

Guest PC

for Mac OS X

Version 1.6

User Guide

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About Guest PC

Guest PC allows you to easily create and manage virtual x86 computers on your Mac. You can install any Microsoft Windows operating system and access applications created for Windows compatible computers.

About your Virtual Computer

The Guest PC Virtual computer emulates a standard x86-based computer, including all of the basic hardware components. Each virtual computer works like a separate physical computer with its own operating system.

Emulated hardware, used by the virtual computer including keyboard, mouse, hard disk, CD, floppy disk, sound card, ports, printers, and other devices are virtual. Guest PC uses your Macintoshes hardware as a basis to emulate the standard hardware on a real x86 based PC.

For example: A Guest PC virtual hard drive is contained inside a file residing on your Mac's hard drive. It is not a physical device.

Creating a Virtual Computer

To use Windows applications you need to create a virtual computer and install Windows on it.

The Guest PC application has a built in setup assistant that allows you to create your virtual computer and easily install any desired version of Microsoft Windows on it.

To install Microsoft Windows, or any operating system you should have your own licensed copy of the desired operating system.

To create a virtual computer with Windows:

1. Select the **New PC** menu item in the **File** menu to open the **PC Setup Assistant** window.
2. Select the OS you want to install from the **Guest OS** menu.
3. Select the desired PC disk size from the **PC Disk Size** menu.
4. Select the desired amount of emulated PC memory from the **PC Memory Size** menu.
5. Type the name of your virtual computer in the **PC Name** field. The PC name will become the name of the configuration document which is stored in the **/Documents/Guest PC Data/** folder and has a filename extension of **.spcf**
6. Type your name in the **Name** field.
7. Type your organization or group in the **Organization** field.
8. Type the Windows product key in the **Windows Product Key** field. If your windows product key does not match the format of the **Windows Product Key** field, turn the **Windows Product Key** checkbox off.
9. Insert the CD that contains your Microsoft Windows operating system into the CD drive of your Mac.
10. Click the **Start OS Installation** button.

The information you enter is passed to the Windows Setup Assistant and the automated setup starts. Windows Setup Assistant will install all the required hardware, setup a modem, a printer, and will prepare a network connection.

After Windows is installed you will see a standard Microsoft Windows desktop with a welcome window.

Please use Windows Help, or consult Microsoft's documentation to get information on how to use Microsoft Windows. There are also many excellent third-party books with information on how to operate Microsoft Windows.

Important Notes:

Some Windows versions may ask questions during setup process.

- If Windows asks you to create a system disk, press the cancel button and do not remove the floppy disk.
- If Windows asks you to define the printer type, select an **Apple LaserWriter** printer connected to **LPT1**.
- If Windows asks you to define a modem type, select a **Standard 56k Modem** connected to **COM2**.
- If Windows needs to have a user name and password specified, enter your Mac username and password. **It is recommended if you plan to use file sharing between Mac and virtual computer.**

After you answer the questions, the automated installation will continue.

Installing the Microsoft Windows operating system may take a long time, depending on a variety of factors including the speed of your Mac and the type of Windows operating system. Time can range from fifteen minutes to over two hours.

If you are installing other operating systems, refer to the instructions that came with your software.

To speed up the installation process you can create a CD file image from your OS installation CD and use it instead of the physical CD. To create a CD file image use Mac OS X **Disk Utility** application.

Starting a Virtual Computer

You can run several virtual computers at a time.

To start a virtual computer:

1. Select the **Open PC** menu item in the **File** menu to open the **PC Selector** window.
2. Select the PC you want to start.
3. Click the **Start** button.

Working with a Virtual Computer

Each virtual computer has its own window, keyboard and mouse to interact with a user.

Switching between a virtual computer and your Mac

Your keyboard and mouse are shared between your Mac and a virtual computer. When the virtual computer window is active the keyboard input goes to the virtual computer. When your virtual computer window is inactive, the keyboard input goes to Mac OS X.

The mouse will be captured by your virtual computer for exclusive use if you click in the virtual computer window. To return control of the mouse to Mac OS X, press the **COMMAND** ⌘ + **Escape** key combination.

