

Practical Network

Third Class

L.5

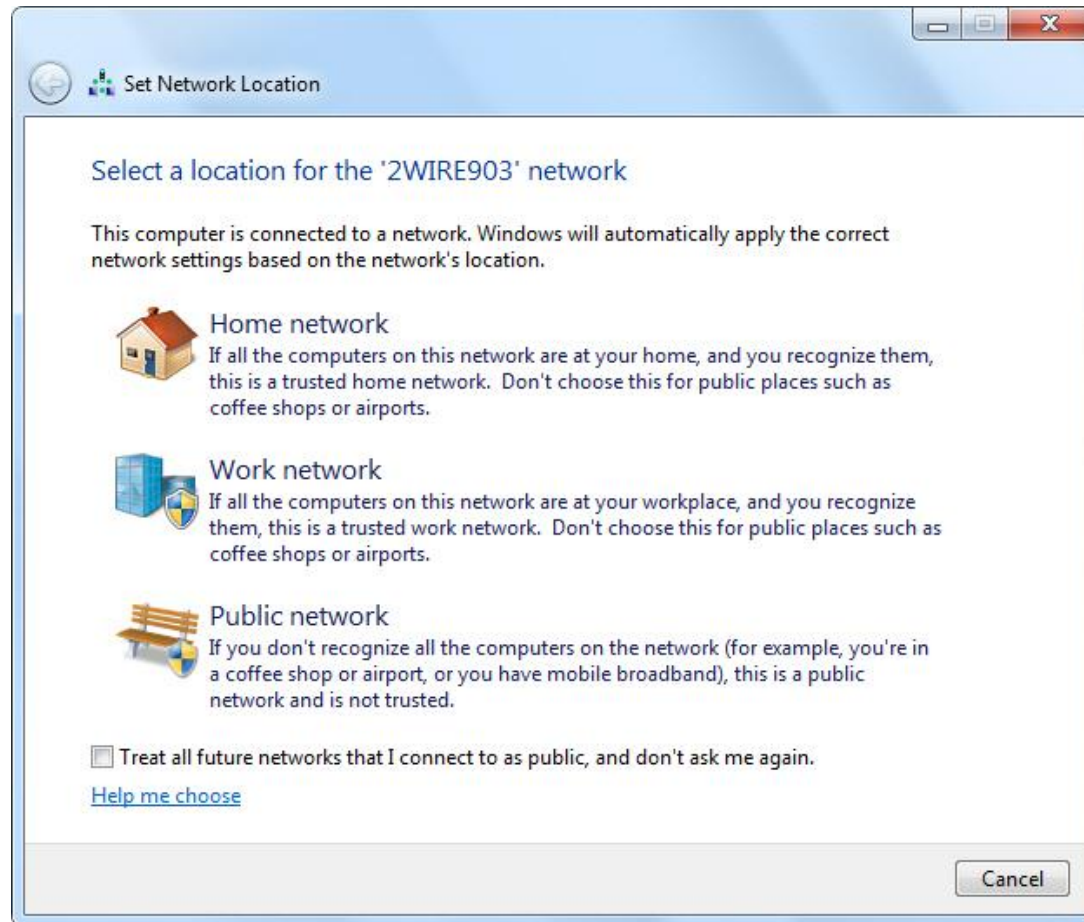
Mohanad Ali



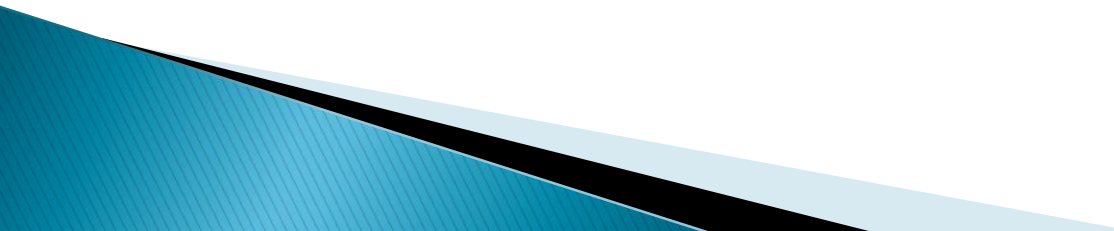
# File and Printer Sharing

- ▶ Basic sharing
  - ▶ Advanced sharing
  - ▶ Public folders
  - ▶ HomeGroup
  - ▶ Workgroups
  - ▶ Domains
- 

# Network Locations in Windows 7



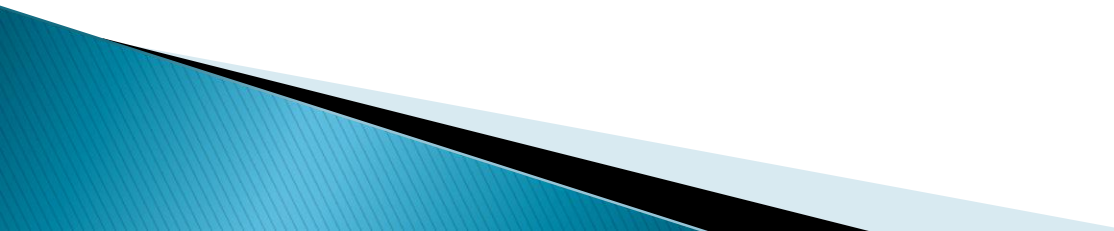
## What Should You Use?

- ▶ Use *HomeGroup* or *Public folders* if you have a small office/home office, all computers running Windows 7
  - ▶ Use a *workgroup* if you have a peer-to-peer network that includes a mix of computers running Windows 7 and Windows Vista or Windows XP, and you want to share files between the computers
  - ▶ Use *domains and Active Directory* in larger business environments
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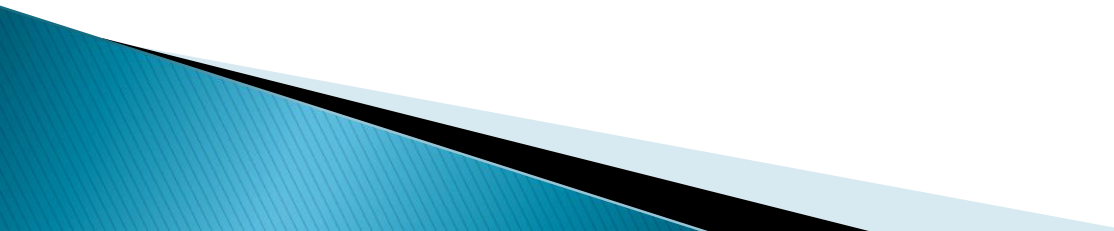
# HomeGroup

- ▶ The file and printer sharing solution built in to Windows 7
- ▶ Once you set up a homegroup on one computer, other networked computers running Windows 7 can join the homegroup and automatically see the shared libraries and printers

## HomeGroup Caveats

- ▶ Can only join (not create) a homegroup in Windows 7 Home Basic and Starter editions
  - ▶ Can join only one homegroup at a time; if computer is already joined to a homegroup, must leave that homegroup to join another
  - ▶ Can't limit access to shared items to individual users; anyone using a computer that's a member of the homegroup can access the shared content
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## HomeGroup Caveats

- ▶ Non-Windows 7 computers (Windows Vista, Windows XP, Mac OS, or Linux) require additional setup steps to access shared items in a homegroup
  - ▶ Must already have a network set up (either wired or wireless)
  - ▶ To create or join a homegroup, computer's network location must be set to "Home network" (in the Network and Sharing Center)
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# HomeGroup Setup

The screenshot shows the Windows 7 Network and Sharing Center. The breadcrumb path is Control Panel > Network and Internet > Network and Sharing Center. The main heading is "View your basic network information and set up connections". Below this, there are three network icons: HPDV7 (This computer), Multiple networks, and Internet. A "See full map" link is present. The "View your active networks" section shows two networks: "2WIRE903 Home network" (HomeGroup icon) and "Unidentified network Public network" (Bench icon). To the right of each network are details for "Access type" and "Connections". For 2WIRE903, the access type is "Internet" and it is "Ready to create" a HomeGroup. For the unidentified network, the access type is "No Internet access". Below the active networks is the "Change your networking settings" section with three links: "Set up a new connection or network", "Connect to a network", and "Choose homegroup and sharing options". In the left sidebar, under "See also", the "HomeGroup" link is highlighted with a yellow box. Other links in the sidebar include "Manage wireless networks", "Change adapter settings", "Change advanced sharing settings", "Intel® My WiFi Technology", "Intel® PROSet/Wireless Tools", "Internet Options", "MobileMe", and "Windows Firewall".

Control Panel Home

Manage wireless networks  
Change adapter settings  
Change advanced sharing settings

View your basic network information and set up connections

HPDV7 (This computer) Multiple networks Internet See full map

View your active networks [Connect or disconnect](#)

**2WIRE903**  
Home network

Access type: Internet  
HomeGroup: Ready to create  
Connections: Wireless Network Connection (2WIRE903)

**Unidentified network**  
Public network

Access type: No Internet access  
Connections: VMware Network Adapter VMnet1  
 VMware Network Adapter VMnet8

Change your networking settings

[Set up a new connection or network](#)  
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.

[Connect to a network](#)  
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.

[Choose homegroup and sharing options](#)  
Access files and printers located on other network computers, or change sharing settings.

