

# Virtual PC for Mac – Version 6

## FAQ

### General Information

#### **Q. What is Virtual PC for Mac – Version 6?**

A. Version 6 is the next generation of the award-winning PC compatibility software. With Connectix Virtual PC for Mac, you can run the latest PC software - including business, entertainment, Internet, and home applications - right on your Power Mac.

#### **Q. How does Virtual PC for Mac work?**

A. Virtual PC uses a drive image file and Settings to create a functioning PC on your Macintosh. The drive image is a large, expandable file that contains a PC operating system and any PC applications you have installed or data you have created. The virtual machine drive image is the equivalent of the C or "boot" drive on a PC. As you install applications on the virtual machine and create data, the size of the drive image grows. You use Settings to control certain characteristics of the virtual machine, such as the amount of RAM in which it is allocated to run, or the assignments for the COM1 and COM2 ports.

#### **Q: I already own Virtual PC for Mac. Why should I upgrade?**

A: Version 6 is a "must have" upgrade for all Virtual PC users. Version 6 is designed for enhanced compatibility and integration between Windows and your Mac. Plus if you are running Mac OS X version 10.2.3 (Jaguar) you'll notice a significant performance increase over Virtual PC for Mac – Version 5.0.4. For a complete list of new features see the Q&A below.

#### **Q. What's new in Virtual PC for Mac – Version 6?**

A. The new features in Virtual PC 6 focus on compatibility and integration between Windows and your Mac, as well as, a significant performance increase for users running in Mac OS X version 10.2.3 (Jaguar).

These include:

- **Improved performance** – Run Version 6 in Mac OS X version 10.2.3 (Jaguar) and see a significant performance increase as compared to previous versions running in Mac OS X.
- **Dock integration** – Launch Windows applications directly from the Mac OS X dock.
- **Enhanced back-up support** – Desktop Drive Mounting in Virtual PC on Mac OS X makes it easier to back-up your Windows files. Plus you'll be able to use Mac OS Tools like, Sherlock®, to search the contents of your drive images to easily find the specific files you are looking for.
- **Improved printing** – Improved USB printing support for increased compatibility.
- **Video support for Apple's monitors including the new 23" Cinema Display flat panel** – Full screen support for resolutions up to 1920x1200 in true color.
- **Self-contained configurations** – Virtual machine data is now self-contained, which makes it easy to transfer virtual machines between Mac OSes and, if you manage a lab, installing on several machines is a snap.

**Q. What is the estimated street price of Virtual PC for Mac – Version 6?**

A. Refer to the table below:

| Version                                   | Estimated Street Price |
|-------------------------------------------|------------------------|
| Virtual PC 6 Upgrade                      | \$99 USD               |
| Virtual PC 6 <i>(includes PC-DOS)</i>     | \$129 USD              |
| Virtual PC 6 with Windows 98              | \$219 USD              |
| Virtual PC 6 with Windows 2000            | \$249 USD              |
| Virtual PC 6 with Windows XP Home         | \$219 USD              |
| Virtual PC 6 with Windows XP Professional | \$249 USD              |

**Q. Does Connectix offer volume discounts for Virtual PC for Mac?**

A. Yes. The Connectix Volume Purchase Program (CVPP) is a simple way to obtain Connectix software at a discount. Choose from the complete family of Connectix products. Purchases start at a minimum of 10 units and do not require a signed contract or a term with the purchase. For full details visit <http://www.connectix.com/shop/volume>

**Q. What is included with the Virtual PC 6 Upgrade?**

A. The Virtual PC 6 Upgrade includes the software upgrade for Virtual PC and the Virtual PC for Mac Getting Started Guide. It does not include any operating systems. You can continue to use the operating system(s) you already have in your existing Virtual PC drive image file(s).

**Q. What previous versions of Virtual PC does the Upgrade support?**

A. The Virtual PC 6 Upgrade will work with the Mac versions of Virtual PC 5.x. Owners of versions prior to version 5 should purchase a full version of the product.

