Industrial Electronic Engineers, Inc.

Quickstart Guide
For Scanvue5

Models

ScanVue5 with color LCD
ScanVue5 with VFD
ScanVue Value+ with Blue/White LCD
ScanVue Value+ with VFD

TABLE OF CONTENTS

Introduction

This guide documents a step-by-step procedure for setting up and demonstrating a ScanVue price verifier on a local desktop or laptop computer. The network settings of your computer must be changed so that it can communicate with a factory default ScanVue5. If you need to set your computer back to its original settings, note down all the original settings before you make the changes. If your computer is already setup to operate on a private company network we suggest you talk to your IT group before performing this procedure.

Each version of the Windows operating system (98/SE/ME, 2000, XP) has its own appendix with specific setup instructions for its network settings.

ScanVue5 comes from the factory with either 'Ethernet only' or 'RF ready' option (Ethernet plus a socket for a Wi-Fi radio). Some early units were manufactured 'RF only' without an Ethernet connection. These are no longer built, however the Wireless section covers setting them up. They can be run by replacing the hub in Fig 2 with an access point. The procedure for setting up an access point is not covered in this document.

> *K **We recommended using the Ethernet connection during this setup**.*

Several programs will be installed on your computer that allow you to demonstrate the capabilities of Scanvue5 and configure the unit for your network, making use of the tools and utilities provided on the SDK CD-ROM. These programs are used to get Scanvue operational—that is connected to your computer or used for off-line configuration of production units or to demonstrate using it when connected to a server.

The utility and setup programs are on a CD-ROM supplied with ScanVue. An image of the CD-ROM programs is also available on the IEE FTP website. Appendix J of the ScanVue User Guide has instructions how to download any or all of these programs.

Industrial Electronic Engineers, Inc.

Hardware & Software required

- ♦ Laptop or desktop computer with Windows 98/SE/Me/2000/XP (Win95 is not supported)
- ♦ Hardwired or RF Ready Ethernet models:
  - ♦ network interface card (NIC card) with driver[1] installed.
  - ♦ category 5 "crossover" network patch cable (fig 1)
    OR
  - ♦ standard network patch cable and hub (fig 2).
- ♦ Wireless 802.11b Wi-Fi models:
  - ♦ wireless access point (AP) with Ethernet cable (fig 3)
- ♦ MS Windows TCP/IP[1] network protocol.
- ♦ MS Windows installation CD. When TCP/IP is changed, Windows may ask for the CD
- ♦ ScanVue5. If the model you have has pigtail connectors, an RJ45 coupler is required.
- ♦ IEE ScanVue5 SDK CDROM (IEE P/N 37720 Rev D or later)
  [1]*If these items are not already installed on your computer, have your IT dept install them for you.*

Connecting the Price Verifier

Ethernet Models

Plug the Scanvue5 power supply cable connector (DIN8F round plug) into the DIN8M connector at the rear of Scanvue5 (may be on a pigtail depending on model). Value+ models are normally powered from the system network cable (PoE) and require an external wall mount power supply when performing this procedure. The power supply must be ordered separately. **Do not plug the power supply into the wall socket yet.**

1. If you are connecting directly without a hub (fig 1), plug one end of the "crossover" patch cable into the RJ45 connector at the rear of Scanvue5 and the other end into the NIC card in your computer
   OR
   If you are using a hub (fig 2), connect a straight (not a crossover) patch cable between the hub and ScanVue5.

2. If your ScanVue has a pigtail with an RJ45 connector, use the RJ45 coupler provided to connect the network patch cable to the pigtail.
   K If a radio is installed, the bootup sequence automatically selects it and configures the unit for wireless. If your Scanvue has a radio installed you must scan the barcodes WN0000 (hardwired Ethernet) and KQ0001 (Save and Reboot) after you plug the unit in to prevent it continuously looking for an access point.
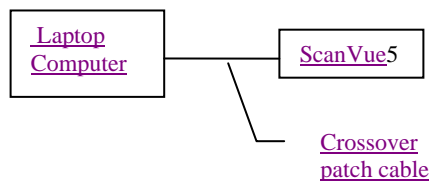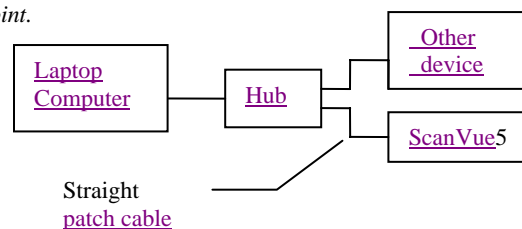
Fig 1—direct connection   Fig 2—hub connection

Industrial Electronic Engineers, Inc.

