system (UNIX)
  - Red Hat Enterprise Linux 6 Server
  - Red Hat Enterprise Linux 5 Server (5.4)
  - Red Hat Enterprise Linux 4 Server (4.8)
  - Novell Open Enterprise Server 2 (SLES 10 SP2)
  - Novell SUSE Linux Enterprise Server 11 (SLES 11.2)
  - Novell SUSE Linux Enterprise Server 10.3 (SLES 10 SP2)
  - Novell SUSE Linux Enterprise Server 9 (SLES 9)
  - Debian GNU/Linux 5 (stable, lenny)
  - Ubuntu Server Edition 10.04

**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 64bit version (`amd64/x86_64`) of the above mentioned Linux distributions, 32bit 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
  - 500 MB temporary memory on the hard disk (depending on the scope of the product updates).

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- An Internet connection (modem or LAN)
  - Administrator rights (for installing the Avira Internet Update Manager)

**NOTE:** *If your operating system is not a server operating system, a maximum of 10 simultaneous connections to the integrated HTTP server are possible.*

## 2 Installation

### 2.1 Installation with Windows

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

Then, if required, install the IUM server on all other servers on the intranet which you have designated for supplying clients (see chapter: [Installing the Avira IUM Server on other servers](#)).

**NOTE:** *You can also install the Internet Update Manager Frontend on other computers and use it to conveniently control the servers with the installed Internet Update Manager Server (see chapter: [Installing the Avira Frontend on other computers](#)).*

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

- 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 Internet Update Manager are opened in the firewall
- No other programs are occupying the IUM network port

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Perform the installation using the following steps:

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

### 2.1.1 Install Avira IUM

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

The Avira Internet Update Manager is provided for download in the **Download area** of Avira AntiVir Professional, in the section **Tools**.

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**.

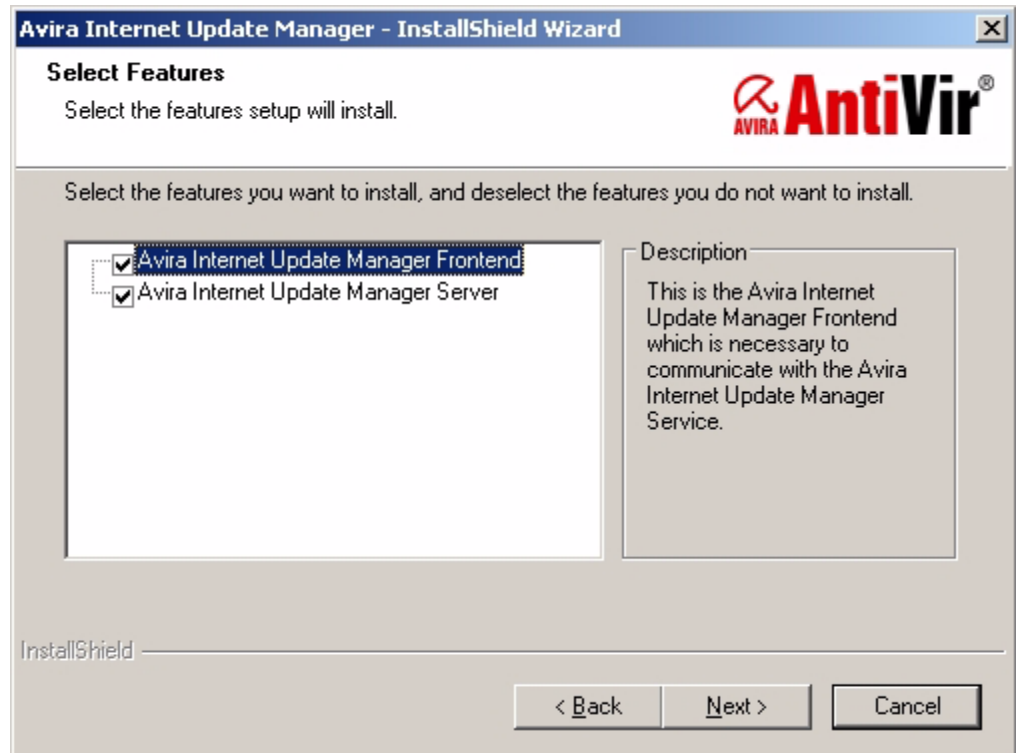
The setup program for Avira Internet Update Manager starts. The dialog box **Welcome...** appears.

5. Click **Next**.

The dialog box with the license agreement appears.

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

The dialog box **Select features** appears:



7. Highlight the required components and click **Next**.  
If you have selected **Avira Internet Update Manager Server** for installation, the **Select destination path** 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 **IUM Network Configuration** appears.

**Avira Internet Update Manager - InstallShield Wizard**

**IUM Network Configuration**  
Specify the network settings of the Internet Update Manager.

**Frontend/Server Communication**  
 Command Port: 7050      Notification Port: 7051

**Http Server**  
 Network Interface: All  
 Port: 7080      Test Port: 7100  
 Root Directory: C:\Documents and Settings\All Users\Application      [Change...](#)  
☐ UNC authentication for root directory  
 User:      Password:

< Back      **Next >**      Cancel

9. Confirm the specified configuration by clicking **Next**. Or: If necessary, change the predefined ports accordingly. The selected ports are opened automatically during installation and remain open afterwards.

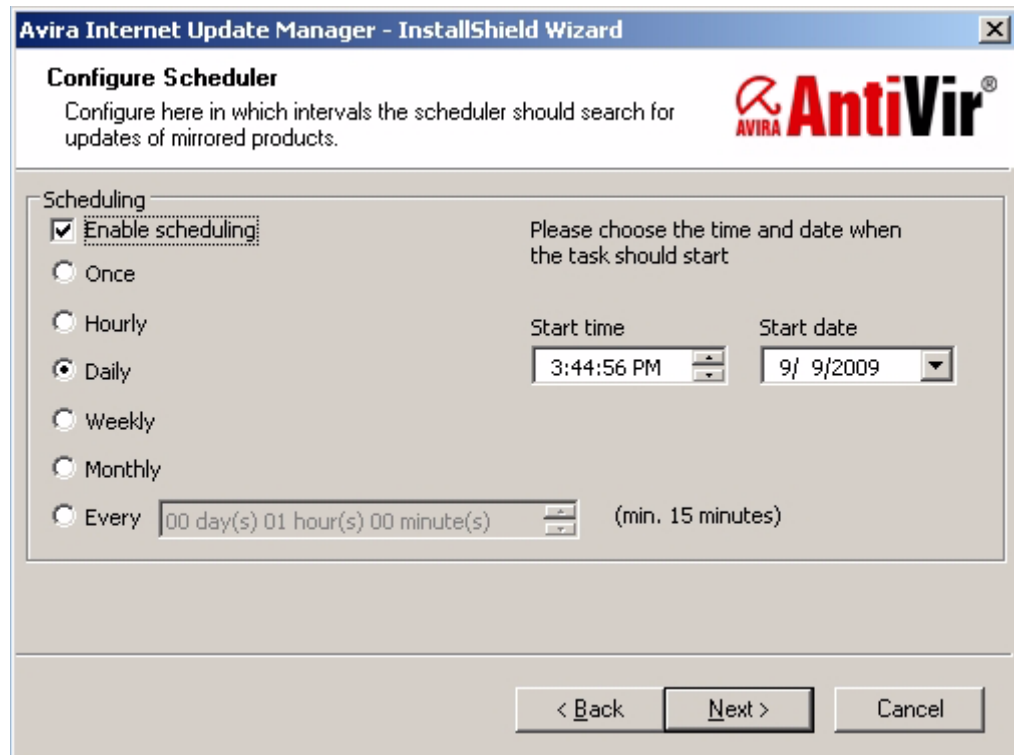
If required, use **Change...** to select a different **root directory** and choose a specific adapter under **Network Interface** or leave the setting at **All**. You can also use a UNC path as the root directory and enter the **UNC authentication** here. However, locally connected networks cannot be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

Confirm with **Next**.