Using a mouse

Traditionally a Mac mouse has 1 button, while a PC mouse has 2 or more buttons. Guest PC emulates a 3-button mouse with wheel support. If your Mac mouse has 3 buttons and a wheel you will have the same in your virtual computer. If you have a standard 1-button mouse then your virtual computer will have a 2-button mouse.

To make a right-mouse click with a 1 button mouse:

- Hold down **COMMAND** ⌘ while you click the mouse button.

Using a keyboard

There is not much difference between a PC and Mac keyboard, excluding the following keys:

PC key	Mac key
• Print Screen/SysReq	- F13 in Mac
• Scroll Lock	- F14 in Mac
• Pause/Break	- F15 in Mac

In Mac OS X the function keys may work no matter what functions they have in an application. For example: F9 - F12 key are used by the Exposé application. For these function keys to work in a virtual computer press the **COMMAND ⌘ + Escape** key while pressing the desired function key.

Running your virtual computer in full-screen mode

A virtual computer works in two modes:

- Windowed mode
- Full screen mode

When you run your virtual computer in the full-screen mode, your Mac desktop is entirely replaced by the virtual computer window. The Mac Dock and the Guest PC menus and toolbars are no longer visible from the desktop. To make them appear again, press the **COMMAND ⌘ + Escape** key combination.

To switch between Windowed and Full screen modes:

- Select the **Toggle Full Screen** menu item in the **Action** menu.

Capture or release a floppy or floppy image

A virtual computer can access physical floppy drives as well as mounted floppy images on the Mac OS X desktop and floppy file images. Physical floppies and mounted floppy images automatically appear in the virtual computer as soon they are mounted on the Mac OS X desktop.

To access a floppy file image:

1. Choose the **Select Floppy Image...** menu item in the **Disks** menu. A file navigation dialog appears.
2. Choose the file floppy image (**.IMG, .DMG, .VFD, .VFI, .FLOPPYIMAGE, .DSK, .FLP, .144, .IMA**) and click the **Open** button.

Capture or release a CD/DVD or CD image

A virtual computer can access physical CD/DVD drives as well as mounted CD images on the Mac OS X desktop and CD file images. Physical CD/DVDs and mounted CD images automatically appear in the virtual computer as soon they are mounted on the Mac desktop.

To access a CD file image:

1. Choose the **Select CD Image...** menu item in the **Disks** menu. A file navigation dialog appears.
2. Choose the file CD image (**.IMG, .DMG, .ISO, .NRG, .CDR, .TOAST**) and click the **Open** button.

Using a Printer

The virtual computer emulates an **Apple LaserWriter** printer no matter what printer is used in your Mac. By default, the print jobs are sent to your **default Mac OS X printer**. You can select Mac printer for the virtual computer in the virtual computer settings.

The printer is attached to the **LPT1** port in the virtual computer. When you create a virtual computer, the parallel port settings are automatically set for you.

If you have a PostScript printer or your printer does not work correctly with the **Apple LaserWriter** driver in Windows you can install the exact driver for your printer in Windows.

If you want to use a network printer, please use the standard procedure for its setup that is described in your operating system or printer's user manual.

Using a Modem

The virtual computer emulates a **Standard 56k Modem** no matter what modem is installed in your Mac. By default, the virtual computer will use the first modem listed in the **Network Port Configuration** in the **Network** pane of **Mac OS X System Preferences**. You can select Mac modem for the virtual computer in the virtual computer settings.

The modem is attached to the **COM2** port in the virtual computer. When you create the virtual computer, the serial port settings are automatically set for you.

The modem can be used by only one virtual computer at a time.

The virtual computer cannot use a modem if your Mac is already connected through a modem.

As Guest PC emulates a **Standard 56k Modem** please do not install a Windows driver for your Mac modem in the virtual computer.

Using a Serial devices

The virtual computer emulates a standard **RS-232 (COM3)** serial port. You can attach your serial device directly to your Mac or use a USB-to-Serial adapter. Some non-serial (non RS-232) devices can be used in the virtual computer as well.

For example: Cellular Phones and PDAs with Bluetooth interfaces have serial communication protocol capability and can be represented in Mac OS X as serial devices. Use **/Applications/Utilities/Bluetooth Serial Utility** to configure such devices as serial devices.