Wireless Models (ScanVue5 models only)

3. Plug the Scanvue5 power supply cable connector (DIN8F round plug) into the DIN8M connector at the rear of Scanvue5 (may be on a pigtail depending on model). **Do not plug the power supply into the wall socket yet.**

4. Connect the AP (must be 802.11b Wi-Fi) to your computer's NIC card with the patch cable (fig 3) and configure it using the manufacturers instructions. Most manufacturers access points are configured through a separate RS232 cable connected to the computer.

K The IP Address and Input Mask of the AP must be in the range of your computer and Scanvue. The ESSID of the AP and Scanvue must match (note: the ESSID is case sensitive). Recommended settings are: IP=10.0.10.13, Mask=255.255.0.0, ESSID=INSTALL
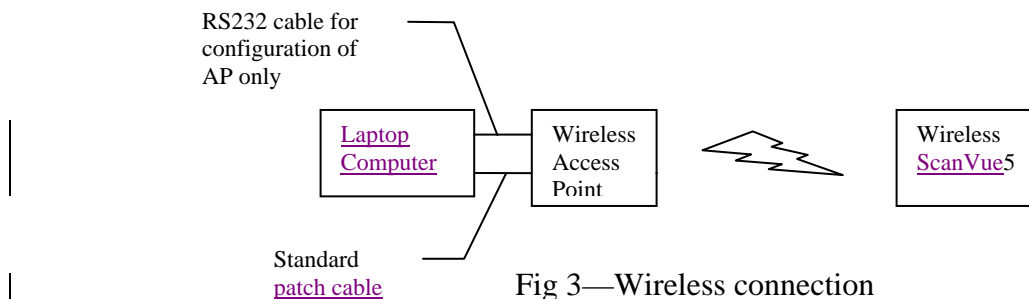
RS232 cable for
configuration of
AP only

| Laptop Computer | Wireless Access Point | | Wireless ScanVue5 |

Standard
patch cable

Fig 3—Wireless connection

Configure Your Computer's Networking

Barcodes required for unit reconfiguration can be printed from the "barcodes.pdf" file in the documentation directory of the SDK CD-ROM.

Your computer will be configured as a network server with one client. Scanvue5 comes factory set for DHCP as this is an automatic way to get IP addresses assigned from a network server when doing an installation. The unit will default to 10.0.0.227 if you don't have a DHCP server installed on your computer. If you have a radio installed, scan the "hardwired Ethernet" barcode to make the unit use Ethernet so that the radio does not connect to an access point and find a DHCP address. If there is any doubt, scan the "Unit IP 10.0.0.227" and "save and reboot" barcodes which will set Scanvue's IP Address to [10.0.0.227]. The computers networking must now be set up to communicate with this IP address.

The following appendixes have specific setup instructions for the operating system you are using.

Appendix A
Windows 98, Windows 98SE or Windows ME
**Appendix B**
Windows 2000/NT.
Appendix C

Windows XP.

Installing ScanVue5 Demo Software

1. When your computer has finished booting insert the ScanVue5 SDK CDROM.
2. Open Windows Explorer and click on the SDK CDROM icon to view the files.
3. **Dclick** on *SetupServer.exe*—the install program will start. Accept the default directory [C:\POS]. The installation program will copy all the necessary programs to run and demonstrate Scanvue5's capabilities into that directory.
4. **Dclick** on *UnitConfig.exe*—the install program will start. Accept the default directory [C:\IEE\UnitConfig] The installation program will copy the UnitConfig program into that directory. UnitConfig is a server based tool for making configuration changes to Scanvue5. Scanvue5 must be running on the network before it can be used.
5. **Dclick** on the *C:\POS* folder to open it. **Rclick** on *Demoserv.exe* and **dclick** *Create Shortcut* from the pop up menu. Drag the shortcut to the desktop.
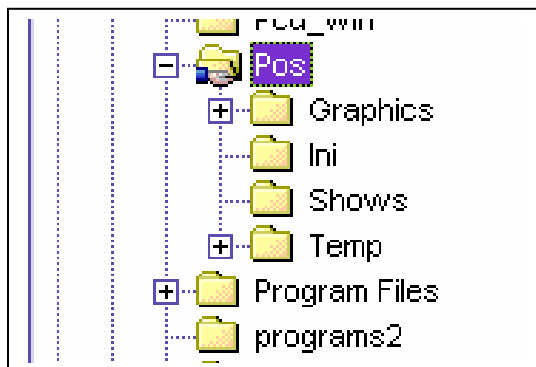
6. **Dclick** on the *C:\IEE\UnitConfig* folder to open it. **Rclick** on *UnitConfig.exe* and **dclick** *Create Shortcut* from the pop up menu. Drag the shortcut to the desktop.
7. **Rclick** on *C:\POS* folder and when the pop up box appears **Lclick** *Properties*
8. In the *pos Properties* box, Lclick the *Sharing* tab and in the window click the *Shared As* radio button. *POS* will appear in the text box.
9. **Lclick** the *Apply* button and click *Yes* on the *Sharing* message that appears. A new window *Add Users* will appear. Select *The World* and **Lclick** the **OK** button
10. **Close** the window and **close** Explorer.

