

HP MediaSmart Server User's Guide

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Glossary

Welcome to HP MediaSmart Server

The HP MediaSmart Server is a home server for families with multiple computers on a home network who want to enjoy their digital experiences when and where they want. The HP MediaSmart Server includes remote access to files, automatic computer backups, virtually unlimited storage expandability, media streaming to the entertainment center, and HP's new [Photo Webshare](#).

Help is available from most windows on the HP MediaSmart Server.

HP Help

HP Help includes the types of help shown in the following table. Additionally, the online User's Guide provides links to topics in the Windows Home Server Help.



User's Guide—Contains online help, installation instructions, guidance for set up, using the product, tutorials, recovery information, and other important information.



Online Help—A Help button is available on most pages.



HP Support Web site—Additional support and informational articles are available at <http://www.hp.com/support>.

Windows Home Server Console Help

Some tasks, such as creating users and using shared folders, are done through the Windows Home Server Console.

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.

- 3 Click **Help** in the upper right corner, indicated by a  icon, or click help buttons on dialog boxes.

Table 1: Windows Home Server Console Help

Main Topics	Description
Welcome to the Windows Home Server Console	Learn what the Windows Home Server tray icon colors mean. This topic also provides an overview of adding user accounts, organizing files, configuring backups, and customizing server settings.
Computers & Backup	Explains how backups work and how to configure, restore, and troubleshoot backups.
User Accounts	How to add users to your server.
Shared Folders	Adding, opening, removing, viewing the history of shared folders, and using folder duplication .
Server Storage	View, add, repair, and remove hard drives from total storage.
Network Health	What health notifications mean and what to do about them.
Windows Home Server Settings	How to configure backups, passwords, media sharing, remote access, add-ins, resources, and more.
Remote Access	How to set up the server to easily access your files away from home.

1 Installing

In this chapter you'll connect the HP MediaSmart Server to your home network and install the software on your first home computer.

What's in this chapter

- » [Overview of the HP MediaSmart Server Setup](#)
- » [Before Starting](#)
- » [Connecting the server](#)
- » [Turning on the HP MediaSmart Server](#)
- » [Checking the Server Lights](#)
- » [Updating Your Firewall's Trusted Program List](#)
- » [Installing the Software on the First Computer](#)
- » [Congratulations! You are ready to start using your server](#)

Overview of the HP MediaSmart Server Setup

Complete the following steps to set up the HP MediaSmart Server on your home network.

To set up the HP MediaSmart Server

- 1** Connect the HP MediaSmart Server to your network and turn it on.
For additional information, see [Connecting the server on page 1-5](#).
- 2** Update the trusted programs list for any firewall or anti-virus software on your computer.
For additional information, see [Updating Your Firewall's Trusted Program List on page 1-7](#).
- 3** Install the HP MediaSmart Server software on one computer.
For additional information, see [Installing the Software on the First Computer on page 1-8](#).
- 4** Follow the Setup Assistant in the Windows Home Server Console.

For additional information, see [Setting up the HP MediaSmart Server using the Assistant on page 2-2](#).

- 5 Install the HP MediaSmart Server software on additional computers.
For additional information, see [Installing the Software on Additional Home Computers on page 2-21](#).

Before Starting

Important information about locating and using the HP MediaSmart Server.

- [Locating the server](#)
- [Network Requirements](#)
- [Supported operating systems](#)
- [Wireless support](#)
- [Additional Software](#)

Locating the server

Find a suitable place to locate your HP MediaSmart Server before you install the software on your computers. The location you choose must have either an available wired network connection to your broadband [router](#) or a switch connected to your broadband router.

The server also requires adequate ventilation to ensure it does not get too hot:

- Do not locate the server in an unventilated space.
- Make sure that the server's front and back panels are not blocked.
- Check that the location of the server is not too hot. Maximum environmental temperature for operating the server is 35° C (95° F).

Network Requirements

To successfully use the HP MediaSmart Server, your network must meet the following requirements:

Table 1: Network Requirements

Requirement	Recommended
Server connection	100 Mbps to 1000 Mbps (Gigabit Ethernet) wired connection
Home computers	One or more computers running a supported operating system with a wired or wireless network connection. For a list of supported operating systems, see Supported operating systems on page 1-3 .
Internet connection	Broadband connection, such as DSL or cable, required for remote access functionality.
Router	An external Internet broadband router with 100 Mbps (or faster) Ethernet connection to the server for remote access functionality and wired or wireless connections to the computers on the network. Additionally, your router must have DHCP enabled to provide an automatic IP address to the server.

Supported operating systems

The following operating systems are supported to work with the HP MediaSmart Server:

Table 2: Supported operating systems

Windows Vista ^a	Windows XP ^b
Windows Vista Home Basic	Windows XP Home with Service Pack 2 (SP2)
Windows Vista Home N (European Union only)	Windows XP Professional with SP2

Table 2: Supported operating systems

Windows Vista^a	Windows XP^b
Windows Vista Home Premium	Windows XP Media Center Edition 2005 with SP2 and Rollup 2
Windows Vista Business	Windows XP Media Center Edition 2005 with SP2
Windows Vista Business N (European Union only)	Windows XP Media Center Edition 2004 with SP2
Windows Vista Enterprise	Windows XP Tablet Edition with SP2
Windows Vista Ultimate	

- a. Remote access is not supported by Windows Vista Home (all versions); the Business, Enterprise, and Ultimate versions of Windows Vista support remote access. For more information, see [Why can't I connect to some computers?](#) in the Windows Home Server Console Help.
- b. Windows XP Professional and Windows XP Media Center Editions support remote access. Windows XP Home does not support remote access.

Note: The HP MediaSmart Server does not support client computers running 64-bit operating systems.

Wireless support

You must connect the HP MediaSmart Server to your [router](#) (or switch) with an Ethernet cable. The server does not support wireless connection to your router. However, computers connected wirelessly to a wireless access point or router are supported.

Additional Software

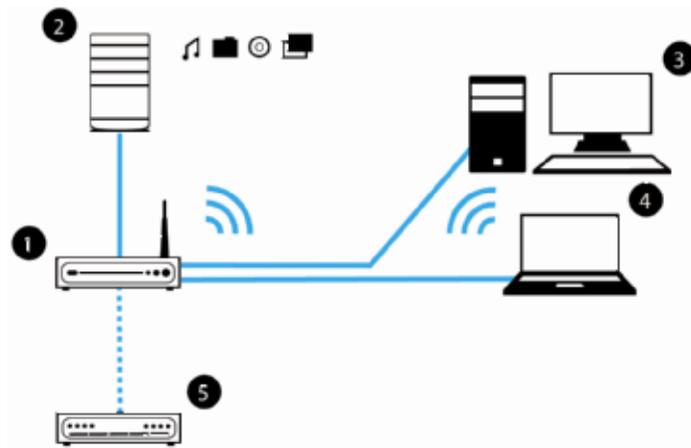
Internet Explorer 6.0 or later is required to run the HP MediaSmart Server software. Download Internet Explorer from www.microsoft.com/downloads.

iTunes 7.1 or later is required for combining household music libraries and streaming music with iTunes. Download iTunes from www.apple.com/itunes/download.

Connecting the server

How you connect the HP MediaSmart Server to your network depends on the network configuration.

Figure 1: Connecting the HP MediaSmart Server to the network



This example shows a broadband router connecting the following:

- HP MediaSmart Server
- Desktop computer
- Laptop with a wireless adapter
- TV connected to a network-enabled media streaming device, such as an Xbox 360
- Remote users connecting to the HP MediaSmart Server and home network through an Internet browser

The server requires a [DHCP](#)-enabled router to get its [IP address](#). By default, most routers include a DHCP server. For more information, check your router documentation.

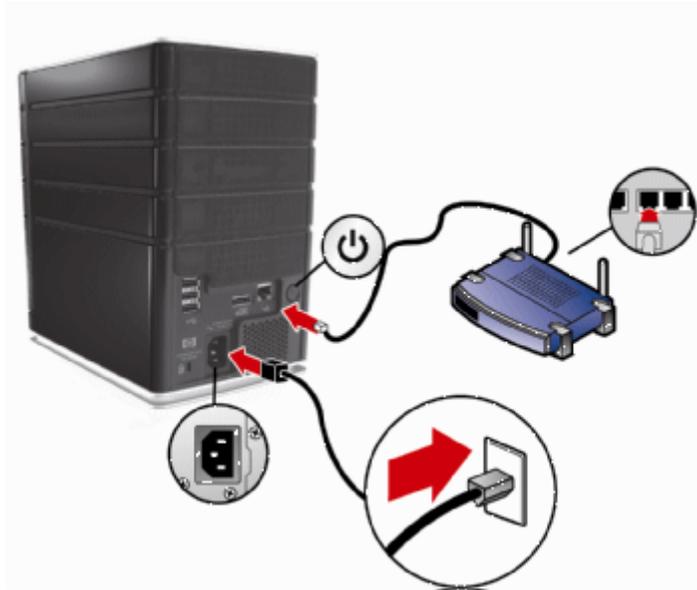


Caution: If you have wireless functionality on your network, be sure to enable your router's security settings, such as [WPA](#) or [WEP](#), to protect your network. See the documentation that came with your router.

Turning on the HP MediaSmart Server

Connect the HP MediaSmart Server to a power source and to a router.

Figure 2: Connecting to power and powering on



To power on the server

- 1 Plug in.** Plug one end of the power cord into the server's power receptacle and the other end into an electrical outlet.
- 2 Connect.** Connect one end of the Ethernet cable to the server and the other end to an available Ethernet port on your router or to a switch that is connected to your router.
- 3 Power on.** Press the Power button on the back of the server.

The server takes approximately 60 seconds to startup. The indicator lights blink and change color throughout the startup process. Wait for all of the server lights to be solid before proceeding with the software installation.

Important: Do not attach USB devices to the HP MediaSmart Server during initial setup. For additional information, see the [Troubleshooting on page 7-1](#).

Checking the Server Lights

The lights on the front of the HP MediaSmart Server indicate the status of the server. After the HP MediaSmart Server startup completes and prior to the first software installation, the indicator lights show:

- **Hard drives**—solid purple 
- **Network**—solid blue 
- **Health**—solid purple 

After you complete the software installation, all lights should be solid blue.

If the lights are not solid blue, see the following:

- [Why is the hard drive light-bar purple? on page 7-3](#)
- [Why is the hard drive light-bar red? on page 7-3](#)
- [Power-on indicator is off on page 7-3](#)
- [Why is the server's health indicator light red? on page 7-4](#)

Updating Your Firewall's Trusted Program List

The HP MediaSmart Server Software Installation Disc installs several programs that enable your computer to communicate with the HP MediaSmart Server over your network. Software firewalls installed on your computer can block this communication and prevent the computer from locating the HP MediaSmart Server on your network. The following steps are recommended before installing the HP MediaSmart Server programs:

- Launch your firewall and anti-virus software and update the trusted programs list.
- Verify that your firewall and anti-virus software is set to "Learn" new programs. After the HP MediaSmart Server software is installed, the firewall should prompt you to allow the installed programs to communicate with the server.
- If you are using a firewall or anti-virus program that cannot automatically update its trusted software list, please contact the firewall or anti-virus software vendor to find out how to manually add software to the trusted

software list. Then, visit <http://www.hp.com/go/support> for a list of software to add.

Sidebar: Hubs and Network Health Light

Some network hubs, as opposed to switches or routers, may reduce performance between your computer and the HP MediaSmart Server, or the hub may prevent your computer from communicating with the server. If this is a problem, the network health indicator light on the front of the server will be off. Replacing the hub with a switch may improve the network performance or restore connectivity.

Installing the Software on the First Computer

Use the Software Installation Disc to install both the HP MediaSmart Server software and the Windows Home Server Connector software.

The software installation consists of the following:

- HP Update (if not already installed)
- Windows components—Windows Installer 3.1 and .NET 2.0 or later software. (Installed only if they are not already on the computer)
- HP MediaSmart Server software
- Windows Home Server Connector
- Windows Home Server Setup—the setup runs only on the first computer where the software is installed.

Checking for Administrative Privileges

You must have administrative privileges on your home computer to install the software. Complete the following instructions for Windows Vista or Windows XP to view or change user account settings.

- In Windows Vista, click **Start**, **Control Panel**, and then **User Accounts and Family Safety**.
- In Windows XP, click **Start**, click **Control Panel**, and then double-click **User Accounts**.

Inserting the Software Installation Disc

The Software Installation Disc first installs the HP MediaSmart Server software and then the Microsoft Home Server Connector software on your computer.

- 1 Insert the Software Installation Disc into a computer connected to your network. The installation starts.
- 2 Follow the instructions on each installation page. The remainder of this chapter describes important parts of the installation, but not every step is described.

Note: Computers running Windows Vista may display User Account Control messages, such as “A program needs your permission to Continue.” Click **Continue**.

About the HP MediaSmart Server Software

The HP MediaSmart Server software installs first. This software is used to

- Provide a single point of access for all of the server’s features,
- Share photos and videos quickly and securely over the Web using HP Photo Webshare,
- Centralize your iTunes music library, and more!

Note: Click **User’s Guide** on this dialog box if you need additional assistance with the installation and setup.

Click **Next** to display and accept the end user license agreement.

Installing the HP MediaSmart Server

Click **Install** and follow the instructions on each page.

The following components are installed if they are not already on your computer. This installation may restart your computer and take several minutes.

- Windows Installer 3.1
- Microsoft .Net Framework 2.0
- HP Update

The HP MediaSmart Server software automatically installs after the components. Once the HP software is installed, the Windows Home Server Connector install begins.

About the Windows Home Server Connector

The Windows Home Server Connector:

- Connects your computer to the server.
- Automatically backs up your computer every night.
- Monitors the health of the network and computers running Windows Vista.
- Enables configuration of the server from your computer.

Windows Home Server Setup runs only once—on the first computer where you install the Windows Home Server Connector software.

Finding the Server

The Windows Home Server Connector installation looks for and connects to your HP MediaSmart Server. If the installation cannot find your server, see [Troubleshooting on page 7-1](#).

Once the server is found, click **Next** to continue the installation.

Initializing Windows Home Server

The Windows Home Server initialization begins and can take several hours depending on your hardware. Please wait while Windows Home Server:

- Configures your hardware
- Recovers your data
- Starts Windows Home Server

Naming the HP MediaSmart Server

Type a name for your server. Server names can be:

- 15 characters maximum with no spaces
- Letters (at least one), numbers and hyphens

Note: This is the only time you can name your server. It cannot be changed later. The default name is **HPSERVER**. Write down the server name if you change it.

Setting the Server Password

On the Windows Home Server password page, you are asked to create a strong password. A strong password must be at least 7 characters long and must fulfill three of the following four requirements:

- Uppercase characters
- Lowercase characters
- Numbers
- Symbols (such as !, @, and #)

Note: A password hint can be seen by anyone who clicks the Password hint button. It is recommended that you write your password down somewhere safe.



Important: The server password is not the same as a user password. For additional information on user accounts and passwords see, [Task 2 of 6: Create User Accounts on page 2-7](#).

Help Protect Windows Home Server Automatically

Windows Home Server Setup automatically downloads and installs relevant important updates from Windows Update to help make your home server more secure.

Choose if you want Windows Home Server to continue automatically downloading updates after Setup and click the next arrow.

Note: It is recommended that you turn on **Automatic Windows Updates**.

Customer Experience Improvement Program

Join the Customer Experience Improvement Program (CEIP) and help make Windows Home Server even better. CEIP collects information about your hardware and home server usage without interrupting you. No information collected is used to identify or contact you.

Choose if you want to participate in this program and click the next arrow.

Windows Error Reporting

To help understand the problems you may encounter with Windows Home Server, Windows Error Reporting can automatically report them to Microsoft. Any personal information inadvertently collected in the reports will not be used.

Choose if you want to participate in this program and click the next arrow.

Checking for Windows Home Server Updates

The Windows Home Server installation checks for any relevant important updates. This may take some time to complete, but does not require additional information from you.



Important: Do not restart or turn off your home server during the update process.

Checking for HP MediaSmart Server Updates

The HP MediaSmart Server installation checks for any updates. Installing updates ensures that you experience the full functionality and optimal performance of the HP MediaSmart Server.



Important: Do not restart or turn off your home server during the update process.

When do you log on to the server?

Introducing the HP MediaSmart Server Assistant

The server installation is complete. When you click **OK**, the **Assistant** remains at the bottom of the page to guide you through setting up your HP MediaSmart Server.

A green check mark appears for each completed step. Once all of the steps are complete, the Assistant link at the top of the page turns green. For additional information, see [Setting up the HP MediaSmart Server using the Assistant on page 2-2](#).

Congratulations! You are ready to start using your server

Some HP MediaSmart Server features, such as backups and shared folders, are pre-configured and ready to go as soon as the first software installation is complete. Other features require some set up before you can use them.

Backups

After running the Software Installation Disc on your first home computer it is automatically added to the list of computers that are backed up by the HP

MediaSmart Server each night. Run the Software Installation Disc on additional home computers to enable them to communicate with the server and to add them to nightly backups.

To customize the hard-drive volumes to back up, or to exclude folders from the backup

- 1 At the computer, double-click the Windows Home Server icon in the task tray and log on.

Figure 3: Windows Home Server system tray icon



- 2 Click the **Backups & Computers** tab.

Shared Folders and Media Sharing

Start copying digital assets from your computer to shared folders on the HP MediaSmart Server.

- 1 At the computer, double-click the HP MediaSmart Server desktop icon.

Figure 4: HP MediaSmart Server desktop icon



- 2 Copy Photos, Music, or Videos to the appropriate shared folder or click Server to create shared folders for other digital content.

Note: From the **Media Sharing** page on the Windows Home Server **Settings** tab, you can turn on digital media streaming for the Photos, Music, or Videos shared folders. Click **On** for each folder that you want to stream from.

Set up Additional Features

Features such as HP Software Update, User Accounts, Remote Access, Photo Webshare, and Media Sharing require some setup. The Assistant guides you through setting up your server. Using the Assistant is optional but

recommended to ensure that the most frequently used server features are set up correctly.

- 1 At the computer, double-click the Windows Home Server icon  in the task tray and log on.

The **MediaSmart Server** tab should be active.

- 2 Follow the instructions in the **Assistant** at the bottom of the page.

See [Setting up the HP MediaSmart Server using the Assistant on page 2-2](#) for detailed instructions on using the Assistant.

2 Getting Started

After completing the first installation, use this chapter to set up the HP MediaSmart Server.

What's in this chapter

- » [Opening the Windows Home Server Console](#)
- » [Setting up the HP MediaSmart Server using the Assistant](#)
- » [Task 1 of 6: Setup HP Software Update](#)
- » [Task 2 of 6: Create User Accounts](#)
- » [Task 3 of 6: Configure Remote Access](#)
- » [Task 4 of 6: Configure your HP Photo Webshare](#)
- » [Task 5 of 6: Turn on Media Sharing](#)
- » [Task 6 of 6: Learn more about your HP MediaSmart Server](#)
- » [Installing the Software on Additional Home Computers](#)
- » [Setting up Additional Home Computers](#)

Opening the Windows Home Server Console

You can access the Windows Home Server Console in the following ways:

- [To open the Windows Home Server Console from the start menu](#)
- [To open the Windows Home Server Console from the HP MediaSmart Server desktop icon](#)
- [To open the Windows Home Server Console from the system tray](#)

To open the Windows Home Server Console from the start menu

- 1** At the computer, click **Start, All Programs**, and then select **Windows Home Server Console**.
- 2** Log on to the Windows Home Server Console.

To open the Windows Home Server Console from the HP MediaSmart Server desktop icon

This method requires that during installation you selected to create a desktop shortcut to the HP MediaSmart Server.

- 1 From the computer desktop, double-click HP MediaSmart Server icon.

Figure 5: Desktop HP MediaSmart Server icon



- 2 In the Control Center, click the **Tools** tab.
- 3 Click **Home Server Console**.
- 4 Log on to the Windows Home Server Console.

To open the Windows Home Server Console from the system tray

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.

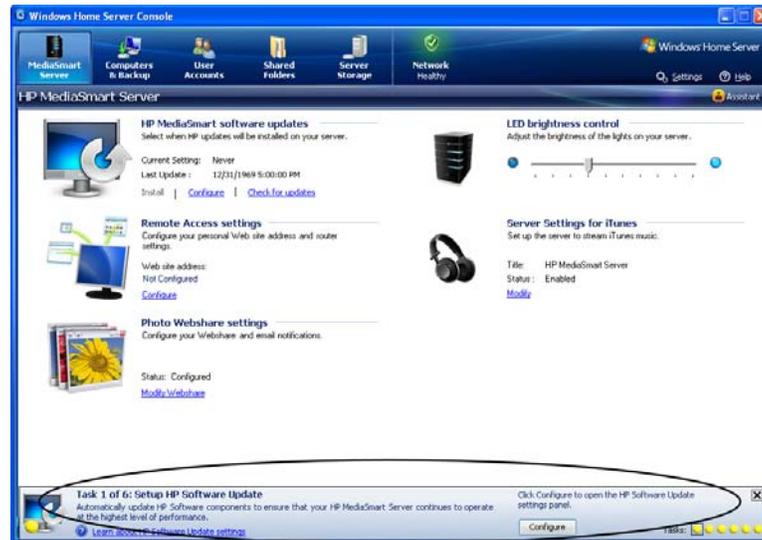
Setting up the HP MediaSmart Server using the Assistant

After running the Software Installation Disc on the first computer, the installer displays the Windows Home Server Console with the MediaSmart Server tab selected. Additionally, the Assistant displays at the bottom of the page and describes the most important tasks for configuring the HP MediaSmart Server.