To enable your **serial device** you will need to install a driver in Mac OS X and a Windows driver in the virtual computer.

Please do not install a Windows driver for your USB-to-Serial adapter in the virtual computer.

Important Notes:

You need to attach your serial device to the Mac before using it in the virtual computer. Any device attached to a Serial Port (COM3) can be used by only one virtual computer at a time. The device is not available to other virtual computers until the virtual computer using it is shut down.

You can select your serial device for the virtual computer in the virtual computer settings.

Networking

The virtual computer emulates a **DEC Ethernet 21040 PCI controller** no matter what network adapter is installed in your Mac. If your Mac has more than one network adapter, the virtual computer will use the first listed in the **Network Port Configuration** in the **Network** pane of **Mac OS X System Preferences**.

If you have an **AirPort** and **Ethernet** installed in your Mac then the virtual computer uses the adapter that is selected as the active connection.

As Guest PC emulates a DEC Ethernet 21040 PCI controller please do not install a Windows driver for your Mac network adapter in the virtual computer.

As virtual computer is a separate computer running in your Mac, you will need to setup the TCP/IP settings in the operating system you installed. By default, the TCP/IP settings are configured to use DHCP addressing. If your Mac network is configured to use static IP, enter an IP address for the virtual computer that is different from the IP address assigned to your Mac.

Consult your Network Administrator for an appropriate address, or use the **Network Utility** in the **Applications/Utility** folder to **PING** the desired address to be sure it is not being used elsewhere on your network. Your Virtual Computer will not be able to access your network if there is a conflict in the IP Address you assign for it.

To change TCP/IP settings in a Windows 95/98/Me machine:

1. Right-click on the **Network Neighborhood** icon and select the **Properties** menu item.
2. Select TCP/IP -> Ethernet DEC 21040 Based Adapter in the list.
3. Click the **Properties** button.
4. Use the Tabs to change TCP/IP, Gateway and DNS settings.
5. Click **OK** to apply TCP/IP properties.
6. Click **OK** to close the **Properties** window.

To change TCP/IP settings in a Windows 2000 machine:

1. Right-click on the **My Network Places** icon and select the **Properties** menu item.
2. Right-click on the **Local Area Connection** and select the **Properties** menu item to open the **Local Area Connection Properties** window.
3. Select **Internet Protocol (TCP/IP)** in the list and click the **Properties** button.
4. Change TCP/IP, Gateway and DNS settings.
5. Click **OK** to apply TCP/IP properties.
6. Click **OK** to close the **Properties** window.

To change TCP/IP settings in a Windows XP machine:

1. Click **Start** button to open the menu.
2. Select **Control Panel** then **Network Connections**.
3. Right-click on the **Local Area Connection** and select the **Properties** menu item to open the **Local Area Connection Properties** window.
4. Select **Internet Protocol (TCP/IP)** in the list and click the **Properties** button.
5. Change TCP/IP, Gateway and DNS settings.
6. Click **OK** to apply TCP/IP properties.
7. Click **OK** to close the **Local Area Connection Properties** window.

Please use Windows Help to get information on how to configure networking in Windows. For more information about custom network settings, check with your network administrator.

Transferring files between your Mac and a virtual computer

Mac OS X supports the SMB protocol. SMB is the protocol used by Windows machines to provide file and print sharing in a local area network. You can use this feature to transfer files between Mac and virtual computer.

To enable file sharing you need to:

- Enable SMB sharing in Mac OS X and Windows
- Set proper workgroup and host names
- Specify the shared folder(s)

Enabling SMB sharing between Mac OS X and Windows

To use file sharing between Mac OS X and a virtual computer, you need to have enabled SMB sharing in the Windows and Mac OS X.

By default, the virtual computer with Windows has SMB sharing on while Mac OS X has it off.

To enable the Mac OS X SMB sharing:

1. Open the **System Preferences** by selecting **System Preferences** from the **Apple** menu.
2. Click the **Sharing** icon to open the **Sharing** pane.
3. Start **Windows Sharing** by enabling its checkbox.
4. Close the **System Preferences** window.