Starting the ScanVue5 Demo Program

Kdemoserv must be running before Scanvue5 is powered up.

11. Restart the computer
12. **Dclick** the *Demoserv* icon—the program will load
13. Plug Scanvue5's power supply 'brick' into a power outlet.   Scanvue will start booting.

KThe screens are yellow characters on a blue background if the unit is set to hardwired Ethernet and black characters on a green background if set to wireless.

Using the Demo Programs

Demoserve (for Scanvue with V6.x software)

Demoserve emulates a server price-lookup table on your computer that exactly duplicates what an operating networked ScanVue5 running V6.x software will do. Demoserve works for both LCD and VFD displays. Two sets of barcodes are provided one for LCD displays and one for VFD displays. LCD barcodes which display multicolor images are ignored by VFD display units.

LCD displays—two status screens showing the unit settings will display for 5 seconds followed by the IEE logo and then the clock slideshow will load and continuously display.

VFD display units, three status screens showing the unit settings will display for 5 seconds followed by "Welcome to Century" then "Scan Your Item Here" which continuously displays until a barcode is scanned.

Webserve (for Scanvue with web browser software)

Webdemo is a demonstration webserver application for Scanvue running V7.15 browser software. The browser software runs only on LCD display units. When Scanvue boots, two status screens showing the unit settings will display for 5 seconds followed by the IEE logo and then the browser screen. The factory default home page URL setting will direct it to the Webdemo where it will load the home page. Scanning the demo LCD barcodes will load item pages that correspond to the items scanned.

Verifying Network Connectivity

Scanvue may not be connected to your computer if 1) the clock slideshow doesn't load and run on an LCD display unit 2) a VFD unit doesn't respond to a demo barcode scan with the correct price/description 3) the home page doesn't load on a browser unit.

☞ *If you are trying to connect on an existing network rather than a stand alone computer as show, you must make sure the IP Address assigned to ScanVue is unique. If you pick an IP that is already being used the unit will not work.*

Check connectivity by PINGing Scanvue (default IP Address 10.0.0.227) from your computer by opening a DOS box and entering the command PING 10.0.0.227 at the commend prompt.   If Scanvue doesn't respond to the PING, it isn't connected and there is a problem in your cabling or network setup.

Connectivity can also be verified by running UnitConfig (see *Changing ScanVue5 Settings* below)

Changing Scanvue5 Settings

☞ *This program will not run if ScanVue5 isn't network connected to your computer or server.*
☞ **It is not normally necessary to run this program or make any setting changes to use the demo programs**

Industrial Electronic Engineers, Inc.

1. **Dclick** on the desktop shortcut to *UnitConfig*. The program will load. Scanvue5 must be connected to the network to use *UnitConfig*
2. When the program first starts all boxes are blank. **Enter** the *IP Address* of the Scanvue5 unit in the *Unit IP Address* box.
3. **Lclick** the Read Modes button—all the Modes and their Contents (values) will be read from the unit and displayed in the table. See the User Manual in the Documentation directory on the CDROM for details of the modes and their use.
4. To change a parameter, *click* on the **New Content** box in the same row as the parameter you want to change. Enter the new value in the box and *click* the **Set Mode** button. If the value is accepted, the box and button will turn green (if it is not accepted, the box and button will turn red). *Click* on the **Commit** button to save the change to flash memory in the ScanVue unit (multiple changes can be made before clicking the commit button). After committing the changes, *click* on **Restart Unit**. The ScanVue unit will reboot with the new parameters.

Factory default network settings

IP Address:	10.0.0.227
Sub-Net Mask:	255.255.0.0
Unit ID:	ScanVue5
Username:	Guest
Windows Server:	SVSERVE
Password:	None
Windows Share:	POS

Industrial Electronic Engineers, Inc.

UnitConfig 3.3

Unit IP Address:	Set Mode	Commit	Refresh	Restart Unit	Exit
10.0.8.21					
Read Modes	Close	TextReset	SaveToFile	Help	

| Mode	Content	New Content
Version	6.19	
dateTime	20051109062307	
buildInfo	20051109141257	
productName	ScanVue	
serialNumber	999999	
unitID	ScanVue	
unitIP	(via DHCP)	
unitMask	255.255.0.0	
gatewayIP	10.0.10.13	
domain	(Not Set)	
DNS	10.0.10.13	
windowsServ	SVSERVE	
shareName	POS	
WINSserverIP	10.0.10.13	
FTPServerIP	10.0.10.13	
userName	GUEST	
password	(Not Set)	
SLOPPIHost	(Not Set)	
AlternateSLOPPI	(Not Set)	
sloppiport	1283	
SLOPPITimeout	300	