See also

**HomeGroup**

Intel® My WiFi Technology  
Intel® PROSet/Wireless Tools  
Internet Options  
MobileMe  
Windows Firewall



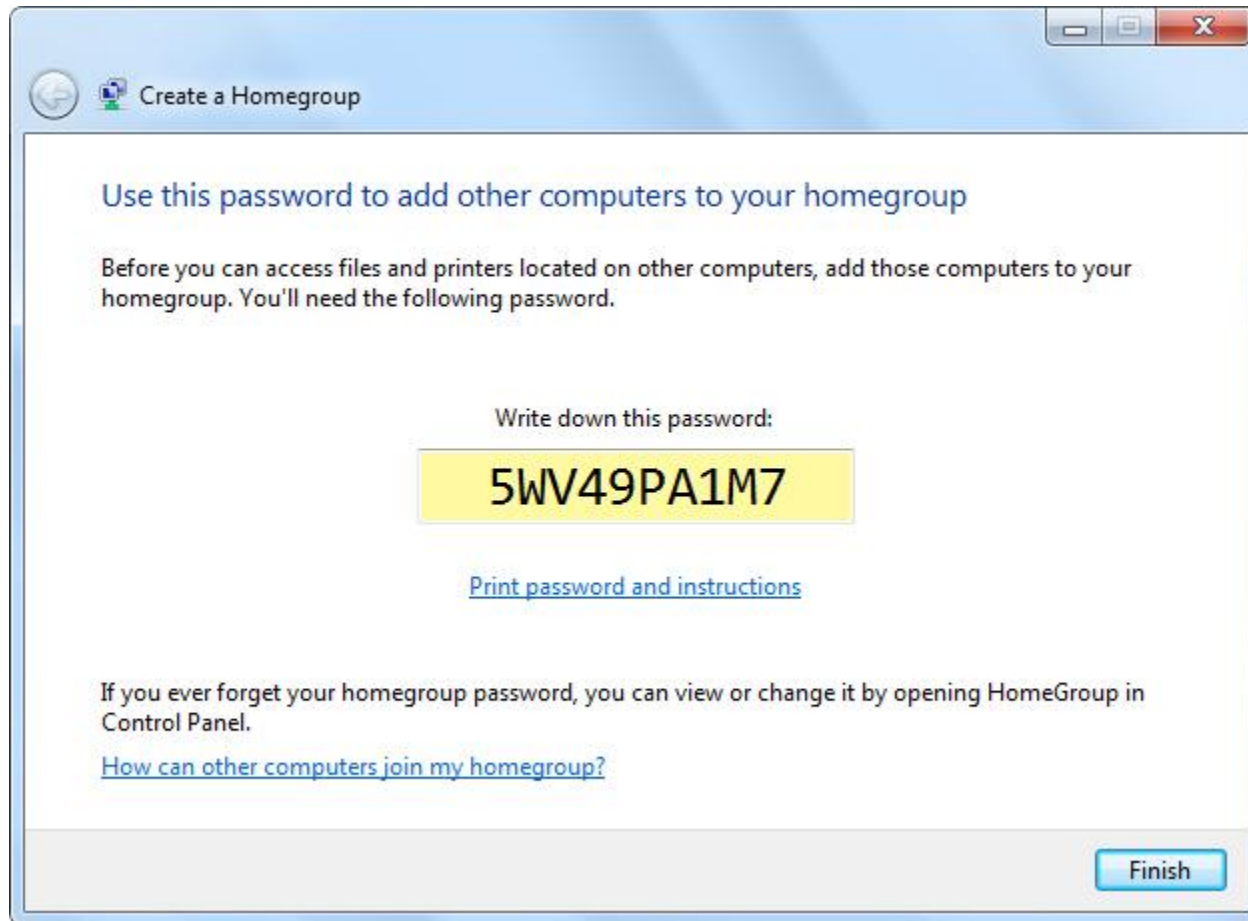
# HomeGroup Setup



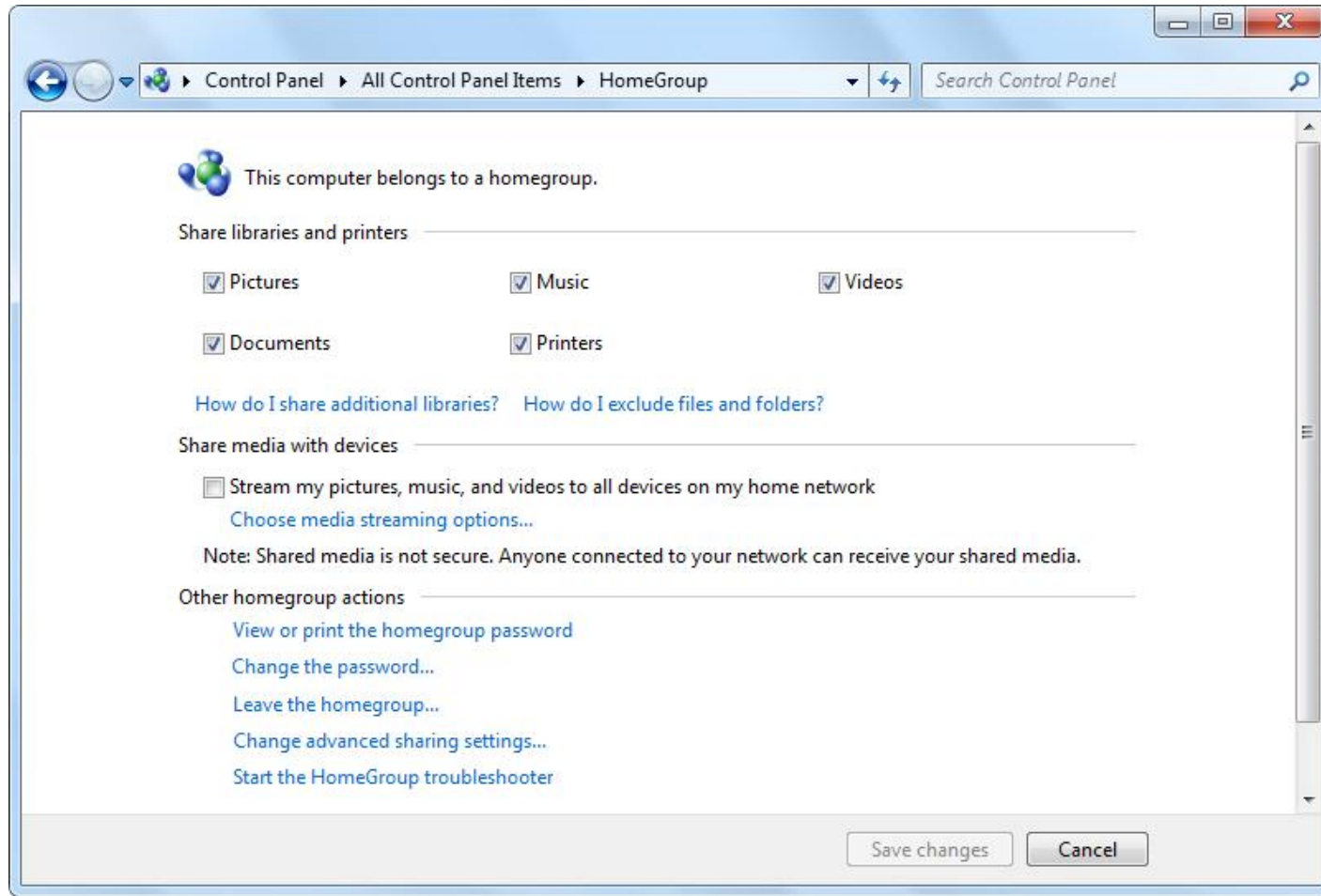
# HomeGroup Setup



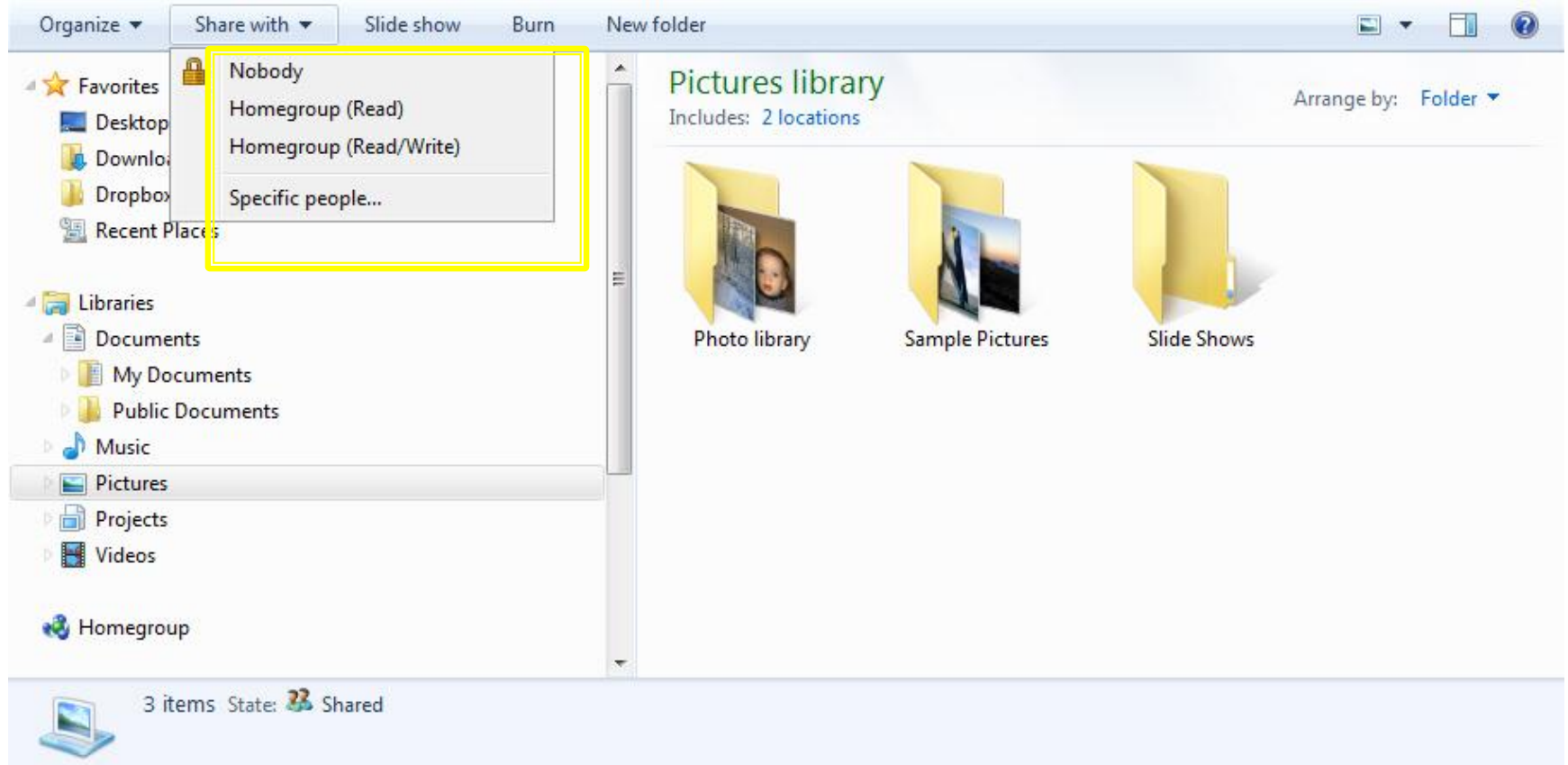
# HomeGroup Setup



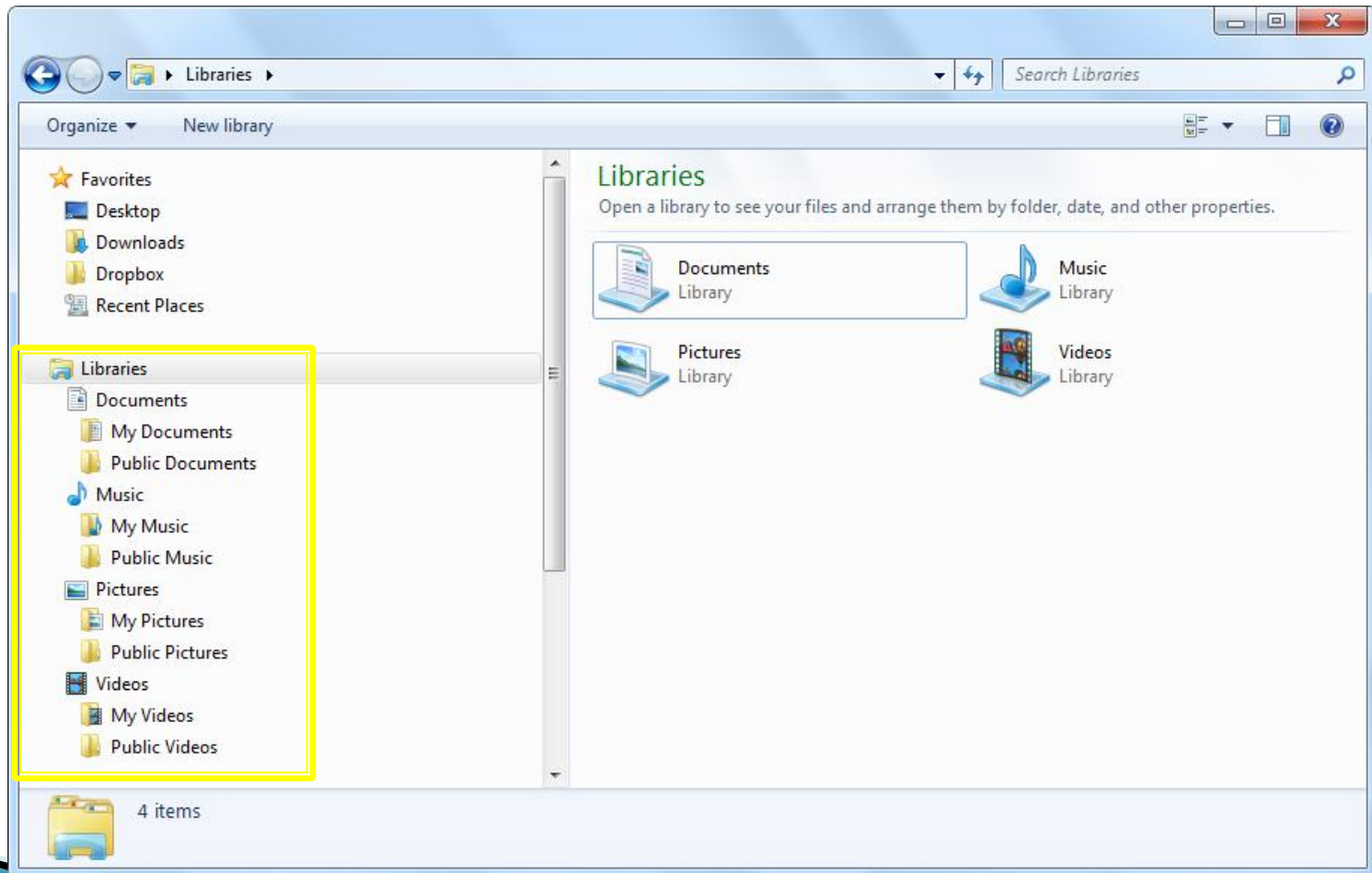