This topic includes the following:

- [About the Assistant](#)
- [Opening and Closing the Assistant](#)
- [Using the Assistant Task Indicators](#)
- [Other HP MediaSmart Server Settings](#)

Figure 6: The Assistant displays with suggested configuration tasks



About the Assistant

The Assistant guides you through setting up your server. Using the Assistant is optional but recommended to ensure that the most frequently used server features are set up correctly.

- **Task 1 of 6: Set up HP Software Update**—Set up HP Software Update to automatically check for HP MediaSmart Server and computer updates. For more information, see [Task 1 of 6: Setup HP Software Update on page 2-5](#).
- **Task 2 of 6: Create User Accounts**—Create a guest server account or individual user accounts to seamlessly connect to shared folders on the HP MediaSmart Server from your home computers. Individual user accounts with strong passwords are required to access the server from outside the home or to set up HP Photo Webshare. Remote access must also be enabled to set up Webshare. **Task 3 of 6: Configure Remote Access** guides you through setting up remote access. For more information, see [Task 2 of 6: Create User Accounts on page 2-7](#).
- **Task 3 of 6: Configure Remote Access**—Create a domain name and configure your router to enable access to your HP MediaSmart Server and HP Photo Webshare from a web browser anywhere on the

Internet. For more information, see [Task 3 of 6: Configure Remote Access on page 2-13](#).

- **Task 4 of 6: Configure your HP Photo Webshare**—Set up Webshare managers, email, and visitor upload limits. Before configuring Webshare, create at least one user account with remote access enabled and configure remote access settings. For more information, see [Task 4 of 6: Configure your HP Photo Webshare on page 2-17](#).
- **Task 5 of 6: Turn on Media Sharing**—Turn on media sharing to stream music, videos, or pictures to supported digital media players or digital media receivers in your home network. For more information, see [Task 5 of 6: Turn on Media Sharing on page 2-19](#).
- **Task 6 of 6: Learn more about your HP MediaSmart Server**—Click the link to open the online User's Guide to learn about using all of the HP MediaSmart Server features. For more information, see [Task 6 of 6: Learn more about your HP MediaSmart Server on page 2-20](#).

Opening and Closing the Assistant

- 1 At the computer, double-click the Windows Home Server icon  in the system tray and log on.
- 2 Click the **MediaSmart Server** tab.
- 3 Click **Assistant** in the upper right corner to toggle between opening and closing the Assistant.

The Assistant opens to the first incomplete task or closes at the bottom of the Windows Home Server.

Using the Assistant Task Indicators

The Assistant task indicators are in the lower right corner of the page. They tell you at a glance which tasks are complete and which ones still need to be set up.

- **Incomplete tasks.** Incomplete tasks have yellow indicators. Roll over the yellow indicators with your mouse to see descriptions of the tasks. Click a yellow indicator to jump directly to that step in the Assistant.

Note: If a previous step needs to be completed before the step you selected, the **Configure** button is greyed out and the text above the

button tells you what step needs to be done prior to completing the current step.

- **Complete tasks.** Complete tasks have a green check mark. After all of the tasks are complete, the Assistant button at the top of the page turns green.

Other HP MediaSmart Server Settings

While the Assistant guides you through setting up several HP MediaSmart Server features, there are some features that it does not describe. The MediaSmart Server tab of the Windows Home Server also contains the following items:

- **LED brightness control**—move the slider to adjust the brightness of the lights on the front of the HP MediaSmart Server.
- **Server Settings for iTunes**—enable or disable this feature, set up a password, change the name displayed for the HP MediaSmart Server in iTunes. For more information, see [Setting up iTunes on the server and the client computer on page 6-29](#).

Task 1 of 6: Setup HP Software Update

Use the HP MediaSmart software update to keep your server and home computers current with the latest HP software, online help, and new features.

HP MediaSmart software update does not update the Microsoft Windows Home Server operating system. For information about updating Windows Home Server, see [Configuring Windows Update](#) in the Windows Home Server Console Help.

This topic includes the following:

- [Configuring HP MediaSmart software update](#)
- [Client computer updates](#)

Figure 7: Step 1 of 6: Setup HP Software Update



Configuring HP MediaSmart software update

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Go to task 1 of the **Assistant** and click **Configure**.

For additional information, see [Opening and Closing the Assistant on page 2-4](#). If you are not following the Assistant, click the **MediaSmart Server** tab and click **Configure** under **HP MediaSmart software updates**.

The **Windows Home Server Settings** page displays with **HP Software Updates** selected in the left menu.

4 In **HP Software Updates**, select one of the following options:

Table 3: HP Software Update settings options

Option	Additional information
Automatically download and install updates (recommended)	Requires no user action. Downloads and installs updates on the server in the background. If necessary the server will automatically reboot.
Download updates and let me choose when to install	Requires user action. Your computer notifies you that an update has been downloaded and is ready to install on the server. Additionally, the Install link turns blue under HP MediaSmart software updates. To update the server after an update is downloaded, click Install under HP MediaSmart software updates in the Windows Home Server Console.
Turn off automatic updates	Not recommended.

Client computer updates

If the update requires a software change on your network computers, the updated software is installed on the computers by the server. Here's what happens:

- 1 A notification displays on the [client computers](#) indicating that the HP MediaSmart Server wants to download the HP software update to the computers.
- 2 After the update is downloads, the install begins.

Note: Home computers may not be able to communicate with the server if updates are installed on the server but they have not been installed on the home computer.

Task 2 of 6: Create User Accounts

After you complete the installation of the HP MediaSmart Server and the Windows Home Server Connector software to your computer, you are ready

to add user accounts for other family members in your household. The HP MediaSmart Server supports two types of user accounts: guest and individual.

Use the table below to determine which type of user account best suits your needs.

Table 4: Choosing the type of user account to suit your needs

Type of User Acct	Description	Folders	Remote Access	Photo Webshare
Guest	Everyone uses the same account. There is typically no password, so no logon is required.	Everyone has Full access to all shared folders.	Cannot use with remote access.	Cannot use with Webshare.
Individual	Each family member has a unique user name and password. They logon to use home computers.	Each person can be set up with different shared folder access.	Available. Requires a strong password.	Available. Requires a strong password to be a Webshare Manager.

This topic includes the following:

- [Enabling the Guest Account](#)
- [Creating Individual User Accounts](#)

For additional information on user accounts, see the following help topics in the Windows Home Server help.

- [Why do I need user accounts?](#)
- [Why should logon names match?](#)
- [Which user accounts password policy should I choose?](#)

Enabling the Guest Account

If you want everyone to use the same logon account to access the HP MediaSmart Server, enable the guest account. If the guest account is enabled with no password, family members are not required to logon when they use home computers. Additionally, all family members can have Full access to all shared folders through the guest account.

Figure 8: Step 2 of 6: Create User Accounts, Enabling the Guest Account



Important: If you enable the guest account, everyone that connects to your home network has the same privileges. That may mean that they all have full access to shared folders and other resources on your server. To protect your home network from unwanted connections, see [Securing your server from intruders on page 6-22](#).

Note: The guest account cannot be used to access the server from outside of the home using remote access and it cannot be used with HP Photo Webshare.

To enable the guest account

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Go to task 2 of the **Assistant** and click the **User Accounts** tab at the top of the page.

For additional information, see [Opening and Closing the Assistant on page 2-4](#). If you are not following the Assistant, click the **User Accounts** tab.

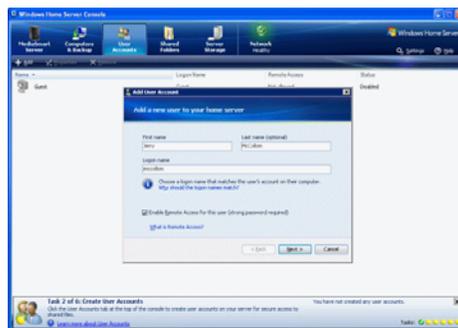
The **User Accounts Setup** dialog displays.

4 Click **Enable Guest**.

Creating Individual User Accounts

If family members want to access information on your home network from an Internet café, coffee shop, or other location outside of your home, they need individual user accounts with strong passwords. At least one individual user account with a strong password is also required to create a Webshare Manager and to set up HP Photo Webshare. For additional information, see [Task 4 of 6: Configure your HP Photo Webshare on page 2-17](#).

Figure 9: Step 2 of 6: Create User Accounts, Creating Individual User Accounts



Important: When you create user accounts on the server, use logon names and passwords that match the logon names and passwords of existing user accounts on your home computers. Creating matching user accounts enables family members to automatically log on to the server when they log on to their home computer.

If the user accounts and passwords do not match, you will be prompted to type a user name and password when you open the server's shared folders.

If your computer does not have a password or if the computer uses a factory default user name, you can change these parameters to eliminate the need to enter your user name and password when you access a shared folder.

Do I need to create user accounts on each home computer?

Computer user accounts are created on each home computer that connects to the server. Likewise, if three family members share a home computer, each family member should have an individual user account on that computer.

For instance, if Mom and Dad share a computer, you will create user accounts for both of them on the computer that they share. If the children, Jill and Bobby, have their own computers, you can create one user account for each of them and only on the computer that they use.

Another option is to set up user accounts for all family members on all computers. Then, each family member can log on to any home computer and access the server seamlessly.

To create a user account for a home computer running Windows XP

1 At the computer, click **Start, Control Panel**, and then **User Accounts**.

2 Click **Add** to create a user account.

-or-

Click **Change an Account** to change a logon name or password for an existing account.

A strong password is suggested to ensure security and is required to use remote access or HP Photo Webshare. A strong password must be at least 7 characters long and must fulfill *three* of the following four character criteria:

- Uppercase characters
- Lowercase characters
- Numbers
- Symbols (such as !, @, #, and so on.)

A password hint helps you remember your password. The password hint can be seen by anybody who clicks the link to display it.

To create a user account for a home computer running Windows Vista

- 1 At the computer, click **Start** and then **Control Panel**.
- 2 Under **User Accounts and Family Safety**, select **Add or remove user accounts**.

Add user accounts or make changes to existing user accounts.

A strong password is suggested to ensure security. A strong password must be at least 7 characters long and must fulfill *three* of the following four character criteria:

- Uppercase characters
- Lowercase characters
- Numbers
- Symbols (such as !, @, #, and so on.)

A password hint helps you remember your password. The password hint can be seen by anybody who clicks the link to display it.

To create user accounts on the server

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Go to task 2 of the **Assistant** and click the **User Accounts** tab at the top of the page.

For additional information, see [Opening and Closing the Assistant on page 2-4](#). If you are not following the Assistant, click the **User Accounts** tab.

The **User Accounts Setup** dialog displays.

- 4 Click **Set Policy** to force a password strength for all user accounts and click **OK**. (optional)

User accounts that are enabled for remote access in the **Add User Account Wizard** in step 6 below, require a strong password regardless of what is selected on the **Set Policy** page.

- 5 Click **OK** on the **User Accounts Setup** dialog to begin creating user accounts.

- 6 Click **Add**, and then complete the **Add User Account Wizard**.
Use only the following characters for names:
 - Uppercase letters—A, B, C, and so on.
 - Lowercase letters—a, b, c, and so on.
 - Numbers—0, 1, 2, 3, 4, 5, 6, 7, 8, 9
 - Symbols—use only: dash - underscore _ period . space []
- 7 Check to enable remote access if the family member wants to access the home network from outside of the home or if they want to use HP Photo Webshare.
- 8 Repeat for each user account that you want to add.

Task 3 of 6: Configure Remote Access

To access your Photo Webshare from a [Web browser](#) outside of your home network, or to easily access your files and home computers while you are away from home, you must configure remote access.

Figure 10: Step 3 of 6: Configure Remote Access



To access Remote Access configuration

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Go to task 3 of the **Assistant** and click **Configure**.

For additional information, see [Opening and Closing the Assistant on page 2-4](#). If you are not using the Assistant, click the **MediaSmart Server** tab and click **Configure** under **Remote Access settings**.

The **Windows Home Server Settings** page displays with **Remote Access** selected in the left menu.

Web Site Connectivity

You must turn on Web Site Connectivity to use remote access or to allow visitors access to your Photo Webshare. For more information, see [Turning your Web site connectivity on or off](#) in the Windows Home Server Console Help.

Router

You must configure your router to access your HP Photo Webshare from outside the home network and to use remote access. After clicking **Setup**, the server automatically tries to configure your broadband router. For more information, see [Configuring your broadband router](#) in the Windows Home Server Console Help.

Domain Name

A Domain Name is a Web address. It allows you to access your HP MediaSmart Server and HP Photo Webshare from the Internet. For instance, if you registered `MyFamily.hpshare.net` for your HP MediaSmart Server, you would use this address to connect to your server using remote access. Additionally, this address is part of the URL for accessing an album on your Photo Webshare.

To set up a domain name

- 1 Click the **Setup** button for Domain Name.
- 2 Follow the instructions in the Domain Name Setup. The following topics provide guidance for setting up your Domain Name:
 - [Select Domain Name and DNS hosting service](#)
 - [About HP Personal Domain Name by TZO.COM](#)
 - [About TZO.COM Custom Domain Names](#)
 - [About Windows Live Personalized Domain Name](#)

Select Domain Name and DNS hosting service

The HP MediaSmart Server provides three alternatives for setting up a domain name:

- HP Personal Domain Name by TZO.COM
- TZO.COM Custom Domain Name
- Windows Live Custom Domains

When choosing which service to use, consider the following:

- TZO domain names allow you to automatically notify Photo Webshare visitors when new photos are available through email without having to set up an [SMTP](#) email server.

- TZO domains names allow easy remote access, even if your broadband ISP blocks [port 80](#). Blocking port 80 prevents a Web browser from reaching the server.
- With the TZO.COM Custom Domain Name option, you can create a domain name with any name that is not already registered.

About HP Personal Domain Name by TZO.COM

HP Personal domain name is free for the first year. After the first year, the cost is a nominal \$9.99 per year, as of September 2007.

An HP personal domain name has two parts:

- Personalized name—enter a name of your choice. TZO.COM will check your choice against existing names. If the name you picked already exists, TZO provides a list of alternatives.
- Second part of the name—choose from an assortment of domain names such as **hphomeserver.com** or **hpshare.net**.

Each part is combined so the Domain Name looks like

MyFamily.hphomeserver.com.

About TZO.COM Custom Domain Names

With this option, you can create a domain name with any name you want, like **MyName.com**, as long as that name is not already registered.

A domain name has several components:

- Top-level or first-level domain names—all domain names end in a small list of generic names, such as **.com** or **.net**, or in a country code, such as **.es** or **.fr**.
- Second-level domain names—the part or parts of the domain name located to the left of the top-level domain name. For example, “MyName” in MyName.com.

About Windows Live Personalized Domain Name

Microsoft also offers a service to get a personalized domain name for your server. Using Windows Live Personalized Domain Name requires email SMTP configuration to use Webshare.

To set up email SMTP settings for Webshare

- 1 Double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Click **Settings** in the upper right corner.
- 4 Click **Photo Webshare** in the left menu.
- 5 On the right side under **Webshare Notifications**, click **Configure**.
- 6 Select **Use my own email provider to send Webshare announcements** and click **Next**.
- 7 Type the name and email address to use in your Webshare notifications and click **Next**.
- 8 Type the SMTP server information and click **Next**.
Contact your Internet service provider if you do not know your SMTP server information.
- 9 Click **Send Sample Announcement** to test the configuration.
- 10 Click **Finish**.

Task 4 of 6: Configure your HP Photo Webshare

Personalize your Photo Webshare, set up email notifications, create Webshare managers, and determine visitor upload limits.

Figure 11: Step 4 of 6: Configure your HP Photo Webshare



To access Photo Webshare settings

- 1 Double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Go to task 4 of the **Assistant** and click **Configure**.

For additional information, see [Opening and Closing the Assistant on page 2-4](#). If you are not following the **Assistant**, click the MediaSmart Server tab and click **Configure** under **Photo Webshare Settings**.

The **Windows Home Server Settings** page displays with **HP Photo Webshare** selected in the left menu.

The following options are available:

- **Webshare name**—name your Photo Webshare. This will be at the top of every Photo Webshare page and in the email announcements.
- **Webshare notifications**—allows you to send email notifications to announce additions or changes to a Photo Webshare Album. For more information, see [Notifying visitors by email on page 5-18](#).

To configure, click the **Configure** or **Modify** button. For information on configuring this option, see [Photo Webshare notifications on page 2-19](#).

- **Webshare managers**—all users are listed. A check mark indicates who can create, edit, or remove albums and visitors.
- **Visitor storage limits**—set the amount of disk space that visitors can use for uploading photos and video clips before they are approved by a Webshare manager.

Photo Webshare notifications

The following options are available:

- Use the TZO service to send Photo Webshare announcements on your behalf—available only if you have previously selected to use the TZO service. For more information, see [About HP Personal Domain Name by TZO.COM on page 2-16](#) or [About TZO.COM Custom Domain Names on page 2-16](#).
- Use your own email provider to send Photo Webshare announcements—send email through your own email service. Some web-based email services, such as Hotmail, are not supported.

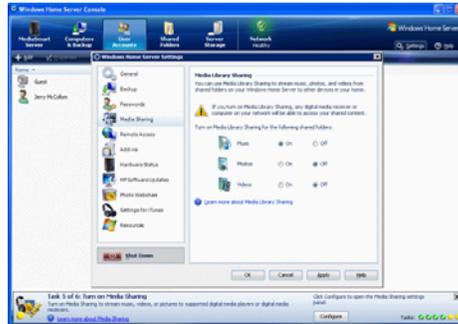
If choosing to use your own email provider to send Photo Webshare announcements, you must enter your email account information, including the name of the [SMTP](#) server. You can get this information from your email provider or from the email account settings on your email program.

- Do not send any Photo Webshare announcements.

Task 5 of 6: Turn on Media Sharing

Turn on media sharing to stream music, videos, or pictures to supported digital media players or digital media receivers.

Figure 12: Step 5 of 6: Turn on Media Sharing



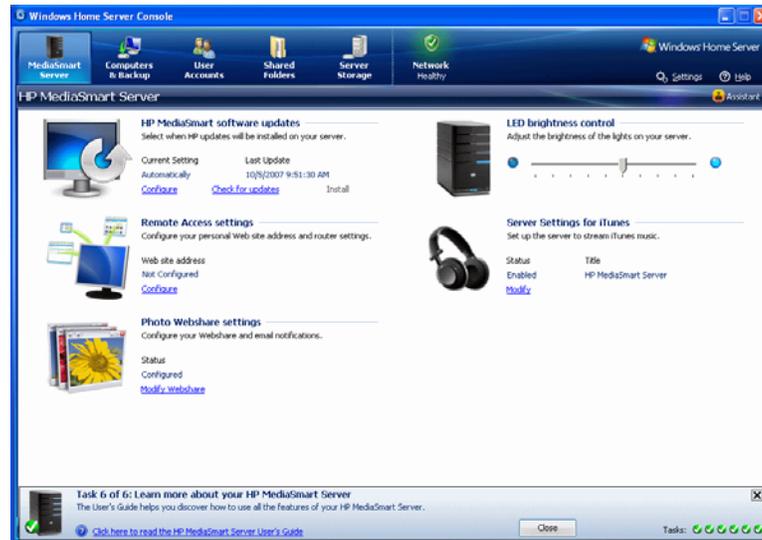
To turn on media sharing

- 1 Double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Go to task 5 of the **Assistant** and click **Configure**.
For additional information, see [Opening and Closing the Assistant on page 2-4](#). If you are not following the **Assistant**, click **Settings** in the upper right corner of the Windows Home Server Console and click **Media Sharing**.
- 4 Click **On** for each folder that you want to enable media streaming.
- 5 Click **OK**.

Task 6 of 6: Learn more about your HP MediaSmart Server

This step does not require any set up. It takes you to the HP MediaSmart Server User's Guide where you can learn about of the server's features.

Figure 13: Step 6 of 6: Learn more about your HP MediaSmart Server



To open the HP MediaSmart Server User's Guide

- 1 Double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Go to task 6 of the **Assistant** and click the User's Guide link.

For additional information, see [Opening and Closing the Assistant on page 2-4](#). If you are not following the **Assistant**, click **Help** in the upper right corner of the Windows Home Server Console to open the HP MediaSmart Server User's Guide.

Installing the Software on Additional Home Computers

After completing the steps in the Assistant on the first computer, use the Software Installation Disc to install the HP MediaSmart Server and Windows Home Server Connector software on the other computers on the home network. Install the software on one computer at a time.

If you misplaced or damaged your Software Installation Disc, you can install the software for your computer directly from the server. For more information, see [To install from the server using Windows XP on page 2-22](#) or [To install from the server using Windows Vista on page 2-23](#).

To install from the Software Installation Disc

- 1 Insert the Software Installation Disc into a computer connected to the home network.

You must have administrative privileges to install. For additional information, see [Installing the Software on the First Computer on page 1-8](#).

- 2 Follow the instructions on the installation wizards.

The installation process is identical to installing on the first computer except for the following:

- The Windows Home Server Setup does not run.
- Your server password is required to install, as shown in the following figure:

Figure 14: Log on to Windows Home Server



To install from the server using Windows XP

- 1 At the computer, click **Start**, and then click **My Computer**.
- 2 Do one of the following:
 - Click **My Network Places**.
 - Under **Other Places**, click **My Network Places**.
- 3 In the **Add Network Place Wizard**, use the following (UNC) network address:

```
\\<name of the server>\software
```

For example, `\\HPSERVER\software`

When the wizard completes, you should see **software on server** in the My Network Places window.

