# VIRTUAL NETWORKING WITH "WINDOWS VIRTUAL PC"

# Summary:

"Windows Virtual PC" provides four virtual networking configurations for the virtual machines of a "Windows 7" host computer:

1. a "<u>Other</u>" gateway/router in "Windows Virtual PC" is similar to the "Shared Folders" virtual network in "Microsoft Virtual PC 2007", "VMware Player" and "Oracle VM VirtualBox":



 a "<u>Shared Networking (NAT)</u>" router with "Network Address Translation"





3. a "Bridged" bridge (with no internal LAN switching)

and



4. an "Internal Network" LAN switch

# **VIRTUAL NETWORK ADAPTERS**

You can provide up to 4 network adapters for each virtual machine:

Click on the Windows "Start" button of the host computer. Click on "All Programs".

\*

Click on "Windows Virtual PC".

Click on "Windows Virtual PC" in the sub-menu.

32-6IT kopkare.ex			
semple.dox			
🗼 ImgBurn			
1. LightScribe Direct Disc Labeling			
1. Maintenance			
🗼 Mahvarebytes' Anti-Mahvare			
Microsoft Office Tools			
Microsoft Silverlight		testuser	
1. Microsoft Works		Decomonte	
1. Online Services		Documents	
Oracle VM VirtualBox		Dicharon	
🗼 PC Help & Tools		PROPES	
Pinnacle Studio 14		Music	
Power CD+G Player Pro		T KAPIC	
L Quicken 2011		Computer	
Recovery Manager			
L Recura	11	Control Panel	
L Replay Converter			
ScanSoft OmnPage 16		Devices and Printers	
1. Startup			
Studio Plugins		Default Programs	
Synchromat			
L User Guides		Help and Support	
Whether Victoria DC			
Windows Without DC			
Windows XP Mode	ч		
and the double of the de	۲		
• Back			
Search programs and files	P	Shut down	
🔊 Start 🧮 🔏 🖭 Virtual Jäel	t		

All of your virtual machines will be displayed:



Use your right mouse button to click on the desired virtual machine:



\*

Click on "Settings" in the popup context menu:

💐 Windows Vista Busir	nesscopy - Windows Virt	ual PC Settings 📃 🗌 🗙
Windows Vista Busin Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Undo Disks DVD Drive	Current Value Current Value Windows Vista Busine 2,100 MB Windows Vista Busine None None Disabled E: None	Virtual Machine Name         Name:       Windows Vista Businesscopy         Notes:
COM2 COM2 COM2 Comparison Features Keyboard Cogon Credentials Auto Publish Close	None Network adapters:1 Auto Enable Full screen None Not Available Show message	
		This is the name of the virtual machine in your Virtual Machines folder. This name does not affect the computer name that you can assign in the virtual operating system.

#### Click on "Networking" in the left pane:

\*

🥡 Windows Vista Busir	nesscopy - Windows Virt	ual PC Settings 📃 🗌 🗙
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Undo Disks DVD Drive COM1 COM2 Networking Integration Features Keyboard Logon Credentials Auto Publish Close	Current Value Windows Vista Busine 2,100 MB Windows Vista Busine None None Disabled E: None None None None Full screen None Not Available Show message	Networking     Number of network adapters:     1     Adapter 1:     VirtualBox Host-Only Ethernet Adapter     Adapter 2:     Not connected     Adapter 3:     Not connected     Adapter 4:     Not connected
		You can use Shared Networking (NAT) or a network adapter to access an external network. Use Internal Network to communicate with other virtual machines on this computer. <u>More about networking and virtual machines</u>
		OK Cancel

Note (as shown in the right pane) that the virtual machine is allowed to have up to 4 network adapters.

Click on the drop down list button at the right-most end of any of the network adapters:

🥡 Windows Vista Busine	sscopy - Windows Virt	ual PC Settings	_ 🗆 ×
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Undo Disks DVD Drive COM1 COM2 Networking Integration Features Keyboard Logon Credentials Auto Publish Close	Current Value Windows Vista Busine 2,100 MB Windows Vista Busine None Disabled E: None None None None Note Retwork adapters: 1 Auto Enable Full screen None Not Available Show message	Networking         Number of network adapters:       1         Adapter 1:       VirtualBox Host-Only Ethernet Adapter         Adapter 1:       Not connected         Adapter 2:       Internal Network         Shared Networking (NAT)       Shared Networking (NAT)         Adapter 3:       VirtualBox Host-Only Ethernet Adapter         Internal Network       Shared Networking (NAT)         Adapter 3:       VirtualBox Host-Only Ethernet Adapter         Intel(R) 82567V-2 Gigabit Network Connection       Not connected         Adapter 4:       Not connected	
		You can use Shared Networking (NAT) or a network adapter to access a network. Use Internal Network to communicate with other virtual mach this computer. More about networking and virtual machines	an external ines on
		OK	Cancel