The **IUM service account** dialog box appears.

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

The dialog box **Configure Scheduler** appears.



11. 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.
12. You will now be asked whether you want IUM 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 for installation** appears.
13. In the next dialog box, click **Install**.  
  
Avira Internet Update Manager is installed. The message **Installation finished** appears.
14. Click **Finish**.  
  
The setup program creates a new entry in the Windows Start menu **Avira - Avira Internet Update Manager Frontend**.



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The installation has been completed successfully.

After installation, the Avira IUM Server starts immediately and must be configured with the Avira IUM Frontend for the product update at a later time (see chapter: [Configuration](#)).

## 2.1.2 Installing the Avira IUM Server on other servers

**NOTE:** *Installing the IUM Server on multiple servers is usually only necessary for large networks (>2000 computers).*

1. Follow the procedure for the initial installation of the Server and Frontend (see chapter [Install Avira IUM](#)), until the dialog box **Select components** appears.
2. Only highlight the component **Internet Update Manager Server** and click **Next**.

The dialog box **Select destination path** 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 **IUM 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 **IUM 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 IUM Server to be dealt with as an exception in the Microsoft Windows Firewall.  
If you confirm by selecting **Yes** the firewall will be configured

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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 for installation** appears.

9. Click **Install**.

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

10. Click **Finish**.

Installation of the Internet Update Manager Server on the server has been successfully completed.

11. Repeat this installation until the IUM server is running on all designated servers.

After installation, the Avira IUM Server starts immediately and must be configured with the Avira IUM Frontend for the product update at a later time (see chapter [Configuration](#)).

### 2.1.3 Automatically configured installation

Avira Internet 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, extract the product `avira_update_manager_en.exe`. 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"File 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_ium_en.iss`.

**NOTE:** The Internet Update Manager, including the Frontend can also be uninstalled automatically (see chapter [Deinstallation](#)).

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## 2.1.4 Installing the Avira Frontend on other computers

1. Follow the procedure for the initial installation of the Internet Update Manager Server and Internet Update Manager Frontend (see chapter [Install Avira IUM](#)), until the dialog box **Select components** appears.
2. Highlight the component **Internet Update Manager - Frontend** only and click **Next**.

The dialog box **Select destination path** appears.

3. Confirm the specified destination directory by clicking **Continue**.  
Or: Use the **Change...** button to select a different destination directory and confirm by clicking **Next**.

The dialog box **Ready for installation** appears.

4. Click **Install**.

The Internet Update Manager Frontend is installed. The message **Installation finished** appears.

5. Click **Finish**.

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

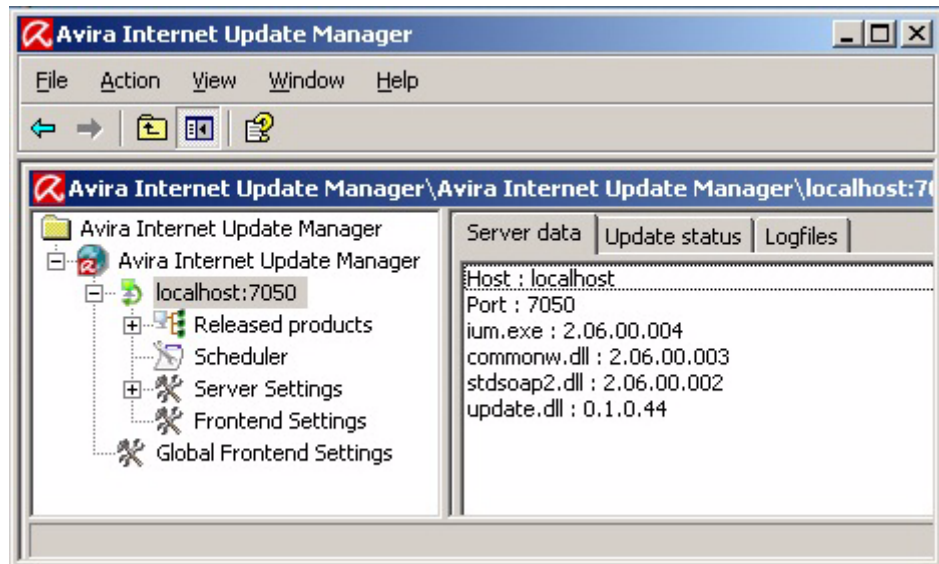
Installation of the Internet Update Manager Frontend has been successfully completed.

## 2.1.5 User interface

In Windows, the Avira Internet Update Manager service is controlled by means of the graphical user interface – the Internet 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 Internet 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 Internet Update Manager 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 detailed window. Many types of information can be displayed in the detail window, including tables and columns.



The entries in the collapsible navigation structure are designated as nodes, for example, the **Server Settings** node. Entries which cannot be further collapsed are designated sheets, e.g. the **General** sheet.

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

- **Avira Internet Update Manager**

This is the root node to which the administered IUM Servers are added. The detail window shows the version of the Avira IUM Frontend and the logfile for automatic updates.

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

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

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





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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 Avira IUM); **Network** (configuration for source for 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
	Avira IUM is attempting to make a connection to the server
	An error has occurred.

## 2.2 Installation with Linux

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

- System requirements are fulfilled
- Administrator rights and root rights for the installation
- No other applications are installed that occupy the IUM network port
- IUM network ports are opened in the firewall

Installation of the Internet Update Manager is performed automatically with the aid of an interactive installation script (*Bash Commandline*).

The script performs the following steps:

- License retrieval (EULA)
- Checking the integrity of the installation files.

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- 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. Please extract the current installation package, e.g. to /tmp:  

```
cd /tmp; tar -xzf avira_update_manager_unix_en.tar.gz
```
3. Change the directory to which you have extracted Avira Internet Update Manager:  

```
cd avira_update_manager_unix-<version>
```
4. Enter the following:  

```
./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:

```
2) installing AVIRA IUM
creating /usr/lib/AntiVir/ium ... done
creating /usr/lib/AntiVir/ium/ssl ... done
....
```

You will then be asked if you wish to create an icon link to the IUM 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 IUM.

Do you want Avira Internet Update Manager to be automatically loaded at system start-up?

```
Please specify if boot scripts should be set up.
```

```
Set up boot scripts? [y]:
```

- 
7. Recommended: y(es).

Automatic system start-up is configured:

```
setting up boot script ... done  
installation of AVIRA IUM complete
```

If you would prefer to start the Daemon Internet 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 Avira IUM 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=IUM
```

Would you like to create a link in /usr/sbin for avupdate-ium ? [y]:

8. Recommended: y(es).

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

9. Recommended: y(es).

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

Installation of the following features complete:

AntiVir IUM updater

AntiVir Internet updater

## 2.3 Reinstall Avira IUM (under Linux)

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

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



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## 2.4 Deinstallation

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

To uninstall Avira Internet Update Manager (e.g. in Windows XP):