- 4 Double-click the network place, and then open the **Home Server Connector Software** folder.
- 5 Double-click **Install.exe** and follow the instructions on the installation wizards.

To install from the server using Windows Vista

- 1 At the computer, click **Start**, and then click **Network**.
- 2 Under **Network Tasks**, click **Add a network place**.
- 3 In the **Network Place Wizard**, use the following **UNC** network address:

`\\<name of the server>\software`

For example, `\\HPSERVER\software`

When the wizard completes, you should see the name you chose for the network place in the window.

- 4 Double-click the network place, and then open the **Home Server Connector Software** folder.
- 5 Double-click **Install.exe** and follow the instructions on the installation wizards.

Note: **Network discovery** must be turned on to access the server. See [To ensure that Network Discovery is turned on on page 7-17](#).

Setting up Additional Home Computers

After installing the software on the Software Installation Disc, there are a few setup options for you to consider.

- The home computer is automatically set up to be backed up each night. If you want to customize back up settings for this computer, see [Backing up and restoring a computer on page 6-4](#).
- If you created individual user accounts in Windows Home Server for one or more family members that use this computer, you also need to set up computer user accounts for them if you want them to be able to access

features on the server without logging on. For additional information, see [Task 2 of 6: Create User Accounts on page 2-7](#).

- If there is an iTunes library on this computer that you want to include in an aggregated iTunes library on the server, set up this computer to copy its iTunes library to the server. For additional information, see [To setup copying your iTunes library to the server on page 6-29](#).

3 Server Console

The Windows Home Server Console is where you manage and configure the HP MediaSmart Server.

What's in this chapter

» [MediaSmart Server tab](#)

Tools and settings for managing the HP MediaSmart Server.

» [Windows Home Server tabs](#)

Overview of Windows Home Server functionality.

MediaSmart Server tab

The MediaSmart tab contains the tools and settings for managing the HP features.

HP MediaSmart software update

Use the HP MediaSmart software update to keep your server and client computers updated with the latest software, online help, and new features.

LED Brightness Control

Move the slider to adjust the brightness of the lights on the front of the HP MediaSmart Server. If you turn the LEDs off, the power light will remain on, but will be dim.

Remote access settings

Configure remote access settings to access your files away from home or to allow your friends and family to access your Photo Webshare. For more information, see [Task 3 of 6: Configure Remote Access on page 2-13](#).

Server Settings for iTunes

Put your iTunes music library and playlists on the server for playback to any computer or notebook running iTunes on your home network. Enable or disable this feature, set up a password, change the name displayed for the

HP MediaSmart Server in iTunes. For more information, see [Setting up iTunes on the server and the client computer on page 6-29](#).

Photo Webshare settings

Set up Webshare managers, email, and visitor upload limits. For more information, see [Task 4 of 6: Configure your HP Photo Webshare on page 2-17](#).

Windows Home Server tabs

The Windows Home Server enables you to share, store, access, and automatically protect your pictures, videos, music, and files. It contains the following tabs:

- **Computers & Backups**—view and customize backups. Also, view the status of your home computers running Windows Vista. For more information, see [Computers & Backup](#) in the Windows Home Server Console Help.
- **User Accounts**—add, remove, and modify user accounts. For more information, see [User Accounts](#) in the Windows Home Server Console Help.
- **Shared Folders**—add, open, remove, and view the properties of the shared folders on your server. For more information, see [Shared Folders](#) in the Windows Home Server Console Help.
- **Server Storage**—view, add, repair, and remove hard drives from server storage. For more information, see [Server Storage](#) in the Windows Home Server Console Help.
- **Network**—displays health notifications from your server and your home computers running Windows Vista. For more information, see [Network Health](#) in the Windows Home Server Console Help.
- **Settings**—configure general settings, such as date and time, backups, passwords, media sharing, remote access, add-ins, resources, and more. For more information, see [Server Settings](#) in the Windows Home Server Console Help.
- **Help**—access the Windows Home Server Console Help.

4 Control Center

The Control Center is the starting point for accessing the features of the HP MediaSmart Server. The Control Center has three tabs:

What's in this chapter

- » [MediaSmart tab](#)
Access your Photo Webshare and shared folders.
- » [Tools tab](#)
Tools and settings for configuring your server.
- » [Help & Support tab](#)
Learn to use the HP MediaSmart Server and connect to online support.

Accessing the Control Center

The Control Center desktop icon and system tray icon are available only if you selected to create them during installation.

The Control Center can be accessed from the following:



Windows Start menu—at the computer, click **Start, All Programs,** and then select **HP MediaSmart Server.**



Desktop icon —at the computer, double-click the HP MediaSmart Server icon on the desktop.



System tray icon —at the computer, double-click the HP MediaSmart Server icon on the system tray.

MediaSmart tab

Use this tab to access **Your Albums** in Photo Webshare and your [shared folders](#).

Photo Webshare

Figure 15: Photo Webshare on the MediaSmart tab



Opens Photo Webshare on the Your Albums page in a [Web browser](#) window. For information about using Photo Webshare, see [Photo Webshare on page 5-1](#).

Shared Folders

Shared folders are places to help you get started saving and organizing your files so that you can share them with other people on your network.

-  **Server**—opens a folder that displays a list of all your shared folders.
-  **Photos**—opens a folder that displays a list of photos and photo subfolders.
-  **Music**—opens a folder that displays a list of music and music subfolders.
-  **Video**—opens a folder that displays a list of video and video subfolders.

If the logon name for the user account on your server does not match the logon name for your computer, you must enter a user name and password. For information about creating matching user accounts, see [Why should logons names match?](#) in the Windows Home Server Console Help.

Tools tab

Use the tools and settings on this tab to configure your HP MediaSmart Server.

-  **Home Server Console**—opens the Windows Home Server Console, where you manage and configure the server. For more information, see [Server Console on page 3-1](#).
-  **Backup now**—immediately backs up your computer. All files not backed up since the last nightly backup are backed up. For more information, see [Backup Now](#) in the Windows Home Server Console Help.



Settings for iTunes—automatically copies your iTunes music library and playlists to the server for playback on any computer running iTunes on your home network. For more information, see [Setting up iTunes on the server and the client computer on page 6-29](#).

Help & Support tab

Get information about using, configuring, and getting accessories for your HP MediaSmart Server.



User's Guide—contains installation information, setup instructions, how to use the server, tutorials, and other important information.



Online support—go to the HP Support web site, where you can get more information about the HP MediaSmart Server.



Need accessories?—get accessories for your server and shop HP Home & Home Office.

5 Photo Webshare

What's in this chapter

- » [Before You Begin](#)
 - » [Logging on to HP Photo Webshare](#)
 - » [Webshare home page](#)
 - » [Managing Webshare User Accounts](#)
 - » [Creating an album to share](#)
 - » [Notifying visitors by email](#)
 - » [Viewing, printing, and saving photos](#)
 - » [Changing a Visitor's Password](#)
 - » [Frequently Asked Questions](#)
-

Securely share your photos and video clips with friends and family directly from your HP MediaSmart Server using HP Photo Webshare.

- Easily set up a secure, personal web address* to be used for remote access and by visitors to your HP Photo Webshare.
- Set up groups for sharing the different photo albums, such as family, ski club, and soccer team.
- Give specific visitors permission to add their own photos for sharing.
- HP Photo Webshare links to Snapfish for easy photo printing.

*Free and charge options (for personal domain name) are available.

Before You Begin

Some set up is required before logging on to the HP Photo Webshare for the first time. Check that the following configuration steps are complete.

- [Enable at least one user account with remote access](#)
- [Select at least one user account to be a Webshare Manager](#)
- [Setup Webshare notifications](#)

- [Select visitor storage limits](#)
- [Setup remote access](#)

Enable at least one user account with remote access

- 1** At the computer, double-click the Windows Home Server icon  in the system tray.
- 2** Log on to the Windows Home Server Console.
- 3** Click the **User Accounts** tab.
If the **User Accounts Setup** dialog displays, click **OK**.
- 4** Click **Add** on the **User Accounts** page.
The **Add User Accounts** dialog box opens. If you
- 5** Type **First name**, **Last name**, and **Logon name**.
The Logon name must be unique.
- 6** Check **Enable remote access for this user** and click **Next**.
- 7** Type and confirm a strong **Password** and click **Next**.
- 8** Set access to shared folders and click **Finish**.

Select at least one user account to be a Webshare Manager

Webshare Managers must have a user account with remote access enabled. If remote access is not enabled, complete the above steps before doing these.

- 1** Click **Settings** in the upper right of the Windows Home Server Console.
The **Windows Home Server Settings** dialog box opens.
- 2** Click **Photo Webshare** in the left menu.
- 3** Under **Webshare Managers**, select the user accounts to manage albums and visitors.

All user accounts are listed. However, remote access must be enabled on user accounts that are also Webshare Managers. If remote access is not enabled, you cannot select the user account. For more information, see [Enable at least one user account with remote access on page 5-2](#).
- 4** Click **OK** on the **Windows Home Server Settings** dialog or keep it open to set up Webshare notifications, which are described in the next procedure.

Setup Webshare notifications

Webshare notifications allow users to receive email notifications letting them know photos, or other albums, have been created/updated or shared with other users.

- 1 Click **Settings** in the upper right of the Windows Home Server Console. The **Windows Home Server Settings** dialog box opens.
- 2 Click **Photo Webshare** in the left menu.
- 3 Under **Webshare Notifications**, click **Configure**.
- 4 Follow the instructions in the **Email Settings** wizard.
- 5 Click **Finish** at the end of the wizard.
- 6 Click **OK** on the **Windows Home Server Settings** dialog or keep it open to set up visitor storage limits, which are described in the next procedure.

There is a section in the FAQ covering SMTP notification setup.

Select visitor storage limits

Visitors are friends and family outside your home network that you choose to share Webshare albums with. Depending on how you set up visitors, they may be able to add photos and videos to Webshare albums. The storage limit restricts the space for unapproved photos and videos added by visitors.

- 1 Click **Settings** in the upper right of the Windows Home Server Console. The **Windows Home Server Settings** dialog box opens.
- 2 Click **Photo Webshare** in the left menu.
- 3 Under **Visitor storage limits**, select a limit for unapproved photo storage space for each Webshare visitor.
- 4 Click **OK** on the **Windows Home Server Settings** dialog or keep it open to set up remote access, which is described in the next procedure.

Setup remote access

- 1 Click **Settings** in the upper right of the Windows Home Server Console. The **Windows Home Server Settings** dialog box opens.
- 2 Click **Remote Access** in the left menu.
- 3 Under **Web site Connectivity**, click **Turn on**.

- 4 Under **Router**, click **Setup**.

The server automatically tries to configure your broadband router. For more information, see [Configuring your broadband router](#) in the Windows Home Server Console Help.

- 5 Under **Domain Name**, click **Setup**.

A Domain Name is a Web address. It allows you to access your HP MediaSmart Server and HP Photo Webshare from the Internet. For instance, if you registered `MyFamily.hpshare.net` for your HP MediaSmart Server, you would use this address to connect to your server using remote access. Additionally, this address is part of the URL for accessing an album on your Photo Webshare.

For additional information, see [Domain Name on page 2-15](#).

- 6 Customize **Web site Settings** as desired.

- 7 Click **OK**.

Logging on to HP Photo Webshare

- 1 At the computer, click **Start, All Programs**, and then select **HP MediaSmart Server**.

The HP MediaSmart Server—Control Console opens.

- 2 On the **MediaSmart** tab, click **Photo Webshare**.

- 3 Type your **User name** and **Password** (Created during initial Install and Setup for the MediaSmart Server) and click **Logon**.

You are connected to the HP Photo Webshare where you can create and share albums over the Web with friends and family.

User names are not case sensitive. However, passwords are case sensitive.

Note: You are automatically logged out of Photo Webshare if there is no activity after 30 minutes.

Forgot Your Password?

Note: This is only used for Visitor account (accounts from outside the home network). Type your email address into the log on page and a message is sent to you with your user name and instructions for changing your password.

There is another section for server users, using the Admin Console.

Webshare home page

The HP Photo Webshare home page displays icons for each of your photo albums. Albums can be sorted by **Modification Date** or **Name**. Click **Create new album** to create and share photos and videos with friends and family. The following features are available on this page.

To view the HP Photo Webshare home page

- 1 Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).
- 2 View the following album information on the Webshare home page.
 - **My Webshare**—click **My Webshare** in the upper left corner of the page to return to the Webshare home page at any time. If you changed the name of your Webshare, that name appears in the upper left corner. For more information, see [Task 4 of 6: Configure your HP Photo Webshare on page 2-17](#).
 - **Visitors**—opens the **Manage Visitors** page for adding, deleting, and editing visitors. This is also where you setup email notifications for server users.
 - **Groups**—opens the **Manage Groups** page for adding, deleting, and editing groups.
 - **My Server**—click **My Server** in the title bar to go to the HP MediaSmart Server home page.
 - **Help**—opens the **HP MediaSmart Server User's Guide**.
 - **Sort by:**
 - **Modification date**—sorts photo albums ascending or descending by the last date they were modified. When you open Webshare, albums are sorted descending by modification date so the most recently changed albums are at the top.
 - **Name**—sorts albums alphabetically ascending or descending by album name.
 - **Create new album**—creates a new album.

- **Album Picture or Name**—hover over the album picture to display the album title, creation date, creator name, and description. Click the **album picture** or **name** to add more photos, buy prints, save photos to your computer, or view photos in a slideshow. Click **My Webshare** in the title bar to return to the home page.
- **Manage**—adds, deletes, rotates, and reorders photos. After making changes to the album, click **Next** to share and notify friends and family of the updates or **Finish** to return to the HP Photo Webshare home page. The Manage link displays for Webshare Managers, Windows Home Server users, and visitors that have permission to add photos to albums.
- **Delete**—Webshare Managers can delete albums.
- **Shared Album**— albums with this icon are shared with one or more visitors. Visitors can view, add, or print photos depending on their permissions. Albums without this icon have not been shared and cannot be viewed by people other than the Webshare managers and the person that created the album.
- **Photos to approve**— albums with this icon have unapproved photos from visitors or server users. Once approved, the new photos or videos are available to view by everyone that has access to that album.

Managing Webshare User Accounts

Webshare user accounts are required for each person that you want to share your albums with. User accounts are also required for each person that you want to give permission for creating albums or for managing Webshare features.

This section includes the following topics

- [About the Types of Webshare User Accounts](#)
- [Managing Visitors](#)
- [Managing Groups](#)

About the Types of Webshare User Accounts

There are three types of Webshare user accounts: Visitors, Windows Home Server User Accounts, and Webshare Managers. Each one is described below.

- [Visitors](#)
- [Windows Home Server User Accounts](#)
- [Webshare Managers](#)

Visitors

HP Photo Webshare albums can be shared with people outside your local network, called visitors. If you use the HP MediaSmart Server for personal use, visitors may be family or friends such as Grandma or Aunt Karen. If you use the Server for business, visitors may be your customers or business partners.

Visitors can have different levels of access to albums. At a basic level, visitors can view photos in the albums you choose to share with them. If you select to give visitors additional permissions, they can add photos to albums or save photos to their computers.

Visitors can be assigned to one or more groups. When you share albums, you select individual visitors or groups of visitors to notify that there is a new album available to view.

Windows Home Server User Accounts

Windows Home Server user accounts are different from visitors. Windows Home Server users can also use HP Photo Webshare. If you want to create a Webshare user account for someone inside your local network, such as a family member using a computer inside your home, use the Home Server Console so you can configure their permissions for all of the features on the HP MediaSmart Server. For more information, see [Task 2 of 6: Create User Accounts on page 2-7](#).

Webshare Managers

Webshare Managers have access to all HP Photo Webshare features, including viewing and managing content in all albums, sharing albums with people outside the home network, and approving album content added by

people that share the album. At least one Webshare Manager user account should be created before you can log on to the HP Photo Webshare. For more information, see [Before You Begin on page 5-1](#).

Managing Visitors

Visitors are managed from within the HP Photo Webshare. This section provides steps for

- [To view visitors](#)
- [To create or edit visitors](#)

To view visitors

The Manage Visitors page lists all Webshare user accounts and summaries their permissions.

- 1 Log on to the HP Photo Webshare.

For more information, see [Logging on to HP Photo Webshare on page 5-4](#).

- 2 Click **Visitors** in the upper right corner of the HP Photo Webshare to view a list of visitors and the following information.

The Visitor link is visible for Webshare Managers only. Windows Home Server users and Visitors do not see the Visitor link when they log on to Webshare.

- **User name**—unique identifier for each visitor. User names can only be used once. Initially the user name is their users email address.
- **First name**—the visitor's first name.
- **Last name**—the visitor's surname.
- **Add photos**—gives visitors the ability to add photos to an album. Visitors with add photos permission must logon to the Webshare with a user name and password. If the visitor also has auto-approve ability, there are no limitations on the size or quantity of files that the visitor can add.

If the visitor does not have auto-approve ability, a Webshare Manager must approve added photos and videos before other visitors can see them. Visitors without auto-approve ability have a limited amount of disk space that they can use for uploading photos and video before they are approved by a Webshare Manager.

Note: If you create a visitor with add photos but not auto-approve ability, you must also define their un-approved photo and video upload limits. Initially, the limit is set to OGB. For additional information, see [Task 4 of 6: Configure your HP Photo Webshare on page 2-17](#).

- **Save photos**—gives visitors the ability to select, size, and save photos from the HP Photo Webshare to their computer. For more information, see [Saving photos on page 5-22](#).
- **Auto-approve**—automatically approves photos added to an album by this visitor. Use caution when giving visitors this permission. Auto-approved photos and videos are immediately viewable by all visitors with access to that album.

For additional information, see [Adding photos to your album on page 5-14](#).

- **Email**—enables the visitor to be notified of new or changed albums. The visitor must have an email address to receive notifications. For additional information on notifications, see [Sharing an album on page 5-17](#).

Note: In the footer of the email notification there is an option for visitors to unsubscribe if they do not want to receive future notifications. When visitors unsubscribe, the check mark is cleared from this option.

- **Delete**—click the trash can to remove the visitor.

Note: Webshare Managers or Windows Home Server user accounts cannot be deleted from within HP Photo Webshare. Go to the Windows Home Server console to manage those users. For more information, see [User Accounts](#) in the Windows Home Server Console Help.

- **Edit**—click to change visitor information. All visitor information can be changed except for the user name.

If you need to change the user name, you must delete the visitor and create them again. Be sure to add the visitor back to the appropriate groups after they are re-created.

To create or edit visitors

This page allows you to add a new visitor or change the information for an existing visitor.

- 1 Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).
- 2 Webshare Managers click **Visitors** in the upper right corner of the HP Photo Webshare.
- 3 Click **Create Visitor** or click **Edit** next to an existing visitor.
If adding a visitor, the first field is the email address. The email address becomes the user name when the visitor is saved. If editing a visitor, the first field shows the user name.
- 4 Type the **Email Address** for the new visitor. If you are editing an existing visitor, the email address is the **User Name** and it cannot be changed.
Use only the following characters when typing the **Email Address**:
 - Uppercase letters—A, B, C, and so on.
 - Lowercase letters—a, b, c, and so on.
 - Numbers—0, 1, 2, 3, 4, 5, 6, 7, 8, 9
 - Symbols—use only: dash - underscore _ period . space []**Note:** After creating a visitor, the user name cannot be edited. If you need to change the **User Name**, you must delete the visitor and create a new one. Be sure to add the visitor back to the appropriate groups, as needed.
- 5 Type or change the remaining information for the visitor.
For detailed descriptions of each of the fields on this page, see [To view visitors on page 5-8](#).
Note: Passwords for Windows Home Server User Accounts and Webshare Managers cannot be managed from within Webshare. They are managed in the Windows Home Server Console. For more information, see [Task 2 of 6: Create User Accounts on page 2-7](#).
- 6 Select visitor permissions.
 - **Add Photos: These visitors can add photos**
Check to give visitors the ability to add photos to an album. Visitors with the add photos permission must logon to the Photo Webshare with a user name and password.

If the visitor does not have auto-approve ability, a Webshare Manager must approve added photos before other visitors can see them.

Note: Visitors with Add Photos checked must also have passwords.

- **Save Photos: These visitors can save photos**

Check to give visitors the ability to select, size, and save photos from the HP Photo Webshare to their computer. For more information, see [Saving photos on page 5-22](#).

Note: Visitors with Save Photos checked must also have passwords.

- **Auto-approve: These visitors can add photos without your approval.**

Check to automatically approve photos added to an album by this visitor. Use caution when giving visitors this permission. Auto-approved photos and videos are immediately viewable by all visitors with access to that album. Once logged on, there are no limitations on the size or quantity of files that the visitor can add. For additional information, see [Adding photos to your album on page 5-14](#).

- **Email: These visitors can receive email notifications and can unsubscribe.**

Check to enable the visitor to receive notifications of new or changed albums. The visitor must have an email address saved to their user account to receive notifications. For additional information on notifications, see [Sharing an album on page 5-17](#).

In the footer of the email notification there is an option for visitors to unsubscribe if they do not want to receive notifications in the future.

When visitors unsubscribe, the check mark is cleared from this option.

- 7 Albums to View**—select the albums this group can view. Click **Select All** to select all albums. Clicking a second time, deselects the albums. You can also check individual albums to select them. For additional information, see [Creating an album to share on page 5-13](#).
- 8** Select the **Groups** that this visitor is a member.

For example, Friends, Family, Soccer Team. For more information, see [Creating or editing groups on page 5-13](#).