Appendix A
Configure the IP Address on your Laptop (Win98/SE/ME)

   K Note: Lclick—means left mouse button: Rclick—means right mouse button; Dclick—means double click left mouse button.
   Bold means an action; *italic* means a name

1. **Lclick** *Start,* *Settings*, *Control Panel*
2. **Dclick** *Network* icon—*Network* window pops up
3. **Lclick** *Configuration* tab
4. In the text box **Lclick** *TCP/IP*
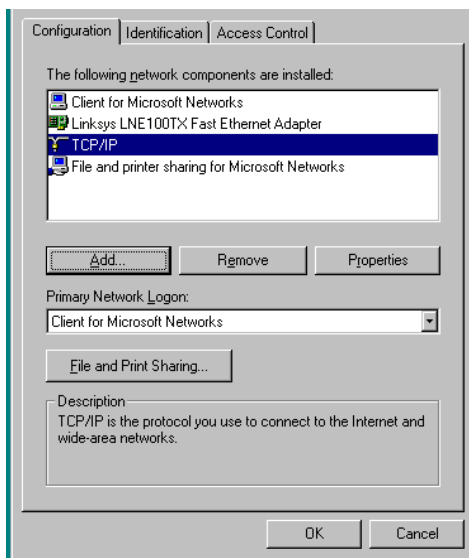
5. **Lclick** *Properties* button—*TCP/IP Properties* pops up

6. **Lclick** *IP Address* tab
7. **Lclick** *Specify an IP Address*
8. **Enter** *IP Address* 10.0.10.13
9. **Enter** *Subnet Mask* 255.255.0.0
10. **Lclick** *OK* button
11. **Lclick** *File and Printer Sharing* button
12. **Lclick** both option boxes—boxes will be checked.
13. **Lclick** *OK* button
14. **Lclick** *Identification* tab on Network window
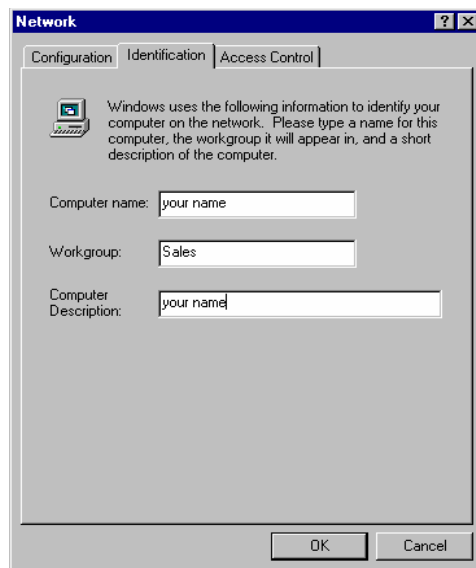
15. **Enter** *SVSERVE* in *Computer Name*. Anything can be in *Workgroup* and *Computer Description* provided it is 8 characters or less , no spaces
16. **Lclick** *Access Control* tab
17. **Lclick** *Share level access control* button
18. **Lclick** *OK* button—returns to *Control Panel*
19. **Lclick** X to close *Control Panel*
20. Restart computer to configure new network settings

Appendix B

Configure the IP Address on your Laptop (Windows 2000)

> **K** Lclick—means left mouse button: Rclick—means right mouse button; Dclick—means double click left mouse button.
> **Bold** means an action; *italic* means a name.