1. Open the **Control Panel** via the Windows **Start** menu.
2. Double-click on **Software**.
3. Select **Avira Internet 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 Internet 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"File path to silent_uninstall_ium_en.iss"
```

The IUM is now uninstalled without user interaction.

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

To uninstall the Internet Update manager, log in as `root` and run the following command

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

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The Internet 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)

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

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

- 1) [Starting the Avira IUM Frontend for the first time](#)
- 2) [Server Settings](#)

**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.

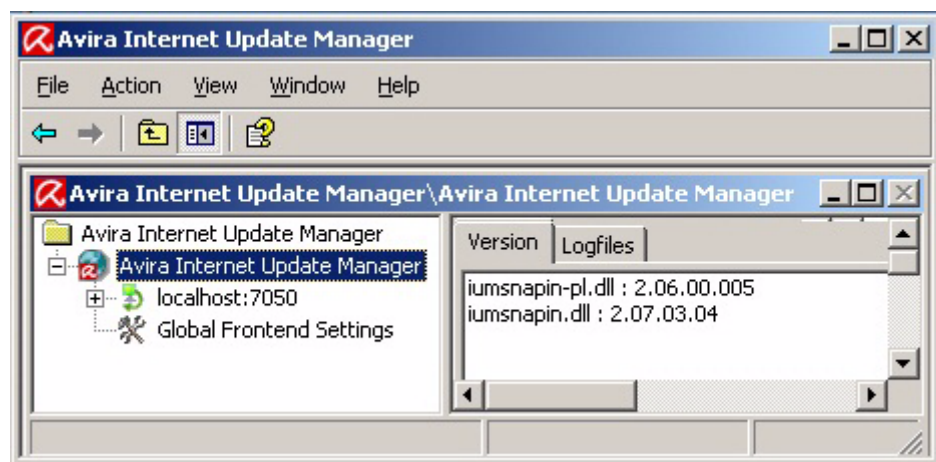
- 3) Basic settings for configuring the server
  - [Configuring Internet settings](#)
  - [Configure email notifications](#)
- 4) Advanced settings for configuring the server
  - [Selecting the location where you wish to save updates](#)
  - [Changing the ports of the integrated HTTP server](#)
  - [Changing the preset download server](#)
  - [Editing the list of IUM servers](#)

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- 5) Advanced settings for downloading the update
    - [Displaying product update version information](#)
    - [Configuring the update scheduler](#)

### 3.1.1 Starting the Avira IUM Frontend for the first time

The Internet 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 Internet Update Manager Frontend/Avira Internet Update Manager Frontend**.



The MMC with the **Avira Internet Update Manager** snap-in appears. Log in on the server, specifying the relevant password.

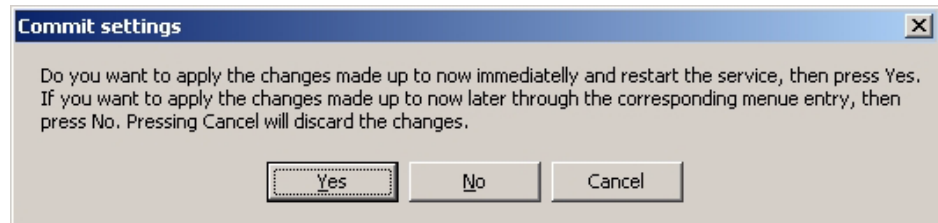
To learn how to add your servers and mirrored Avira products in the Avira IUM, go to chapters [Editing the list of IUM servers](#) and [Displaying product update version information](#).

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### 3.1.2 Server Settings

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

An **Commit settings** window appears:

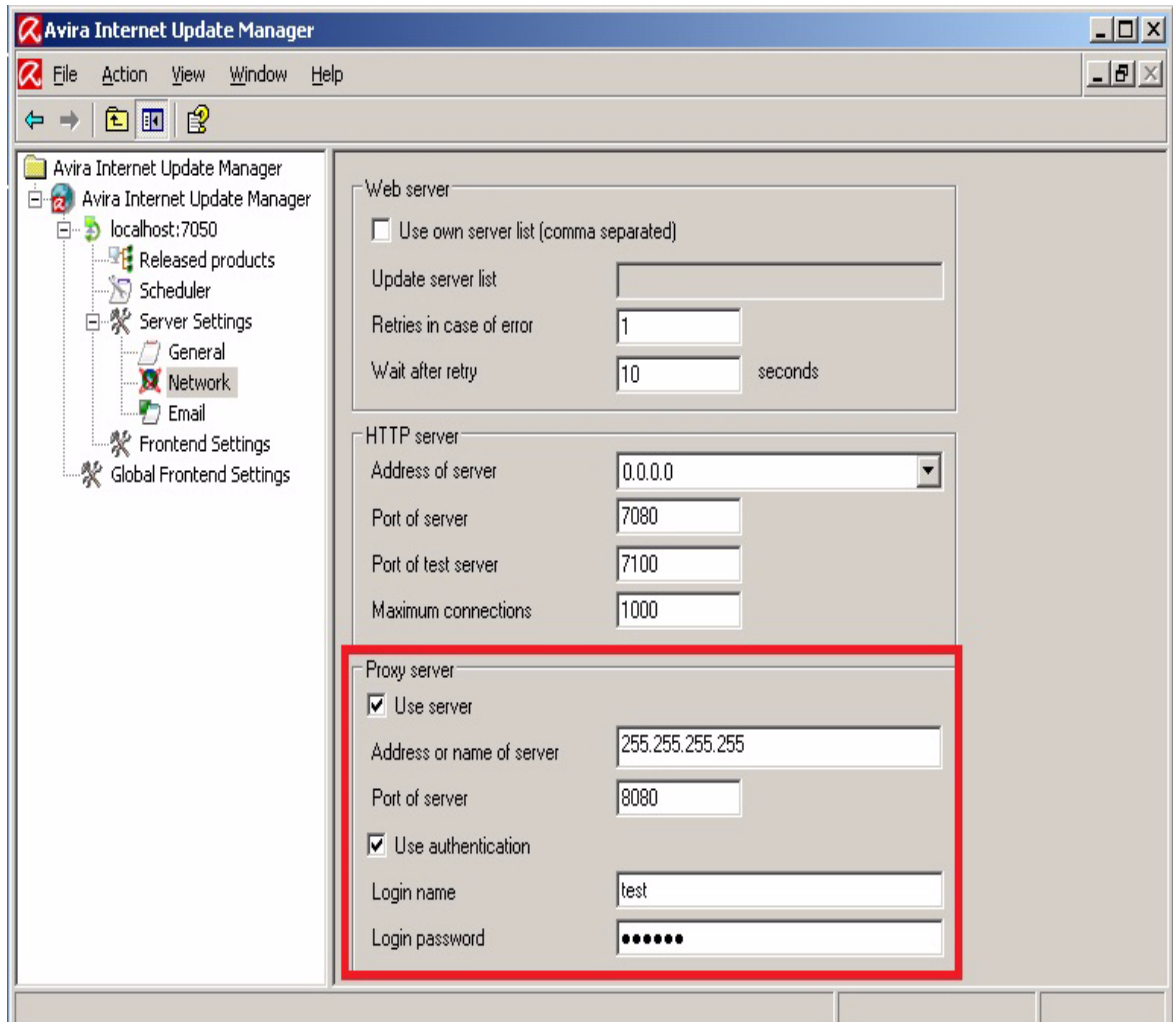


2. Click **Yes** to confirm the configuration change.

### 3.1.3 Configuring Internet settings

To configure the Avira Internet 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**.



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### 3.1.4 Setting up a proxy server

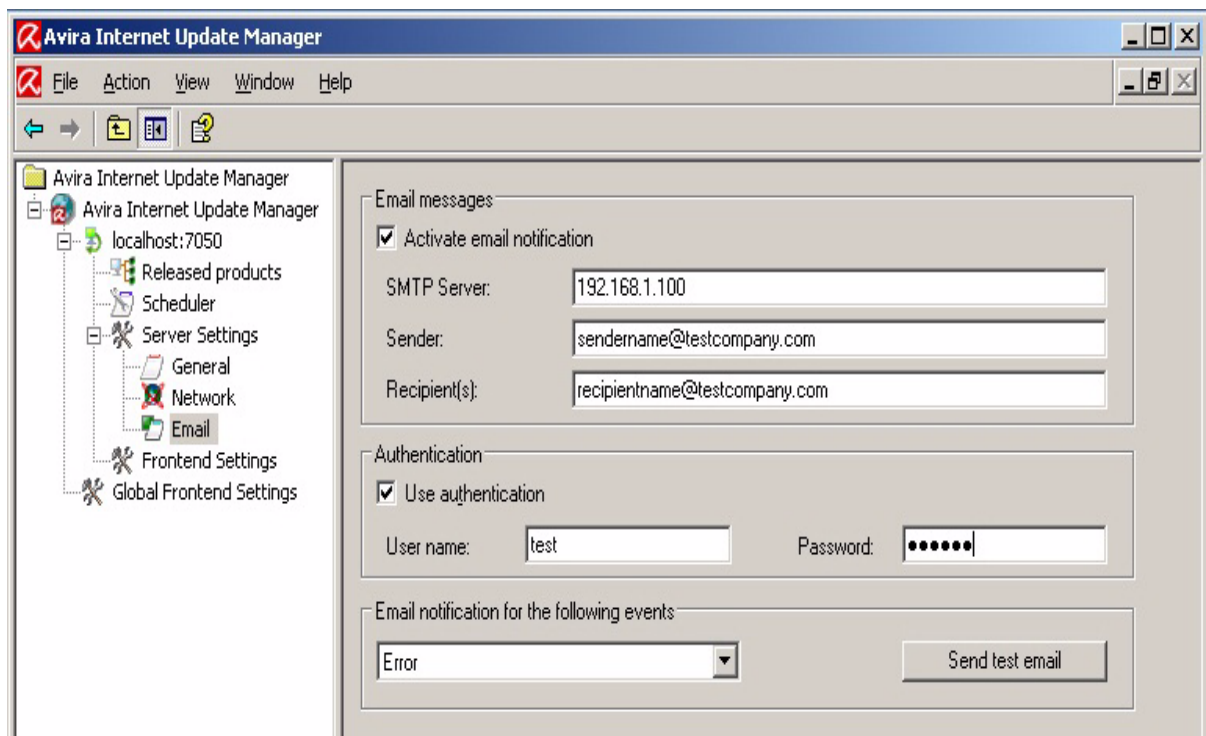
1. If the Internet is accessed via a proxy server, enable the **Use server** option in the proxy server area.
2. Enter the **Proxy server** data (optional, if required by the proxy server):
  - **Address of server**  
URL or IP address of the proxy server. Example:  
`proxy.domain.com` or `192.168.1.100`
  - **Port of server**  
Port number of the proxy server. Example: 8080 or 3128
  - **Login name**  
Name for logging in to the proxy server.
  - **Login password**  
Password for logging in to the proxy server. The password is saved in encrypted form. Only \* symbols appear in the box.

### 3.1.5 Configure email notifications

To define settings for how Avira Internet 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 **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. Example: 255.255.255.255 or mail.testcompany.com

- **Return address**

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: recipientname@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. Only \* symbols appear in the box.