# HomeGroup Setup



# Controlling HomeGroup Access

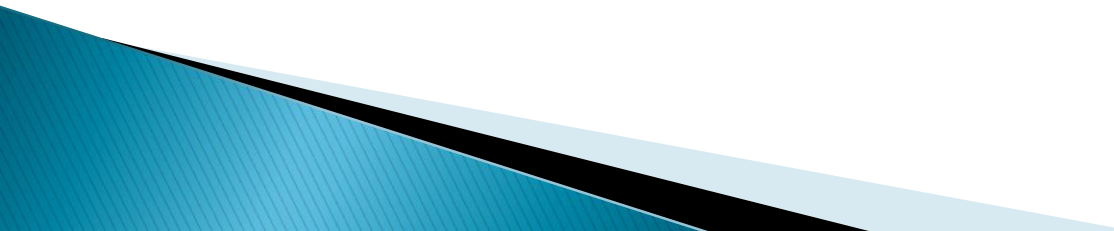


# Public Folders

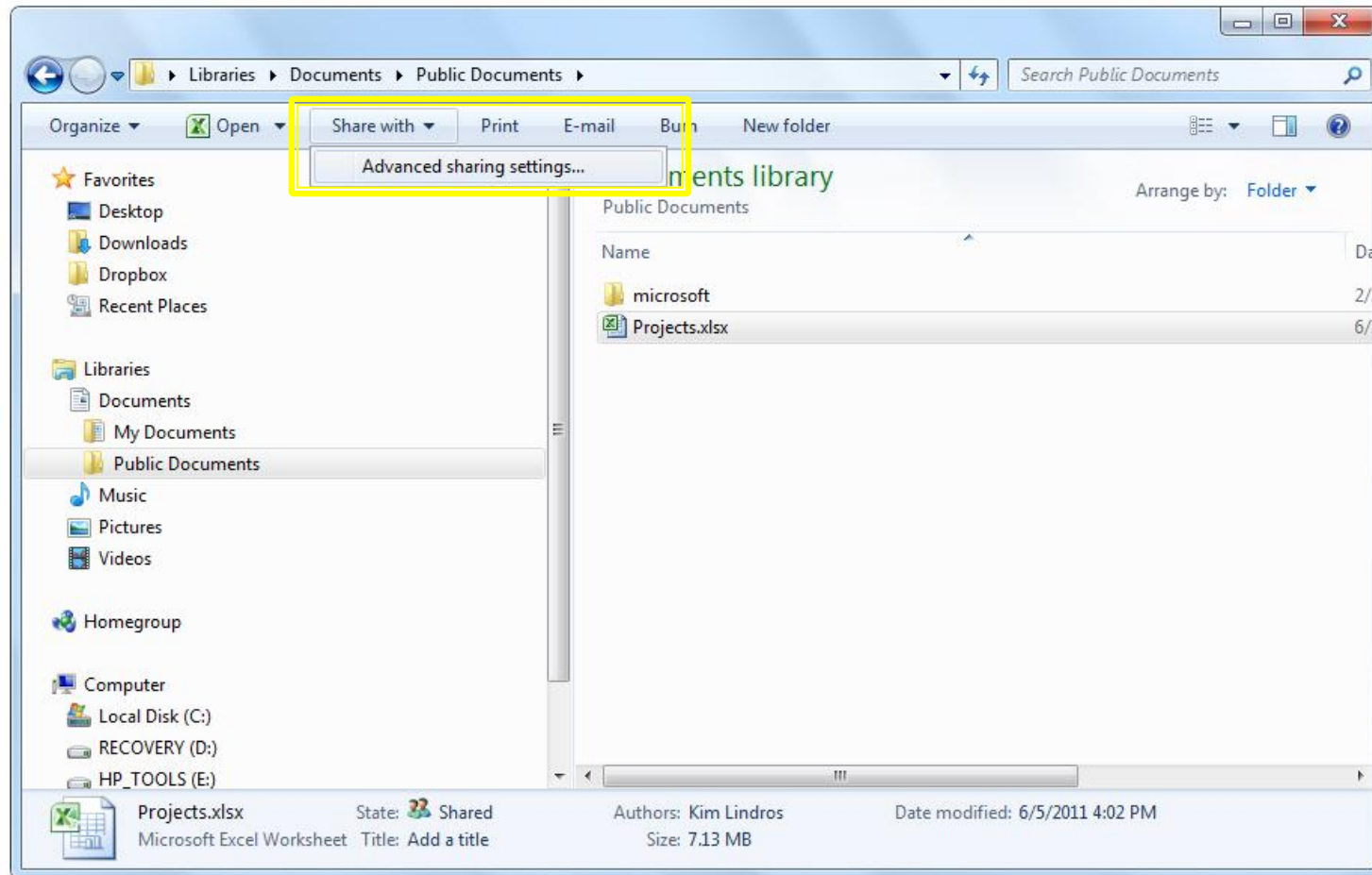




# Public Folders

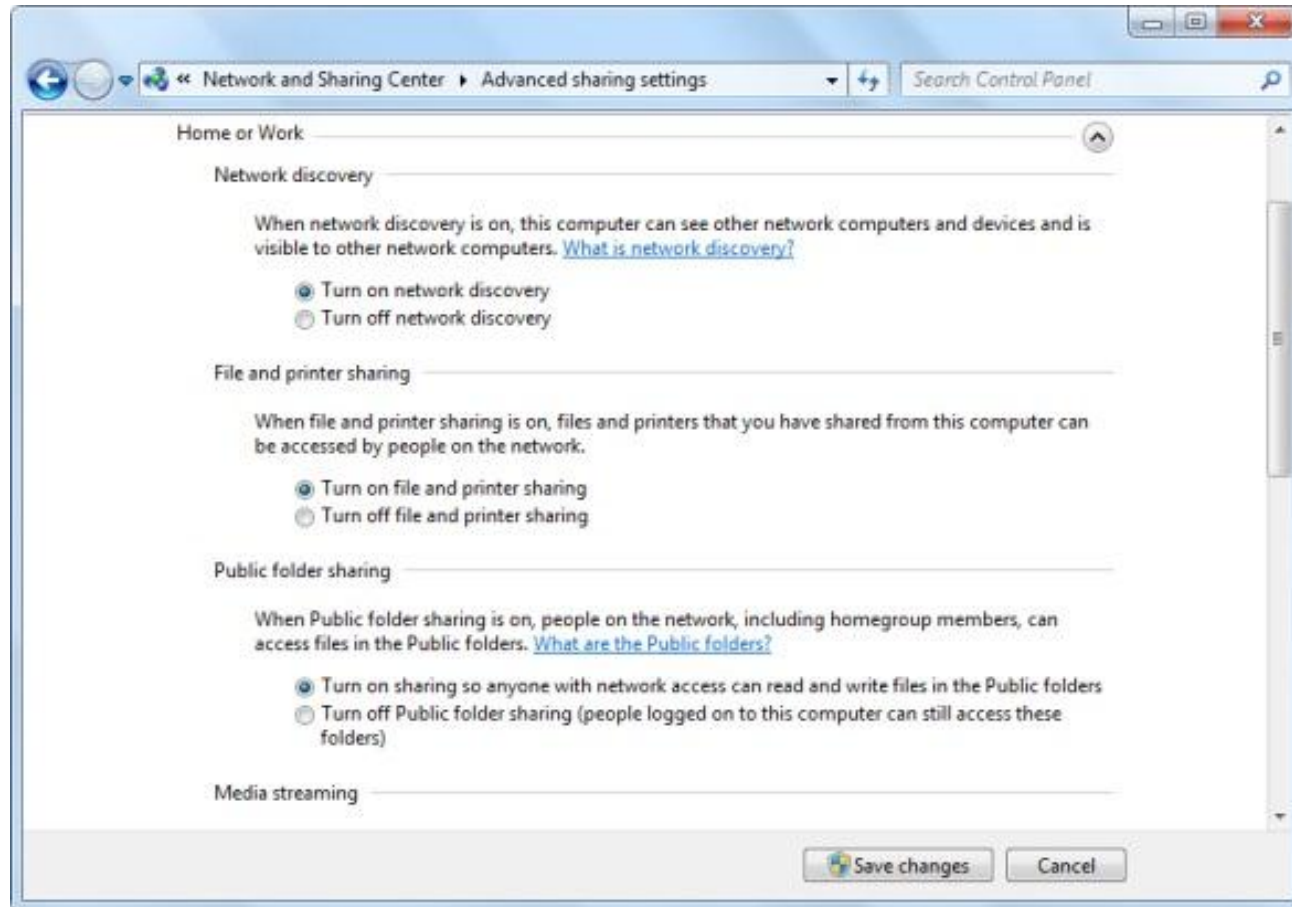
- ▶ Public folder sharing in Windows 7 turned off by default (except on a homegroup)
  - ▶ When Public folder sharing is turned on, anyone on computer or network can access these folders