Did you know?

You can share albums with friends and family without requiring them to log on to the HP Photo Webshare. To do this, create a visitor with only **Email** and **Save Photos** checked. When that visitor receives an email notification with a link to an album, they can go directly to the HP Photo Webshare home page using a single click of the email notification link.

Managing Groups

This section has steps for

- [Viewing groups](#)
- [Creating or editing groups](#)

Viewing groups

When you are ready to share albums, the HP Photo Webshare gives you the opportunity to select and notify one or more groups that there is an album ready for viewing. For additional information, see [Sharing an album on page 5-17](#).

To view groups

- 1** Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).
- 2** Click **Groups** in the upper right corner of the HP Photo Webshare to view a list of groups and the following information.
The Groups link is visible for Webshare Managers only. Windows Home Server users and Visitors do not see the Groups link when they log on to Webshare.
 - **Groups**—visitors can be members of one or more groups. Groups allow Webshare Managers to share albums with a collection of visitors quickly and easily.

- **Delete**—click the trash can to remove the group. Members of deleted groups do not have the ability to view any previously shared albums or new albums.
- **Edit**—click to change group information.

Creating or editing groups

This page allows you to add a new group or change the information for an existing group.

To create or edit groups

- 1** Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).
- 2** Click **Groups** in the upper right corner of the HP Photo Webshare.
The Groups link is visible for Webshare Managers only. Windows Home Server users and Visitors do not see the Groups link when they log on to Webshare.
- 3** Click **Create Group** or click **Edit** next to an existing group.
The following information displays for groups.
 - **Group**—type a unique name for the group. Group names can only be used once.
The group name cannot be edited. If you need to change the group name, you must delete the group and create a new one. Be sure to add the appropriate visitors back to the group.
 - **Members**—members include visitors and network users with HP Photo Webshare accounts. Click **Select All** to select all members. Clicking a second time, deselects the members. You can also check individual names to select them. For additional information, see [To create or edit visitors on page 5-9](#) or [Task 2 of 6: Create User Accounts on page 2-7](#).

Creating an album to share

To create an album to share over the Web

- 1 Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).
- 2 Click **Create New Album**.
The wizard walks you through the process of:
 - [Naming your album](#)
 - [Adding photos to your album](#)
 - [Sharing an album](#)Webshare Managers or visitors with permission to add photos can create new albums and add photos to existing albums.

Naming your album

Give your album a name and description that are recognized by family and friends.

To name your album

- 1 Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).
- 2 Click **Create New Album**.
Type the following information.
 - **Name**—the title of the album
 - **Description**—type a caption for your album. Optional.
- 3 Click **Next** to go to the next step in creating albums, adding photos and videos.

Adding photos to your album

Add and arrange photos and videos on this page.

The Photos page is one of the tabs in the **Create New Album** wizard. Once an album is created, you can return to the Photos page by clicking **Manage** under each album on the HP Photo Webshare home page.

Supported photo and video files

Photo Webshare supports the following file types:

- **Photos:** .jpg | .jpeg | .gif | .bmp | .png | .tif
- **Videos:** .mpg | .mpeg | .avi | .mov | .wmv

Note: Thumbnail and Preview images for .bmp and .tif have been converted to .jpg

To add photos and videos using Internet Explorer

1 Log on to the HP Photo Webshare.

For more information, see [Logging on to HP Photo Webshare on page 5-4](#).

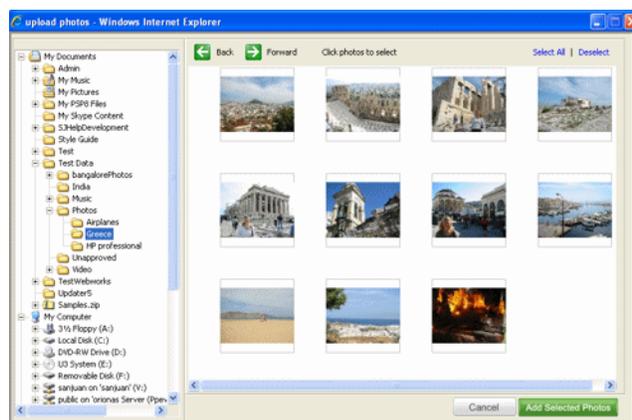
2 Click **Create New Album**.

3 Click **Add Photos**.

When using Internet Explorer, you are prompted to install an ActiveX control the first time you add photos. Once installed, the **Upload Photos** dialog displays.

The alternate **Add photos to your album** page displays if you choose to not install the ActiveX control. This page is also used if Firefox is your browser. For additional information, see [To add photos using Firefox \(or without the IE ActiveX control\) on page 5-16](#).

Figure 16: Upload photos



4 Locate the folder that contains the photos or videos you want to add.

Click **Select All** to select all the photos or videos in the folder. Clicking **Select All** a second time, deselects the files. You can also select or deselect individual files by clicking directly on each thumbnail. A check mark appears next to each selected photo or video. Use the rotate controls on each thumbnail to turn them clockwise or counterclockwise. Unsupported file types are not displayed.

5 Click **Add Selected Photos**.

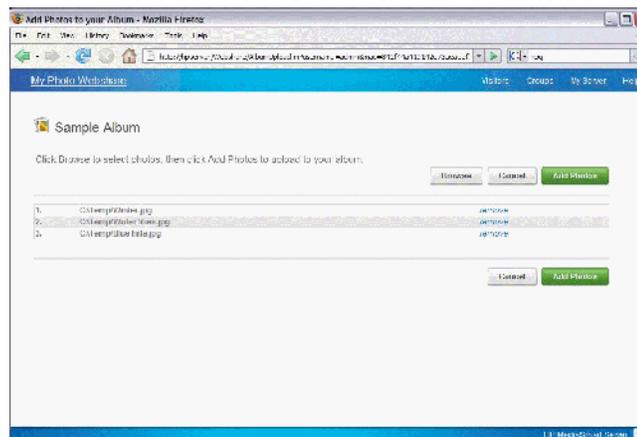
You are returned to the **Photos** tab of the **Create New Album** wizard. Repeat these steps as many times as you like to add photos or videos to your album.

To add photos using Firefox (or without the IE ActiveX control)

1 Click **Add Photos**.

The **Add photos to your album** page displays.

Figure 17: Add photos to your album page



2 Click **Browse** to navigate to each folder and select files until all of the photos or videos are selected.

3 Click **Add Photos**.

You are returned to the **Photos** tab of the **Create New Album** wizard. Repeat these steps as many times as you like to add photos or videos to your album.

To organize photos and videos

The Photos page displays all of the photos and videos in the album. You can make the changes below to photos or videos from this page. Click **Next** to share the album or **Finish** to return to the HP Photo Webshare home page when you are done making changes.

- **Reorder**—drag and drop pictures to reorder them.
Note: Files are added to the beginning of the album and may need to be reordered. For additional information, see [To create or edit visitors on page 5-9](#).
- **Rotate**—select the photos to rotate. A check mark appears in the lower left corner of the selected pictures. Click a button to rotate photos 90° clockwise  or counterclockwise .
- **Delete**—select the photos to delete. A check mark appears in the lower left corner of the selected pictures. Click the trash can  to delete the pictures.
- **Add captions**—click **Caption** below a photo or video and type a title or description. Press **Enter** or click outside the caption to save it. Click the text again to change the caption.
- **Add Photos**—opens a page for selecting and inserting more photos or videos into the album.

If visitors have permission, they may add photos or videos to the album after it has been shared. Files added by visitors with auto-approve permission are placed at the beginning of the album and may need to be reordered.

Files added by visitors without auto-approve permissions are placed in a section at the bottom of the Add Photos page. They remain there and cannot be viewed by other visitors until a Webshare Manager approves them. For additional information on visitor permissions or approving photos, see [To create or edit visitors on page 5-9](#).

Sharing an album

Albums are shared with visitors. Check the visitors with whom you want to share the album. Click **Select All** to share the album with all visitors. Click **Select All** a second time to deselect all visitors. Check a group to share the album with a set of visitors.

The Sharing page is one of the tabs in the **Create New Album** wizard. Once an album is created, you can return to the Sharing page by clicking **Manage** under each album on the HP Photo Webshare home page. The Photos page opens. Click **Next** to advance to the Sharing page or click the **Share** tab.

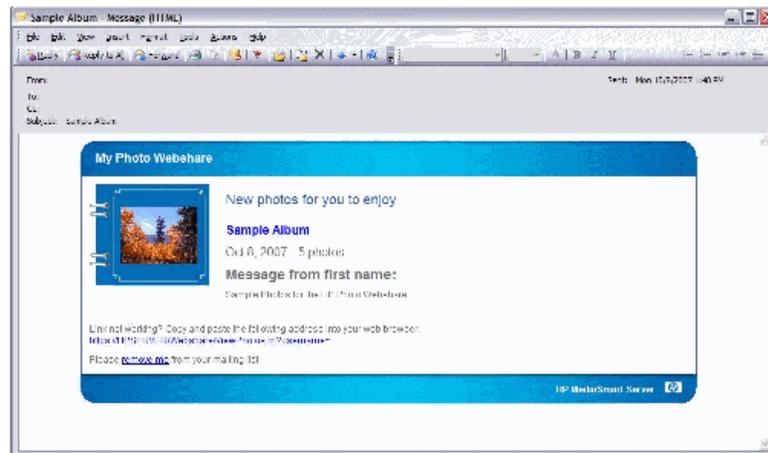
Albums are shared with visitors. If no visitors are listed, a Webshare Manager must add them. For additional information, see [To create or edit visitors on page 5-9](#).

Notifying visitors by email

Sends an email notification to visitors to let them know a new album has been created. If you make changes to an album later, you can come back to this page and send another notification.

The Notify page is one of the tabs in the Create New Album wizard. Once an album is created, you can return to the Notify page by clicking **Manage** under each album on the HP Photo Webshare home page. The Photos page opens. Click **Next** until you advance to the Notify page or click the **Notify** tab.

Figure 18: Sample email notification



- **Groups**— Check the groups with whom you want to share the album. Click **Select All** to share the album with all groups. Click **Select All** a second time to deselect all groups. Click the arrow next to each group to

expand the group and see the visitors in that group. Select or deselect individual visitors with whom to share the album.

- **To**—You can directly type in email addresses to share with users who are not already visitors, and you will be prompted to setup a new visitor account. If you would like to notify existing visitors, ensure they are selected at the left for sharing and then select them from the drop down list.
- **Subject**—type a subject line for the email notification. HP Photo Webshare puts the name of the album in the subject line if you do not type one.
- **Message**—type a message for the email notification. By default, this field is the album description.

Viewing, printing, and saving photos

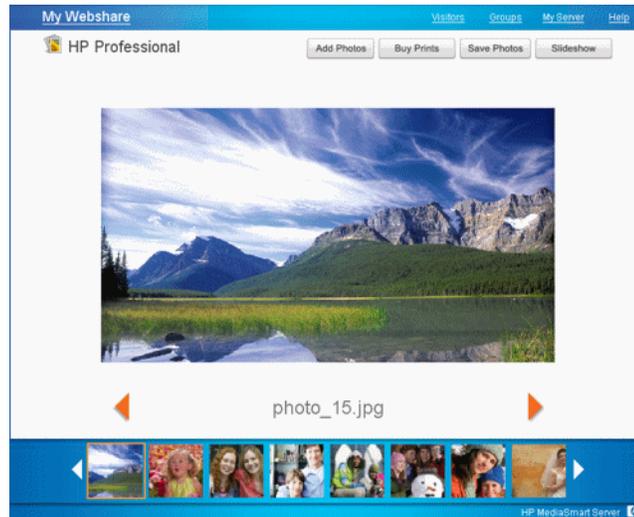
Click an album picture or name on the HP Photo Webshare home page to access features for:

- [Viewing photos](#)
- [Buying prints](#)
- [Saving photos](#)
- [Presenting slideshows](#)

Viewing photos

When you click an album picture or name in the HP Photo Webshare, a page displays for viewing the album's photos.

Figure 19: View photos page



To view photos

- 1 Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).
- 2 Click an **album picture** or **name** on the HP Photo Webshare home page.
A page displays for viewing the album's photos.
 - **Add Photos**—inserts more photos or videos into the album. For more information, see [Adding photos to your album on page 5-14](#).
 - **Buy Prints**—opens the Buy Prints page where you can select photos and order prints from Snapfish. For more information, see [Buying prints on page 5-21](#).
 - **Save Photos**—opens the Save Photos page where you can select and save photos to the computer from the HP MediaSmart Server. This feature enables visitors and remote users to save pictures to their location. For more information, see [Saving photos on page 5-22](#).
 - **Slideshow**—enjoy viewing photos as full-screen images. Automatically or manually advance through the photos in your album,

making them a great way to show pictures to family and friends. For more information, see [Presenting slideshows on page 5-23](#).

- **View**—click the left  or right  arrow to move the preview to the previous or next image.
- **Filmstrip**—displays a set of images from the album. Click the left  or right  arrow to page backward or forward through the photos.

Buying prints

Select photos for professional printing through Snapfish. Click **Order** to open a new browser window and connect to the Snapfish web site.

To buy prints

- 1 Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).

- 2 Click an **album picture** or **name** on the HP Photo Webshare home page.

A page displays for viewing the album's photos.

- 3 Click **Buy Prints**.

The Buy Prints page displays with the following options.

- **Select All**—selects all the photos in the album. Clicking a second time, deselects the photos. You can also select or deselect individual photos by clicking directly on each thumbnail. A check mark appears next to each selected photo. Unsupported file types are grayed out.
- **Preview**—opens a larger image of the photo in a pop-up window.
- **Order**—opens a window for you to type your Snapfish login email address and password. If you do not have a snapfish login, go to the Snapfish web site and create one. Click **Confirm** to connect to Snapfish and transfer the selected photos. Once on Snapfish, you can order prints or other products from the Snapfish store.

Note: A new album is created each time you transfer photos to Snapfish. If you transfer photos multiple times to Snapfish for a single Webshare album, a new Snapfish album is created for each photo transfer.

- **Cancel**—clears the selection and returns to the view photo page.

Note: The Buy Prints option is only available for .jpg images.

Saving photos

Select, size, and save photos from the HP MediaSmart Server to your computer. This is especially useful for visitors and remote users who want a copy of the photo on their computer to view or manipulate.

To save photos

- 1 Log on to the HP Photo Webshare.

For more information, see [Logging on to HP Photo Webshare on page 5-4](#).

- 2 Click an **album picture** or **name** on the HP Photo Webshare home page.

A page displays for viewing the album's photos.

- 3 Click **Save Photos**.

The Save Photos page displays with the following options.

- **Select All**—selects all the photos in the album. Clicking a second time, deselects the photos. You can also select or deselect individual photos by clicking directly on each thumbnail. A check mark appears next to each selected photo.
- **Preview Size**—reduces photos to at most 960 pixels on a side. If the original photo was smaller, then the original size and preview size are the same.

Note: Tif and Bmp previews are stored as jpg files

- **Original size**—does not change the size of the photo. Saves the photo at the same size it was added to Webshare.
- **Save**—saves the selected photos to the computer from the HP MediaSmart Server. This feature enables visitors and remote users to save pictures to their location. If a single photo is selected, you can open or save the graphic file. If multiple photos are selected, Webshare puts them in a zip file that you can open or save to your computer.
- **Cancel**—clears the selection and returns to the view photo page.

Presenting slideshows

Slideshows automatically or manually advance through the photos in your album, making them a great way to show pictures to family and friends.

To present slideshows

1 Log on to the HP Photo Webshare.
For more information, see [Logging on to HP Photo Webshare on page 5-4](#).

2 Click an **album picture** or **name** on the HP Photo Webshare home page.

A page displays for viewing the album's photos.

3 Click **Sideshow**.

The Slideshow page displays with the following options.

- **Play**—advances each photo based on the speed you selected. The **Play** button toggles to **Pause** when it is clicked.
- **Pause**—stops the automatic advancement of photos. The **Pause** button toggles to **Play** when it is clicked.
- **Previous/Next**—click left  or right  to move the slideshow to the previous or next image.
- **Beginning/End**—click left  or right  to move the slideshow to the first or last image.
- **Speed**—determines the number of seconds each photo displays before advancing to the next one during **Play** mode. Click a time to change the speed.

Changing a Visitor's Password

When logged on as a visitor account, there is a change password link at the top left. Once logged in, visitors can change (or remove) their password as they wish.

Frequently Asked Questions

- Where are my Webshare photos and videos stored on my HP MediaSmart Server?
The files and photos for Webshare are stored in a separate location on the server. This location is not available through network shares to help ensure that the correct file management aspects are enforced.
- When I'm browsing to a location on my computer to add photos and videos to a Webshare album, I can't see all of my files. Where are they?
Only photo and video file formats are visible when browsing to add files to albums. Other file types, such as documents or spreadsheets, are not displayed for selecting.
- What is the difference between a Webshare Manager, a Windows Home Server User, and a Visitor?
- What do I do if I forgot my Webshare user name or password?
For visitor accounts : Open the Webshare logon page. Type your email address in the **Forgot your user name or password?** box and click **Send**.
For Windows Home Server accounts: Use the Windows Home Server user management tool(s) to reset / change passwords for user accounts.
- How do I set the amount of disk space that visitors can use for uploading photos and video clips before they are approved by a Webshare manager?
See [Task 4 of 6: Configure your HP Photo Webshare on page 2-17](#).
- What happens to the albums / files for accounts when they are deleted? .
When an account is deleted, all of the content remains and is the responsibility of the Webshare manager to either keep the remaining albums and photos and manage the sharing, or delete these items

6 Using the Server

The following topics provide information about using and configuring the HP MediaSmart Server.

What's in this chapter

- » [Shared folders](#)
Using and accessing shared folders.
- » [Backing up and restoring a computer](#)
How backups work and how to configure, restore, and troubleshoot them.
- » [Expanding server storage](#)
How to add hard drives, USB drives, and eSATA drives to your server.
- » [Replacing the system drive](#)
How to replace the internal system drive.
- » [Securing your server from intruders](#)
Protect your server, network, and computers.
- » [Streaming media](#)
Stream your favorite music, videos, and photos from the server to a digital media receiver.
- » [Setting up iTunes on the server and the client computer](#)
Copy your iTunes music library and playlists to the server for playback on any computer running iTunes on your home network.
- » [Network health](#)
What health notifications mean and what to do about them.
- » [Hardware status](#)
Status of the server's fans, voltages, and operating temperatures.
- » [How to add shared folders to network places](#)
How to add shared folders to network places in Windows XP and Windows Vista.
- » [Remote access](#)

Access your files and home computers via a Web browser while you are away from home.

» [How to map and disconnect a drive letter](#)

Some software, such as anti-virus programs, may require that you map a drive letter to the server.

Shared folders

Shared folders are places for you to organize and store files on your home server so that you can share them with other people on your network.

See the following topics for using shared folders:

- [Windows Home Server Console Help for shared folders](#)—Windows Home Server Console contains a **Shared Folders** tab, where you can add, view the properties of, open, and remove shared folders on the server.
- [Accessing shared folders from your computer](#)—describes the various ways you can access shared folders.

Windows Home Server Console Help for shared folders

For assistance using shared folders, see the following in the Windows Home Server Console Help:

- [Shared Folder](#)
- [Adding a shared folder](#)
- [Viewing shared folder properties](#)
- [Opening a shared folder](#)
- [Removing a shared folder](#)
- [Viewing shared folder history](#)
- [What is Folder Duplication?](#)

Accessing shared folders from your computer

For convenience, the HP MediaSmart Server provides several ways to access shared folders:

- [To access shared folders from the Control Center](#)
- [To access shared folders from the desktop shortcut](#)

- To access shared folders from the system tray
- To access shared folders from My Network Places in Windows XP
- To access shared folders from Network in Windows Vista

To access shared folders from the Control Center

- 1 At the computer, click **Start, All Programs**, and then select **HP MediaSmart Server**.
- 2 In the Control Center, click the **MediaSmart** tab.
- 3 Click one of the following:

 **Server**—opens a folder that contains all your shared folders.

 **Photos**—opens a folder for sharing photos.

 **Music**—opens a folder for sharing music.

 **Videos** —opens a folder for sharing videos.

To access shared folders from the desktop shortcut

- 1 At the computer, go to the desktop, and then double-click the **Shared Folders on Server** shortcut.

Figure 20: Shared Folders desktop shortcut



- 2 Double-click the shared folder you want to open.

To access shared folders from the system tray

- 1 Right-click the **Windows Home Server** icon.

Figure 21: Windows Home Server system tray icon



- 2 Click **Shared Folders**.
- 3 Double-click the shared folder you want to open.

To access shared folders from My Network Places in Windows XP

- 1 At the computer, click **Start**, and then click **My Network Places**.
- 2 Double-click the shared folder you want to open.

Note: If the shared folders are not in My Network places, you can add them manually, as described in [How to add shared folders to network places on page 6-31](#).

To access shared folders from Network in Windows Vista

- 1 At the computer, click **Start**, and then **Network**.
- 2 In Network, double-click the computer icon next to SERVER.

If you changed the default name of the server, that name appears next to the computer icon instead.

Figure 22: HP MediaSmart Server icon in Windows Network



Note: Be sure to select this icon. There may be other servers in the list.

- 3 Double-click the shared folder you want to open.

Backing up and restoring a computer

Backing up and restoring a computer is available through the **Backups & Computers** tab on the Windows Home Server console.

To access the Backups & Computers tab

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Click the **Backups & Computers** tab.