  6. In the *Email notification for the following events* area, specify when Avira Internet Update Manager should send emails: **Error**, **Alert** 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.*

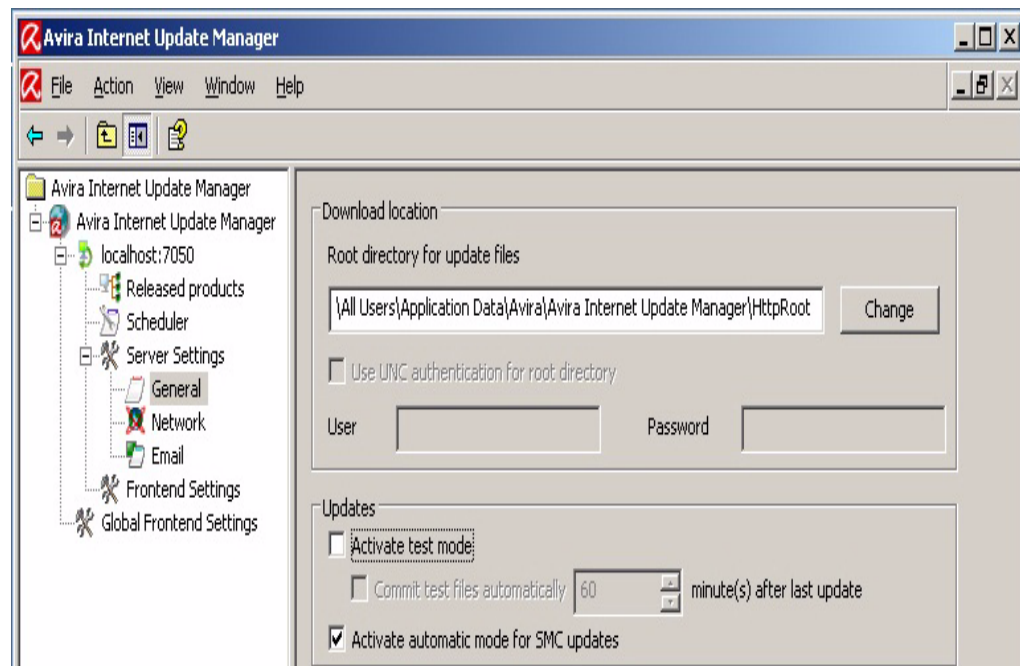
### 3.1.6 Selecting the location where you wish to save updates

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 **Root directory for update files** area, enter the destination directory on the server.

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

**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 Avira IUM Server should not be logged in as a local system account or it is not possible to log in to the host computer.

Example:

\\Host computer\\Enable\\Updates\\AntiVir\\

5. Enable the **Use authentication for root directory** option if authentication is required on the selected server.

The input boxes **User** and **Password** are active.

6. Enter the login name in the **User** area and the password for the server in the **Password** box.

The password is saved in encrypted form. Only \* symbols appear in the box.

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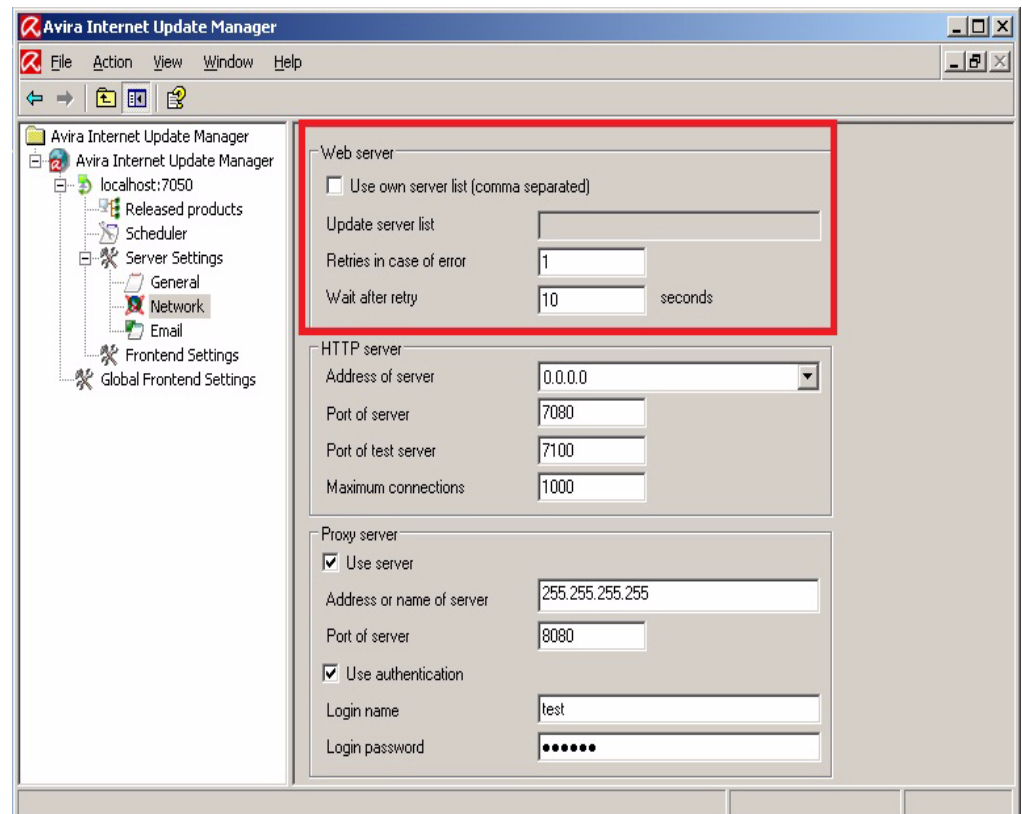
### 3.1.7 Changing the ports of the integrated HTTP server

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 specified **Server port** 7080, or the **Test server port** 7100, if these are already occupied by an application on this computer.

**NOTE:** *If your operating system is not a server operating system, a maximum of 10 simultaneous connections to the HTTP server are available.*

### 3.1.8 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 **Update server list** input box, enter the required download server (IP address or computer name).

**NOTE:** You can also specify multiple proprietary download servers, separated by a comma.

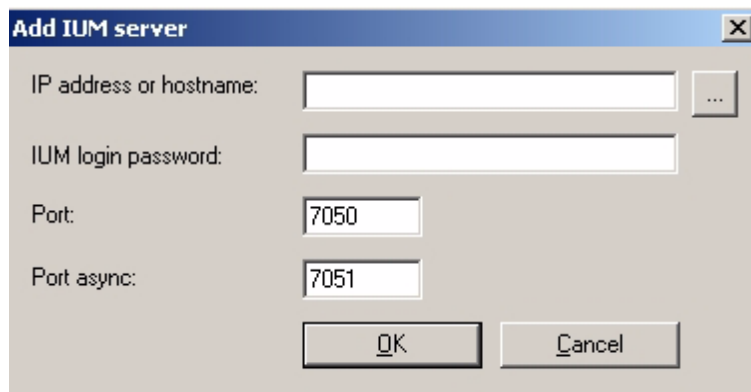
### 3.1.9 Editing the list of IUM servers

To add a new server:

1. Right-click on the **Avira Internet Update Manager** and select **Add new IUM server**.

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

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

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

### To delete a server

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

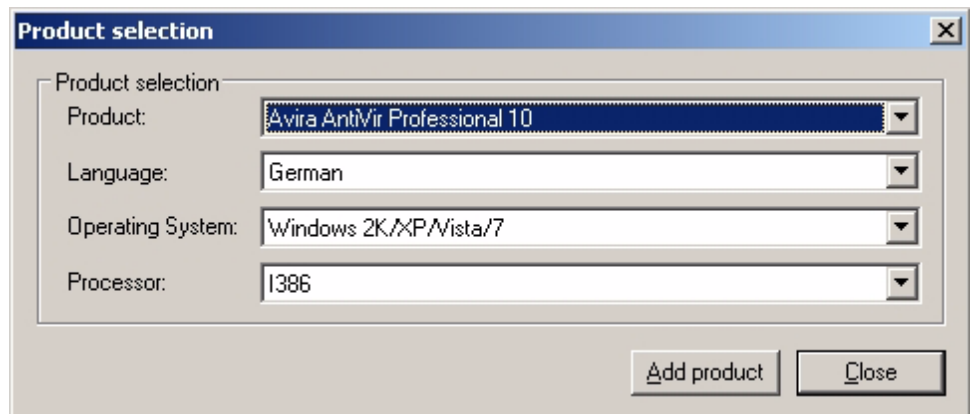
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### 3.1.10 Editing the product list

To select a product to be updated by the Avira Internet 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 **Add product**.

The **Product selection** dialog box opens:



3. In the **Product** area, select the product to be updated via the drop-down button.
4. In the **Language** area, select the required language via the drop-down button.  
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** area, select the appropriate operating system via the drop-down button and select the processor type in the **Processor** area.
6. Click **Add product**.

The product is added to the list of released products.

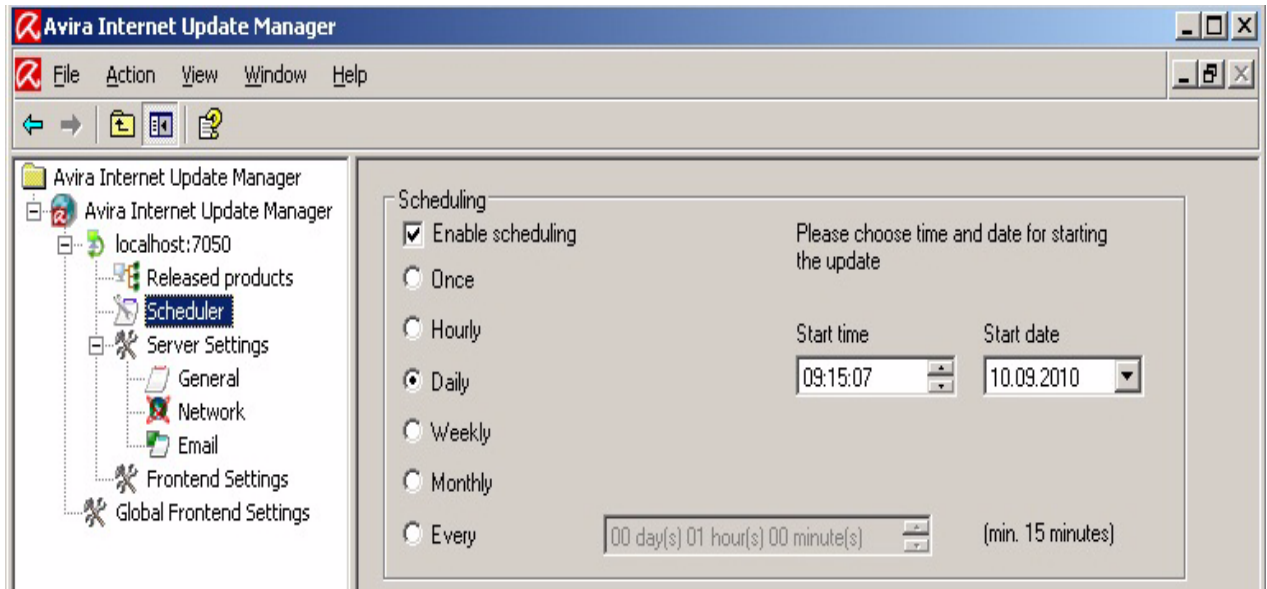
#### To delete a product

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**.

### 3.1.11 Configuring the update scheduler

To configure the interval at which Avira Internet 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** area.

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 Internet Update Manager are contained in the configuration file `/etc/avira/ium.conf`.

To see this file, please enter the following command in the terminal:

```
vi /etc/avira/ium.conf
```

**NOTE:** To edit the configuration, open the file in an editor, make the required changes and restart the IUM (see [Starting and stopping IUM manually](#)).

**NOTE:** Please note that any comments you write in the `ium.conf` file will be deleted each time IUM is restarted.

Password encryption makes it necessary to configure certain functions via the Frontend.

**NOTE:** Currently the Internet Update Manager for UNIX-based operating systems is only available in English. Please refrain therefore from editing the parameter `<language value="en" />` in any way.

### 3.2.1 Server settings

The default value `0.0.0.0` ensures that the Internet 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

Internet Update Manager may use a proxy server for updates. This function is disabled as the default setting.

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

Enable this 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 as the default setting:

```
<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=""/>
```

Passwords entered via the 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 Frontend.

### 3.2.3 Configuring email notifications

The Internet Update Manager can send information about completed repository updates by email. This is configured as follows:

An email notification, which informs you which files have been updated is set up as follows:

```
<smtp_server value="your_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="IUM_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:** Please note that SMTP authentication can only be fully configured by means of the Frontend because the application encrypts the password and plaintext cannot be used.

It is therefore recommended that only the user name

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

should be set using the ium.conf file and that the parameter for the password

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

should be left unchanged and the password should be entered via the 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 Internet 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 IUM 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.antivi
r.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=""/>
```

### 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 download servers of your own, separated by commas:

```
<http_server_list_user value="ip_adresse: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 Internet 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 Internet Update Manager is deactivated. An update schedule has to be created manually by editing the `ium.conf` file. Firstly, set

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

to `"true"`.

Then you can then configure the interval at which Avira Internet Update Manager scans for available product updates and downloads these updates. This requires that various options should be added to the configuration file.

#### Frequency of the updates

The frequency of the updates is set by means of the

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

parameter.

In this context

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.*

## 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.

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

If you have enabled Internet Update Manager in Daemon mode, you can also manage Internet 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 IUM Frontend.

After installing Avira Internet 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 Internet Update Manager settings at a later time via the IUM Frontend.