  - ▶ Can't limit which files or folders are shared in a Public folder—everything is shared; anyone with network access can read and write files in Public folders
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# Turning Public Folder Access On/Off

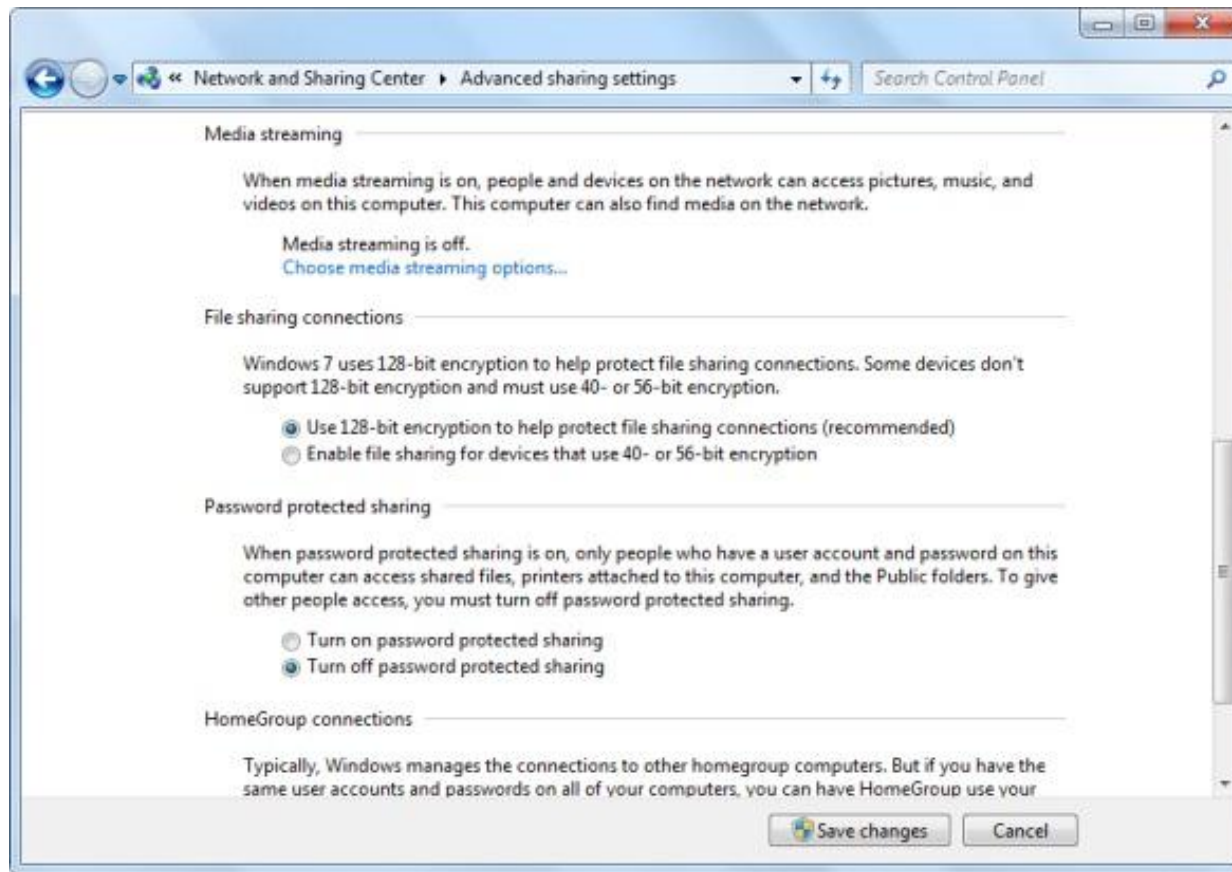




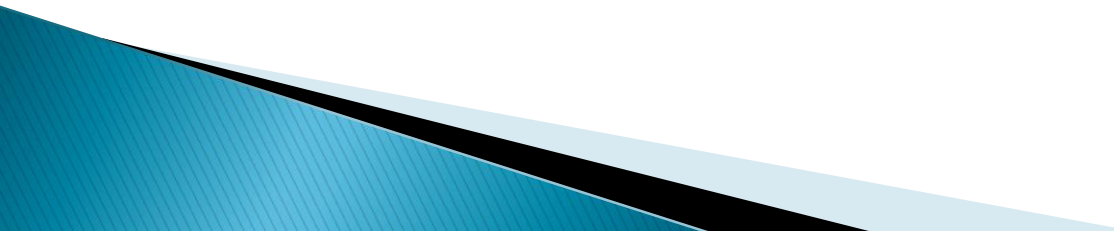
# Turning Public Folder Access On or Off