For assistance backing up or restoring a computer, see the following in the Windows Home Server Console Help:

- [Computers & Backup](#)
- [How does backup work?](#)
- [Managing and Configuring Backups](#)
- [Restoring Computer Backups](#)
- [Removing a Computer](#)
- [Troubleshooting Computers & Backup](#)

Expanding server storage

You can expand storage in the HP MediaSmart Server in several ways:

- Add one or more [SATA](#) hard drives to the server's internal expansion bays. (Integrated Drive Electronics (IDE) drives are not supported.)
- Add up to four USB disk drives to the server's USB ports.
- Add an external SATA (eSATA) hard drive to the server's external eSATA port.
- Add a SATA port multiplier to the server's external eSATA port.

The following topics provide information on expanding server storage:

- [Installing an internal SATA drive](#)
- [Installing and removing an external USB disk drive, eSATA drive, SATA port multiplier](#)
- [Adding and removing drives from server storage](#)

Installing an internal SATA drive

How to place a hard drive into an expansion bay in the HP MediaSmart Server.

◆ **Important:** Do not remove the bottom drive. This drive contains the Windows Home Server operating system.

◆ **Important:** There are two parts to adding an internal drive: add the drive to an expansion bay and then initialize the drive so it becomes part of the total server storage.

To add a SATA drive to an expansion bay

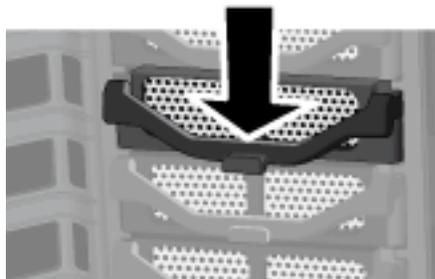
- 1 Determine which expansion bay to use:
 - The light-bar for an empty expansion bay is off.
 - Add the new hard drive to the lowest available expansion bay.
- 2 Open the door on the front of the server.

Figure 23: Opening the door



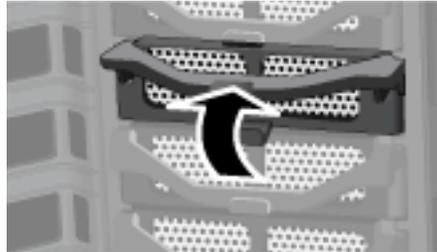
- 3 On the lowest empty hard-drive tray, press down the lever to unlock the handle.

Figure 24: Unlocking the hard-drive tray



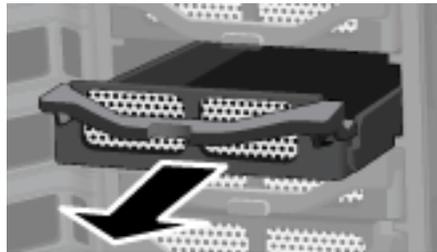
- 4 Lift the handle all the way up.

Figure 25: Lifting the handle



- 5 Gently pull the hard-drive tray from the expansion bay.

Figure 26: Removing the hard-drive tray



- 6 Fold down the flap near the back of the hard-drive tray.

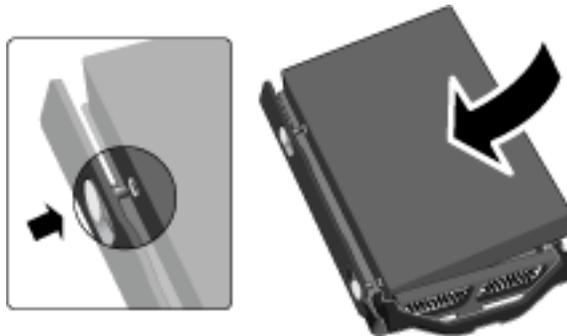
Figure 27: Folding down the flap



Note: This flap improves air flow through the server. If you remove a drive, be sure to fold this flap back up.

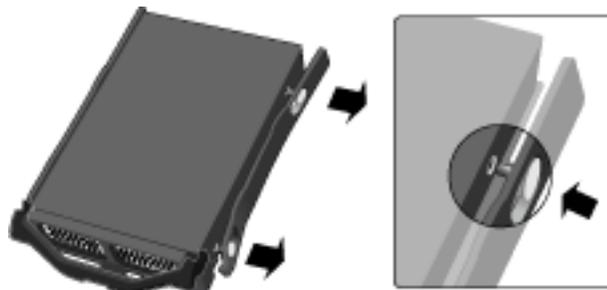
- 7 Insert the new drive into the left side of the hard-drive tray, making sure that the pins go into the hard drive's mounting holes.

Figure 28: Putting the new drive in the hard-drive tray—left side



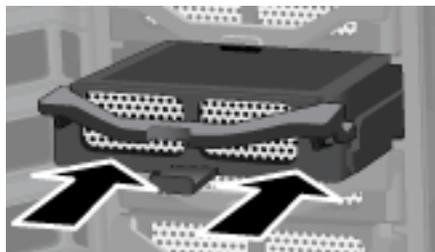
- 8 Flex the right side-rail, and then insert the pins into the hard drive's mounting holes.

Figure 29: Putting the new drive in the hard-drive tray—right side



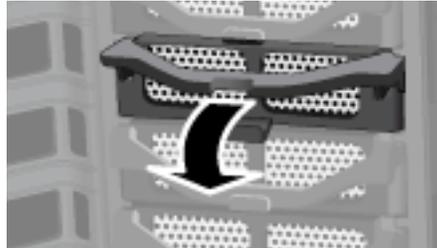
- 9 With the handle up, slide the hard-drive tray and drive into the expansion bay.

Figure 30: Inserting the drive tray into the expansion bay



- 10 Press down on the handle on the hard-drive tray until it locks.

Figure 31: Closing the handle



- 11 Close the door on the front of the server.

Figure 32: Closing the door



- 12 Notice that within a few seconds the light-bar for the new hard drive turns purple . This indicates that the hard drive has been installed, but has not been initialized.
- 13 Add the drive to the server's total storage. See [To add a drive to the server's total storage on page 6-11](#).

Installing and removing an external USB disk drive, eSATA drive, SATA port multiplier

You can add external USB disk drives to any of the HP MediaSmart Server's four USB ports. You can add either an eSATA drive or SATA port multiplier to the eSATA port.

-  **Important:** There are two parts to adding external drives: connect the drive to a USB port and then initialize the drive so it becomes part of the total server storage.

To connect an external USB disk drive

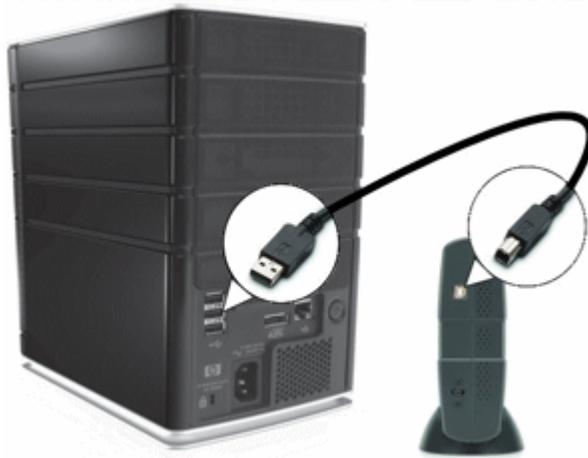
If you use a USB disk drive, it is recommended that you use a drive that conforms to USB 2.0 or later.

- 1 Plug in the USB cable into one of the USB ports on the server.
- 2 To plug in and power up your external USB drive, see the documentation that came with your USB disk drive.



Caution: The addition of multiple USB disk drives through an external USB hub is neither recommended nor supported.

Figure 33: Connecting a USB disk drive to HP MediaSmart Server



To connect an eSATA disk drive or SATA port multiplier

- 1 Plug in the Serial ATA cable into the eSATA port on the back of the server, as shown in the following figure.
- 2 To plug in and power up your eSATA disk drive or SATA port multiplier, see the documentation that came with your device.

Figure 34: Location of eSATA connector



Adding and removing drives from server storage

Drives added or removed from an expansion bay *must* be added or removed from total server storage.



Caution: When adding a hard drive to server storage, the hard drive is formatted. Make sure to back up any important files that are on the hard drive before adding it to server storage.

To add a drive to the server's total storage

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Click the **Server Storage** tab.
- 4 Follow the instructions in [Adding a hard drive](#) in the Windows Home Server Console Help.

To remove a drive from the server's storage



Caution: If the server does not have enough remaining storage, and you do not first add another hard drive to server storage, either you will lose [shared-folder duplication](#) or you will lose files. This depends on how much server storage space remains after you remove a hard drive.

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Click the **Server Storage** tab.
- 4 Follow the instructions in [Removing a hard drive](#) in the Windows Home Server Console Help.

Removing a hard drive from the server

How to remove a hard drive from an expansion bay in the HP MediaSmart Server.

For information about removing the system drive, see [Replacing the system drive on page 6-16](#).



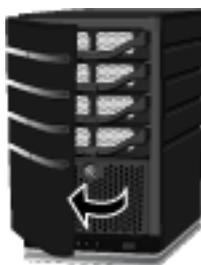
Caution: Before removing a drive from an expansion bay, you must remove the drive from the server's total storage.

For information about removing a drive from total storage, see [To remove a drive from the server's storage on page 6-11](#).

To remove a hard drive from an expansion bay

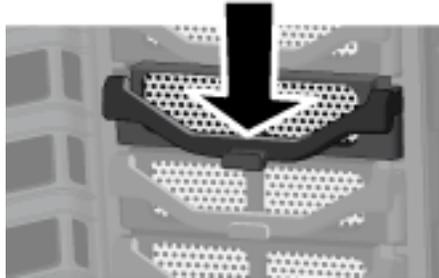
- 1 Be sure that the light-bar for the hard drive you want to remove is purple . This indicates that the drive has been properly removed from the server's total storage.
- 2 Open the door on the front of the HP MediaSmart Server.

Figure 35: Opening the door



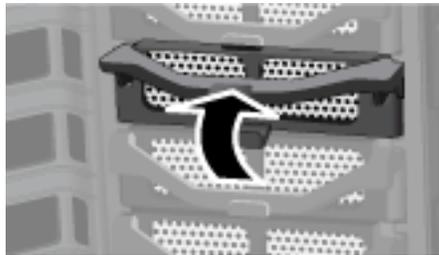
- 3 On the drive you want to remove, press down the lever to unlock the handle.

Figure 36: Unlocking the hard-drive tray



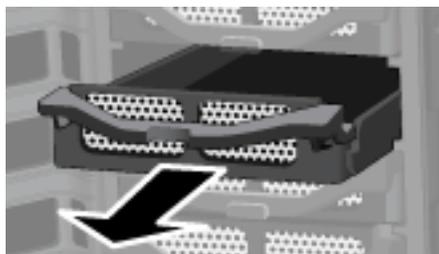
- 4 Lift the handle of the hard-drive tray all the way up.

Figure 37: Lifting the handle



- 5 Gently pull the system drive from the drive bay.

Figure 38: Removing the system-drive tray



- 6 Flex the back of the right side-rail, and then withdraw the back pin from the hard drive by gently pulling the side-rail down and away.

Figure 39: Removing the right side-rail



- 7** Flex the front of the right side-rail, and then withdraw the front pin from the hard drive by gently pulling the side-rail down and away.
- 8** Remove the drive from the hard-drive tray.

Figure 40: Removing the drive



- 9** Fold up the flap near the back of the hard-drive tray.

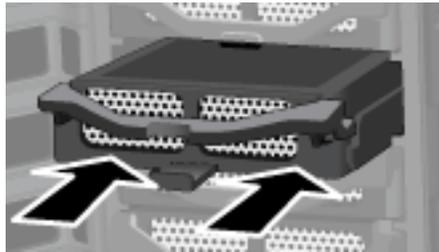
Figure 41: Folding up the flap



Note: Folding up the flap improves air flow and helps keep the server cool.

- 10 With the handle up, slide the hard-drive tray back into the system bay.

Figure 42: Inserting the hard-drive tray into the system bay



- 11 Close the handle on the hard-drive tray until it locks.

Figure 43: Closing the handle



- 12 Close the door on the front of the server.

Figure 44: Closing the door



Replacing the system drive

Replacing the internal system drive consists of four parts:

- 1 [Removing the system drive](#)
- 2 [Re-installing the new system drive](#)
- 3 Resetting the System. See [Using Server Recovery and Factory Reset on page 7-7](#).
- 4 Reinstall the software on each computer. See [Installing the Software on Additional Home Computers on page 2-21](#).

Important: The system drive contains the Microsoft Windows Home Server operating system. The server cannot operate while the system drive is removed and must be re-installed via the Server Recovery Disc or factory reset. See [Using Server Recovery and Factory Reset on page 7-7](#).

Removing the system drive

The following figure shows the location of the system hard drive.

Figure 45: Location of internal system drive



To remove the system drive

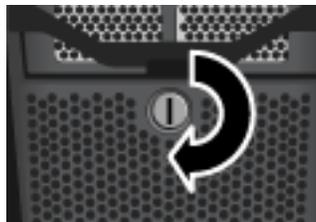
- 1 Hold in the **Power** button for at least 4 seconds to force the server to shutdown.
- 2 Open the door on the front of the server.

Figure 46: Opening the door



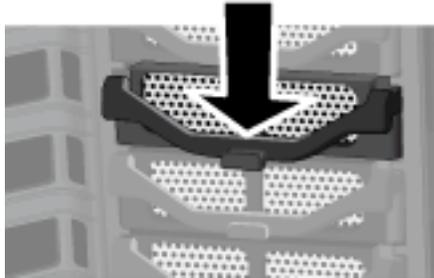
- 3 Using a coin, turn the security knob clockwise to unlock the drive.

Figure 47: Unlocking the system drive



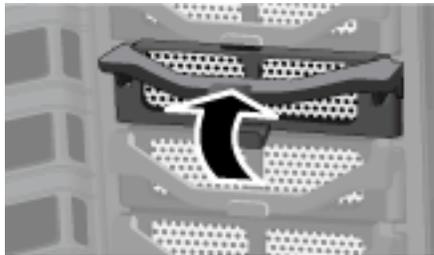
- 4 On the bottom drive, press down the lever to release the handle.

Figure 48: Releasing the handle



- 5 Lift the handle all the way up.

Figure 49: Lifting the handle



- 6 Gently pull the system drive from the drive bay.

Figure 50: Removing the system-drive tray



- 7 Flex the back of the right side-rail and withdraw the back pin from the hard drive by gently pulling the side-rail down and away.

Figure 51: Removing the right side-rail



- 8** Flex the front of the right side-rail and withdraw the front pin from the hard drive by gently pulling the side-rail down and away.
- 9** Remove the drive from the hard-drive tray.

Figure 52: Removing the drive



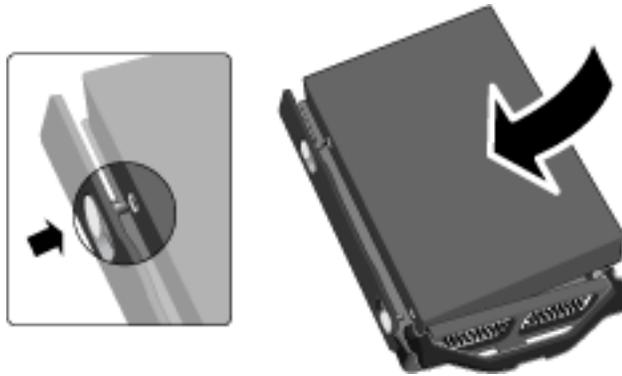
Re-installing the new system drive

This topic provides information about how to install the system drive.

To re-install the new system drive

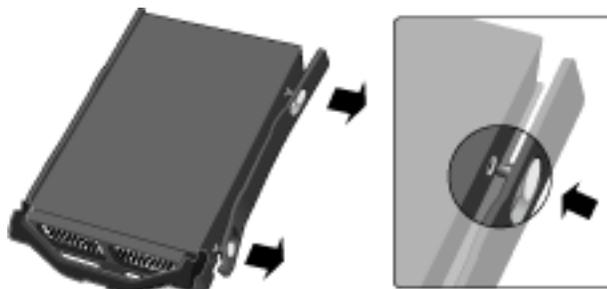
- 1 Insert the new system drive into the left side of the hard-drive tray, making sure that the pins go into the hard drive's mounting holes.

Figure 53: Putting the new system drive in the hard-drive tray—left side



- 2 Flex the front of the right side-rail and insert the pin into the hard drive's mounting hole, and then flex the back of the right side-rail and insert the pin into the other mounting hole.

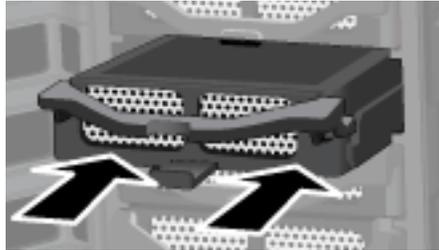
Figure 54: Putting the new system drive in the hard-drive tray—right side



- 3 With the handle up, slide the hard-drive tray and drive into the system bay.

Note: Don't push on the handle; the tray won't slide in.

Figure 55: Inserting the new drive into the system bay



- 4 Close the handle on the hard-drive tray by pressing down until it locks.

Figure 56: Closing the handle



- 5 Using a coin, turn the security knob counterclockwise to lock system drive in its bay.

Figure 57: Locking the security knob



- 6 Close the door on the front of the server.

Figure 58: Closing the door



- 7 Power on the server.
The Health indicator light is initially purple and then blinks blue and red.
- 8 Perform a Factory Reset to initiate the drive. See [Using Server Recovery and Factory Reset on page 7-7](#).

Securing your server from intruders

The HP MediaSmart Server is designed as an “always on” device, which comes in handy for accessing files any time your network users need or want them. Additionally, Photo Webshare can allow visitors to view, add, and delete photos and videos. If not properly secured, these features present security risks, so you’ll want to ensure that unauthorized users can’t access your server and the files stored on it.

The following security measures help protect your network and computers:

- [Firewall protection](#)
- [Wireless security](#)
- [Anti-virus software](#)
- [User name and password protection](#)
- [Remote Access security](#)
- [Photo Webshare security](#)

Firewall protection

A firewall is a hardware device or software program that protects your network from unauthorized access. It protects your system from hackers running programs, sending email, and gaining access to your private

information. The following types of firewalls protect your network and computers:

- Broadband router firewall
- Windows Home Server firewall
- Personal firewall

Broadband router firewall

The HP MediaSmart Server requires a broadband router. Broadband routers allow multiple computers and devices to share an internet connection using [NAT](#) (Network Address Translation) technology. NAT allows all the computers and devices on your network to use a single internet connection ([IP address](#)). NAT acts as a firewall by masking the real IP addresses of your network components—including the HP MediaSmart Server—which keeps them from being seen outside the home.

Some broadband routers implement Stateful Packet Inspection (SPI), which adds enhanced security by examining each packet of information before allowing it into the network. SPI can prevent advanced forms of incursions like Denial of Service attacks.

Windows Home Server firewall

Windows Home Server includes Windows Firewall, which protects communications between the server and the computers on your home network. This firewall is configured to allow remote access. It is not configurable by the user.

Personal firewall

A personal firewall is a software application that protects an individual computer. Because a personal firewall is behind the broadband firewall, it will protect the computer on which it is installed from attacks from other computers within the network.

Firewall ports

The following table lists the ports used by the server.

Table 5: Ports used by the server

Type	Port numbers	Description
TCP	80, 443	Standard Web site
TCP	55000, 56000 internal (subnet only)	Web site for Windows Home Server Web services
TCP	1138	Transport
TCP	8912	Backup and beacon
UDP	8912	Backup and beacon
TCP	2869	UPnP (Universal Plug and Play)
UDP	1900	UPnP
TCP	3389	Remote desktop
TCP	4125	Remote access (when enabled)
TCP	139, 445	File and print sharing
UDP	137, 138	File and print sharing
UDP	10284, 10283, 10282, 10281, 10280, 10243	Media connection

The following topics in the Windows Home Server Console Help discuss how to configure your router for port forwarding:

- [Learn how to manually configure your router and home server](#)
- [Configuring your broadband router](#)
- [Why can't I connect to some computers?](#)
- [Learn more about router port forwarding](#)

Wireless security

If your router comes with wireless capability, it has a piece of equipment called a Wireless Access Point (WAP). A WAP can come within an [all-in-one-gateway](#), router, or as a standalone unit. In many cases, WAP's security

settings are toggled off by default and you must manually turn on the security settings. If the security settings are toggled off, anyone can access your network and may be able to get into the server and any computer or other device on your network. Firewalls and [anti-virus software](#) do not keep intruders out of wireless networks.

Most wireless networking equipment supports two forms of data encryption as security features:

- Wired Equivalent Privacy (WEP)
- Wi-Fi Protected Access (WPA)

For more information on how to configure the security for your wireless network, see the user's guide that came with your networking equipment.

Anti-virus software

You should install [anti-virus software](#) on all the computers on your network, and configure the software from one of the computers to scan all the shared folders on the server. You might be required to assign (map) drive letters to all your shared folders to enable the anti-virus software to scan the server. For information on how to map drive letters to your shared folders, see [How to map and disconnect a drive letter on page 6-34](#).



Important: Remember to keep your anti-virus definitions up-to-date.

User name and password protection

User names and passwords help secure the server by requiring authentication for managing the server, accessing shared files, and using remote access.