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

- Internet Update Manager has been correctly installed and started
  - The relevant ports have been opened in the firewall
  - A Windows client is available and Internet Update Manager can be accessed from this client
  - The IUM 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. Please open a console and enter the following. For this you require **root** rights.

```
avium start
```

or:

```
/usr/lib/AntiVir/ium/avium start
```

The Internet Update Manager is then started and runs in Daemon mode.

```
avium start
```

```
Starting AVIRA Internet Update Manager...
```

```
Starting: ium
```

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

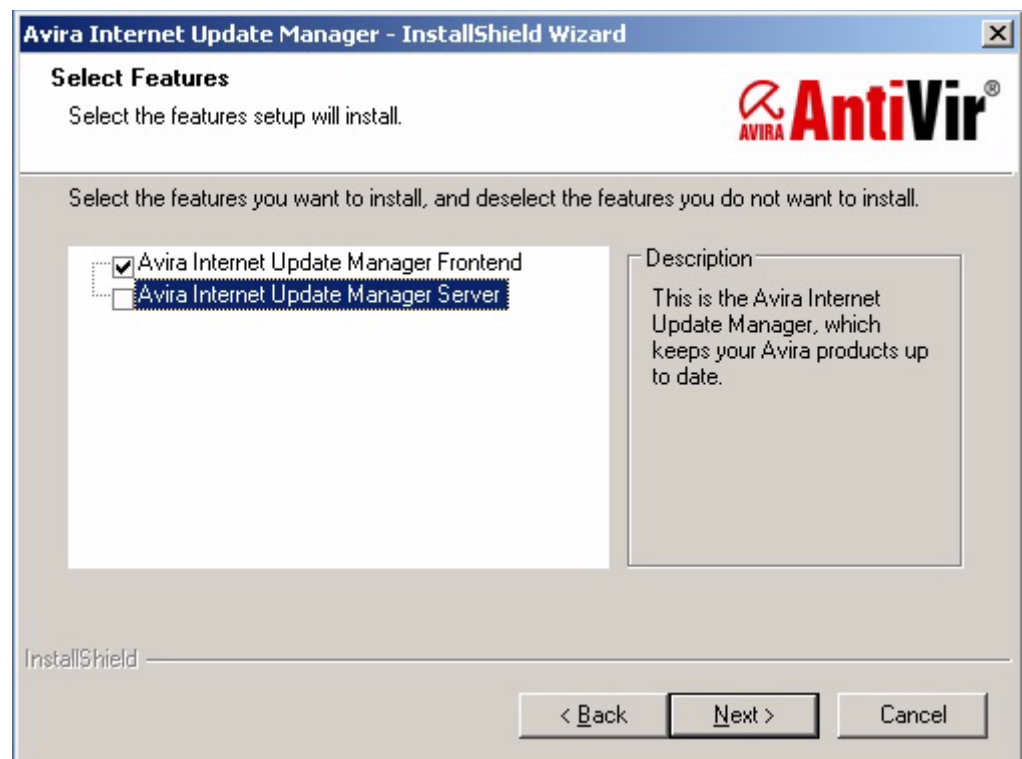
```
# netstat -anp|grep ium
tcp 0 0 0.0.0.0:7080 0.0.0.0:* LISTEN 12980/ium
tcp 0 0 0.0.0.0:7050 0.0.0.0:* LISTEN 12980/ium
tcp 0 0 0.0.0.0:7051 0.0.0.0:* LISTEN 12980/ium
tcp 0 0 0.0.0.0:7100 0.0.0.0:* LISTEN 12980/ium
```

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

The Frontend is a component of Internet Update Managers for Windows.

- a Go to [www.avira.com](http://www.avira.com) under Download, select Avira AntiVir Professional, for example, and download Internet Update Manager (Windows).
- b Start installing the Avira Internet Update Manager.

During installation, you can choose which components to install:



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

---

**NOTE:** If you wish to define a new password for the connection between the Frontend and Internet 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 with Windows (with graphical interface)

The following requirements must be satisfied:

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

This chapter deals with the following topics:

- *Scanning updates in test mode*
- *Starting and stopping product update manually*
- *Updating the Avira IUM Server*
- *Updating the Avira IUM Frontend*
- *Displaying the logfile*
- *Displaying product update version information*

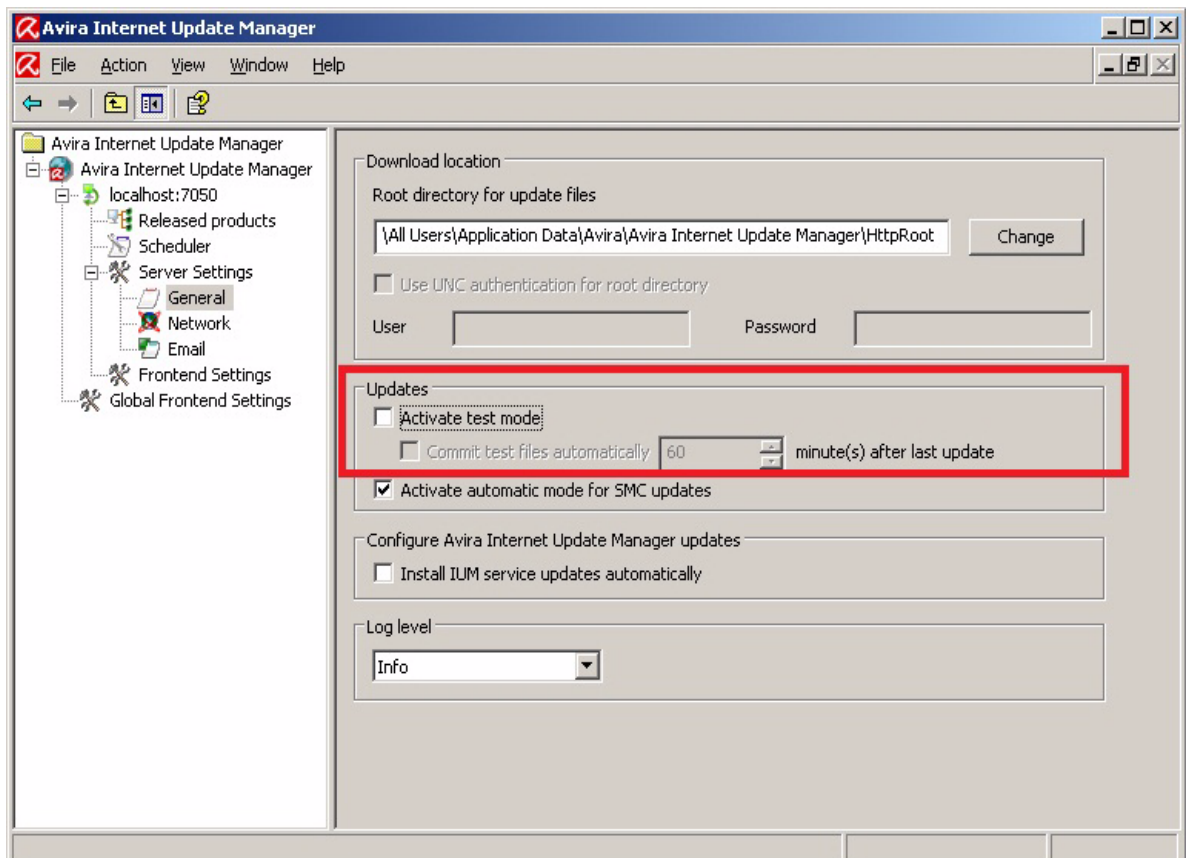
**NOTE:** Using the Windows Frontend you can also configure *Scanning updates in test mode*, *Starting and stopping product update manually*, *Displaying the logfile* and *Displaying product update version information* for the Linux Internet Update Manager.

### 4.1.1 Scanning updates in test mode

Internet Update Manager then 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 now available to all clients.