**Q. Will international versions be available?**

A. Yes. Virtual PC 6 is available worldwide in English, French, German, and Japanese.

**Q. What are the system requirements for Version 6?**

A.

Mac OS 9

- Any native G3 or G4 Macintosh with a CD-ROM drive
- Mac OS 9.2.2 (or later)

Mac OS X

- Requires a minimum 500MHz native G3 or G4 Macintosh with a CD-ROM drive
- Mac OS X version 10.1.5 or 10.2.1 (Jaguar) or later.

Optimal performance requires:

- Mac OS X version 10.2.3 (Jaguar), L3 cache, NVIDIA Ge Force or ATI Radeon video card.

*Note: The exact requirements for free disk space and RAM depend of the operating systems running on a virtual machine and on your Macintosh.*

| Guest Operating System     | Free Disk Space | Minimum Physical RAM |          |
|----------------------------|-----------------|----------------------|----------|
|                            |                 | Mac OS 9             | Mac OS X |
| PC DOS                     | 260 MB          | 96 MB                | 160 MB   |
| Windows 95                 | 1 GB            | 96 MB                | 192 MB   |
| Windows 98                 | 1 GB            | 128 MB               | 192 MB   |
| Windows Me                 | 1 GB            | 160 MB               | 192 MB   |
| Windows NT 4.0 Workstation | 1 GB            | 160 MB               | 192 MB   |
| Windows 2000 Professional  | 2 GB            | 192 MB               | 256 MB   |
| Windows XP Home            | 2 GB            | 192 MB               | 256 MB   |
| Windows XP Professional    | 2 GB            | 192 MB               | 256 MB   |

**Q: What type of technical support is available for Virtual PC for Mac?**

A: To better support our customers Connectix has developed Connectix Care, a collection of services designed to offer a variety of free and fee based support options. All registered Virtual PC users can access our new online support tools at no cost. Additionally, each user gets one free incident to utilize our enhanced phone and email support. For additional information about Connectix Care visit the Connectix web site at [www.connectix.com](http://www.connectix.com).

**Q: I plan on buying a new Macintosh and will be running Virtual PC on it. Do you have any recommendations on what type of machine I should consider?**

A: The first thing that comes to most people's mind is the speed of the processor. The faster the processor, the faster applications are expected to run. That's true, but there are also other important factors to consider such as Level 2 and Level 3 cache. A machine with Level 2 or Level 3 cache will run process intensive applications like Virtual PC and Adobe PhotoShop better than a machine that doesn't have a Level 2 or Level 3 cache. Additionally, having more physical memory than the required minimum will also help the performance of the Mac OS, Virtual PC, and other applications.

**Q: What's the difference between Virtual PC for Mac and the product offered by Citrix?**

A: Virtual PC is a Macintosh software application that is installed locally on the end user's machine. With Virtual PC, users can run Windows applications directly on their Mac.

Most professional Mac users will find Virtual PC a cost-effective solution since it will run on the computer they already own and there is little to no additional hardware and software needed.

Alternatively, Citrix offers a server-based solution that enables Mac users to access Windows applications installed on a remote server. To implement this solution, a company would need the appropriate number of servers, Citrix product licenses (1 per user), Windows 2000 Server licenses (1 per server), a robust network infrastructure, and one or more system administrators.

## **Feature Descriptions & Feature-Related Questions**

### **General Feature Related Questions**

**Q. Does Virtual PC for Mac support Mac OS X?**

A: Yes. Version 6 supports both Mac OS 9.2.2 (or later) and Mac OS X version 10.1.5 and 10.2.1 (Jaguar) or later.

**Q. I want to run Virtual PC under both Mac OS 9 and Mac OS X on my computer. Does this violate my license agreement?**

A: The license agreement grants use of Virtual PC on a single machine. It is permissible to run Virtual PC under multiple operating systems on that computer.

**Q. Can I use the same drive images under both Mac OS 9 and Mac OS X?**

A: Yes. Version 6 enables you to share drive images between Mac OS 9 and Mac OS X. Instructions on how to do this are included in Virtual PC's Getting Started Guide and built-in Help.