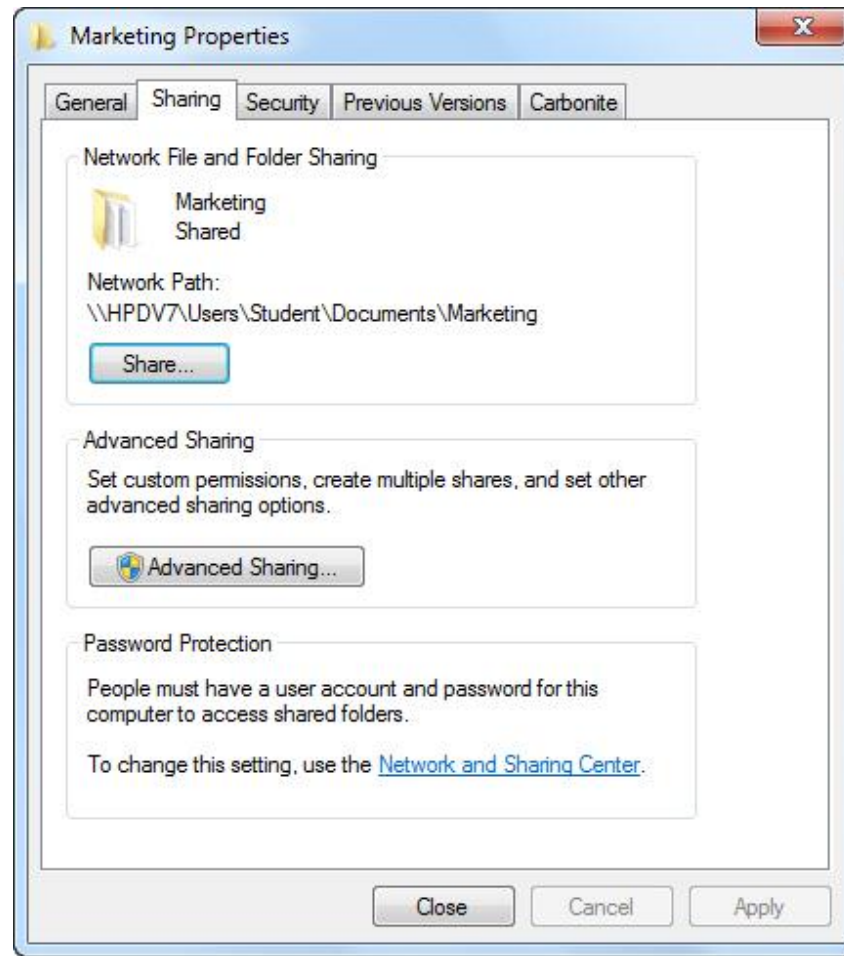
# Turning Password-Protected Sharing On or Off



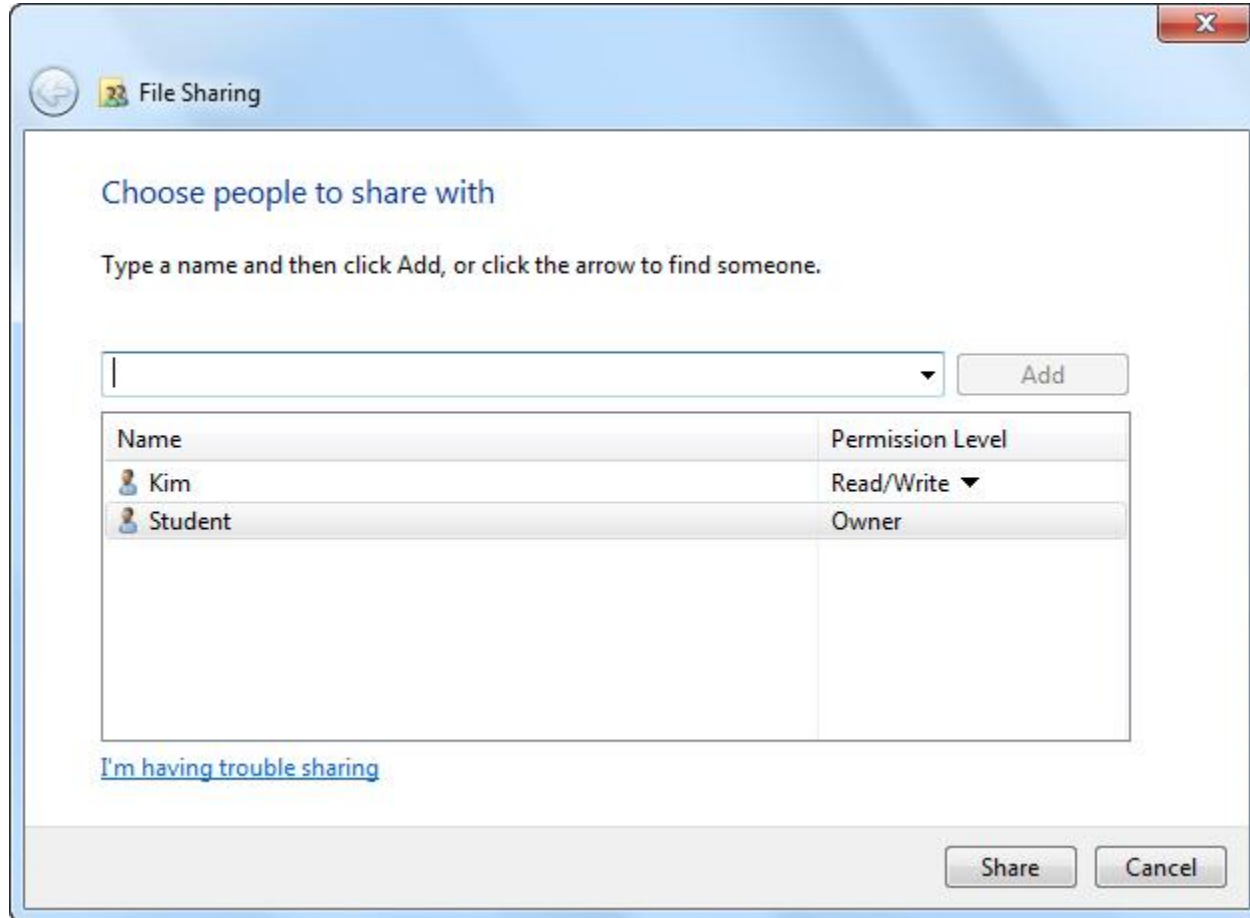
## Basic and Advanced Shares

- ▶ Allow you to control who may access specific files and folders located in your libraries
  - ▶ *Advanced sharing* offers the most options and is the best choice for protecting confidential information
  - ▶ File sharing and network discovery must be turned on
  - ▶ Best practice is to turn on password-protected sharing
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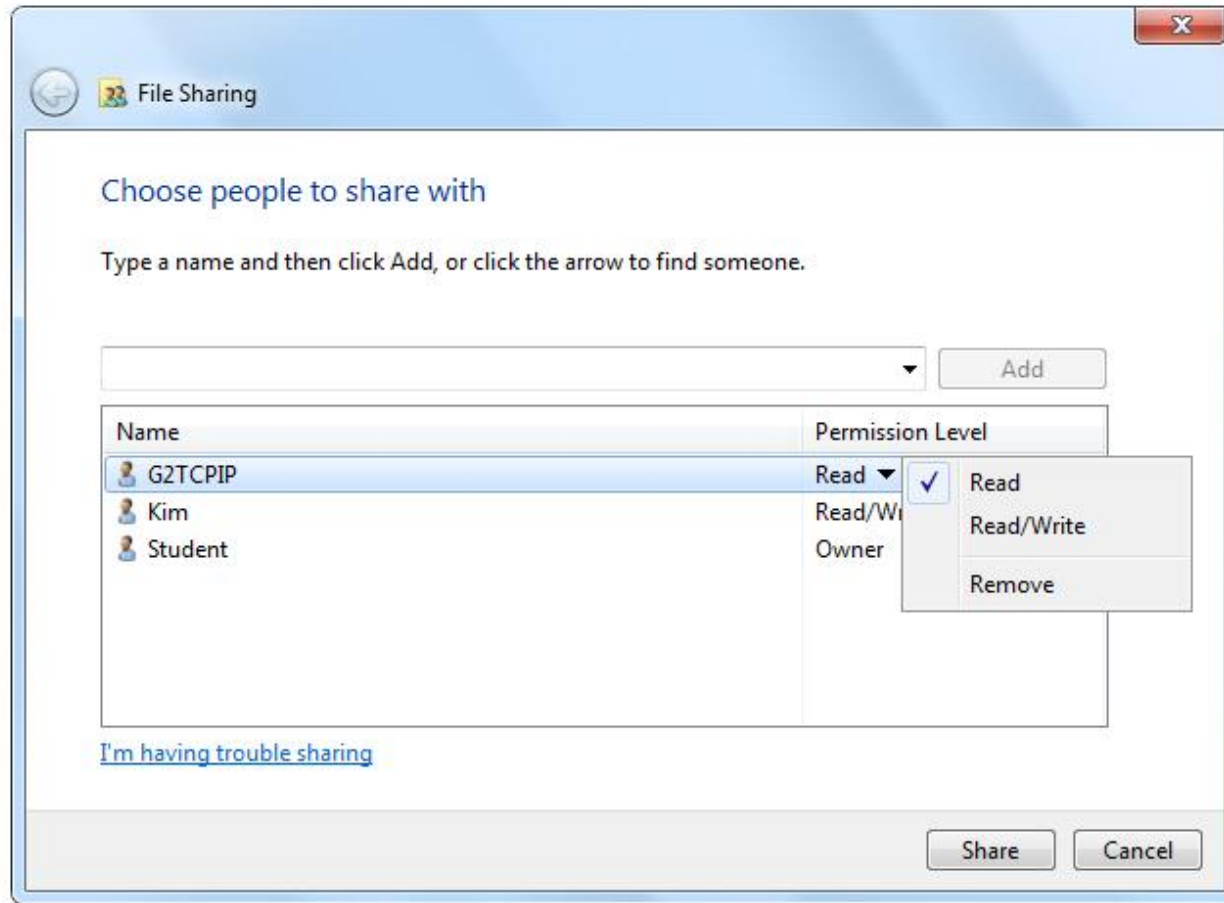
# Setting Up a Basic Share