1. **Lclick** *Start, Settings, Control Panel.*
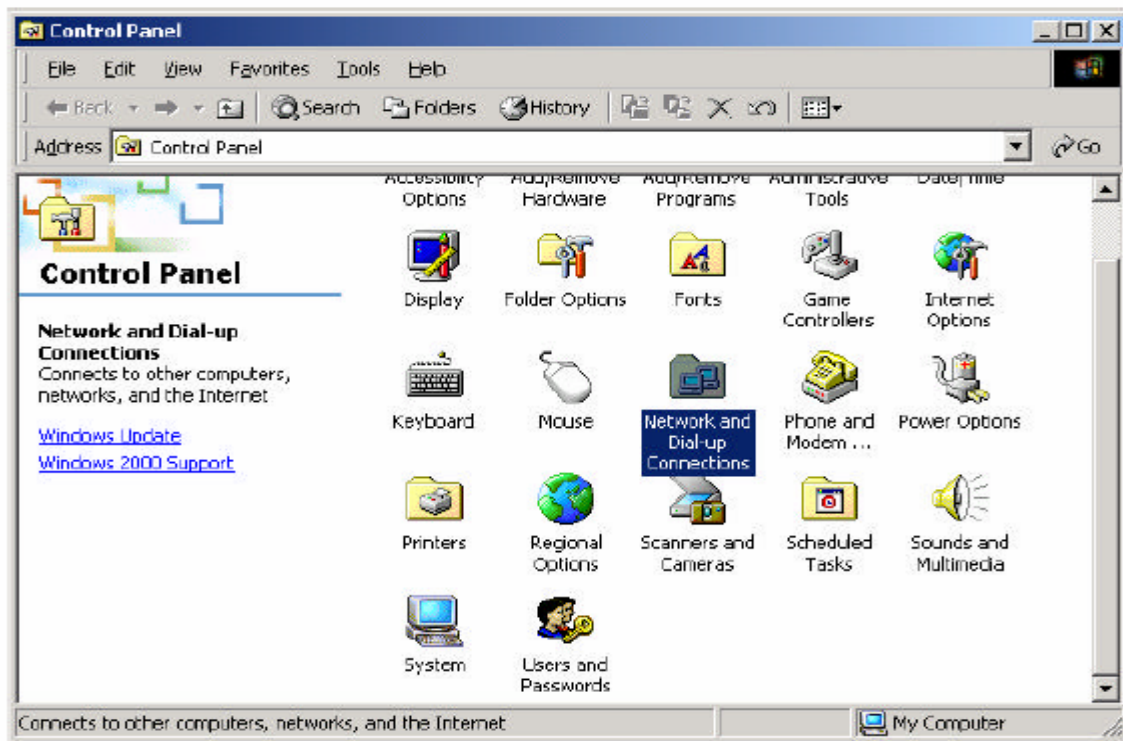
2. **Dclick** *Network and Dial-up Connections* icon—The window below pops up.
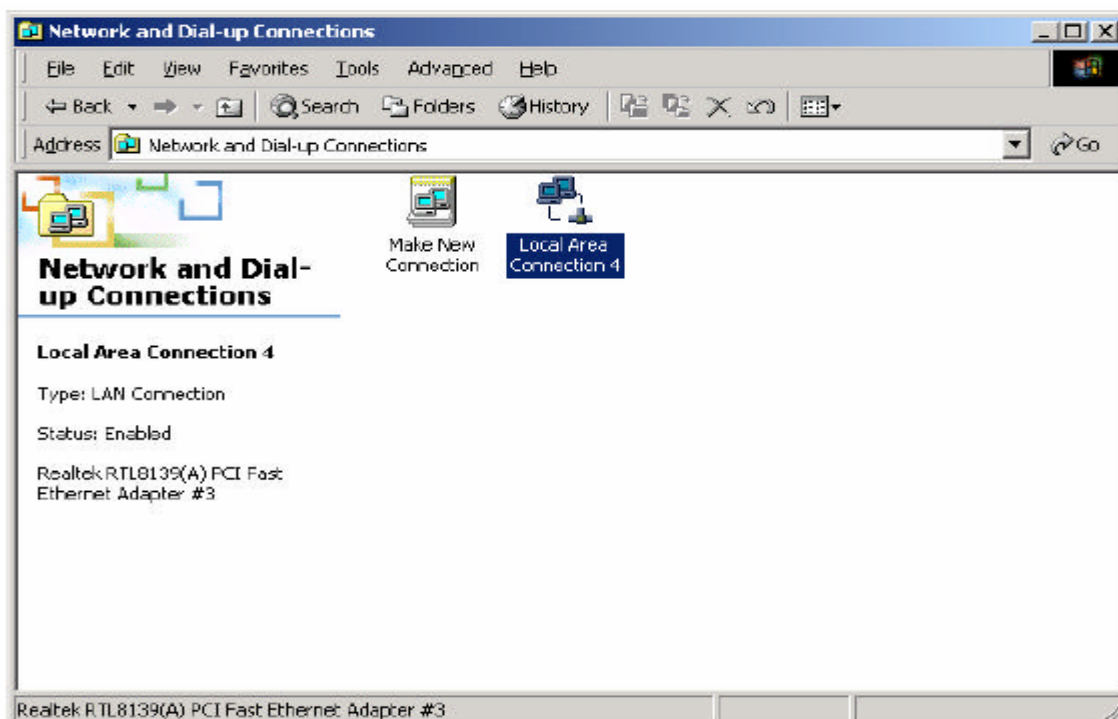
3. **Double click** *Local Area Connection* option.