Setting proper workgroup and host names

The virtual computer and your Mac must be in the same SMB workgroup. By default, your Mac and the virtual computer with Windows will be a part of the SMB workgroup "**WORKGROUP**".

To change the Mac OS X SMB workgroup:

1. Open the **Directory Access** utility. This tool is located in **/Applications/Utilities**.
2. Authenticate by clicking the padlock in the lower left corner. You should be prompted to enter your user password.
3. Select **SMB** from the **Services** list and click the **Configure...** button.
4. Set the workgroup name to match your Windows machine, click the **OK** button.
5. Close the **Directory Access** window.

To change the Mac OS X SMB Hostname:

1. Open the **System Preferences** by selecting **System Preferences** from the **Apple** menu.
2. Click the **Sharing** icon to open **Sharing** pane.
3. Click the **Edit...** button and specify the desired **Local Hostname**. The Hostname should be unique on your network. It is recommended to use only one word for the Hostname with no spaces.

4. Restart the SMB service. Select **Windows Sharing** in the service list. Click **Stop** and then the **Start** button.
5. Close the **System Preferences** window.

To change the Windows SMB workgroup in a Windows 95/98/Me machine:

1. Right-click on the **Network Neighborhood** icon and select **Properties**.
2. Click the **Identification** tab.
3. Set the workgroup name to match your Mac and click the **OK** button.

To change the Windows SMB workgroup in a Windows 2000 machine:

1. Click the **Start** button to open the menu.
2. Right-click on **My Computer** and select the **Properties** menu item to open the **System Properties** window.
3. Click the **Network Identification** tab in the **System Properties** window.
4. Click the **Properties** button to open the **Identification Changes** window.
5. Set workgroup name to match your Mac, and click the **OK** button.
6. Click **OK** to close the **System Properties** window.

To change the Windows SMB workgroup in a Windows XP machine:

1. Click the **Start** button to open the menu.
2. Right-click on **My Computer** and select the **Properties** menu item to open the **System Properties** window.
3. Click the **Computer Name** tab in the **System Properties** window.
4. Click the **Change...** button to open the **Computer Name Changes** window.
5. Set the workgroup name to match your Mac, and click the **OK** button.
6. Click **OK** to close the **System Properties** window.

Specifying shared folders

Once sharing is enabled and configured on both computers you need to specify shared folder(s).

To share a folder on a Windows 95/98/Me machine:

1. Open **My Computer**.
2. Right-click on drive **C** and select the **Sharing** context menu item.
3. Select the **Shared As:** radio button.
4. Click the **Full** radio button in **Access type:**, and click the **OK** button.

To share a folder on a Windows 2000 machine:

1. Open **My Computer**.
2. Right-click on the **Local Disk (C:)** and select the **Properties** menu item to open the **Properties** window.
3. Click the **Sharing** tab in the **Properties** window.
4. Click the **New Share...** button to open the **New Share** window.
5. Type **C** in the share name field.
6. Click the **Permissions...** button to open the **Permissions** for window.
7. Click the **Full Control** checkbox on, and click the **OK** button.
8. Click **OK** to close the **New Share** window.
9. Click **OK** to close the **Properties** window.

To share a folder on a Windows XP machine:

1. Click the **Start** button to open the menu.
2. Click **My Computer**.
3. Right-click on the **Local Disk (C:)** and select the **Properties** menu item to open the **Properties** window.
4. Click the **Sharing** tab in the **Properties** window.
5. Click the **New Share...** button to open the **New Share** window.
6. Type **C** in the share name field.
7. Click the **Permissions...** button to open the **Permissions** for window.
8. Click the **Full Control** checkbox on, and click the **OK** button.
9. Click **OK** to close the **New Share** window.
10. Click **OK** to close the **Properties** window.

Exchange files

Once SMB sharing is enabled, you've assigned the host and workgroup names, and specified shared folders you can exchange files between Mac OS X and a virtual computer.

To see Windows files on your Mac:

1. Open the **Network** place. Select **Network** menu item in the Finder's **Go** menu.
2. Double click on the virtual computer host name.
3. Specify the **Workgroup** name, **User** name and **Password**. Use the names and password specified in Windows.
4. Click the **OK** button.
5. In the **SMB Mount** dialog select the desired Share point from the menu and click the **OK** button.
6. The virtual computer shared folder will appears in the Mac OS X Finder as a mounted drive.