**Q. What operating systems will Virtual PC work with?**

A: Version 6 works with Windows 95, Windows 98, Windows Me, Windows 2000, Windows NT 4.0 or later, Windows XP Home, Windows XP Professional and PC-DOS 2000. While other OSes may run on Virtual PC, Connectix does not actively support them.

**Q. Can I install my own copy of Windows?**

A. Yes. Virtual PC's built-in Help provides step-by-step instructions on installing your own licensed version of Windows. Important note: The version of Windows you install must be a retail copy of Windows. OEM copies, such as those that ship with new PCs, are designed not to install on other machines – including virtual machines like Virtual PC's.

**Q. I want to install additional operating systems for use with Virtual PC, but doing the full Windows install takes too long. Is there an easy way to accomplish this?**

A. Yes, with Connectix OS Packs. Connectix OS Packs enable you to add additional operating systems to Virtual PC without having to go through a complete installation process. OS Packs come with the operating systems pre-installed and pre-configured so you can install them onto Virtual PC with a just a few simple clicks. OS Packs are available in a wide range of Windows operating systems.

**Q. Is the Virtual PC application in Virtual PC for Mac with Windows XP Home the same as the Virtual PC application that ships without a Windows operating system?**

A. Yes. The Virtual PC application is the same regardless if it is or isn't bundled with a Windows OS.

**Q. I don't have a native G3 or G4 computer. Can I use an accelerator card with Virtual PC for Mac instead?**

A. No. This is because Mac OS X does not support upgraded PowerPC™ processors. *Note: While some accelerator cards may work with Virtual PC 6 under Mac OS 9.2.2 (or later), Connectix does not actively support them.*

**Q. Does Virtual PC for Mac take advantage of the G4 Velocity Engine (also known as AltiVec)?**

A. Yes. Virtual PC provides extensive support for the Velocity Engine in two ways. First, video display updates are handled by the Velocity Engine. Second, the Velocity Engine handles emulation of the Pentium's MMX multimedia instructions. Using the Velocity Engine improves multi-media performance for those Windows programs or drivers that utilize MMX such as Intel Video.

**Q: Can I use Virtual PC for Mac to play games on my Mac?**

A: Virtual PC does not include 3D hardware acceleration and is not a solution for playing the latest graphic intensive games. However, 2D games that do not require 3D hardware acceleration, like Scrabble, card-playing games, and many games for young children run just fine in Virtual PC.

**Q. Does Virtual PC for Mac include 3D graphic support?**

A. To date, Connectix has not added 3D acceleration support because of the complex issues involved. There are many technical obstacles to providing 3D acceleration support from within an emulator – most of them are not obvious at first glance. Connectix will be exploring the feasibility of 3D emulation in the future.

**Q. Does Virtual PC for Mac make use of MP (multi-processor) capabilities?**

A. Yes, when run under Mac OS X, Version 6 does make use of multiple processors.

**Q. Does Virtual PC for Mac support DVD-ROM?**

A. Yes. Version 6 is capable of reading DVD data. Please note that Virtual PC is not a recommended solution for playing DVD movies.

**Q. Does Virtual PC for Mac support my 23-inch Apple Cinema Display?**

A. Yes. In fact, Version 6 provides special support for the Apple Cinema Display in the form of full screen video modes tailored precisely for the display: 1920-by-1200-pixel resolution.

**Q. Does Virtual PC for Mac support CD-R or CD-RW?**

A. Virtual PC only supports reading from CD-R and CD-RW devices. Virtual PC does not support burning CD-R or CD-RW discs within Windows.

**Q. Does Virtual PC for Mac support FireWire peripherals?**

A. Virtual PC does not emulate a FireWire chip. Support for FireWire hard drives is available by using Virtual PC's folder sharing feature. Virtual PC does not support streaming video from FireWire, iLink, or IEEE-1394 video cameras.