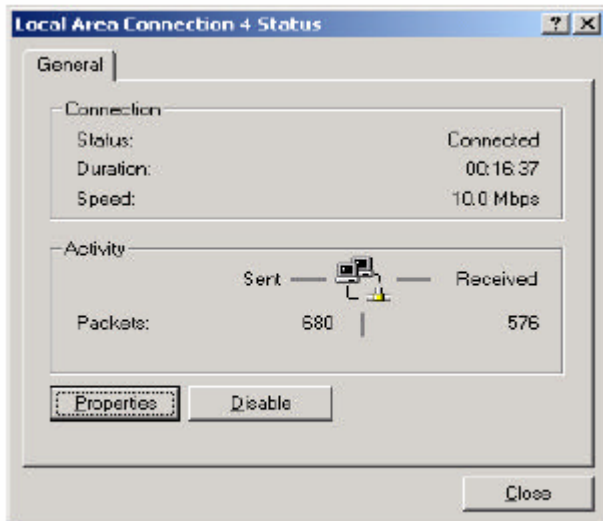
4. Then, **Lclick** *Properties* from the menu to get to the window as shown below.
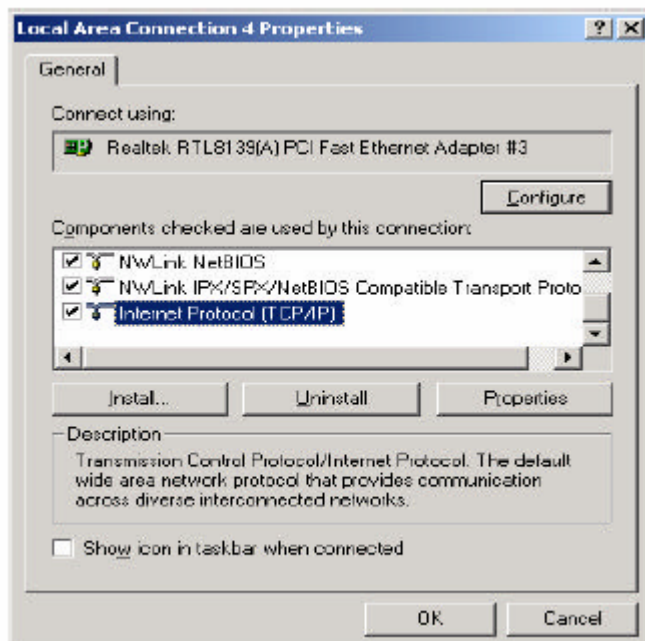
5. **Select** *Internet Protocol (TCP/IP)* then **Lclick** *Properties* tab to get to the menu shown below.