The virtual networks that each network adapter can attach to are:

"Not connected" ( = No connection) "Internal Network" "Shared Networking (NAT)" "VirtualBox Host-Only Ethernet Adapter "Intel(R) 82567V-2 Gigabit Network Connection

(Ignore "VirtualBox Host-Only Ethernet Adapter" since it belongs to the virtual "Host-Only" router of the "Oracle VM VirtualBox" system. Never use this virtual adapter for a "Windows Virtual PC" virtual machine.)

The "Intel(R) 82567V-2 Gigabit Network Connection" is the network adapter of the host computer. If you select this option, you will be connecting the virtual adapter of the

virtual machine to a virtual "Bridged" bridge that makes the virtual machine act like it is directly attached to the real, physical network.

A description of each of the networking configuration options in the above-mentioned drop-down list can be found at <a href="http://technet.microsoft.com/en-us/library/ee449441(WS.10">http://technet.microsoft.com/en-us/library/ee449441(WS.10</a>).aspx

The operating system of the virtual machine treats all of the virtual network adapters as if they were a real items of hardware:

For example, if you start up a "Windows Vista Business" virtual machine, go to the Windows "Control Panel", double-click on "Network and Sharing Center", and click on "Manage network connections":

In this example, the virtual machine detects that it is attached to an "Intel 2110-Based PCI Fast Ethernet" network adapter:



To change the virtual network configuration for any virtual machine while it is running, click on "Tools" in the menu bar of the virtual machine; then click on "Settings"; then click on "Network". It is okay to change the network configuration of any virtual machine while it is running:

💐 Windows	2000 Profes	ssional - Windows Virtu	ual PC		
Action 👻	Tools 👻	Ctrl+Alt+Del			• 🕥
-	Enable Int Settings	egration Features			
	Install Inte	egration Components			

剩 Windows 2000 Profess	ional - Windows Virtual P	C Settings
Setting	Current Value	
Name	Windows 2000 Profe	Virtual Machine Name
Memory	1,612 MB	
👝 Hard Disk 1	Windows 2000 Profe	Name: Windows 2000 Professional
👝 Hard Disk 2	None	Windows 2000 Proressional
👝 Hard Disk 3	None	
👝 Undo Disks	Disabled	Notes:
DVD Drive	Win98.iso	
COM1	None	
COM2	None	
Networking	Network adapters:1	
Notegration Features	Not Available	
Keyboard	Full screen	
Y Logon Credentials	None	
Auto Publish	Not Available	
Close	Show message	The virtual machine must be shut down before you can change the name. <u>How do I shut down?</u>
		This is the name of the virtual machine in your Virtual Machines folder. This name does not affect the computer name that you can assign in the virtual operating system.
		OK Cancel

Windows 2000 Professional - Windows Virtual PC Settings				
Setting Name	Current Value Windows 2000 Profe	Networking		
Memory Hard Disk 1	1,612 MB Windows 2000 Profe Nope	Number of network adapters:		
Hard Disk 3	None Disabled	Adapter 1: Intel(R) PRO/1000 MT Network Connection	⊸	
COM1	Win98.iso None	Adapter 2: Not connected		
COM2	None	Adapter 3: Not connected	<u>v</u>	
Networking Networking Logon Features Cogon Credentials Auto Publish Close	Network adapters:1 Not Available Full screen None Not Available Show message	Adapter 4: Not connected  The virtual machine must be shut down before you can add or re a network adapter. <u>How do I shut down?</u>	emove	
		You can use Shared Networking (NAT) or a network adapter to access a external network. Use Internal Network to communicate with other virtum machines on this computer. <u>More about networking and virtual machines</u> OK Ca	an ual	