**Q. Does Virtual PC for Mac support Apple Airport wireless networking?**

A. Yes, as long as the Airport is correctly configured on the Mac you can use it with Virtual PC.

**Q. Can I use my PDA with Virtual PC for Mac?**

A. Yes. You can connect a PDA such as a Handspring or Palm to a virtual machine and run Windows desktop synchronization software on the virtual machine.

**Q. What is Sound Blaster 16 support?**

A. Virtual PC emulates the Creative Labs Sound Blaster 16 sound card. The Sound Blaster 16 is considered a standard for PC sound. The Sound Blaster 16 provides 16-bit sound-in and sound-out capability.

**Q. Does Virtual PC for Mac support AppleScript? What parts of Virtual PC are AppleScriptable?**

A. Virtual PC provides extensive AppleScript support. Examples of scriptable actions include:

- Setting each Virtual PC preference
- Sharing folders
- Launching Windows applications
- Typing in Windows

**Q. What is the Setup Assistant?**

A. The Virtual PC Setup Assistant helps first-time users personalize Virtual PC for their use. It walks you through configuring preferences such as drive settings, modem settings, and memory allocation. It is similar to Apple's Mac OS Setup Assistant.

**Q. Does Virtual PC for Mac support Token Ring?**

A. No, Virtual PC does not support Token Ring. Virtual PC emulates an Ethernet card.

## **Questions Related to USB**

**Q. Can I use my USB device with Virtual PC for Mac?**

A. Yes. USB keyboards, mouse devices, and floppy drives connected to your Macintosh are automatically shared with a virtual machine.

To use other supported USB devices with a virtual machine, two components are required:

- Windows 98, Windows Millennium (Me), Windows 2000, or Windows XP. *Note: Windows 95, Windows NT and DOS do not support USB.*
- Windows 98/Me/2000/XP drivers for your USB device (provided by the manufacturer)

**Q. How do I use a USB device in Virtual PC for Mac?**

A. USB devices can be used either by the Mac OS or by Virtual PC but not both simultaneously. The USB devices currently attached to your Mac appear in the USB tab in the Virtual PC preferences. You select which USB devices you want Virtual PC to use. USB devices must have a Windows 98, Windows Me, Windows 2000, or Windows XP driver supplied by the device manufacturer. Mac OS-only devices are not supported. Virtual PC does not include device drivers for specific USB devices. You must install the device driver for each USB device you want to use within Virtual PC.

**Q. Can I print directly to my USB printer within Virtual PC for Mac?**

A. Yes. Installing the Windows driver for your USB printer can provide higher-quality printing. You can take advantage of the supported print resolutions of the Windows print driver.

## **Questions Related to Networking**

**Q. What is IP sharing (shared networking)?**

A. IP sharing allows Virtual PC to share a single IP address between the Mac OS and Virtual PC. Once an IP connection is established from the Mac OS, Virtual PC will use the same connection for PC networking.

**Q. What is the typical use of IP sharing?**

A. IP sharing can be used for common Internet activities like Web browsing, email, and Usenet. For example, if you're a modem user, you can dial into your ISP using the Mac dialer. You can browse the Web and check email with your Mac Internet applications. If you want to view a Web page using a Windows browser, you can simply launch Virtual PC, and open the Windows Web browser. The browser will connect using the existing connection to your ISP.

**Q. What PC operating system is required for IP sharing?**

A. IP sharing in Virtual PC is independent of the operating system running on Virtual PC. Therefore, you can use IP sharing while running Windows XP, Windows 2000, Windows Me, Windows 98, Windows 95 and Windows NT.

**Q. What is Virtual Switch?**

A. In Mac OS 9, this option provides the possibility of a fixed IP address for the virtual machine. In Mac OS X, this option lets the virtual machine become a fully functional network node that can communicate with other virtual machines running on the same Macintosh, with the host Macintosh itself, or with other computers on the network. Because of this, the Virtual Switch networking option enables your virtual machine to perform server networking tasks. Most such server networking tasks are not possible using IP sharing.