Industrial Electronic Engineers, Inc.
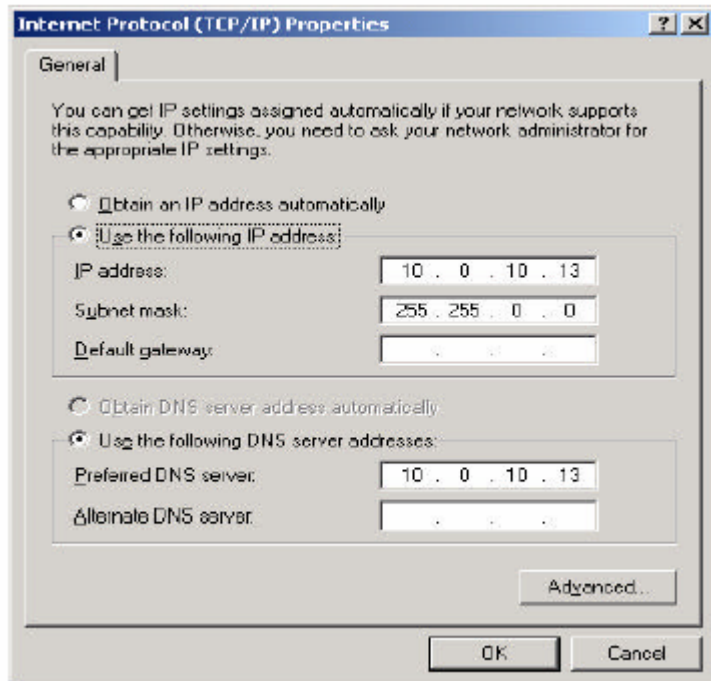
6. **Lclick** the *Use the following IP Address* radio button.
7. **Enter** *IP Address* 10.0.10.13.
8. **Enter** *Subnet Mask* 255.255.0.0.
9. **Lclick** the *Use the following DNS Server Addresses* radio button.
10. **Enter** *Prefered DNS Server* 10.0.10.13.
11. **Lclick** *Advanced* and check all the following settings to match.
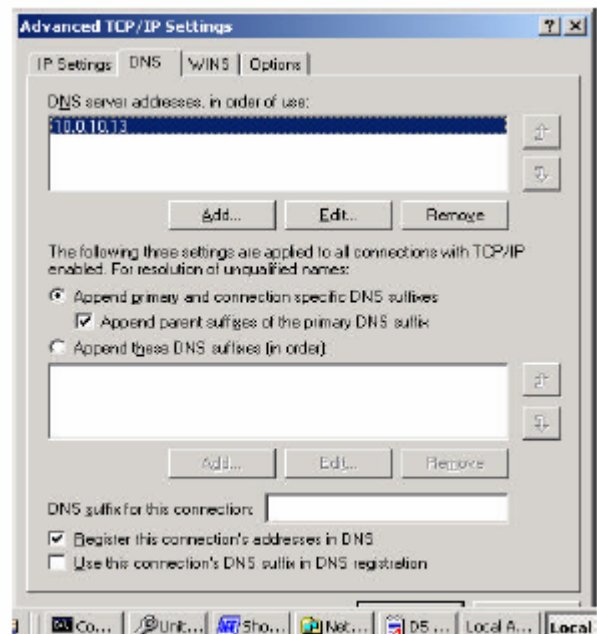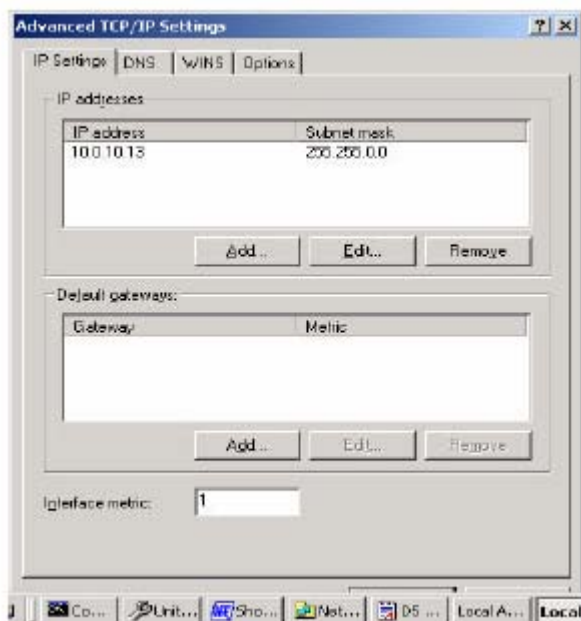
12. **Lclick** the *OK* button until the window shown below is reached.
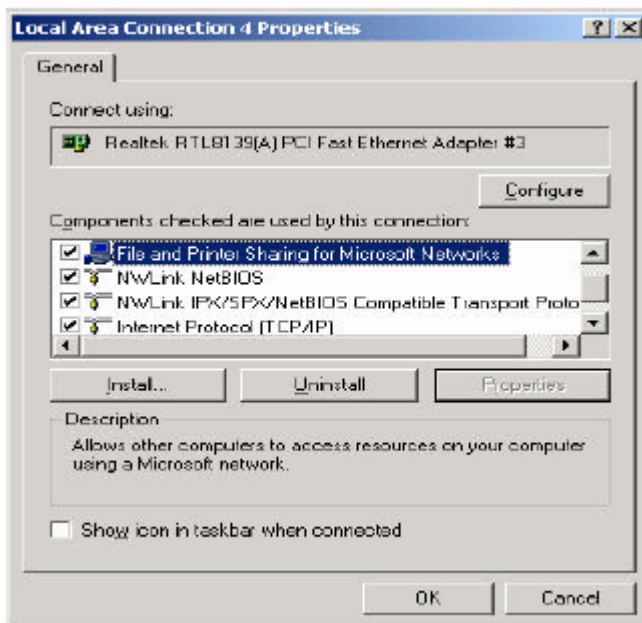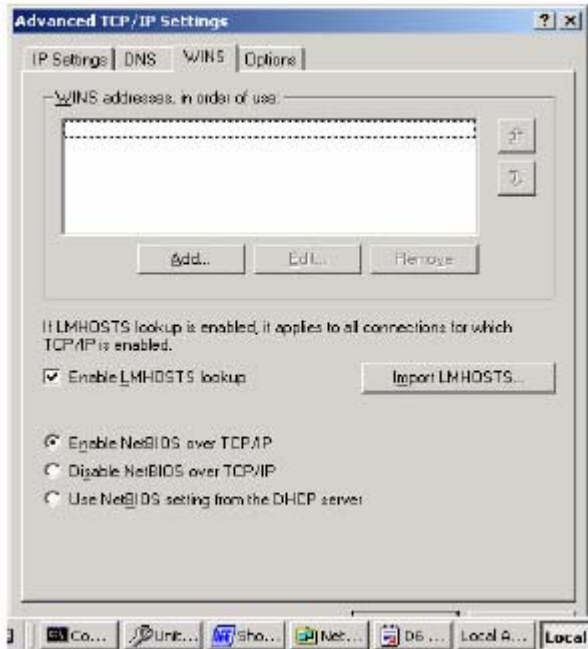
13. Make sure *File and Printer Sharing for Microsoft Networks* and *Internet Protocol (TCP/IP)* CheckBoxes are checked (**Lclick** to check).