🛐 Windows 2000 Professi	onal - Windows Virtual F	PC Settings	
Setting Name	Current Value Windows 2000 Profe	Ne	tworking
Hard Disk 1	Vindows 2000 Profe None	Number of net	work adapters: 1
undo Disks	Disabled	Adapter 1:	Shared Networking (NAT)
COM1	Win98.iso None	Adapter 2:	Not connected
😨 СОМ2	None	Adapter 3:	Not connected
Networking Logon Credentials Auto Publish Close	Network adapters:1 Not Available Full screen None Not Available Show message	Adapter 4: The virtual a network	Not connected
		You can use Share external network, machines on this o <u>More about netwo</u>	ed Networking (NAT) or a network adapter to access an Use Internal Network to communicate with other virtual omputer. <u>wrking and virtual machines</u> <u>OK</u> Cancel

# VIEW OF THE VIRTUAL NETWORK FROM THE HOST AND THE VIRTUAL MACHINE

From a "Windows 7" host, there is little indication that you have a virtual network that is provided by "Windows Virtual PC". This can be considered to be one of the integration features of "Windows Virtual PC". In comparison, in "VMware Player" and "Oracle VM VirtualBox", the virtual networks are shown as an "Unidentified Network" of type "Public network" in a "Windows" host:

# View your basic network information and set up connections WIN-8E7GEAR102T Network Internet WIN-8E7GEAR102T Network Internet WIN-8E7GEAR102T Network Internet Wiew your active networks Access type: Internet Weblic network Connections: Local Area Con

"Windows Virtual PC" "binds" a "Virtual PC Network Filter Driver" to the upstream ("toward the Internet") network adapter of the host computer. This is part of the "Bridged" bridge "virtual network" of "Windows Virtual PC AND the "NAT" virtual network of "Windows Virtual PC":

The "Properties" box of the upstream, real network adapter of the host computer will look like this:

ų	Local Area Connection Properties	×			
N	letworking Sharing				
	Connect using:				
	Intel(R) 82567V-2 Gigabit Network Connection				
	<u>C</u> onfigure				
	This connection uses the following items:				
	<ul> <li>Client for Microsoft Networks</li> <li>VirtualBox Bridged Networking Driver</li> <li>VMware Bridge Protocol</li> <li>Virtual PC Network Filter Driver</li> <li>QoS Packet Scheduler</li> <li>GoS Packet Scheduler</li> <li>File and Printer Sharing for Microsoft Networks</li> <li>Internet Protocol Version 6 (TCP/IPv6)</li> </ul>				
	I <u>n</u> stall <u>U</u> ninstall P <u>r</u> operties				
	Description				
	OK Cancel				

For the "Properties" box of the real upstream network adapter of the host computer, "Virtual PC Network Filter Driver" must have a checkmark if the "Bridged" bridge virtual network of "Windows Virtual PC" is used for any virtual machines. If the checkmark is not there, then the "Bridged" bridge virtual network will not have a connection to the real Local Area Network (LAN) and the virtual machines will have no connection to other real or virtual computers on the Local Area Network and the virtual machines will not have an Internet connection either.

For the "Properties" box of the real upstream network adapter of the host computer, "Virtual PC Network Filter Driver" must have a checkmark if the "NAT" ("Network Address Translation) virtual router/network of "Windows Virtual PC" is used for any virtual machines. If the checkmark is not there, then the "NAT" virtual router/network will not have a connection to the real Local Area Network (LAN) and the virtual machines will have no access to the real Internet connection.

# VIEW OF THE VIRTUAL NETWORK FROM INSIDE THE VIRTUAL MACHINE

### View your basic network information and set up connections





et	Local Area Connection Properties	
d	Networking	
	Connect using:	
÷+1	Intel 21140-Based PCI Fast Ethemet Adapter (Emulated)	
	Configure This connection uses the following items:	
	<ul> <li>Client for Microsoft Networks</li> <li>QoS Packet Scheduler</li> <li>File and Printer Sharing for Microsoft Networks</li> <li>Internet Protocol Version 6 (TCP/IPv6)</li> <li>Internet Protocol Version 4 (TCP/IPv4)</li> <li>Link-Layer Topology Discovery Mapper I/O Driver</li> <li>Link-Layer Topology Discovery Responder</li> </ul>	
	Install     Uninstall     Properties       Description     Allows your computer to access resources on a Microsoft network.	
	OK Cancel	

## **"OTHER" GATEWAY/ROUTER**

with designated target drives located on the host

with no accessible or visible network interfaces in the host or the virtual machine with no upstream routing to the Internet.