To operate Internet 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**:






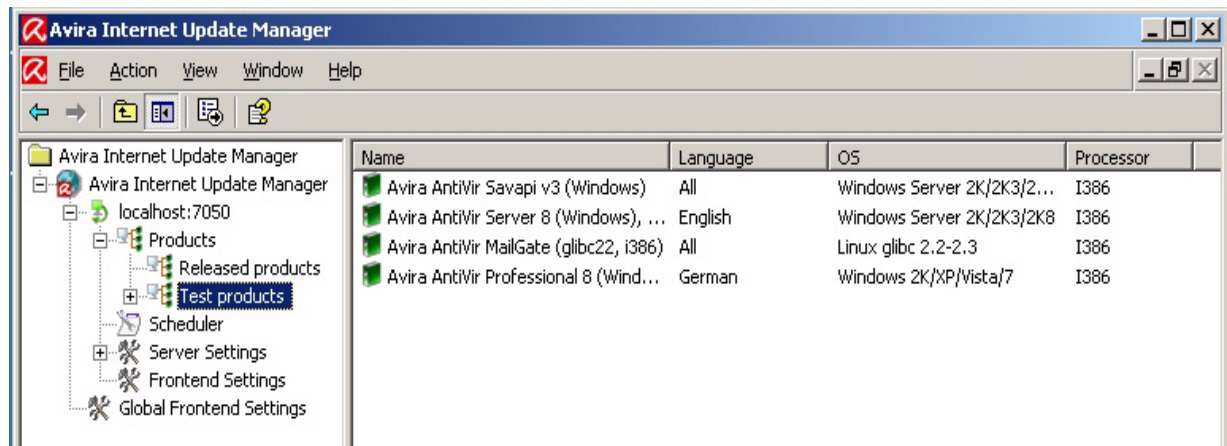
4. Enable the *Activate test mode* option in the **Update** area. The test files can be transferred either manually or automatically. Enable the *Commit test files automatically* option and enter the required time (in minutes).

**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.

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

Click **Yes** to confirm the change. The IUM servers are first reinitialized (Status: )



6. 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 update manually



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

The **Scheduler** provides a further download control option (see chapter: [Displaying product update version information](#)).

To start a product update manually:

1. 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 Internet 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:

1. 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 Avira IUM Server

To configure the Avira Internet 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 Internet Update Manager Updates* area, enable the **Install IUM service updates automatically** if you wish to install the Avira Internet Update Manager update directly after a successful download.

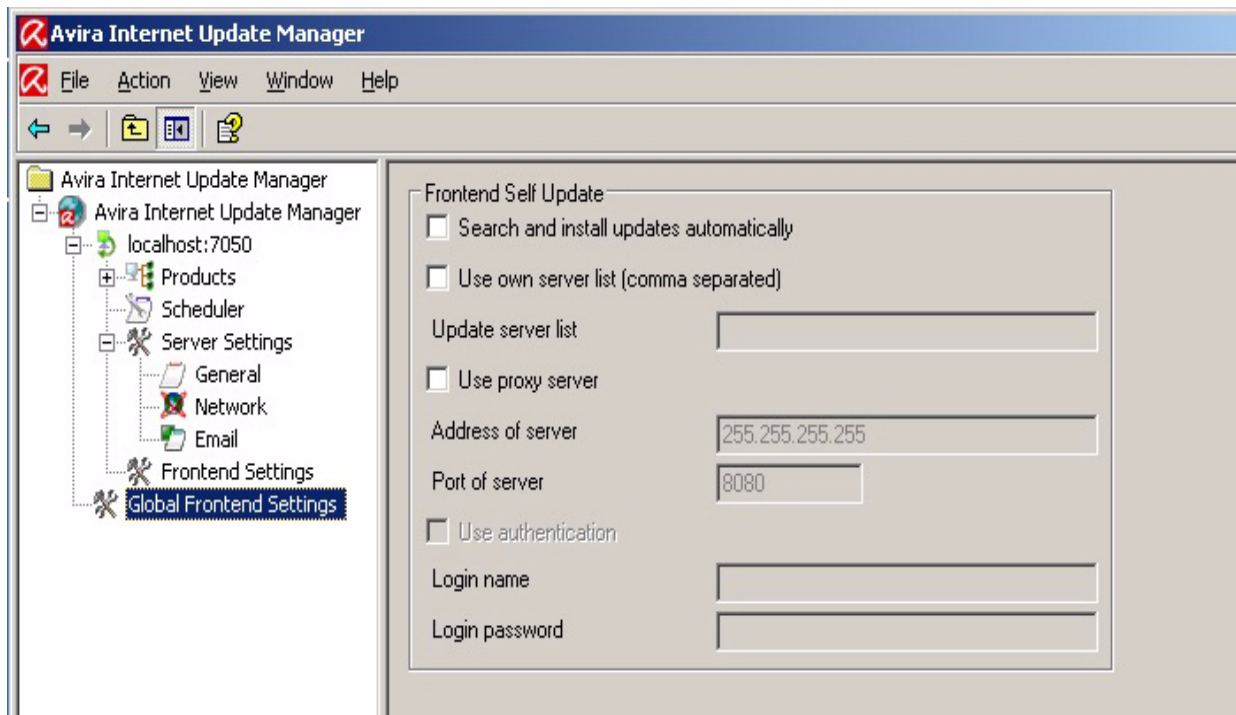
To update the Avira IUM server manually:

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

### 4.1.4 Updating the Avira IUM Frontend

To configure the Avira IUM Frontend update:

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



- 
2. If you want the Frontend to update automatically, enable the **Search and install updates automatically** option.
  3. To use your own server list for 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 IUM Frontend settings?” Click **OK**.

**NOTE:** The status of the automatic update can be checked in the logfile of the Avira IUM Frontend.

To update the Avira IUM Frontend manually:

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

#### 4.1.5 Displaying the logfile

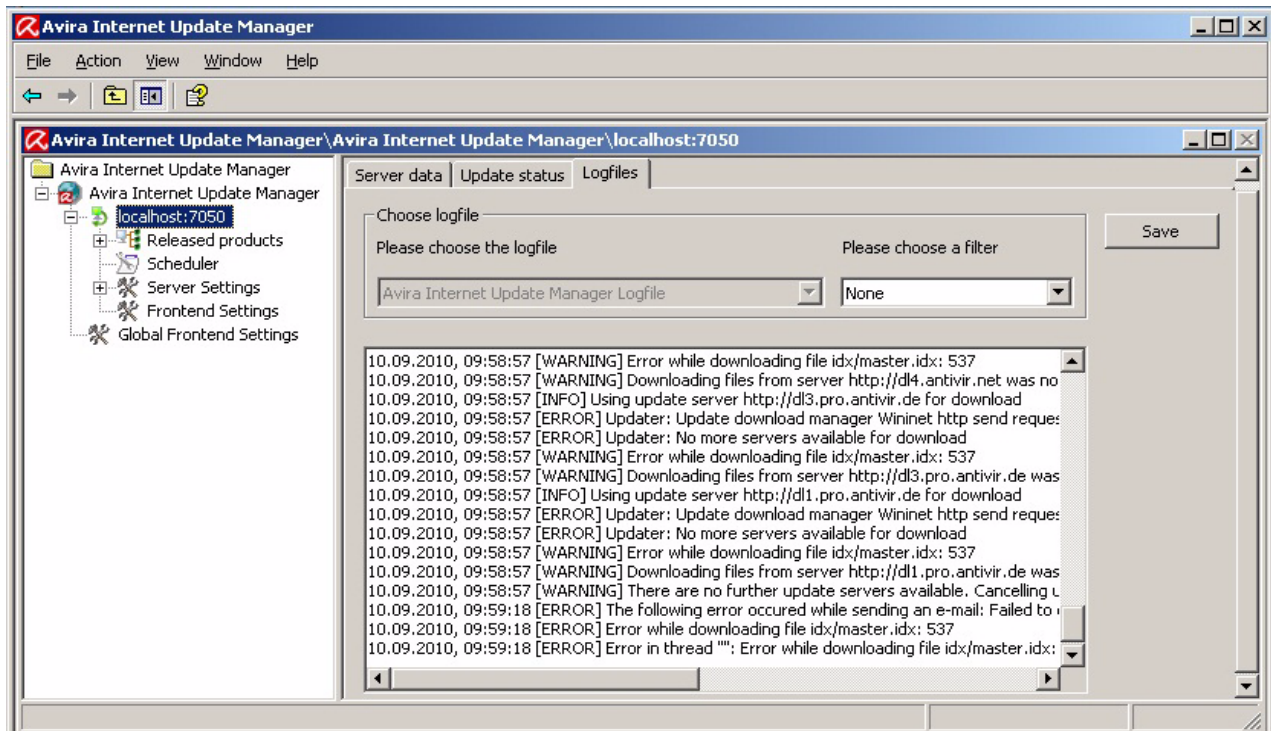
The logfile records the activities of the Internet Update Manager Server for each individual server. Error messages and status reports can be easily viewed and checked.