- **Server password**—during the first install of the HP MediaSmart Server, you are asked to create a [strong password](#) to allow access for managing your server from the Windows Home Server console. This password will protect the server from unwanted changes.
- **User account passwords**—each person who uses your network must have a user account so they can access shared folders on the server or, if configured, use remote access. For more information, see [User Accounts](#) and [Setting User Accounts Password Policy](#) in the Windows Home Server Console Help.
- **Computer passwords**—by using the same user name and password for logging onto a computer as for the server user account, you can avoid

having to enter the user name and password when accessing a shared folder. Requiring logon to each computer on your network adds a level of security. For more information, see [Why should logon names match?](#) in the Windows Home Server Console Help.

- **Webshare passwords**—you can require passwords for outside visitors to your Photo Webshare. See [Photo Webshare security on page 6-27](#).

Remote Access security

By default Remote Access is turned off.

Using a computer to remotely access the files on your server is protected in several ways:

- Security certificate
- [HTTPS](#) (encrypted Secure Sockets Layer (SSL) protocol)
- User account with strong password

Security certificate: When you install the HP MediaSmart Server software on your home computers, the Windows Home Server Connector software adds the Windows Home Server security certificate to the computer's trusted certificate list. This security certificate helps secure the information that is exchanged between the server and your computer's [Web browser](#). The best way to access the files on the server while away from home is from a portable computer that has the HP MediaSmart Server software installed on it.



Caution: Using remote access to access your server from public or other untrusted computers is not recommended. Doing so can potentially expose your server to malicious software and viruses.

HTTPS: Remote Access is secure because the connection between the remote computer and the server is done over [HTTPS](#). HTTPS uses the encrypted Secure Sockets Layer (SSL) protocol, the same protocol used for banking transactions and retail commerce.

User Account: Remote access does not allow logging on from the Guest or Administrator account. Moreover, the user account must be enabled for remote access, which requires a strong password to ensure that authentication is as secure as possible.

Photo Webshare security

Home network users with user accounts and Photo Webshare access, must use their user name and password to logon to Webshare. Outside visitors who can create albums, add photos to an album, or download photos, must also have a user name and password.

For visitors who aren't required to have a user name and password, your server is still protected from open access because of the nature of the link (URL) provided in the email notification. For example:

```
https://myfamily.hp.share.net/WebShare/  
MAC=93728e7dc64b20a56f1&album=Weminuche%20Wilderness
```

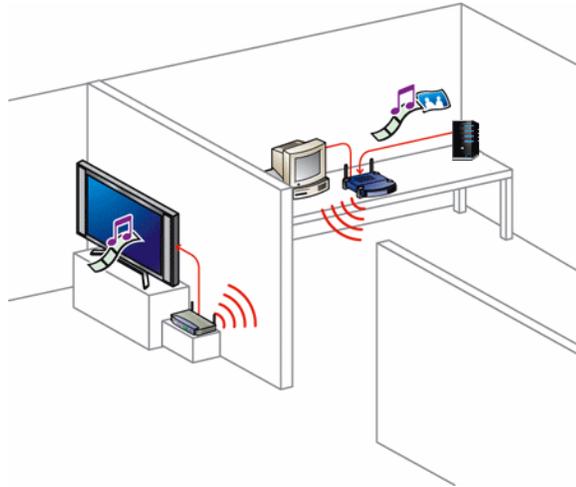
This type of URL restricts open access because of its complexity, but allows anyone who has received the URL to view the album without a user name and password. If you want more protection for accessing your albums, you can set visitor permissions so that every visitor must provide a user name and password. Normally, only visitors who can upload photos or video clips require a user name and password.

Streaming media

You can stream your favorite music, videos, and photos from the HP MediaSmart Server to any supported digital media receiver (DMR) or to a supported digital media player.

The following figure shows a possible layout for media streaming.

Figure 59: Media streaming layout



For information on how to stream media from the server, see [Media Sharing](#) in the Windows Home Server Console Help.

Setting up iTunes on the server and the client computer

The HP MediaSmart Server provides the ability to copy your iTunes music library and playlists to the server. This feature allows you to centralize your iTunes library for playback on any computer or notebook running iTunes on your home network.

To set up the Server for iTunes

The server is enabled for iTunes by default.

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Under **Server Settings for iTunes**, click **Modify**.
- 4 In the **Settings for iTunes** page, set up the following:
 - **Status**—enable or disable.
 - **Shared name**—the name displayed in iTunes for the server.
 - **Password**—optionally require a password to connect to the server from iTunes. If a password is assigned, only users that provide the correct password can play music from server's shared library.
 - **Check interval**—how often to check for music that has been added to the shared Music folder on the server.
- 5 Click **OK** to finish.

To setup copying your iTunes library to the server

How to set up a computer to copy its iTunes music library and playlists to your shared Music folder on the server.

- 1 At the computer, click **Start, All Programs**, and then select **HP MediaSmart Server**.
- 2 In the Control Center, click the **Tools** tab.
- 3 Click **Settings for iTunes**.
- 4 In the **Settings for iTunes** dialog box, set up the following:
 - Enable or disable automatic copying of iTunes music for the computer.
 - **User name** and **Password**—optionally, enter the name and password for your User Account that you use to access the server.

If you do not enter a user name and password, the user name and password on your local User Account is used (that is, the User Account on the computer that you are currently using).

If you provide an invalid user name or password, access is attempted using the user account information on your computer; if this information matches, you can access the iTunes share music library on the server. If the user account information does not match and the user name and password entered in the **Setting for iTunes** dialog box are invalid, access to the iTunes shared music library on the server is denied.

- **Check for new music every**—how often to check for new music to copy to the iTunes folder in your shared Music folder on the server.

5 Click **Done** to finish.

Network health

The Windows Home Server console contains a **Network Health** button to view the health of your network.

The **Home Network Health** dialog box shows health notifications from the server and the computers that are running Windows Vista.

To access the Network Health button

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Click the **Network Health** button.

For assistance with Network Health notifications, see the following in the Windows Home Server Console Help:

- [Network Health](#)
- [Home Server Health Notifications](#)
- [Home Computer Health Notifications](#)

How to add shared folders to network places

How to add shared folders to network places in Windows XP and Windows Vista.

- [To add shared folders to My Network Places in Windows XP](#)
- [To add a network place in Windows Vista](#)

To add shared folders to My Network Places in Windows XP

- 1 At the computer, click **Start**, and then click **My Computer**.
Note: If you use the classic start menu, click **My Computer** on the desktop.
- 2 Under **Other Places**, click **My Network Places**.
- 3 Under **Network Tasks**, click **Add a network place**.
- 4 In the Add Network Place Wizard, click **Next**.
- 5 Highlight **Choose another network location**, and then click **Next**.
- 6 To add the network place, you have two options:
 - In the **Internet or network address** box, enter the path to the shared folder you want to map, and then click **Next**.
For example, enter `\\SERVER\Music`
SERVER is the default name. If you changed the name of the server, use that name. **Music** is the shared folder's name.
 - Click the **Browse** button and then use Windows Explorer to locate the network place.
The path is usually: Entire Network, Microsoft Windows Network, Workgroup, <Name of Server>.
- 7 After locating the shared folder, click to highlight it, and then click **OK**.
The location will appear in the **Folder** box.
- 8 Specify whether you want to reconnect every time that you log on to your computer, and then click **Finish**.

Once you create a network place for one of the shared folders, the other shared folders on the server will be available on **My Network Places**.

To add a network place in Windows Vista

Note: Network discovery must be turned on to add a shared folder to Network places in Windows Vista. If network discovery is not turned on, see [How to add shared folders to network places on page 6-31](#).

- 1 At the computer, click **Start**, and then click **Network**.
- 2 Under **Network Tasks**, click **Add a network place**.
- 3 In the Network Place Wizard, click **Next**.
- 4 Highlight **Choose another network location**, and then click **Next**.
- 5 To add the network place, you have two options:
 - In the **Internet or network address** box, enter the path to the shared folder you want to map, and then click **Next**.
For example, enter `\\SERVER\Software`
SERVER is the default name. If you changed the name of the server, use that name. **Software** is shared folder's name.
 - Click the **Browse** button and then use Windows Explorer to locate the network place.
The path is usually: Entire Network, Microsoft Windows Network, Workgroup, <Name of Server>.
After locating the shared folder, click to highlight it, and then click **OK**. The location will appear in the **Internet or network address** box.
- 6 To create a name for the network place, enter a name in the **Type a name for this network place** box, and then click **Next**.
- 7 Specify whether you want to reconnect every time that you log on to your computer, and then click **Finish**.

Hardware status

Displays the status of the server's fans, voltages, and operating temperatures.

To access the Hardware status page

- 1 At the computer, double-click the Windows Home Server icon  in the system tray.
- 2 Log on to the Windows Home Server Console.
- 3 Click the **Settings** tab , and then click **Hardware Status** in the left panel.

Hardware status indicators

The following colors indicate the status of the hardware component:

- Green—normal operating state.
- Yellow—at risk, attend to soon.
- Red—critical, attend to immediately.

If an indicator is yellow or red, see [What to do about hardware warning messages? on page 7-5](#).

Remote access

Remote Access provides easy access your files and home computers via a [Web browser](#) while you are away from home. You can download files, upload files, connect to your home computers, and administer Windows Home Server.

If enabled, remote access to network computers is available on the following operating systems:

For assistance in using remote access, see the following in the Windows Home Server Console Help:

- [Remote Access](#)
- [Learn more about Remote Access to shared folders and files](#)
- [Learn more about Remote Access to computers](#)
- [How do I enable JavaScript?](#)
- [Remote Access security](#)

How to map and disconnect a drive letter

Some software may require that you map a drive letter to the server. For example, an anti-virus program may need a mapped drive from the computer running the virus scan in order to scan the server's folders and files.

- [To map a drive letter using Windows XP](#)
- [To map a drive letter using Windows Vista](#)

To map a drive letter using Windows XP

- 1 At the computer, click **Start** and then select **My Documents** (or any other folder).
- 2 In the folder window, click the **Tools** menu, then select **Map Network Drive...**
- 3 Mapping drives usually defaults to an unused letter, such as **Z:**. but you can select another drive letter as follows:
 - a To view a list of available drive letters, click the **Drive** drop-down list.
 - b Click a drive letter to select it.
- 4 To enter the shared folder in the **Folder** box, you have two options:
 - In the **Folder** box, enter the path to the shared folder you want to map.
For example, enter `\\SERVER\Music`
SERVER is the default name. If you changed the name of the HP MediaSmart Server, use that name. **Music** is the shared folder's name.
 - Click the **Browse** button and then use Windows Explorer to locate the shared folder.
The path is usually: Entire Network, Microsoft Windows Network, Workgroup, <Name of Server>.
After you find the folder, click to highlight it, and then click **OK**. The path to the folder will appear in the **Folder** box.
- 5 Select **Reconnect at logon**. Windows will re-establish the mapped drive every time you start Windows.
- 6 Click **Finish**.

To disconnect a mapped drive using Windows XP

- 1 At the computer, click **Start** and then select **My Computer**.
- 2 Right-click the icon for the mapped drive, and then click **Disconnect**.

To map a drive letter using Windows Vista

- 1 At the computer, click **Start** and then **Computer**.
- 2 In the tool bar, click **Map network drive** . The button is a blue rounded rectangle with a network icon and the text "Map network drive".
- 3 Mapping drives usually defaults to an unused letter, such as **Z:**, but you can select another drive letter as follows:
 - a To view a list of available drive letters, click the **Drive** drop-down list.
 - b Click a drive letter to select it.
- 4 To enter the shared folder in the **Folder** box, you have two options:
 - In the **Folder** box, enter the path to the shared folder you want to map.
For example, enter `\\SERVER\Music`
SERVER is the default name. If you changed the name of the HP MediaSmart Server, use that name. **Music** is the shared folder's name.
 - Click the **Browse** button and then use Windows Explorer to locate the shared folder.
The path is usually: Entire Network, Microsoft Windows Network, Workgroup, <Name of Server>.
After you find the folder, click to highlight it, and then click **OK**. The path to the folder will appear in the **Folder** box.
- 5 Select **Reconnect at logon**. Windows will re-establish the mapped drive every time you start Windows.
- 6 Click **Finish**.

To disconnect a mapped drive using Windows Vista

- 1 At the computer, click **Start** and then select **Computer**.
- 2 Under Network Location, right-click the icon for the mapped drive, and then click **Disconnect**.

7 Troubleshooting

Find solutions for difficulties with your HP MediaSmart Server.

If your problem is not listed, consult the HP support web site at <http://www.hp.com/support>.

What's in this chapter

- » HP MediaSmart Server troubleshooting tips: on page 7-1
- » Network connection troubleshooting tips: on page 7-16
- » Webshare troubleshooting tips: on page 7-21
- » Other common troubleshooting tips on page 7-27
- » iTunes troubleshooting tips on page 7-28
- » Microsoft Windows Home Server troubleshooting tips on page 7-29
- » Email troubleshooting tips on page 7-30
- » Media Streaming troubleshooting tips on page 7-32
- » Why can I play and stream DRM content my home computer but I can not stream it from my HP MediaSmart Server? on page 7-34
- » What value does TZO domain names provide beyond the Microsoft Live option:

HP MediaSmart Server troubleshooting tips:

In this section we will cover:

What to do if the server is unresponsive on page 7-2

Power-on indicator is off on page 7-3

Why is the hard drive light-bar purple? on page 7-3

Why is the hard drive light-bar red? on page 7-3

Why is the server's health indicator light red? on page 7-4

Computer Recovery on page 7-5

What to do about hardware warning messages? on page 7-5

[Using Server Recovery and Factory Reset on page 7-7](#)

[Choosing Server Recovery or Factory Reset? on page 7-7](#)

[Recovering or resetting the server on page 7-8](#)

[No server found on page 7-12](#)

[Recovery fails on page 7-12](#)

[File transfer failure on page 7-13](#)

[If you cannot access the Windows Home Server on page 7-14](#)

[Health indicator codes on page 7-14](#)

What to do if the server is unresponsive

If the server appears to be unresponsive, do either of the following:

- [Reset the server](#)
- [Shutdown and restart the server manually](#)

Reset the server

How to reset the server from the Windows Home Server Console.

To reset the server

- 1** If the Windows Home Server Console is open, click the **Close** button in the upper-left corner of the console.
- 2** Double-click the **Windows Home Server** icon  in the task tray.
- 3** On the Windows Home Server Console startup page, click **Options**.
- 4** From the drop-down menu, select **Reset the Windows Home Server Console**.
- 5** Click **OK** to verify that you want to reset the console.

Shutdown and restart the server manually

How to force the server to turn off and restart.

To perform a soft shut down and restart

- 1** On the back of the server, press the **Power** button.
- 2** The health light should begin blinking.

The shutdown process may take up to two minutes to complete.

- 3 After the server is completely off, press the **Power** button to restart.

To force a shutdown and restart

- 1 On the back of the server, hold in the **Power** button for at least 4 seconds to force the server to shutdown.
- 2 After the server is completely off, press the **Power** button to restart.

Power-on indicator is off

The server is not powered on.

To power on the server

- 1 Make sure the power cord is fully plugged into the server and a powered electrical outlet.
- 2 If plugged into a surge protector or power strip, make sure the device is switched on.

Why is the hard drive light-bar purple?

A purple light bar  indicates that a hard drive has been installed, but has not been initialized. It occurs in the following conditions:

- When setting up the server for first time—the light-bar is purple until the set up on the first computer is complete.
- The drive has been removed from total storage—for example, when removing a drive from the drive bay. See [Removing a hard drive from the server on page 6-12](#).
- When adding a new drive, before it has been added to server storage.

For information on initializing a hard drive, see [Server Storage](#) in the Windows Home Server Console Help.

Why is the hard drive light-bar red?

A red light-bar  indicates the following:

- That a hard drive has failed and must be replaced. Additionally, the connected computers show the following:

- The drive was removed from the drive bay before removing it from total storage. See [Removing a hard drive](#) in the Windows Home Server Console Help.
- Red icon  on the task tray.
- Red indicator  on the Windows Home Server Console Network Health tab.

For information on replacing a hard drive, see [Installing an internal SATA drive on page 6-5](#).

Why is the server's health indicator light red?

A red Health indicator light  has the following states:

- Solid red—operating system failure.
- Blinking red—power on test has failed or BIOS failed.

Additionally, on your computers the Windows Home Server icon is grey  on the task tray, which indicates the computer cannot contact Windows Home Server.

To get more information about the failure, the HP MediaSmart Server provides additional error codes.

To get the specific error code causing the failure

- 1 Use a paper clip to press and release the recessed **Status/Recovery** button on the front of the server.

Figure 60: Location of the Status/Recovery button



- 2 The Health indicator displays a code, as described later in this document.

Computer Recovery

To help you recover your computer and data in the event of a hard drive failure, the HP MediaSmart Server includes a PC Restore Disc. Use this disc to restore your computer from the HP MediaSmart Server in the event of the following:

- To restore the system drive.
- When the operating system will not start (boot).
- If you cannot use System Restore to restore the system files.

 **Important:** To ensure that you have the latest version of the PC Restore Disc, contact HP support at <http://www.hp.com/support>.

The Microsoft® Windows® Preinstallation Environment software included with this computer or software may be used for boot, diagnostic, setup, restoration, installation, configuration, test or disaster recovery purposes only. NOTE: THIS SOFTWARE CONTAINS A SECURITY FEATURE THAT WILL CAUSE END USER CUSTOMER'S SYSTEM TO REBOOT WITHOUT PRIOR NOTIFICATION TO THE END USER CUSTOMER AFTER 24 HOURS OF CONTINUOUS USE.

To recover your computer

- 1 Insert the PC Restore Disc into a CD/DVD drive in the computer you want to restore.
- 2 Restart the computer, and boot from the CD.
- 3 Follow the instructions in the Restore Wizard.

For additional information about restoring computer backups, see [Restoring Computer Backups](#) in the Windows Home Server Console Help.

For information about restoring the HP MediaSmart Server, see [Using Server Recovery and Factory Reset on page 7-7](#).

What to do about hardware warning messages?

Warning messages indicate Critical issues or At Risk issues.

- **Critical issues**—address immediately; otherwise, the server may be damaged.
- **At Risk issues**—address as soon as possible.

The HP MediaSmart Server monitors the temperature of the system, microprocessor (CPU), fan speed, and voltages. It displays the following messages:

- [Temperature warnings](#)
- [Fan speed warnings](#)
- [Voltages warnings](#)

Temperature warnings

Temperature warning messages indicate that some server components are too hot.

To lower the temperature of the server

- 1** Check the ventilation surrounding the server:
 - If the server is located in a small unventilated space, move the server to a more ventilated location.
 - Check that the server's front and back panels are not blocked.
 - Check that the location of the server is not too hot. Maximum environmental temperature for operating the server is 35° C (95° F).
- 2** Remove any accumulated dust on the back and front of the server.
- 3** Fold up the flap on any empty system drive trays. For more information, see [Installing an internal SATA drive on page 6-5](#).
- 4** If none of the previous steps return the temperature to normal:
 - a** Write down the temperatures of the CPU and System.
 - b** Turn off the server.
 - c** Contact HP Support at <http://www.hp.com/support>.

Fan speed warnings

The fans cool the disk drives and other electronics. If they are not cooling the server sufficiently, the hard drives and server may be damaged.

For fan speed out of specification

- 1** Write down the speeds of the upper and lower fans.
- 2** Turn off the server.
- 3** Contact HP Support at <http://www.hp.com/support>.

Voltages warnings

The voltages indicate the health of the server's power supply.

For voltages out of specification

- 1 Write down the voltages.
- 2 Turn off the server.
- 3 Contact HP Support at <http://www.hp.com/support>.

Using Server Recovery and Factory Reset

To help recover or reset the server, the HP MediaSmart Server includes a Server Recovery Disc. Using this disc requires a DVD drive.

Server Recovery attempts to recover all data and restore the folders. However, because of the state of the system prior to the recovery, not all data may be able to be recovered or integrated into the folder structure.

Note: For information about recovering a computer, see [Computer Recovery on page 7-5](#).

Choosing Server Recovery or Factory Reset?

How to choose which process to use.



Caution: During **Server Recovery**, all system settings, such as User Accounts and Photo Webshare settings, are lost. You will need to recreate them. During **Factory Reset**, in addition to losing all system settings, the data on all drives is lost.

The following table will help you determine whether to choose Server Recovery or Factory Reset.

Table 6: Choosing Server Recovery or Factory Reset

Server Recovery	Factory Reset
Server operating system has been corrupted.	The partition data on the other storage drives is corrupted.
Disk replacement—partition data on other storage drives are okay.	Giving away or selling the server. See the caution below this table.
If you have lost your password.	

Table 6: Choosing Server Recovery or Factory Reset

Server Recovery

Server's system hard drive has been replaced.

Factory Reset

Caution: Factory Reset does not remove data from the drives; instead it allows the existing data to be overwritten. To insure that your data can never be accessed, use a "shredder" program that overwrites the hard drives with random numbers or meaningless data.

Recovering or resetting the server

Steps for performing a Server Recovery or Factory Reset.

To recover or reset the server

Important: Use the Server Recovery Disc from a computer using a wired connection to the router (or switch). A wireless connection is not recommended. Additionally, if the server is some distance from the computer you are using for Server Recovery or Factory Reset, it may be more convenient to move the server near the computer.