"Virtual PC Integration Components" software must be installed into each virtual machine. In a Windows host, the "Virtual PC Integration Components" software for a Windows virtual machine is located at

C:\Program Files (x86)\Windows Virtual PC\Integration Components\

Multiple virtual machines can access the same target folder on the host.

Host drive access must be configured for each virtual machine.

A "Windows" virtual machine sees a shared drive inside the "Other" phantom network. No indication in host file system that a folder is being shared.



The host computer has no access to file system of virtual machine

When you download and install the "Windows XP Mode" virtual machine "Virtual PC Integration Components" is automatically installed as a software program inside "Windows XP Mode":



The "Virtual PC Integration Components" software program is automatically installed and enabled during the installation of the "Windows XP Mode" virtual machine.

The "Virtual PC Integration Components" software program is not automatically enabled during the installation of the virtual machines that run "Windows Vista" and "Windows 7" virtual machines.

One of the "Integration Features" of "Virtual PC Integration Components" is the provision of an "Other" virtual network that provides the "Windows XP Mode" virtual machine with access to all of the drives on the host computer.

When the host drive sharing of "Integration Features" is active:

from inside a "Windows.." virtual machine, you can use "My Computer" or "Windows Explorer" to access designated host drives from the "Other" virtual router/gateway.



The virtual "Other" gateway/router of "Windows Virtual PC" is similar to the "Shared Folders" gateway/routers in "Microsoft Virtual PC 2007", "Oracle VM VirtualBox", and "VMware Player".

The "Other" virtual network feature does not depend on communications through any virtual network cards.

Like other "Integration Features", the "Other" virtual network can be controlled with the "Settings" dialog box of the virtual machine:

If the "Windows ..." virtual machine is running, click on "Tools" on the top menu bar. Then click on "Settings".

#### Then click on "Integration Features":

🖏 Windows XP Mode 2 - Windows Virtual PC Settings			- 🗆 🗡
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 2 Hard Disk 3 Undo Disks DVD Drive COM1 COM2 Networking Networking Networking Com2 Networking Logon Credentials Auto Publish Close	Current Value Windows XP Mode 2 512 MB Windows XP Mode 2 None None Disabled E: None None None None None Network adapters:1 Auto Enable Full screen Saved Enabled Hibernate	<ul> <li>Integration Features</li> <li>Integration Features</li> <li>Integration Features</li> <li>Integration Features</li> <li>Share devices and resources</li> <li>Audio</li> <li>Glipboard</li> <li>Clipboard</li> <li>Printer</li> <li>Smart cards</li> <li>Integration Features</li> <li>Integration Featur</li></ul>	
		You can specify the devices and resources of the computer that you washare with the virtual machine and virtual applications.           More about Integration Features	vant to Cancel

From the right-most pane, you can do the following:

You can select which drives on the host computer to allow the virtual machine to access. You can select to turn off all access to the hard drives of the host computer.

Click on the "OK" button when you are finished with configuring the "Other" virtual network.

#### "Shared Networking (NAT) router

with NAT service, DHCP server, and upstream routing to the Internet, This is the default virtual network that is set up by the "Windows Virtual PC" virtual machine program for the virtual network adapter of a "Windows XP Mode" virtual machine.

Host computer





Internet access from virtual machine



Virtual Machine





Local Area Connection Network, Shared Intel(R) PRO/1000 MT Desktop Adap...

"NAT" router with NAT service with DHCP server with upstream routing to the Internet (with no LAN switching between virtual machines) (with no LAN switching between the host and virtual machines) To connect a virtual network adapter to the virtual "Shared Networking (NAT)" router, use the drop-down list button to bring up a list of virtual networks. Then select "Shared Networking (NAT) from the drop-down list:

Windows Business Trial	with IE7 - Windows Virt	ual PC Settings	
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Undo Disks DVD Drive COM1 COM2 Networking Keyboard P Logon Credentials Auto Publish Close	Current Value Windows Business Tr 3,500 MB Vista Business with I None None Disabled IntegrationCompone None None Network adapters:1 Auto Enable Full screen None Not Available Show message	Networking         Number of network adapters:       1         Adapter 1:       Shared Networking (NAT)         Adapter 2:       Internal Network         Shared Networking (NAT)       Shared Networking (NAT)         Adapter 3:       VirtualBox Host-Only Ethernet Adapter         Adapter 4:       Not connected	
		You can use Shared Networking (NAT) or a network adapter to access external network. Use Internal Network to communicate with other vir machines on this computer. <u>More about networking and virtual machines</u> OK	an tual Cancel