To see Mac files on a Windows 95/98/Me machine:

1. Open the **Network Neighborhood** folder.
2. Double click on the Mac computer host name.
3. Specify the **Password**. Use the password specified in your Mac.
4. Click the **OK** button.
5. The Mac shared folder appears in the window.

Important Notes:

Windows 95/98/Me do not display the user name dialog, it prompts for the password only. The user name is the name you have logged into Windows with. Thus to access Mac files you need to be logged into Windows with your Mac user name.

To see Mac files on a Windows 2000 machine:

1. Open the **My Network Places** folder.
2. Open the **Computers Near Me** folder.
3. Double click on the Mac computer host name.
4. Specify **User** name and **Password**. Use the name and password specified in your Mac.
5. Click the **OK** button.
6. The Mac shared folder appears in the window.

To see Mac files on a Windows XP machine:

1. Click the **Start** button to open the menu.
2. Click **My Computer**.
3. Click on the **My Network Places** link in the **Other Places** list.
4. Click on the **View Workgroup Computers** link in the **Network Tasks** list.
5. Specify **User** name and **Password**. Use the name and password specified in your Mac.
6. Click the **OK** button.
7. The Mac shared folder appears in the window.

Shut Down Virtual Computer

There are three different ways to shut down a virtual computer.

- **Shut Down in Windows** - safely shuts down a virtual computer closing any opened programs or files using the Shut Down option in Windows Start menu.
- **Shut Down in Guest PC** - safely shuts down a virtual computer closing any open programs or files. This option works if you have installed Guest PC additions in the Windows Virtual Computer.
- **Turn Off in Guest PC** - shuts off the virtual computer as if you had turned the power off. This is equivalent to pulling the AC power plug on a hardware computer. You can use this option if Shut Down option doesn't work or if you see the dialog that tells you "***It is now safe to turn off your computer***".

To shut down a virtual computer:

1. Select the **Shutdown...** menu item in the Action menu.
2. Click the **Shut Down** or **Turn Off** radio button.
3. Click the **Ok** button.

Resetting a virtual computer

If the operating system is not responding you can restart it as if a hardware reset button is pressed.

To reset a virtual computer:

1. Select the **Reset...** menu item in the **Action** menu, a confirmation dialog appears.
2. Click the **Reset** button.

Modifying Virtual Computer Settings

Guest PC automatically sets up all the virtual computer parameters.

You can change the following:

- The virtual computer name.
- The memory size available for a guest OS.
- Mac printer to send printing jobs from a guest OS to.
- Mac modem to connect the Internet from a guest OS.
- Mac serial port to access your serial device from a guest OS.

To modify virtual computer name:

1. Select the **Open PC** menu item in the **File** menu to open the **PC Selector** window.
2. Select the PC you want to modify.
3. Select the **PC Settings...** menu item in the **Edit** menu to open the **PC Settings** window.
4. Change the virtual computer name using the **PC name** field.
5. Click the **Save** button.

To modify virtual computer memory size:

1. Select the **Open PC** menu item in the **File** menu to open the **PC Selector** window.
2. Select the PC you want to modify.
3. Select the **PC Settings...** menu item in the **Edit** menu to open the **PC Settings** window.
4. Change the virtual computer memory size using the **PC Memory Size** menu.
5. Click the **Save** button.

To select Mac printer for the virtual computer:

1. Select the **Open PC** menu item in the **File** menu to open the **PC Selector** window.
2. Select the PC you want to modify.
3. Select the **PC Settings...** menu item in the **Edit** menu to open the **PC Settings** window.
4. Click **Extended settings** triangle button.
5. Select a printer using the **Printer** menu.
6. Click the **Save** button.

To select Mac modem for the virtual computer:

1. Select the **Open PC** menu item in the **File** menu to open the **PC Selector** window.
2. Select the PC you want to modify.
3. Select the **PC Settings...** menu item in the **Edit** menu to open the **PC Settings** window.
4. Click **Extended settings** triangle button.
5. Select a modem using the **Modem** menu.
6. Click the **Save** button.