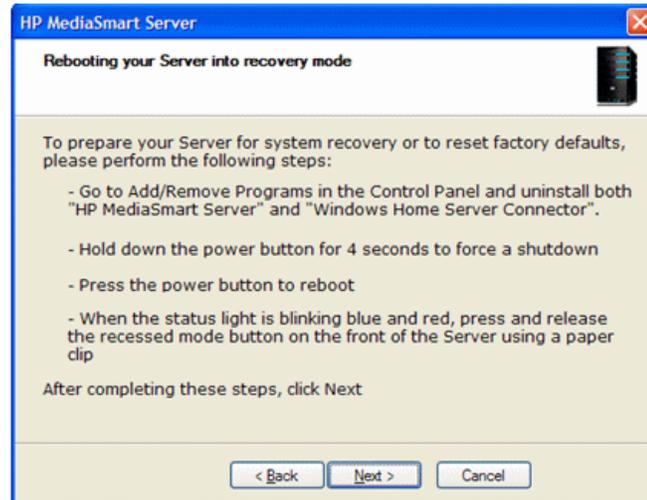
- 1 If the HP MediaSmart Server Control Center is open on your computer, close it before proceeding.
- 2 Insert the Server Recovery Disc into a DVD drive in a computer connected to the network by an Ethernet cable.
The Server Recovery program automatically starts.

Figure 61: Starting Server Recovery



- 3 Click **Next**.
- 4 Uninstall HP MediaSmart Server and Windows Home Server Connector:
 - Click **Start, Control Panel** and select **Add** or **Remove Programs**.
 - Click on **HP MediaSmart Server**, click **Remove**.
 - Click on **Windows Home Server Connector**, click **Remove**.

Figure 62: Server Recovery dialog box



- 5 Prepare the server for recovery or reset:
 - a On the back of the server, hold in the **Power** button for at least 4 seconds to force the server to shutdown.
 - b After the server is completely off, locate the recessed **Status/Recovery** button on the front of the server and prepare to press this button with a paper clip.

Figure 63: Location of the Status/Recovery button



- c On the back of the server, press the **Power** button to restart.

- 9 Click **Finish** on the **Server recovery complete** dialog box.

The HP MediaSmart Server software will automatically be installed on the computer where you performed the Server Recovery or Factory Reset.



Caution: If you did not close the HP MediaSmart Server Control Center, as indicated in [step 1](#), you may see a message asking you to reboot your computer. If you see this message, choose to reboot later. Otherwise, rebooting may leave the server in a state where it cannot be configured, and you will have to repeat the recovery or reset process.



Important: It takes a few minutes for the server to go through the finishing process. Please be patient.

- 10 To install the software on other client computers, see [Installing the Software on Additional Home Computers on page 2-21](#).

No server found

If the recovery program cannot find the server, the most likely causes are:

- The Recovery Mode was not successfully initiated—repeat [step 5](#) if you did not push the Status/Recovery button while the Health indicator lights was blinking red and blue.
- A firewall is blocking the connection—configure the firewall to allow the **Windows Home Server Recovery** application or to allow connections over TCP port 8192 and UDP port 8192. If opening these ports, be sure to close them after the recovery has completed. For more information, see the vendor's documentation.
- The network connection is not working. For troubleshooting network connections, see [Network connection issues on page 7-16](#).

Recovery fails

If the recovery fails, one of the following messages will be displayed:

- the server disks could not be reformatted
- the partition data on the server could not be written
- the primary volume on the server could not be written
- the recovery image could not be loaded

The most likely causes of these messages are:

- A connection failure.
 - **a** Make sure that you are using a wired connection to the server from the computer you are using to do the recovery.
 - **b** Check network connections—see [Network connection issues on page 7-16](#).
 - **c** Repeat the recovery or reset.
- Server Recovery Disc is damaged—obtain a new disc from HP Support at <http://www.hp.com/support>.

File transfer failure

What to do about a failure when transferring photos or video clips to the HP MediaSmart Server from your computer.

To correct a file transfer failure

- 1** Compare files that you were transferring with the files on the shared folder and try transferring the missing files again.
- 2** If the transfer fails again, check that you can access the Windows Home Server. See [Opening the Windows Home Server Console on page 2-1](#).
- 3** If you cannot access the Windows Home Server, check the network connections:
 - Make sure that all the cable connections are correctly plugged in.
 - Make sure the HP MediaSmart Server has power and the Network indicator light is blue . See [Network connection issues on page 7-16](#).
 - Make sure the router (or switch) has power.
 - Restart the router or switch (or unplug and plug it back in).
 - Restart all the devices on the network, including the computers and the server.
 - Make sure your server and computers are on the same [logical](#) network (subnet). See [What is an advanced network configuration?](#) in the Windows Home Server Console Help.
- 4** If the computer that you transferring files from is connected wirelessly to the network, try connecting it with an ethernet cable.
- 5** Check the Event Viewer to see if the System logs loss shows a disconnect:

- In Windows XP, click **Start, Control Panel, Performance and Maintenance, Administrative Tools**, and then select **Event Viewer**.
- In Windows Vista, click **Start, Control Panel, System and Maintenance, Administrative Tools**, and then select **Event Viewer**.

If you cannot access the Windows Home Server

Try the suggested resolutions:

- Make sure that all the cable connections are correctly plugged in.
- Make sure the HP MediaSmart Server has power and the Network indicator light is blue.
- Make sure the router (or switch) has power.
- Restart the router or switch.
- Restart all the devices on the network, including the computers and the server.
- Make sure your server and computers are on the same Network.

Health indicator codes

The Tables below are a breakdown of the Health indicator displays. To see this code, using a paper clip, press and release the recessed **Status/Recovery** button on the front of the server.

Figure 64: Location of the Status/Recovery button



Table 7: Health indicator codes

Code	Description	Action
Codes when the indicator starts as solid red		
Solid red—no code	Operating system or application error.	See Windows Home Server Console for error condition.
1 blue, 2 red	System drive failed to boot.	If the light-bar for the system drive (the lowest light-bar) is also red, you need to replace the system hard drive. See Replacing the system drive on page 6-16 .
1 blue, 3 red	Operating system USB boot failed.	Check that lowest USB port on back of server has boot source.
1 blue, 4 red	Recovery mode failed.	Contact HP Support at http://www.hp.com/support .
1 blue, 5 red	Multiple boot failure.	Contact HP Support at http://www.hp.com/support .
1 blue, 6 red	Service code.	Do not hold state button longer than 3 seconds. Shut down and repeat.

Table 8: Health indicator codes

Code	Description	Action
Codes when the indicator starts as blinking red		
2 blue, 1 red	BIOS corrupted.	Repeat power-on to validate. If repeats Contact HP Support at http://www.hp.com/support .
2 blue, 2 red	Memory failure.	Contact HP Support at http://www.hp.com/support .
2 blue, 3 red	BIOS recovery source not present.	Contact HP Support at http://www.hp.com/support .

Network connection troubleshooting tips:

In this section we will cover:

[Network connection issues on page 7-16](#)

[No available port on network router on page 7-20](#)

[Why did URL not work? on page 7-20](#)

[What do firewall blocking messages mean? on page 7-21](#)

Network connection issues

For issues connecting the server to the network, check the following:

- [Why is the Network connection light off](#)
- [The firewall is blocking the connection](#)
- [Check that the router is correctly configured for DHCP](#)
- [Check the network is set up properly for TCP/IP](#)
- [Check the network NetBIOS properties](#)

The network connection light alternates between blue and off

The server is intermittently connected to the network.

Check the cable connection between the server and the router or switch.

Why is the Network connection light off

To determine why the network connection light is off

- 1** Make sure that all the cable connections are correctly plugged in.
- 2** Make sure the router or switch has power.
- 3** Restart the router or switch (or unplug and plug it back in).
- 4** If you are using your own Ethernet cable, try using the Ethernet cable that came with the HP MediaSmart Server.

The network connection light alternates between blue and off

The server is intermittently connected to the network.

Check the cable connection between the server and the router (or switch).

The firewall is blocking the connection

If using a firewall program, configure it to allow any HP MediaSmart or Windows Home Server applications.

For instructions to unblock, see the software vendor's documentation.

For information about firewall blocking alerts, see [What do firewall blocking messages mean? on page 7-21](#).

Check that the router is correctly configured for DHCP

The HP MediaSmart Server comes automatically set to use a [DHCP](#) server to dynamically assign IP addresses. Most routers come with a built-in DHCP server.

Check that the router has the DHCP server correctly enabled. Refer to the documentation that came with the router for instructions on proper DHCP server configuration.

For information about configuring a router for remote access, see [Configuring your broadband router](#) in the Windows Home Server Console Help.

Windows Vista: Check that Network Discovery is turned on

To ensure that Network Discovery is turned on

- 1** Click the **Start** menu, and then select **Control Panel**.
- 2** In the Control Panel, click **View network status and tasks**.

- 3 In the Network and Sharing Center, make sure that Network discovery is on.
- 4 If Network discovery is off, click , then select **Turn on network discovery** and **Apply**.

Check the network is set up properly for TCP/IP

Check that each computer on the network has TCP/IP listed and selected for the network properties with these options selected:

- Obtain IP address automatically
- Obtain **DNS** server address automatically

Windows XP: To ensure your network is set up properly for TCP/IP

- 1 Click **Start**, and then select **Control Panel**.
- 2 Double-click **Network and Internet Connections**.
- 3 Double-click **Network Connections**.
- 4 If the computer is connected via Ethernet cable to the network, right-click **Local Area Connection (LAN)**.
- 5 If the computer is using a wireless connection, right-click **Wireless Network Connection**.
- 6 Click **Properties**. In the dialog box that opens, check to ensure that **TCP/IP** is listed and selected.
 - If TCP/IP is not listed, click **Install, Protocol**, and then **Add**. In the dialog box that appears, select **Internet Protocol (TCP/IP)**.
 - If TCP/IP is listed and checked, highlight it and click **Properties**, then select **Obtain IP address automatically** and **Obtain DNS server address automatically**.
- 7 All computers should be set identically.

Windows Vista: To ensure your network is set up properly for TCP/IP

- 1 Click **Start**, and then select **Control Panel**.
- 2 Click **View network status and tasks** under **Network and Internet**.

- 3 In the left pane, click **Manage Network Connections**.
- 4 If the computer is connected via Ethernet cable to the network, right-click **Local Area Connection (LAN)**.
- 5 If the computer is using a wireless connection, right-click **Wireless Network Connection**.
- 6 Click **Properties**. In the dialog box that opens, check to ensure that Internet Protocol Version 4 **TCP/IPv4** is listed and selected.
 - If TCP/IP is not listed, click **Install, Protocol**, and then **Add**. In the dialog box that appears, select **Internet Protocol (TCP/IPv4)**.
 - If TCP/IP is listed and checked, highlight it and click **Properties**, then select **Obtain IP address automatically** and **Obtain DNS server address automatically**.
- 7 All computers should be set identically.

Check the network NetBIOS properties

Check that each computer on the network has TCP/IP advanced network properties set to Enable NetBIOS over TCP/IP. All computers should be set identically.

Windows XP: To ensure your network has the correct NetBIOS set up

- 1 Click **Start**, and then select **Control Panel**.
- 2 Double-click **Network and Internet connections**.
- 3 Double-click **Network Connections**.
- 4 Double-click your default network connection.
 - **Local Area Connection** for wired networks.
 - **Wireless** for wireless connections.
- 5 Click **Properties**.
- 6 Highlight **Internet Protocol (TCP/IP)**.
- 7 Click **Properties**.
- 8 Click **Advanced**.
- 9 Click the **WINS** tab.

WINS refers to Windows Internet Naming Service, which converts NetBIOS network names to IP addresses.

- 10 NetBIOS settings are found at the bottom of the dialog box. Make sure that the **NetBIOS** setting is *not* set to **Disable NetBIOS over TCP/IP**.

Windows Vista: To ensure your network has the correct NetBIOS set up

- 1 Click **Start**, and then select **Control Panel**.
- 2 Click **View network status and tasks** under **Network and Internet**.
- 3 In the left pane, click **Manage Network Connections**.
- 4 Right-click your default network connection:
 - **Local Area Connection (LAN)** for wired networks.
 - **Wireless Network Connection** for wireless connections.
- 5 Highlight **Internet Protocol Version 4 (TCP/IP)**.
- 6 Click **Properties**.
- 7 Click **Advanced**.
- 8 Click the **WINS** tab.

WINS refers to Windows Internet Naming Service, which converts NetBIOS network names to IP addresses.

- 9 NetBIOS settings are found at the bottom of the dialog box. Make sure that the **NetBIOS** setting is *not* set to **Disable NetBIOS over TCP/IP**.

No available port on network router

Take the following steps:

- 1 To add more Ethernet ports, connect an Ethernet switch to the router. Refer to the switch documentation for instructions on how it connects to the router.
- 2 Connect one end of the Ethernet cable that came with the server to the switch and the other end to the HP MediaSmart Server.

Why did URL not work?

DNS has not updated, wait about 10 minutes for DNS to update.

What do firewall blocking messages mean?

Firewalls block certain types of communications between network devices. This helps protect your data from hackers, viruses, spyware, and Trojan horse software. The computer might have one or more firewall programs installed. For example, if the latest version of the Microsoft Windows XP operating system is installed, the computer may be using the Windows XP Firewall.

The HP MediaSmart Server comes with software applications that must communicate over the network. Sometimes these programs are blocked by a firewall. When this happens, security alerts pop up on the computer screen.

Security alerts usually have a list of possible options. The particular messages or alerts displayed depend on the vendor.

For example, the alert might offer the following options:

- **Keep Blocking**
- **Unblock**
- **Defer the choice and be reminded later**

If a security alert dialog box for an HP MediaSmart Server application or the Windows Home Server is displayed by the firewall, click **Unblock** or **Allow** to permit the application to execute. It is safe to unblock the communications because no connection or communication with the Internet is enabled, only those between the server and its software applications. After unblocking an application, if any software is reinstalled, moved to a new disk location, or if the application is deleted from the exception list using the Windows XP Security Center control panel, communications between that software and the server may once again be blocked by the firewall.

Configure your firewall to allow any HP MediaSmart or Windows Home Server applications.

Webshare troubleshooting tips:

In this section we will cover:

[Why can't I share my album? on page 7-22](#)

[How to add photos from your photos shared folder to your Webshare. on page 7-23](#)

[Unable to upload images. on page 7-23](#)

How do you make Webshare work in the home? on page 7-23

Why am I getting a certificate error? on page 7-24

Upload Photos requires ActiveX control to be loaded? on page 7-24

Clicking on photo Webshare on CC Does Not Open. on page 7-24

Webshare administrator cannot delete Visitor account. on page 7-24

Visitor can create a photo album and add pictures but the album doesn't display. on page 7-24

Visitor can create a photo album and add pictures but the album doesn't display the pictures. on page 7-24

Visitor cannot download pictures and sees a message telling them that they cannot download pictures. on page 7-25

Visitor cannot add pictures and sees a message telling them that they can't add pictures. on page 7-25

Visitor has created an album (or albums) and wants to delete the album but cannot. on page 7-25

Visitor has changed their password, now they can't log into Webshare. on page 7-25

Selecting URL from address field in web browser loads "page that opens cannot be closed without closing the entire application". on page 7-26

Webshare user is unable to log out of Webshare. on page 7-26

Trouble uploading large files to Webshare. on page 7-26

Clicking on Photo Webshare on CC causes command error. on page 7-26

How to find the server software and firmware information. on page 7-27

The first backup is taking a long time. on page 7-27

Browser cannot display the page when accessing through URL. on page 7-26

Why can't I share my album?

Server users can create albums, but not share them.

How to add photos from your photos shared folder to your Webshare.

Cannot access/browse server shares from the photo selector.

- 1** Use the photo loader, on the left hand side to browse Network Neighborhood (XP PCs) or Network (Vista PCs).
- 2** If your server shared folder does not show up in this list, then use the desktop shortcut to access shared folders on the server, right click on the shared folder you wish to use, and click on "map network drive".
- 3** The next time you use the photo loader, browser to my computer and select the drive previously mapped.

Unable to upload images.

- Installs may be blocked by browser security.
Click to enable download/install at top of browser.
- Just inserted the drive while Upload photo was loading.
Reinsert the thumb drive.
- Pop up blocker blocked install.
Disable pop up blocker, or enable pop ups for the URL.
- ActiveX is disabled.
Enable ActiveX.
- Not using Internet Explorer.
Use Internet Explorer.

How do you make Webshare work in the home?

Once remote access is setup and you have a custom domain name, frequently urls that look something like `https://{your domain name}/Webshare/` will be used. For many internet service providers, this can cause problems and occasionally even redirect you to your home network router or modem.

To work around this:

- 1 Replace the {your domain name} section of the URL address with the local name of your server (the default is "hpserver").
- 2 In addition to removing common network issues, this will also perform faster.

Why am I getting a certificate error?

If you access your HP MediaSmart server from a computer that is not being backed up by the server, you will get a warning about the server's security certificate whenever you access any of its https:// URLs. The reason is that the server issues its own security certificate, and since it is not an official Certificate Authority, your web browser issues the warning or error message.

You may ignore the warning or error message and continue to the HP MediaSmart server's web pages.

Upload Photos requires ActiveX control to be loaded?

Alternately, you can use non-ActiveX. **Add photos** to add photos to your album.

Clicking on photo Webshare on CC Does Not Open.

No Default Browser. Select a default browser or reboot PC.

Webshare administrator cannot delete Visitor account.

Added visitor as User in WHS Console. Add the visitor in Webshare instead on in the Admin Console.

Visitor can create a photo album and add pictures but the album doesn't display.

Visitor does not have auto-approve rights.

This is expected behavior for a Webshare Visitor who has permission to add photos. The photos must be approved by a Webshare administrator before they will display in the photo album.

Visitor can create a photo album and add pictures but the album doesn't display the pictures.

Visitor does not have auto-approve rights.

This is expected behavior for a Webshare Visitor who has permission to add photos. The photos must be approved by a Webshare administrator before they will display in the photo album.

Visitor cannot download pictures and sees a message telling them that they cannot download pictures.

Visitor does not have download rights.

Downloading permissions are set by the Webshare administrator.

Visitor cannot add pictures and sees a message telling them that they can't add pictures.

Visitor does not have add rights.

Permission to add pictures to photo albums are set by the Webshare administrator.

Visitor has created an album (or albums) and wants to delete the album but cannot.

Visitors do not have delete album rights.

Visitor should delete the photos from the file. The Webshare administrator has permissions to delete photo albums.

Visitor has changed their password, now they can't log into Webshare.

Visitor has changed their password in Webshare to nothing (using "Change Password" link). Now they can't log into Webshare. They are getting a message about their password being incorrect users can create albums, but not share them.

The Webshare admin has edited the Visitor's password.

There is an option on the Webshare login page to obtain a new password.

Selecting URL from address field in web browser loads “page that opens cannot be closed without closing the entire application”.

Webshare Visitor or Administrator is selecting URL from address field in web browser and after login the page that opens cannot be closed without closing the entire application.

Browser remembers previous credentials.

Type IP into browser address field, (e.g. www.192.168.1.103) and save the login page as a Favorite.

Webshare user is unable to log out of Webshare.

Browser remembers previous credentials.

There is no logout screen for Webshare. Closing the browser will log out the user if credentials not saved.

Trouble uploading large files to Webshare.

May keep timing out.

Give directions for configuring FTP functionality of imbedded 2003 Server

Clicking on Photo Webshare on CC causes command error.

Click **OK** on error and attempt to open Photo Webshare again.

Browser cannot display the page when accessing through URL.

- UPnP disabled.
Enable UPnP.
- Web sites are turned off.
Turn Web sites on.
- Multiple DHCP devices are on the network.
Verify that there is only one DHCP server on the network - VOIP devices often are DHCP servers.

- Accessing the server through the URL while behind the same router has known issues.
Access the server through the local name (Photo Webshare in CC) and use the URL when outside the network.
- Upnp not supported by router.
Enable port forwarding for ports 80, 443, and 4125 to the server's IP address.

Other common troubleshooting tips

In this section we will cover:

[How to find the server software and firmware information. on page 7-27](#)

[The first backup is taking a long time. on page 7-27](#)

[What are optimum data throughput speeds for different network interfaces? on page 7-28](#)

[What is the ideal minimum time to transfer a 1GB file for different network interfaces? on page 7-28](#)

How to find the server software and firmware information.

The Hardware Status page contains information about your HP MediaSmart Server, such as the software and BIOS version.

- 1** At the computer, double-click the Windows Home Server icon in the task tray.
- 2** Log on to the Windows Home Server.
- 3** On the Windows Home Server Console, click the **Settings** tab and then click **Hardware Status** in the left panel.

The first backup is taking a long time.

Your initial PC backup could take several hours, depending on how much data you have on your computer. Subsequent backups will go much faster since only the data that has changed is copied to the server.

What are optimum data throughput speeds for different network interfaces?

Depending on the network interface your computer uses, you will experience different rates of data transfer to your server. Network Interfaces are described in terms of their ideal maximum speed, but many factors can affect the actual data transfer speeds you will experience. For example, your optimal wireless transfer speed will be reduced depending on the type of security and encryption you have enabled on your wireless network and by the amount of other work your computer and server are performing at the same time.

What are optimum data throughput speeds for different network interfaces?

- Gigabit Ethernet—1000mbps/125MBs.
- Fast Ethernet—100mbps/12.5MBs.
- Wireless N—600mbps/75MBs.
- Wireless G—54mbps/6.75MBs.
- Wireless A—54mbps/6.75MBs.
- Wireless B—11mbps/1.375MBs.

What is the ideal minimum time to transfer a 1GB file for different network interfaces?

- Gigabit Ethernet—8s.
- Fast Ethernet—1min 20s.
- Wireless N—13.3s.
- Wireless G—2min 28s.
- Wireless A—2min 28s.
- Wireless B—12min 7s.

iTunes troubleshooting tips

In this section we will cover:

[iTunes aggregator does not appear to be working. on page 7-29](#)

[Song selection from the server is not updating with new additions. on page 7-29](#)

[Podcasts not showing in playlist. on page 7-29](#)

iTunes aggregator does not appear to be working.