🕼 Windows Business Trial with IE7 - Windows Virtual PC Settings			
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Undo Disks DVD Drive COM1 COM2 Networking Networking Logon Credentials Auto Publish Close	Current Value Windows Business Tr 3,500 MB Vista Business with I None Disabled IntegrationCompone None None None Network adapters:1 Auto Enable Full screen None Not Available Show message	Networking     Number of network adapters:     1     Adapter 1:     Shared Networking (NAT)     Adapter 2:     Not connected     Adapter 3:     Not connected     Adapter 4:     Not connected	
		You can use Shared Networking (NAT) or a network adapter to access an external network. Use Internal Network to communicate with other virtual machines on this computer.  More about networking and virtual machines OK Cance	:

## "Bridged" bridge

with mandatory "TEE" connection to either an upstream, real network adapter (or to an operating system-provided virtual bridge on the host such as the "Windows Network Bridge")

with no internal LAN switching

(with LAN switching between virtual machines performed by the real physical network) (with LAN switching between the host and virtual machines performed by the real physical network)

(with NAT server and DHCP server provided by the real physical network) With this virtual network option, the virtual machine(s) participate on the real physical network as "peers" with the host.

This is the default virtual network that is set up by the "Windows Virtual PC" virtual machine program for the virtual network adapter of any virtual machine that you create in "Windows Virtual PC" (with the exception of a "Windows XP Mode" virtual machine which will default to a "Shared Networking (NAT)" connection for it's virtual network adapter).

Host computer

Virtual Machine



Internet access from virtual machine Optional host folder access from virtual machine by means of Windows "File Sharing" or "Homegroups"



"Bridged" bridge provides "TEE" to a real physical physical network adapter but does not switch between virtual machines Local Area Connection Network, Shared Intel(R) PRO/1000 MT Desktop Adap...

# VIEW OF THE "BRIDGED BRIDGE" FROM THE "NETWORK ADAPTER" SCREENS OF THE HOST COMPUTER:

The "TEE" connection between the virtual "Bridged" bridge and the physical network adapter is performed by a "Virtual PC Network Filter Driver" which is configured in the "...Properties" box of the real, physical network adapter in the "Control Panel" of the host operating system:

Wireless Network Connection 11 Properties	×
Networking Sharing	_
Connect using:	
Linksys WUSB600N Wireless-N USB Network Adapter with	
, <u>C</u> onfigure	
This connection uses the following items:	
<ul> <li>Clemit for Microsoft Networks</li> <li>VMware Bridge Protocol</li> <li>Virtual Box Bridged Networking Driver</li> <li>Virtual PC Network Filter Driver</li> <li>QoS Packet Scheduler</li> <li>File and Printer Sharing for Microsoft Networks</li> <li>Internet Protocol Version 6 (TCP/IPv6)</li> <li>Internet Protocol Version 4 (TCP/IPv6)</li> </ul>	
I <u>n</u> stall <u>U</u> ninstall P <u>r</u> operties	
Description Allows your computer to access resources on a Microsoft network.	
OK Cancel	

The checkmark for "Virtual PC Network Filter Driver" means that the real upstream network adapter of the host computer is connected to the virtual "Bridged" bridge of the "Windows Virtual PC" system.

VIEW OF THE "BRIDGED BRIDGE" VIRTUAL NETWORK FROM THE "NETWORK ADAPTER" SCREENS IN THE "SETTINGS" SCREENS OF THE SPECIFIC VIRTUAL MACHINE: The real physical network provides DHCP services, upstream routing to the Internet, NAT services, LAN switching between the host and virtual machines, and LAN switching between virtual machines.

When you use the configuration screens that are provided by "Windows Virtual PC" to select the "virtual network" that a "virtual network adapter" is connected to, you will find that that the term "bridged" is not available as an option. Unlike "VMware Player" or "Oracle VM VirtualBox", you get an option that is the name of of a real, physical network adapter that is part of the host computer. In "Windows Virtual PC", if you select the real network adapter, you are then connecting the "virtual network adapter" to the virtual "bridged bridge" network that is provided by "Windows Virtual PC".