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 Internet Update Manager
  - **Update status:** Information on current product update
  - **logfiles:** Detailed Avira IUM logfile

2. Click **logfiles**.

The report file is displayed on the screen:



3. In the *logfile selection* area, select a logfile from the list:
  - **Avira Internet Upate Manager Frontend Update logfile**
  - **Avira Internet Update Manager logfile**
  - **Avira Internet Update Manager automatic update logfile**
4. Select a **Filter** if you wish to filter the Avira IUM logfile.
  - Select **Error** and only ERROR messages are listed.
  - Select **Alerts** and only ERROR and ALERT messages are listed.
5. Press **Save** if you wish to save the logfile in .txt format.

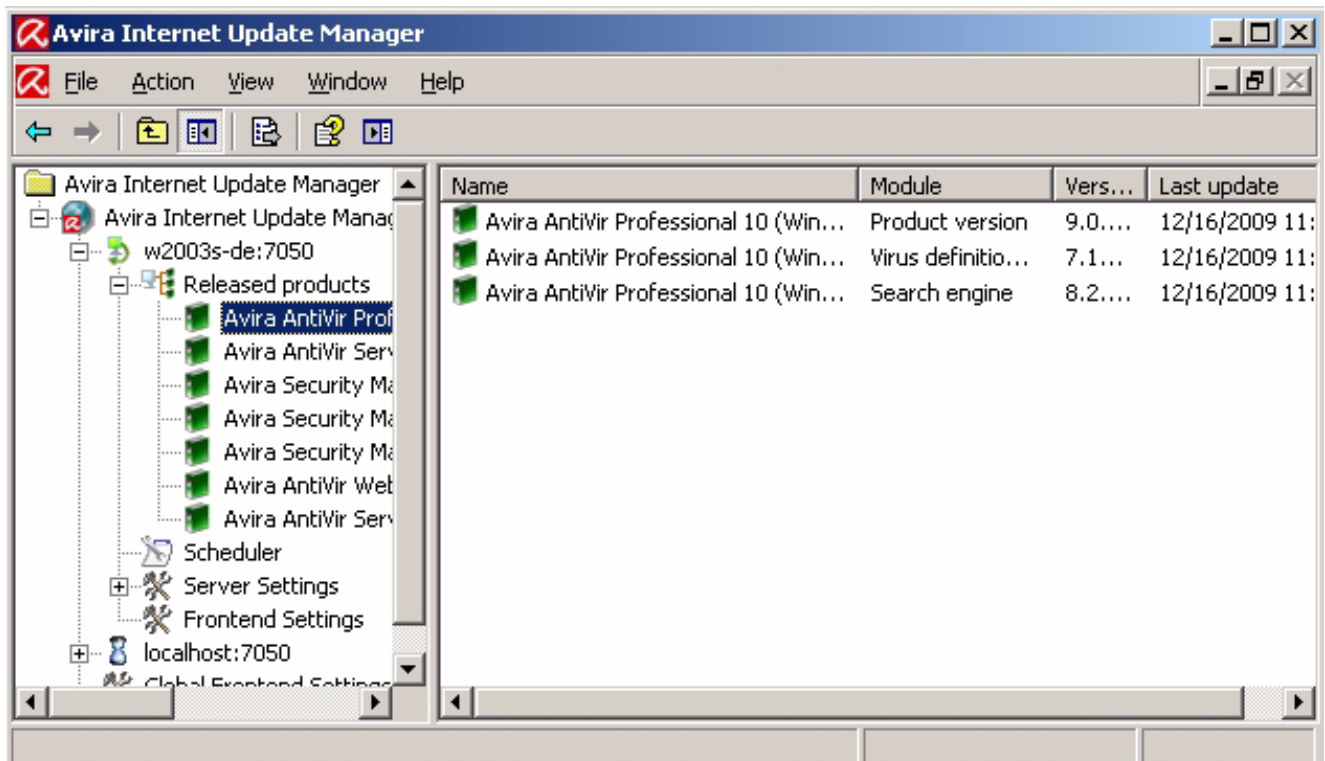
## 4.1.6 Displaying product update version information

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 with Linux (without graphical interface)

**NOTE:** To edit the configuration, stop the Internet Update Manager, open the file in an editor, make the required changes and restart the IUM (see [Starting and stopping IUM manually](#)).

---

## 4.2.1 Scanning updates in test mode

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.

Test mode is disabled as the default setting:

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

Change the parameter in the ium.conf file to

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

to enable the mode.

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

Change the parameter

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

in the ium.conf file and expand this with the path to the application that is to be tested. This application must be certified by Avira GmbH 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 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 during testing the updates with the test repository, the automatic copying process of the test files can be terminated. Enter the following in the terminal

```
./ium --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/ium/ium --get_updates`).

## 4.2.2 Starting and stopping IUM manually

If you wish to execute the Internet Update Manager Daemon, enter

```
/usr/lib/AntiVir/ium/avium start
```

in the terminal.

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

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

command.

To restart the Daemon enter the command

```
/usr/lib/AntiVir/ium/avium restart
```

To check whether the Internet Update Manager is running, you can use the

```
/usr/lib/AntiVir/ium/avium status
```

command.



---

## 4.2.3 Updating products

Products are updated manually with the command

```
/usr/lib/AntiVir/ium/ium -get_updates
```

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

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

**Note:** *When the Internet 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 Internet Update Manager using the `ctrl+c` shortcut only, or with `./avium stop` if the Update Manager 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  
  
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 Avira IUM automatically

To update Internet Update Manager automatically, enter:

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

---

Available update files are downloaded and automatically installed.

**NOTE:** *If you are running Internet Update Manager in Daemon mode, after changing the configuration Internet Update Manager must be restarted for the new settings to be accepted:*

```
avium restart
```

or:

```
/usr/lib/AntiVir/ium/avium restart
Stopping AVIRA Internet Update Manager...
Stopping: ium
Starting AVIRA Internet Update Manager...
Starting: ium
```

## 4.2.6 Displaying the logfile

The logfile records the activities of the Internet Update Manager server for each individual server.

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

### 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, warning 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 Internet 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 AntiVir Windows Workstation?**

Avira Internet 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 AntiVir Windows Workstation.

## 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 upd folder (for AntiVir Products Version 8) or update (from AntiVir Products Version 9 and above) in the destination directory specified in Avira Internet Update Manager.

Examples for Version 8:	Examples from Version 9 and above:
file://x:/ENABLE/UPD/	file://x:/ENABLE/update/
file://192.168.1.1/ENABLE/UPD/	file://192.168.1.1/ENABLE/ update
http://192.168.1.1:7080/upd	http://192.168.1.1:7080/ update
http://server:7080/upd	http://server:7080/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.

---

Example for AntiVir 8 Products: `http://192.168.1.1:7080/upd` or  
`http://server:7080/upd`

Example from AntiVir 9: `http://192.168.1.1:7080/update` or  
`http://server:7080/update`

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

## 5.3 Avira Knowledge Base

You can also find questions and answers on our [FAQs pages](#).

Our [knowledge database](#) containing important information on our products is also available.



# ***Avira Security Management Center***

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