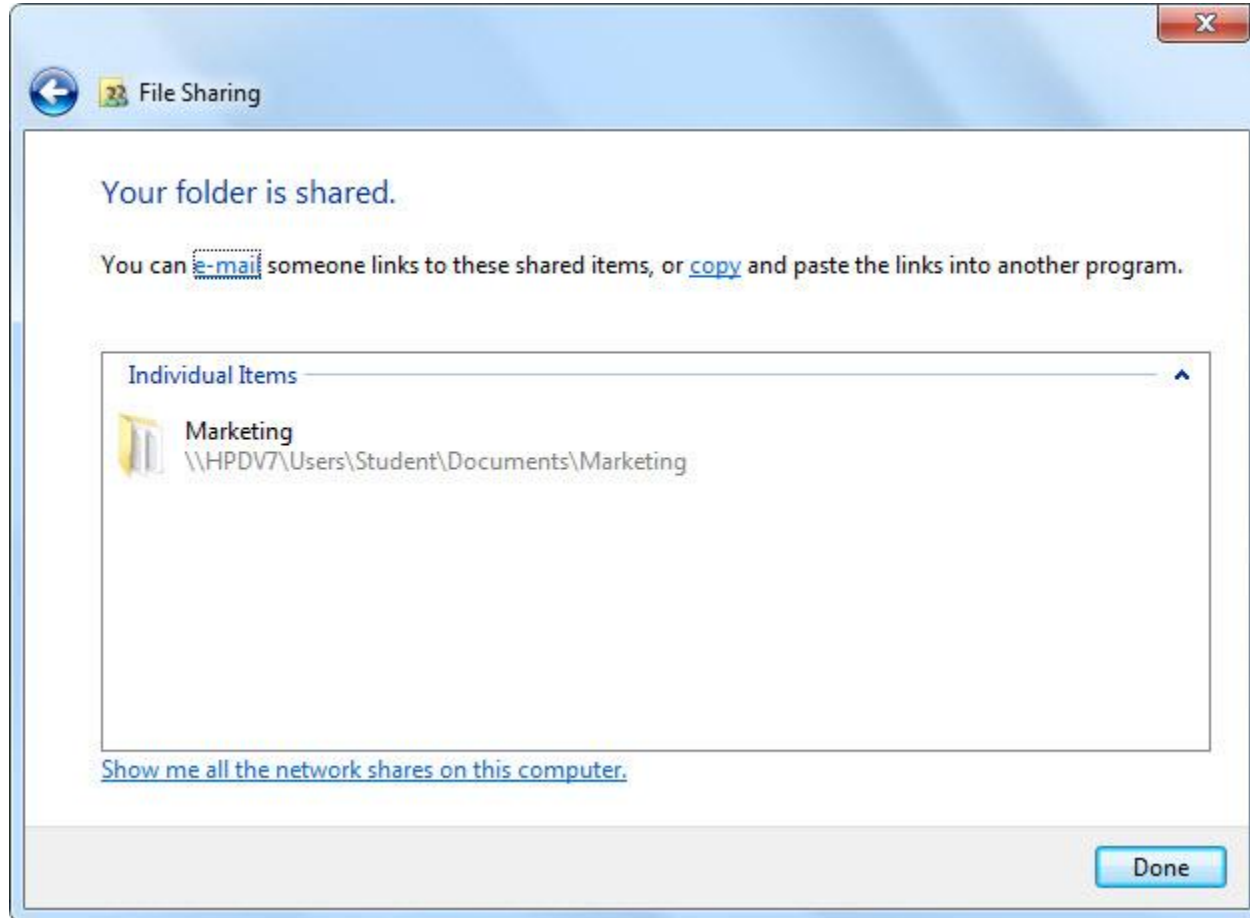
# Setting Up a Basic Share



# Setting Up a Basic Share

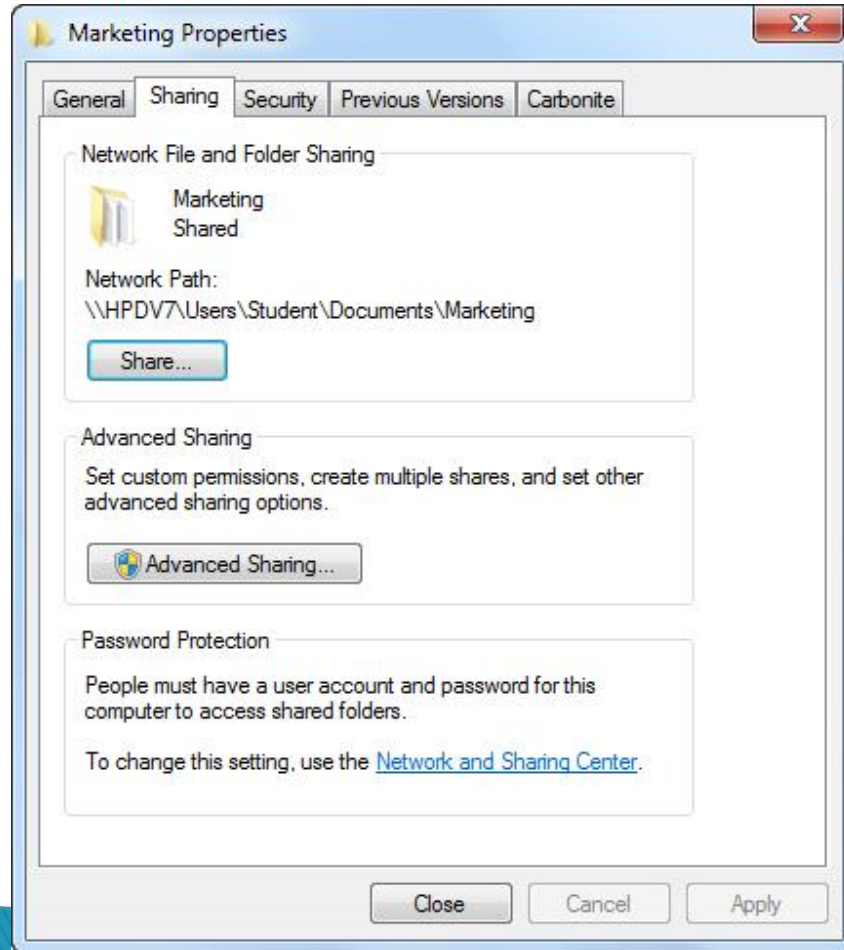


# Setting Up a Basic Share



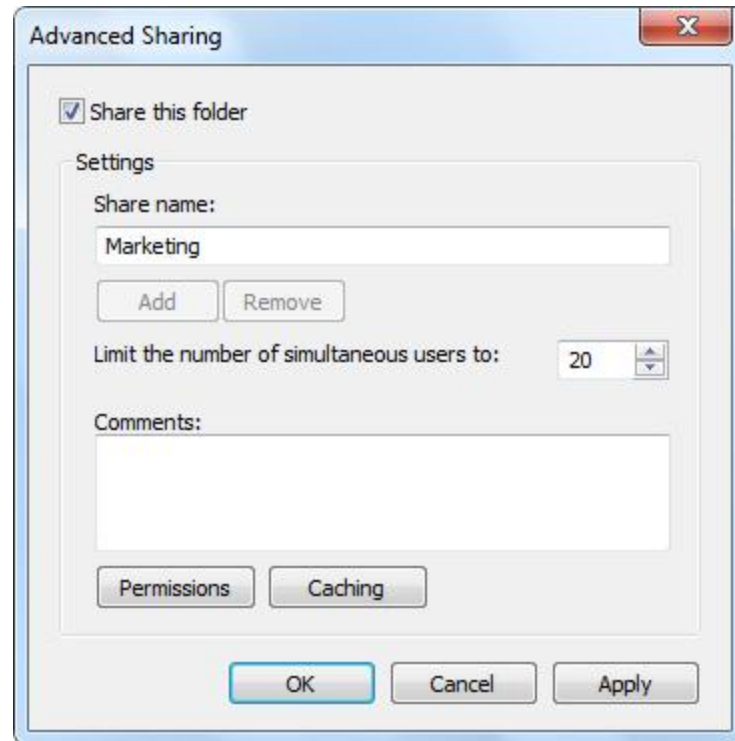


# Setting Up an Advanced Share

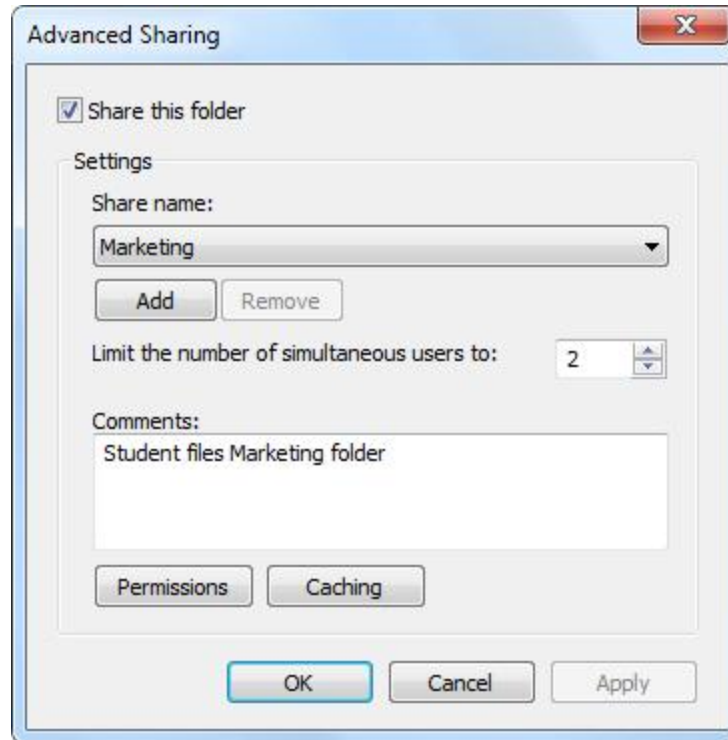




# Setting Up an Advanced Share

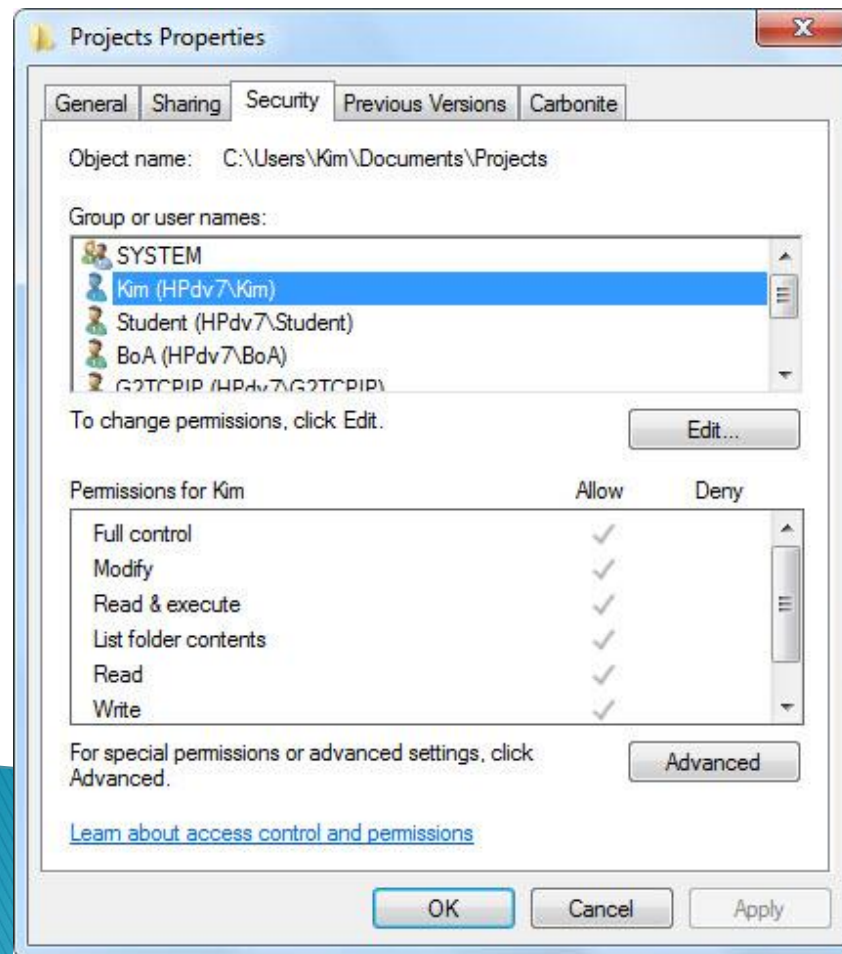


# Setting Up an Advanced Share



Permission Level	Description
Full control	Allows users to view and change files and folders, to create new files and folders, and to run programs in a folder.
Modify	Allows users to change files and folders but they cannot create new ones.
Read & execute	Allows users to view the contents of files and folders and to run programs in a folder.
Read	Allows users to view the contents of a folder and to open files and folders.
Write	Allows users to create new files and folders and to change files and folders.

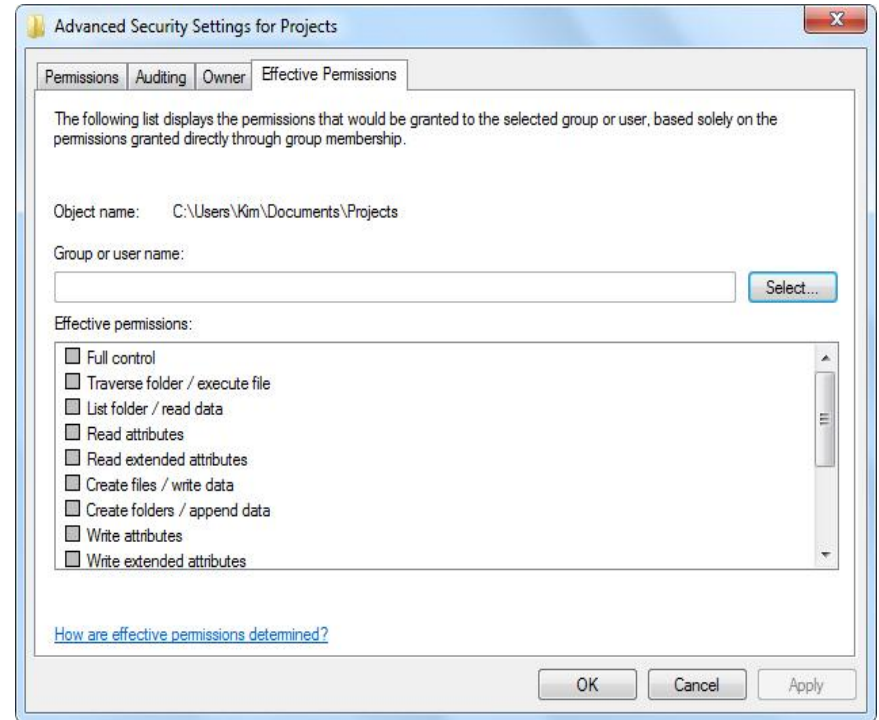
# Changing a Folder's Permissions



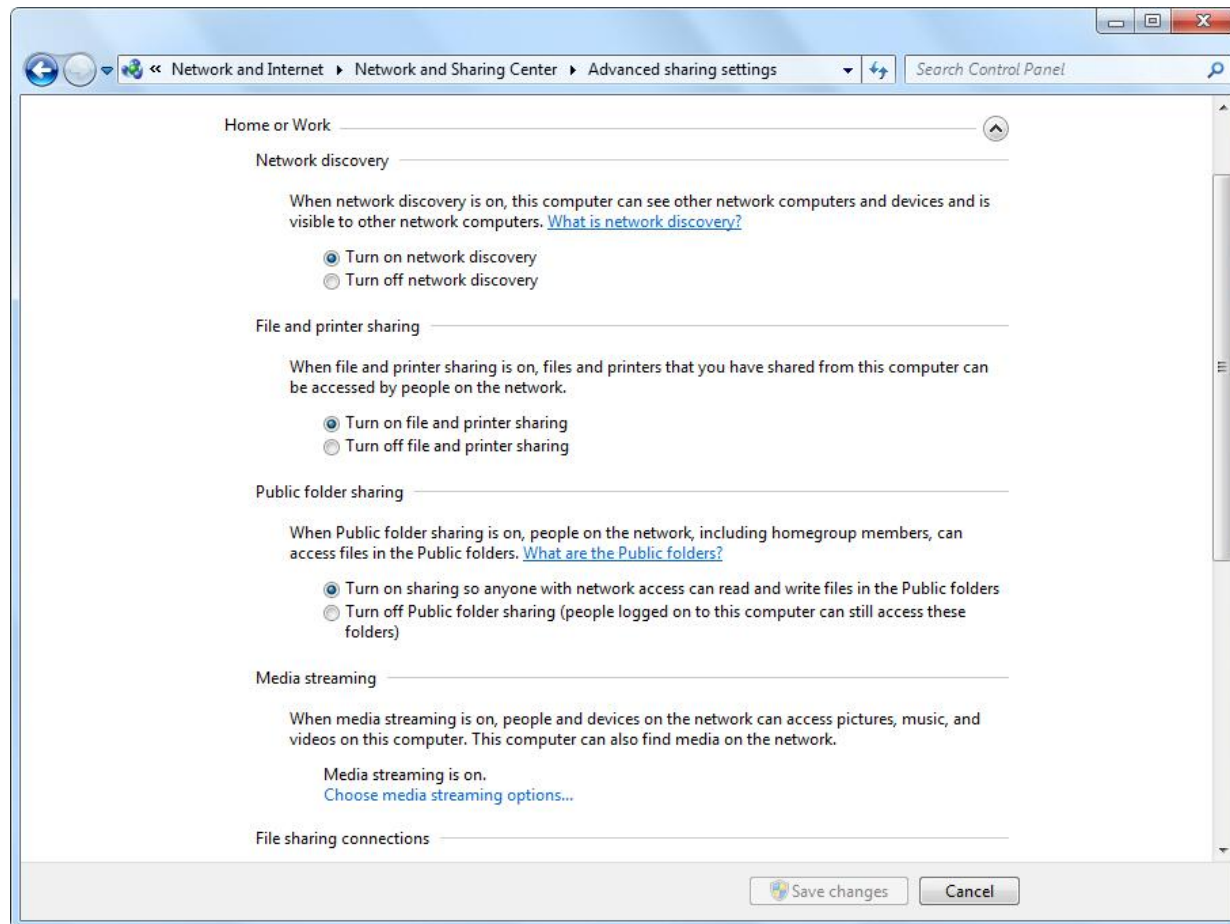


# Share Permissions & Effective Permissions

Granted to a user or group based on the permissions granted through group membership and any permissions inherited from the parent object



# Printer Sharing: Advanced Sharing Settings



# Devices and Printers

The screenshot shows the Windows 'Devices and Printers' control panel window. The address bar indicates the path: Hardware and Sound > Devices and Printers. The search bar contains the text 'Search Devices and Printers'. Below the address bar, there are five action buttons: 'Add a device', 'Add a printer', 'See what's printing', 'Print server properties', and 'Remove device'. The main content area is divided into two sections: 'Devices (3)' and 'Printers and Faxes (6)'. The 'Devices' section contains three items: 'HPDV7' (laptop), 'Microsoft USB Dual Receiver Wireless Mouse (IntelliPoint)', and 'Microsoft Wireless Transceiver'. The 'Printers and Faxes' section contains six items: 'Adobe PDF', 'Brother HL-2170W' (highlighted with a green checkmark), 'Brother MFC-465CN Printer', 'Fax', 'Microsoft XPS Document Writer', and 'Send To OneNote 2010'. At the bottom of the window, there is a detailed view for the selected 'Brother HL-2170W' printer, showing its icon, name, state (with a green checkmark and a person icon), manufacturer (Brother Industries, Ltd), model (HL-2170W), description (HL2170W Ver.1.00 en-US), category (Printer), and status (0 document(s) in queue).