- No music in iTunes library.
Add music to library.
Check C:\Program Files\Hewlett-Packard\Media Aggregator.txt.
- Accounts may not match or guest account disabled.
Fix account synchronization.
Enable guest account.

Song selection from the server is not updating with new additions.

Server has not refreshed yet.

- Wait for the Server to synchronize.
- Click on eject button on the Server bar.

Podcasts not showing in playlist.

Podcasts copied over will not show in playlist for server.

Microsoft Windows Home Server troubleshooting tips

In this section we will cover:

[Server low on space. on page 7-29](#)

[Cannot connect to server shares. on page 7-30](#)

Server low on space.

Clean out unused files.

Earmark backups for deletion and 'clean now', delete unused docs from Shared Folders.

Cannot connect to server shares.

- A duplicate device exists on the network.
Verify that there is no device on the network named "server".
- User names and passwords do not match.
Create a user on the server whose name and password match the user on the PC.

Email troubleshooting tips

In this section we will cover:

[Why do I need email address for visitors and Home Server users? on page 7-30](#)

[Why do I need to set-up Webshare notifications? on page 7-31](#)

[How do I find what my SMTP server is? on page 7-31](#)

[Do I need to do an SMTP email configuration? on page 7-31](#)

[If you have chosen to use your own email provider to send Photo Webshare announcements and these email announcements have not been received by the people on your lists. on page 7-31](#)

[Emailed link not opening. on page 7-31](#)

[Email is not received. on page 7-32](#)

Why do I need email address for visitors and Home Server users?

Webshare has a notification mechanism that uses email to share photos with others. In order for Webshare to send email and notify other users or visitors, you must configure and enable Webshare email notification in the administrative console. TZO email is strongly recommended whenever TZO domain names are being used, but SMTP email can also be used for email notifications.

Why do I need to set-up Webshare notifications?

Webshare has a feature to send email notifications whenever items are shared with others, and the email addresses of these users is required. It is recommended that visitor accounts always use the same email as the user name, as opposed to having a different user name than the email address of a visitor (which can add confusion for visitors). Email for Home Server users must be set up separately within Webshare, as there is no other location that uses the email address of Home Server users.

How do I find what my SMTP server is?

Contact your internet service provider to find your SMTP email settings. Many service providers provide these settings as part of their email setup instructions for users. However, occasionally some ISPs do not provide SMTP email services. For these situations, some free email accounts also provide SMTP access.

Do I need to do an SMTP email configuration?

If you are not using TZO domain services, then SMTP is required to use any Webshare email feature. TZO email and domain services are a package, and for most situations it is recommended that you use both together or neither.

If you have chosen to use your own email provider to send Photo Webshare announcements and these email announcements have not been received by the people on your lists.

- Ensure that SMTP server information is correct.
Contact your ISP to insure the information you entered is correct.
- Check that you enabled email notification for the group.
Check that the persons who have not received the email are in the correct group.

Emailed link not opening.

Web site connectivity not on, turn web site connectivity on

Email is not received.

Verify that the correct email address was entered.

Media Streaming troubleshooting tips

In this section we will cover:

[Why my files do not show up on DMA? on page 7-32](#)

[File doesn't appear. on page 7-33](#)

[Server not showing up. on page 7-34](#)

[Media Files \(audio/Video\) of supported format aren't seen by device. on page 7-34](#)

Why my files do not show up on DMA?

Digital Media Adapters (DMA, or Digital Media Receivers - DMR) use the Universal Plug 'n Play (UPnP) protocol to automatically discover Digital Media Servers (DMS). The HP MediaSmart Server uses Windows Media Connect 2.0 (WMC) as its DMS. In order for a DMA to discover the HP MediaSmart Server and access its content, WMC must be enabled. WMC defaults to being disabled; it is automatically enabled for all DMAs when the server administrator selects one or more of the three media shared folders (Music, Photos and Videos) for media sharing. On your DMA, you should then see the HP MediaSmart Server listed as:

<YourServerName>: 1 : Windows Media Connect

Note: Some DMAs aggregate the content from all DMSs into a single view; in such a case you may not be able to identify each DMS individually. Further troubleshooting steps form DMA follow:

Once WMC has been enabled to share a shared folder, it continually monitors the folder for new files.

- 1** Open the **Control Center** on one of your home PCs.
- 2** Select the Tools tab at the bottom.
- 3** On the **Tools** tab, click on the **Home Server Console (HSC)** icon.
- 4** On the **HSC** password screen, type in the Administrator's password.
- 5** When the HSC comes up, click on the **Settings** button near the top right.
- 6** In the left pane of the Settings panel, select **Media Sharing**.

- 7 In the right pane of the Settings panel, you must now select at least one of the shared folders for sharing by selecting the On radio button.
- 8 Click **Apply**.
This will automatically start WMC, which will then share all of the files in the selected shared folders.

If your DMA does not display WMC from the HP MediaSmart Server, or none of your files are found by the DMA.

- 1 Check that WMC is enabled (use the above steps to get to the Media Sharing settings, and verify that at least one of the shared folders is On).
- 2 Check that the HP MediaSmart Server and DMA are both connected to the same home network (a router or firewall between them could interfere with the discovery and content sharing protocols).
- 3 Restart the DMA.
- 4 Restart the HP Media Smart server.

If some of your files (e.g., files newly copied to the server) are not found by the DMA.

- 1 Check that the files were copied to the correct location. Only the Music, Photos and Videos shared folders may be enabled for media sharing. Note that if one of these folders is enabled for media sharing; then all folders below that are also enabled for media sharing.
- 2 Re-enable the shared folder for media sharing.
 - Go to the Media Sharing Settings panel (see the instructions above for how to get here).
 - Turn sharing Off for the shared folder with the missing files and select **Apply**.
 - Turn sharing back On for the shared folder and select **Apply**.
- 3 Restart the DMA.
- 4 Restart the HP MediaSmart Server.

File doesn't appear.

File type may not be supported, may need to convert file to supported type.

Server not showing up.

Turn on Media-Sharing.

Media Files (audio/Video) of supported format aren't seen by device.

Possible naming convention issues.

Double check names on server, make sure they start with a word, and not a number or symbol.

Why can I play and stream DRM content my home computer but I can not stream it from my HP MediaSmart Server?

The HP MediaSmart Server includes a media server for streaming iTunes music to PCs running iTunes through the house. See the section in the User's Guide on iTunes.

For Windows Media DRM (WMDRM) content (protected .wma music and .wmv videos), the HP MediaSmart server does not support streaming of this content to DMAs at this time. Playing (and streaming) of WMDRM protected content requires that the device that is playing the content have a license for the content. When you downloaded the content to your PC, you also received a license to play the content on that PC. If you copy the files to the HP MediaSmart Server, you cannot copy or transfer the license to the server. The server must obtain its own license, and we do not provide for this feature in the current product.

What you can do however, is store your protected content on the HP MediaSmart Server. This allows all of the PCs in the home that have a license for the content to play it from the HP MediaSmart Server by accessing it through the network. For example, to add all of the music on your Server to the Windows Media Player library on your PC:

Open Windows Media Player on your PC.

Select File -> Add to Media Library -> Add Folder

In the Add Folder dialog, type \\<YourServerName\Music and click OK.

This will add all of the music files in your Music shared folder on the HP MediaSmart Server to your Windows Media Player library. You will then be able to play all of the protected content for which this PC has a license.

What value does TZO domain names provide beyond the Microsoft Live option:

- TZO provides automatic email notifications to Webshare visitors that new photos are available without having to set up an SMTP email server.
- Some broadband ISPs block Port 80 which is required for easy remote access. The TZO service allows you to obtain easy remote access even if Port 80 is blocked.
- With the Microsoft domain name, if you don't already have a Microsoft Live account, you'll have to set that up.
- With TZO custom domain name option, you can get your own domain name (e.g., smithfamily.com).
- TZO customer support and troubleshooting.

8 Product information

What's in this chapter

- » [Product specifications](#)
- » [Regulatory statements](#)
- » [WM-DRM 10 licensed technology](#)
- » [Limited warranty and technical support statement](#)

Product specifications

The product specifications contain information about the HP MediaSmart Server, its requirements, and standards.

Minimum client-computer requirements

One or more computers that meet or exceed these requirements:

Computer requirements

Any computer capable of running the supported operating systems listed in the following table.

Operating systems

Table 9: Supported operating systems

Windows Vista ^a	Windows XP ^b
Windows Vista Home Basic	Windows XP Home with Service Pack 2 (SP2)
Windows Vista Home N (European Union only)	Windows XP Professional with SP2
Windows Vista Home Premium	Windows XP Media Center Edition 2005 with SP2 and Rollup 2
Windows Vista Business	Windows XP Media Center Edition 2005 with SP2
Windows Vista Business N (European Union only)	Windows XP Media Center Edition 2004 with SP2

Table 9: Supported operating systems

Windows Vista^a	Windows XP^b
Windows Vista Enterprise	Windows XP Tablet Edition with SP2
Windows Vista Ultimate	

- Remote access is not supported by Windows Vista Home (all versions); the Business, Enterprise, and Ultimate versions of Windows Vista support remote access. For more information, see [Why can't I connect to some computers?](#) in the Windows Home Server Console Help.
- Windows XP Professional and Windows XP Media Center Editions support remote access. Windows XP Home does not support remote access.

Note: HP MediaSmart Server does not support client computers running 64-bit operating systems.

Client-computer hard drive

25 MB free for software installation on [client computers](#)

Other client-computer requirements

CD-ROM drive for client-computer installation

DVD-ROM drive for Server Recovery

Internal drive storage

500 GB (EX470)

1 TB (EX475)

Drive expendability

3 Serial ATA expansion bays (EX470)

2 Serial ATA expansion bays (EX475)

4 USB 2.0 ports

1 eSATA port

Maximum storage space: unlimited

Dimensions

Width: 14cm (5.5")

Height: 25cm (9.8")

Depth: 23cm (9.2")

Weight

EX470: 5.17 kg (11.4 lb.)
EX475: 5.76 kg (12.7 lb.)

Server specifications

Network

Default network ID

“HPSERVER”

Network requirements

Table 10: Network Requirements

Requirement	Recommended
Server connection	100 Mbps to 1000 Mbps (Gigabit Ethernet) wired connection.
Home computers	One or more computers running a supported operating system with a wired or wireless network connection.
Internet Connection	Broadband connection, such as DSL or cable, required for remote access functionality.
Router	An external Internet broadband router with 100 Mbps (or faster) Ethernet connection to the server for remote access functionality and wired or wireless connections to the computers on the network. Additionally, your router must have DHCP enabled to provide automatic IP address to the server.

Connector types

Ethernet: RJ45
eSATA: I-Type

Maximum transmission distances

Ethernet: 100 meters
eSATA: 2 meters
USB: 5 meters

Browser

Internet Explorer 6.0 or greater
Netscape 8.0 or greater
Firefox 2.0 or greater.

Environmental

Temperature

Operating: 5° to 35° C (41° to 95° F)
Nonoperating: -30° to 65° C (-22° to 149° F)

Humidity (no condensation allowed)

Operating: 15% to 90% RH
Nonoperating: 5% to 95% RH

Shock

Nonoperating: 85 G

Vibration

Operating: 0.2 Grms
Nonoperating: 2.0 Grms

Electrical and power

Electrical ratings

AC input 100–127V ~5.0A max or 200–240V ~3.0A max, 50/60Hz

Power consumption

EX470 (single drive): ~52 W idle state, ~60 W full load
EX475 (two drives): ~60W idle state, ~73 W full load
With three drives: ~68W idle state, ~86 W full load
With four drives: ~76W idle state, ~99 W full load

Safety

IEC 950-compliant
USA – UL, CDRH Radiation Control Standards 21
CFR 1010 and 1020-1 0.50
Canada – CSA or CUL
Europe – LVD 73/23/EEC 93/68/EC
IEC 60950 plus amendments

EN60825 plus amendments

Regulatory statements

The HP MediaSmart Server complies to the following:

- [Federal Communications Commission Notice](#)
- [Modifications](#)
- [Cables](#)
- [Declaration of Conformity for Products Marked with the FCC Logo \(United States only\)](#)
- [Canadian Notice](#)
- [Avis Canadien](#)
- [European Union Regulatory Notice](#)
- [Japanese Notice](#)

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency

energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hewlett-Packard Company may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods in order to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity for Products Marked with the FCC Logo (United States only)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1** This device may not cause harmful interference, and
- 2** This device must accept any interference received, including interference that may cause undesired operation.

For questions regarding the product, contact:

Hewlett-Packard Company
P. O. Box 692000, Mail Stop 530113
Houston, Texas 77269-2000

Or, call 1-800-HP-INVENT (1-800-474-6836).

For questions regarding this FCC declaration, contact:

Hewlett-Packard Company
P. O. Box 692000, Mail Stop 510101
Houston, Texas 77269-2000

Or, call (281) 514-3333.

To identify this product, refer to the part, series, or model number found on the product.

Canadian Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Union Regulatory Notice

This product complies with the following EU Directives:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity issued by Hewlett-Packard for this product or product family.

This compliance is indicated by the following conformity marking placed on the product:



Hewlett-Packard GmbH, HQ-TRE, Herrenberger Strasse 140, 71034 Boeblingen, Germany

Japanese Notice

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取扱説明書に従って正しい取り扱いをして下さい。

WM-DRM 10 licensed technology

Content providers are using the [digital rights management](#) technology for Windows Media contained in this device (“WM-DRM”) to protect the

integrity of their content ("Secure Content") so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM Software to play Secure Content ("WM-DRM Software"). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content ("Secure Content Owners") may request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software's ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from a PC. Microsoft may, in conjunction with such license, also download revocations lists onto your device on behalf of Secure Content Owners.

Limited warranty and technical support statement

HP MediaSmart Server Limited Warranty

Duration

Hardware: 1 year Limited Warranty

Software: 1 year Technical Support

General Terms

This HP Hardware Limited Warranty gives you, the customer, express limited warranty rights from HP, the manufacturer. Please refer to HP's Web site for an extensive description of your limited warranty entitlements. In addition, you may also have other legal rights under applicable local law or special written agreement with HP.

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9

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StAX 1.0.1

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Firefly Media Server SVN-1615 (previously known as mt-daapd)

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Glossary

This glossary defines terms that are used in the HP MediaSmart Server.

A

all-in-one-gateway A device that provides multiple network features such as a router, modem, local area network (LAN) switch, firewall, and/or a wireless access point. Also see [LAN](#).

anti-virus software Software that checks a hard drive for viruses (harmful computer code) that may infect a computer.

B

BIOS Basic Input/Output Services—the firmware code run by the HP MediaSmart Server when first powered on. The BIOS prepares the server for operation and allows the server software to load, execute, and assume control of the server. This process is also known as booting up.

Browser window A browser window is used to display web pages either on a web site or stored locally such as the HP MediaSmart Server's User's Guide.

C

client computers A client computer is a computer that accesses the HP MediaSmart Server by the home network. This term also applies to computers using remote access to the server.

D

DHCP Dynamic Host Configuration Protocol—the protocol used to assign IP addresses to network devices, such as computers. DHCP automatically assigns IP addresses to network devices; the assigned address can change over time. Also see [IP address](#), [Protocol](#), and [Static IP Address](#).

digital rights management Technology built into digital media, such as music and movies, that allows companies in charge of their copyrights to decide how and where media can be used.

DMR Digital Media Receiver (DMR), Digital Media Adapter (DMA), Digital Media Player (DMP)—a consumer electronic device that communicates with

the HP MediaSmart Server and brings digital media streams—such as photos, music, or video—to your entertainment center.

DNS Domain Name System—a server that associates network names with IP addresses. Also see [IP address](#).

E

No terms begin with the letter E.

F

folder duplication Folder duplication duplicates folders and files across multiple hard drives. If you enable folder duplication and one hard drive fails, you will not lose any files stored in a shared folder. Any folder that has folder duplication enabled uses twice the amount of server storage.

G

No terms begin with the letter G.

H

HTTPS A secure HTTP connection. HTTP (HyperText Transfer Protocol) is the format used to transfer and send web page information across networks, on the Internet, and in help systems. HTTPS is an HTTP connection over encrypted Secure Sockets Layer (SSL) transport mechanism. Also see [Protocol](#).

I

IP address An IP (Internet Protocol) address is a number that uniquely identifies devices, such as computers, on a network.

J

No terms begin with the letter J.

K

No terms begin with the letter K.

L

LAN Local area network—a small number of computers that are connected together in a small area, usually in the same building.

logical A device, such as a [partition](#) named by the logic of a software system, regardless of its physical relationship to the system. For example, a

computer with a single [physical hard disk](#) that contains two logical drives, C: and D:. Another example is an HP Media Vault with two hard drives that contains a single logical volume spanning both drives.

M

Map Assigning a drive letter to the connection on a computer to access a shared folder on the server.

Mbps Megabits per second.

Media streaming Media streaming sends media—music, photos and video files—from the HP MediaSmart Server to other devices that can play the media. The HP MediaSmart Server includes functionality that allows media to stream to a Digital Media Adapter (DMA). Also see [DMR](#).

N

NAT Network Address Translation—Broadband routers use NAT technology to allow network components to share Internet access over a single IP address. Additionally, NAT acts like a firewall because the computers and other devices—including the HP MediaSmart Server—on the network are given IP address that are non-routable (non-internet addresses). This masks the real IP addresses of your network components and keeps them from being seen outside the home. Also see [IP address](#).

O

No terms begin with the letter O.

P

partition A logical division of a physical hard disk. Partition data refers to the information contained within the divisions on the drive. For example, some computers are formatted with a C: and D: drive, both of which use the same physical hard drive.

password hint A password hint helps you remember your password. The password hint can be seen by anybody who clicks the link to display it.

physical hard disk The actual hard disk (hard drive) located in a device that stores files and data.

port 80 Usually, an HTTP client, such as a Web browser, initiates contact to a server, such as the HP MediaSmart Server, through port 80. After

contacting the server, the server sends back a response, such as a Photo Webshare page.

Privilege level A level assigned by the user that decides what access levels are available to other users.

Protocol The standard(s) of how computers communicate data with each other.

Q

No terms begin with the letter Q.

R

router A device connected to your computer that joins two or more networks. For example, a router connects your local network to the internet.

Run In Windows Vista and Windows XP, you can make the Run box appear by pressing the **Windows** key, and the **R** key on your keyboard.

S

SATA Serial Advanced Technology Attachment (or Serial ATA) is an interface standard that moves information to and from a storage device, such as a hard drive.

shared folders A “share folder” means the same as a “share,” and you can use these terms interchangeably: A shared folder is a top-level folder that is shared on the network and stores other folders within it. For example, the Music shared folder can store other folders (called sub-folders). A subfolder might be named for a musician, such as Mark Knopfler.

SMTP Simple Mail Transfer Protocol—The main protocol used to send email on the Internet, consisting of rules for how programs sending mail should interact with programs receiving mail.

Static IP Address A number assigned to a device, such as a computer, on a network to be its permanent IP address. Also see [IP address](#) and [DHCP](#).

strong password A strong password must be at least 7 characters long and must fulfill three of the following four character criteria: uppercase characters, lowercase characters, numbers, and symbols (such as !, @, #, and so on.) Also see [password hint](#).

Sub-folders A folder within a folder or a shared folder.

Subnet Mask Identifies the portion of the network IP address that can be used for subnetworks. Also see [IP address](#).

System drive The hard drive (or drive partition) containing the operating system.

T

TCP/IP Transmission Control Protocol/Internet Protocol. A set of communications protocols used to transmit data over networks. TCP provides for the establishment of connections and exchanges streams of data. IP specifies the format of the data. Also see [IP address](#).

TCP/IPv4 TCP/IPv4 is the standard TCP/IP protocol in use today.

TCP/IPv6 TCP/IPv6 is the standard TCP/IP protocol used by Windows Vista. IPv6 main advantage is the increase in number of available addresses.

TB Terabyte—refers to a data storage capacity equal to approximately 1000 gigabytes.

U

UNC Uniform Naming Convention—identifies shared network devices, such as the HP MediaSmart Server. It is a format for specifying the location of resources on a local-area network ([LAN](#)). It identifies each shared resource with a unique address in the following format: \\server-name\sharedfolder-name. For example, \\SERVER\software. Also see [LAN](#).

UPnP Universal Plug and Play—a networking protocol that allows for many different types of devices to interact with one another. UPnP is the protocol used by media streaming.

V

Visitor HP Photo Webshare albums can be shared with people outside your local network, called visitors. If you use the HP MediaSmart Server for personal use, visitors may be family or friends such as Grandma or Aunt Karen. If you use the Server for business, visitors may be your customers or business partners.

W

WAP Wireless Access Point—a device, such as a wireless router, that connects wireless communication devices together to form a wireless network. A WAP often connects to a wired network, and can relay data between wireless devices and wired devices.

Web browser An application used to access information on networks, on the internet, and in help systems. Common web browsers include Internet Explorer, Netscape, and Firefox.

Webshare Manager A type of user account that is enabled with Webshare Manager permissions. Webshare Managers have access to all HP Photo Webshare features, including viewing and managing content in all albums, sharing albums with people outside the home network, and approving album content added by people that share the album.

WEP Wired Equivalent Privacy—a protocol that encrypts data on a wireless system for security.

WPA Wi-Fi Protected Access—a technology that allows for increased security with wireless networks.

X

No terms begin with the letter X.

Y

No terms begin with the letter Y.

Z

No terms begin with the letter Z.