#### Reference:

http://blogs.technet.com/b/windows\_vpc/archive/2009/12/07/networking-inwindows-virtual-pc.aspx

剩 Windows Business Tria	l with IE7 - Windows Virt	ual PC Settings
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Undo Disks DVD Drive COM1 COM2 Networking Networking Logon Credentials Auto Publish Close	Current Value Windows Business Tr 3,500 MB Vista Business with I None Disabled IntegrationCompone None None None None Not Available Show message	Networking         Number of network adapters:       1         Adapter 1:       Intel(R) 82567V-2 Gigabit Network Connection         Adapter 2:       Intel(R) 82567V-2 Gigabit Network Connection         Adapter 2:       Internal Network         Adapter 3:       VirtualBox Host-Only Ethernet Adapter         Adapter 4:       Tot connected
		You can use Shared Networking (NAT) or a network adapter to access an external network. Use Internal Network to communicate with other virtual machines on this computer.           More about networking and virtual machines           OK         Cancel

🟹 Windows Business Trial with IE7 - Windows Virtual PC Settings			<u> </u>
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Hard Disk 3 Undo Disks DVD Drive COM1 COM2 Networking Networking Keyboard P Logon Credentials Auto Publish Close	Current Value Windows Business Tr 3,500 MB Vista Business with I None None Disabled IntegrationCompone None None None Note Full screen None Not Available Show message	Networking         Number of network adapters:       1         Adapter 1:       Intel(R) 82567V-2 Gigabit Network Connection         Adapter 2:       Not connected         Adapter 3:       Not connected         Adapter 4:       Not connected	4
		You can use Shared Networking (NAT) or a network adapter to access external network. Use Internal Network to communicate with other virt machines on this computer. More about networking and virtual machines OK	an tual Cancel

## "Internal Network" switch ("intnet")

with LAN switching between virtual machines with no LAN switching or routing between virtual machines and the host with no NAT server, and no upstream routing to the Internet

Host computer



No host folder access from virtual machine No internet access from virtual machine "intnet" switch with LAN switching between virtual machines Virtual Machine





Local Area Connection Network, Shared Intel(R) PRO/1000 MT Desktop Adap... To connect a virtual network adapter to the virtual "Internal Network" switch, use the drop-down list button to bring up a list of virtual networks. Then select "Internal Network" from the drop-down list:

👿 Windows Business Tria	al with IE7 - Windows Virt	ual PC Settings	<u>- 🗆 ×</u>
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 2 Hard Disk 3 Undo Disks COM1 COM2 Networking Networking Logon Credentials Auto Publish Close	Current Value Windows Business Tr 3,500 MB Vista Business with I None Disabled IntegrationCompone None None None None Network adapters:1 Auto Enable Full screen None Not Available Show message	Networking         Number of network adapters:       1         Adapter 1:       Shared Networking (NAT)         Adapter 2:       Internal Network         Shared Networking (NAT)       Shared Networking (NAT)         Adapter 3:       VirtualBox Host-Only Ethernet Adapter         Adapter 4:       Not connected	
		You can use Shared Networking (NAT) or a network adapter to access external network. Use Internal Network to communicate with other vir machines on this computer. <u>More about networking and virtual machines</u> OK	an tual Cancel

🕡 Windows Business Trial with IE7 - Windows Virtual PC Settings		
Setting Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Undo Disks VD Drive COM1 COM2 Networking Networking Networking Cogon Credentials Auto Publish Close	Current Value Windows Business Tr 3,500 MB Vista Business with I None None Disabled IntegrationCompone None None None Network adapters:1 Auto Enable Full screen None Not Available Show message	Networking     Number of network adapters:     1     Adapter 1:     Internal Network     Adapter 2:     Not connected     Adapter 3:     Not connected     Adapter 4:     Not connected
		You can use Shared Networking (NAT) or a network adapter to access an external network. Use Internal Network to communicate with other virtual machines on this computer.  More about networking and virtual machines  OK Cancel

# NETWORKING PROBLEMS AND WORKAROUNDS FOR "WINDOWS VIRTUAL PC"

See

http://aztcs.org/meeting\_notes/winhardsig/virtualmachines/WindowsVirtualPC/Ne tworkProblemsWithWVPC.pdf

## References:

http://blogs.technet.com/b/windows\_vpc/archive/2009/12/07/networking-inwindows-virtual-pc.aspx and http://blogs.technet.com/b/windows\_vpc/archive/2009/09/26/networking-andusing-windows-xp-mode.aspx