Hardware and Sound > Devices and Printers

Search Devices and Printers

Add a device   Add a printer   See what's printing   Print server properties   Remove device

Devices (3)

- HPDV7
- Microsoft USB Dual Receiver Wireless Mouse (IntelliPoint)
- Microsoft Wireless Transceiver

Printers and Faxes (6)

- Adobe PDF
- Brother HL-2170W
- Brother MFC-465CN Printer
- Fax
- Microsoft XPS Document Writer
- Send To OneNote 2010

Brother HL-2170W   State:   Description: HL2170W Ver.1.00 en-US  
Manufacturer: Brother Industries, Ltd   Category: Printer  
Model: HL-2170W   Status: 0 document(s) in queue

# Device Stage

Devices and Printers ▶ Brother HL-2170W

Search Brother HL-2170W

Brother HL-2170W  
HL-2170W

0 document(s) in queue    Printer: Ready

Letter, Portrait

brother

**See what's printing**  
View, pause, or cancel your print jobs

**Adjust print options**  
Change color, layout, or paper settings

**Brother Solutions Center**  
Support site for documentation and drivers.

**Brother CreativeCenter**  
WEB site for FREE download photo projects.

**Brother Mall.com**  
Purchase Brother supplies and accessories.

**Customize your printer**  
Change the name, security settings, or other properties

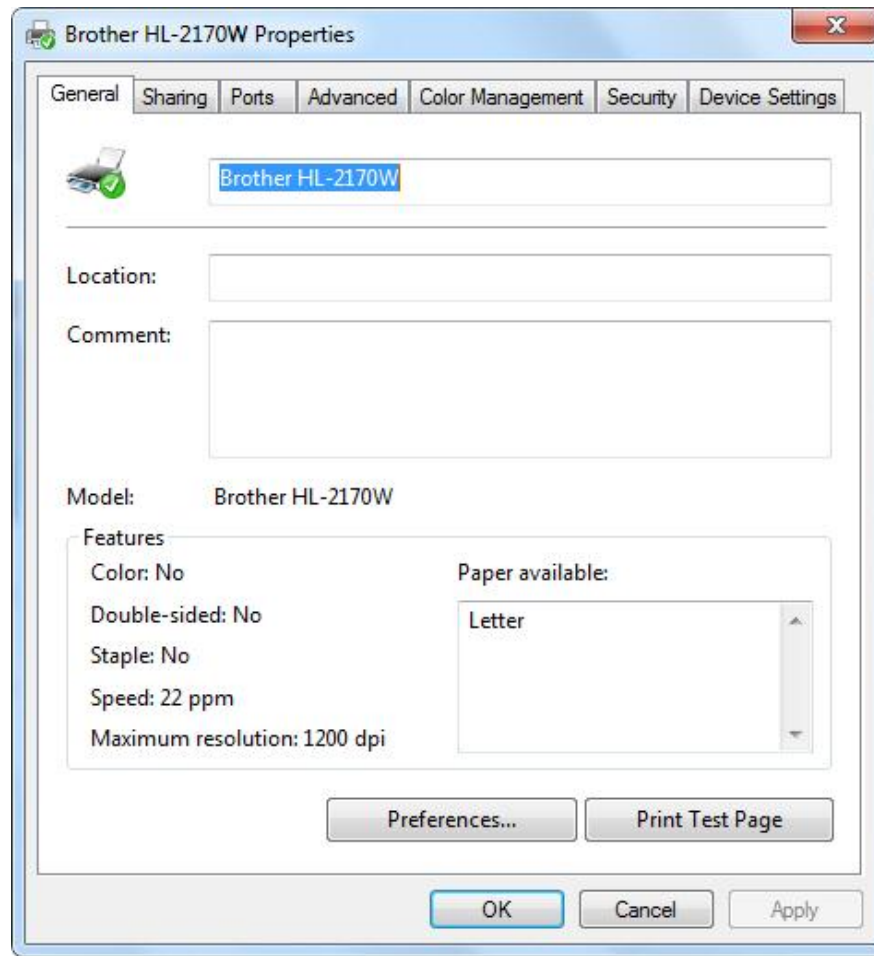
**Online Documents**  
View the User, Software and Network guides.

**Brother Supplies and Accessories**  
For crisp black prints and rich colors.

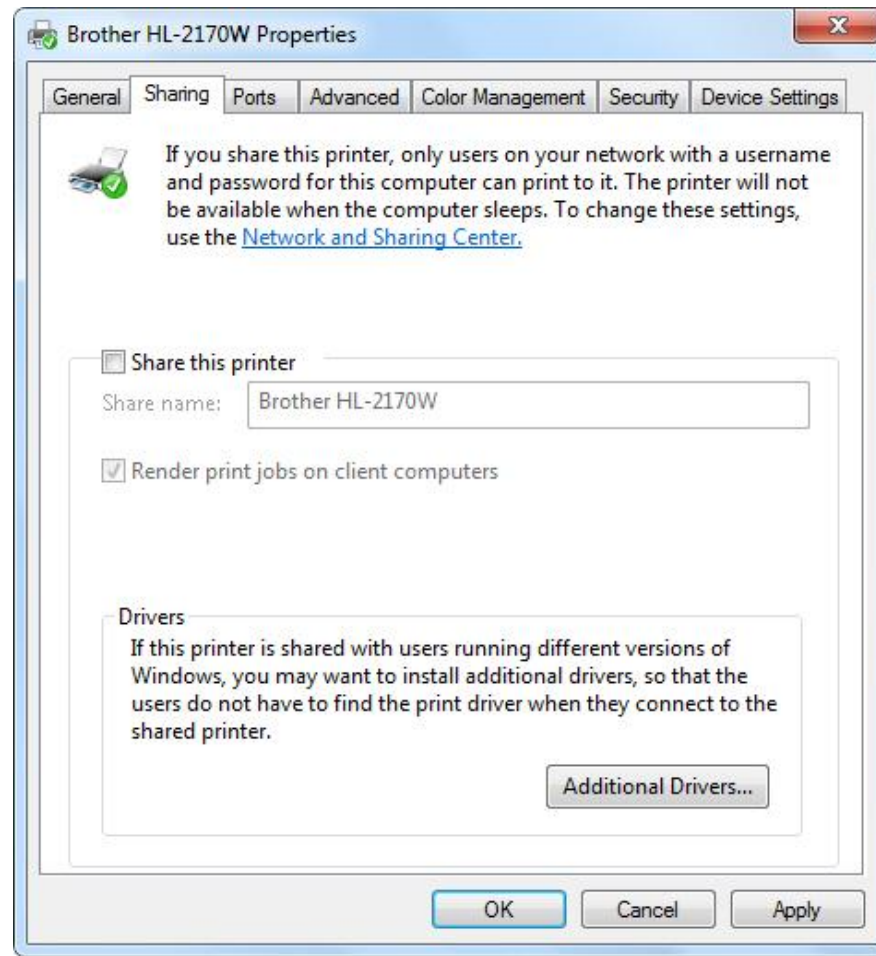
**On-Line Registration**  
Easy to use on-line product registration.



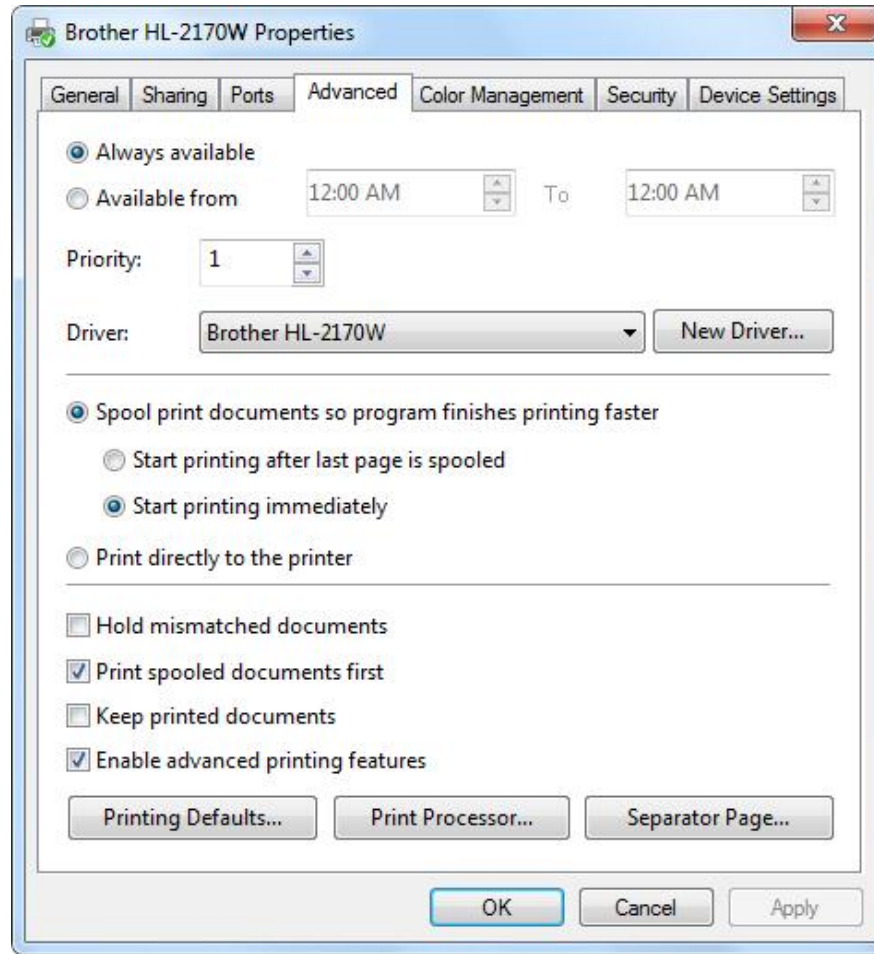
# A Printer's Properties Dialog Box



# The Sharing Tab



# The Advanced Tab



# Updating a Printer Driver