To select Mac Serial Port for the virtual computer:

1. Select the **Open PC** menu item in the **File** menu to open the **PC Selector** window.
2. Select the PC you want to modify.
3. Select the **PC Settings...** menu item in the **Edit** menu to open the **PC Settings** window.
4. Click **Extended settings** triangle button.
5. Select a serial port using the **Serial Port** menu.
6. Click the **Save** button.

Duplicate a Virtual Computer

When you duplicate a virtual computer you are making an exact copy of the virtual computer.

To duplicate a virtual computer:

1. Make sure that the virtual computer you are duplicating has been shut down.
2. In the **Mac OS X Finder**, open your **Documents** folder and then open the **Guest PC Data** folder.
3. Select the virtual computer configuration file you want to duplicate.
4. In the **Mac OS X Finder**, select **Duplicate** from the **File** menu.
5. Change the name for the duplicated virtual computer to the name you would like to appear in the Guest PC **Open PC** Window.

Delete a Virtual Computer

When you delete a virtual computer, all data associated with this virtual computer will be lost.

To delete a virtual computer:

1. Make sure that the virtual computer you are deleting has been shut down.
2. Select the **Open PC** menu item in the **File** menu to open the **PC Selector** window.
3. Select the PC you want to delete.
4. Select the **Delete PC** menu item in the **File** menu, a confirmation dialog appears.
5. Click the **Yes** button.

Mount a virtual hard disk image on the Mac OS X desktop

To mount a virtual computer hard disk image:

1. Make sure that the virtual computer you are mounting has been shut down.
2. In the **Mac OS X Finder**, open your **Documents** folder and then open the **Guest PC Data** folder.
3. Double-click the virtual computer configuration file.
4. The virtual computer hard disk image will show up as a volume on the Mac OS X desktop.

Guest PC Additions

The Guest PC Additions provide a number of features that help to integrate a virtual computer running Windows.

- Mouse device integration
Allows you to move the mouse device freely between Windows and the Mac desktops.
- Windows shutdown enhancement
Allows you to safely shutdown Windows using the Guest PC **Shut Down** option.
- Copy-Paste enhancement
Allows you copying and pasting text between Mac OS X and Windows.
- Drag-And-Drop enhancement
Allows you dragging and dropping files between Mac OS X and Windows.

Uninstall Guest PC

To uninstall Guest PC:

- In the **Mac OS X Finder**, select the **Guest PC** application and drag it to the Trash.

This will only uninstall the Guest PC application. Your data files will not be affected.

About Virtual Computer Hardware

Each virtual computer emulates the following devices that your guest operating system can see.

Processor	• Intel Pentium Pro
Chip Set	• Standard x86 based motherboard
BIOS	• Standard motherboard PnP BIOS and VESA 2.0 BIOS
Memory	• up to 512MB physical memory
Graphics	• Emulated Cirrus Logic 5430 PCI graphic controller
Disk Controller	• Standard Dual IDE Controller
DVD-ROM	• Standard ATAPI DVD-ROM drive
Floppy Controller	• Standard Floppy Disk 1.44MB controller
Modem on COM2 port	• Standard 56K Modem connected to the Mac modem
Serial COM3 port	• Standard serial port (USB to Serial adapter or any serial device connected to the Mac)
Printer on LPT1 port	• Emulated Apple LaserWriter connected to the Mac printer
Ethernet Card	• Emulated DEC Ethernet 21040 PCI controller
Sound	• Emulated Creative Labs Sound Blaster 16
Monitor	• Emulated Samsung SyncMaster 17Gli connected to the Mac monitor
Keyboard	• Standard 101/102-key keyboard
Mouse	• Standard 3-button PS/2 mouse with Wheel support

Supported Guest Operating Systems

The operating systems listed here have been tested in Guest PC virtual computers and are officially supported.

- **Windows XP**
- **Windows 2000**
- **Windows NT 4.0**
- **Windows Me**
- **Windows 98 SE**
- **Windows 98**
- **Windows 95**
- **Windows 3.1**
- **MS-DOS**

Operating systems that are not listed have limited support in Guest PC virtual computer.

For more information about **Guest PC**, visit:

<http://www.lismoresystems.com>

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