

## WINDOWS 7 & THE BOUSTEAD MODEL

The Boustead Model cannot be run directly in Windows 7. Even if it apparently loads some of the facilities are missing and the results are unpredictable and usually wrong.

Although the Boustead Model will not run directly in Windows 7, it can be run in something called “Windows XP Mode”. This is a “Virtual PC” that operates within the Windows 7 operating system. It runs concurrently with Windows 7 and can communicate with Windows 7. It is not a dual-boot system.

To set up Windows XP Mode, we strongly recommend that you have the correct edition of Windows 7. According to Microsoft, XP Mode is not supported on Home editions of Windows 7 (Starter, Home Basic, or Home Premium). It is supported and is free for users of Windows 7 Professional, Enterprise, and Ultimate.

### **Instructions for Setting Up Windows XP Mode on a Computer Running Windows 7 Professional**

1. Install any Windows 7 important or critical updates before you proceed. Click on Start – All Programs – Windows Update.
2. Take note of some details about your computer system. Click on Start, then right-click on Computer, then select Properties. This will open a window with some basic information about your computer. The Windows edition will appear near the top.
  - a. If the edition is not Windows 7 Professional or higher, we recommend that you do not proceed.
  - b. Please note whether Service Pack 1 (SP1) has been installed or not. If you do not see it mentioned within the section called “Windows edition”, then it has not been installed. You may need this information later.
  - c. Please note your system type, whether the Operating System is 16-bit, 32-bit or 64-bit.
  - d. Please verify that your copy of Windows has been activated. There should be a statement about this near the bottom of the window. If it has not been activated, you may not be able to proceed.
3. Use Microsoft Internet Explorer to go to [www.microsoft.com/windows/virtual-pc/download.aspx](http://www.microsoft.com/windows/virtual-pc/download.aspx). We were unable to get this webpage to work at all with Mozilla Firefox 4.0, and we encountered some inconvenient problems with Internet Explorer 8. You may have to do several of the steps below more than once.
  - a. Click on the box that says “Select system”. Select the appropriate combination of Windows edition and 32-bit or 64-bit for your computer, as noted in Step 1 above. Do not select the Starter or Home Premium editions.

- b. Click on the box that says "Select language". We have only tested English so far.
- c. A new section will appear, titled "Download and install Windows XP Mode". This section will contain 4 steps. Note that if you click on the "Print Instructions" link in step 1 on that page, you will probably have to start over with this webpage (unless you hold down the shift key while clicking).
- d. Click on the Download button under "Windows XP Mode". The file is 500 Mb, and may take 2 to 20 minutes to download.
  - i. A window will appear that says "Windows validation required". Click on the continue button. You should see a new window that says "Windows validation in progress". It will disappear when finished, will be replaced by a window that says "Windows validation was successful". Click on the continue button. If anything else happens, you may encounter some problems.
  - ii. You may see a message in the Information Bar near the top of your browser window that says, "To help protect your security, Internet Explorer blocked this site from downloading files to your computer. Click here for options..." If this happens, click on the bar and then select "Download File..." This will reset the webpage, and you will have to start over again. Select the system, select the language, and click on the Download button again. Go through the Windows validation process again.
  - iii. The download process should now begin, probably with a window that asks if you want to run or save the file. We recommend that you save the file and do not run it yet. The download can take between 2 minutes and 20 minutes, depending upon connection speed. With FIOS broadband and a wired Ethernet connection to the router, it was 2 minutes. A wireless connection to the router was much slower.
- e. Click on the Download button under "Windows Virtual PC". If your computer is running Windows 7 Professional 64-bit, the file should take less than 1 minute to download.
- f. We recommend caution regarding Step 4 that appears on the webpage, regarding Windows 7 SP1. It may not be needed, even if you do not have SP1 installed.
- g. Run the first file that was downloaded, for Windows XP Mode. Your computer may restart itself a few times. We recommend that you accept all defaults.
- h. Run the second file that was downloaded, for Windows Virtual PC. We recommend that you accept all defaults.
- i. Start the Windows Virtual PC with XP Mode. Click Start – All Programs – Windows Virtual PC – Windows XP Mode. Starting XP Mode for the first time will take a while.

- j. If Windows XP Mode does not appear in your Start menu as described above, then the installation failed. You may have to install Windows 7 Service Pack 1 (SP1). A Microsoft technician recommended to us that you should get expert assistance before you attempt to install this service pack, due to problems that have occurred with some computers.
- k. If XP Mode starts successfully, then you can install the Boustead Model. Insert the CD in the optical drive. If it does not run automatically, then click on Start – My Computer, and look for the CD. Double-click to open the CD and begin the installation process. You may see an error message that there is not enough disk space to install the software. Ignore this error and proceed. A similar error message may occur again. Ignore this error and proceed.
- l. If you want the XP Mode to access files and documents on the Windows 7 machine, you will find a connection to Windows 7 in Network Places.

#### References:

Wikipedia presents information with less bias than Microsoft, and may be more accurate.

Windows 7 editions: [http://en.wikipedia.org/wiki/Windows\\_7\\_editions](http://en.wikipedia.org/wiki/Windows_7_editions)

Windows Anytime Upgrade: [http://en.wikipedia.org/wiki/Windows\\_Anytime\\_Upgrade](http://en.wikipedia.org/wiki/Windows_Anytime_Upgrade)

XP Mode: [http://en.wikipedia.org/wiki/XP\\_Mode#Windows\\_XP\\_Mode](http://en.wikipedia.org/wiki/XP_Mode#Windows_XP_Mode)

Hardware-assisted virtualization: [http://en.wikipedia.org/wiki/Hardware-assisted\\_virtualization](http://en.wikipedia.org/wiki/Hardware-assisted_virtualization)

How to confirm your PC supports hardware virtualization (from Microsoft): [www.microsoft.com/windows/virtual-pc/support/configure-bios.aspx](http://www.microsoft.com/windows/virtual-pc/support/configure-bios.aspx)

End of instructions.