Workaround for Internet Connection Sharing (ICS) on Windows XP SP2 Systems with only one Network Interface Card (NIC) or ADSL-Cable Modem and Generic Bluetooth adapter.

Few days ago I have to install a new Bluetooth adapter on Windows XP with SP2. Every thing works great and I was just about to start the ICS and surprise ... no "check box" in my NIC properties window to tic. You probably have the same problem and until you install the original (shipped) dongle drivers the ICS is missing. In fact if you don't have second network no ICS will be available. I suppose that Windows does not take the Generic BT driver as one. I know it is not a big deal but imagine on one side you have you ADSL modem connected to the Internet and you home PC, on another you have you PDA connected to the same PC via Bluetooth. But you can't share you internet, you can't serf or send and receive mails directly form the PDA you can't even chat using MS Messenger. Well if you don't care this Tutorial is not for you else here is the workaround I implement on my network.

🕹 Local Area Connection Properties 🛛 🔹 🔀			
General Advanced			
Windows Firewall			
Protect my computer and network by limiting or preventing access to this computer from the Internet			
f you're not sure how to set these properties, use the <u>Network Setup Wizard</u> instead.			

As I told you Windows XP don't consider its Generic BT Radio Driver as a proper network (PAN). What you need is a second network card "Real One". Here I'll show you how to install a fake NIC to be able to start the ICS. Well it's the only the way I have found so far.

We are starting with opening of the new hardware wizard. To do so click on: "Start | Run..." in the Run box type hdwwiz.cpl then press Enter



Now the Add New Hardware Wizard is open. You can click "Next" button

Add Hardware Wizard

 Welcome to the Add Hardware Wizard

 This wizard helps you:

 Install software to support the hardware you add to your compute.

 Troubleshoot problems you may be having with your hardware.

 If your hardware came with an installation CD, it is recommended that you click Cancel to close this wizard and use the manufacturer's CD to install this hardware.

 To continue, click Next.

Windows is going to search for	а	Add Hardware Wizard
moment.		Please wait while the wizard searches
		This wizard is searching for hardware that has been connected to your computer recently but has not yet been installed.
		3
		< <u>B</u> ack <u>N</u> ext > Cancel
Then Tic the "Yes, I have alread	ly	Add Hardwaro Wizard
connected the hardware" and clic	ck	
"Next"		Is the hardware connected?
		Have you already connected this hardware to your computer? <u>Yes, I have already connected the hardware</u> No, I have not added the <u>h</u> ardware yet No, I want to add a <u>w</u> ireless Bluetooth device
		< <u>B</u> ack Next > Cancel
Scroll down until you see the "Ad	ld	Add Hardware Winard
<pre>a new hardware device" select i and click "Next"</pre>	.t	The following hardware is already installed on your computer
		From the list below, select an installed hardware device, then click Next to check properties or troubleshoot a problem you might be having. To add hardware not shown in the list, click "Add a new hardware device."
		Installed hardware: Standard Serial over Bluetooth link (COM5) Intel(r) Pentium(r)III processor Chrolip 8201AA USB Universal Host Controller USB Root Hub Add a new hardware device
		< <u>B</u> ack <u>N</u> ext > Cancel

Tic the "Install the hardware that I manually select from a list (Advanced)" and click "Next"

ſŀ	ne wizard can help you install other hardware
	The wizard can search for other hardware and automatically install it for you. Or, if you know exactly which hardware model you want to install, you can select it from a list.
	What do you want the wizard to do?
	O Search for and install the hardware automatically (Recommended)
	Install the hardware that I manually select from a list (Advanced)
	< <u>B</u> ack <u>N</u> ext > Cancel

In this window you have to scroll down until you see the "Network adapter" then select it and click "Next"

Add Hardware Wizard	
From the list below, select the type of hardware you are installing	
If you do not see the hardware category you want, click Show All Devices. Common <u>h</u> ardware types:	
NT Apm/Legacy Support PCMCIA adapters PCMCIA adapters PCMCIA and Flash memory devices POnts (COM & LPT) Printers ScS1 and RAID controllers Sound, video and game controllers Suptamentary devices	
< <u>B</u> ack Next >	Cancel

If in your right part (Manufacture) are more then on click on "Microsoft" then the left list is going refresh and select "Microsoft Loopback Adapter" then click "Next"

Add Hardware Wizard				
Select Network Adapter Which network adapter do you want to install?				
Click the Network Adapter that matches your hardware, then click OK. If you have an installation disk for this component, click Have Disk.				
Manufacturer Intel Microsoft	Network Adapter:			
	Wicrosoft Tun Miniport Adapter			
Image: This driver is digitally signed. Have Disk Iell me why driver signing is important Have Disk				
	< <u>Back</u> <u>N</u> ext> Cancel			

There you are. You have you "Fake Network Card" click on "Finish"

Add Hardware Wizard	
Add Hardware Wizard	Completing the Add Hardware Wizard The following hardware was installed: Microsoft Loopback Adapter Windows has finished installing the software for this device.
	To close this wizard, click Finish.
	< Back Finish Cancel

Now let's open the Network Connection Properties. Click on: Start | Run... in the Run box type **ncpa.cpl** then Enter

Network Connection open. Single click on you "Change settings of this connection" or right click on the connection and from the drop down menu select "Properties"



Then in the Local Area Connection Properties windows click on Advanced. As you can see we have managed and the Internet Connection Sharing properties are now present.

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🔟 Local Area Connection Properties 🛛 🔹 🕅	🕹 Local Area Connection Properties 🛛 🔹 💽
General Advanced	General Authentication Advanced
Connect using: Fujitsu Siemens Computers 82559-ba This connection uses the following items: Client for Microsoft Networks Client for Microsoft Networks	Windows Firewall Protect my computer and network by limiting or preventing access to this computer from the Internet Internet Internet Connection Sharing Allow other network users to connect through this computer's futurent connection
Install Uninstall Properties Description Allows your computer to access resources on a Microsoft network.	Allow other network users to control or disable the shared Internet connection Learn more about Internet Connection Sharing. Sharing.
 ✓ Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity 	If you're not sure how to set these properties, use the <u>Network Setup Wizard</u> instead.
OK Cancel	OK Cancel

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