Industrial Electronic Engineers, Inc.

14. **Lclick** the *OK* button.

15. In *Control Panel,* D**click** the *System* icon and select the *Properties* tab.
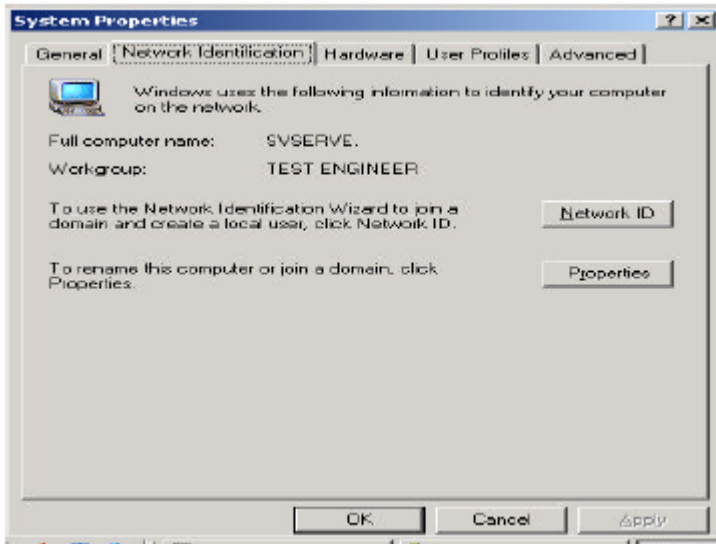
16. In the *Computer Name* TextBox, enter **SVSERVE** . The workgroup description can be anything, provided it is 8 characters or less. **Lclick** the *OK* button.
17. You will get a MessageBox note to restart the computer for changes to take effect, **Lclick** *OK* button.
18. **Lclick** *OK* button until the Control Panel window is shown.
19. **Double Click** *Administrative Tool* from Control Panel. In the next window, **Double Click** *Computer Management*.
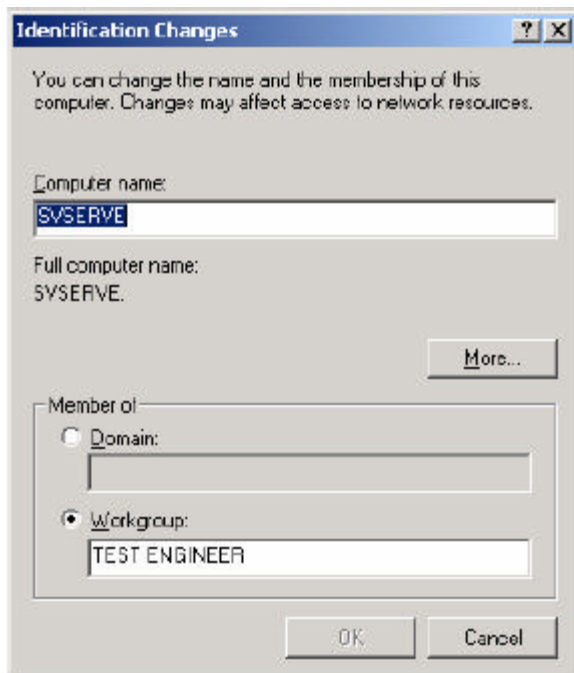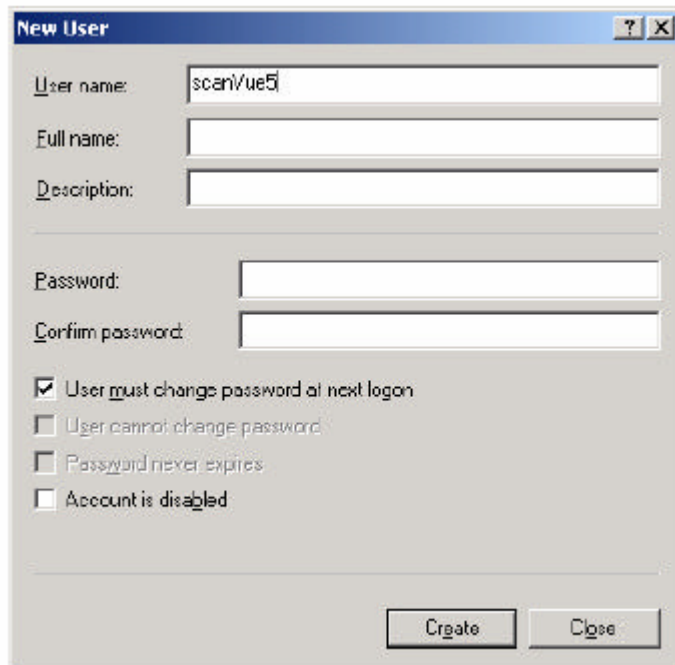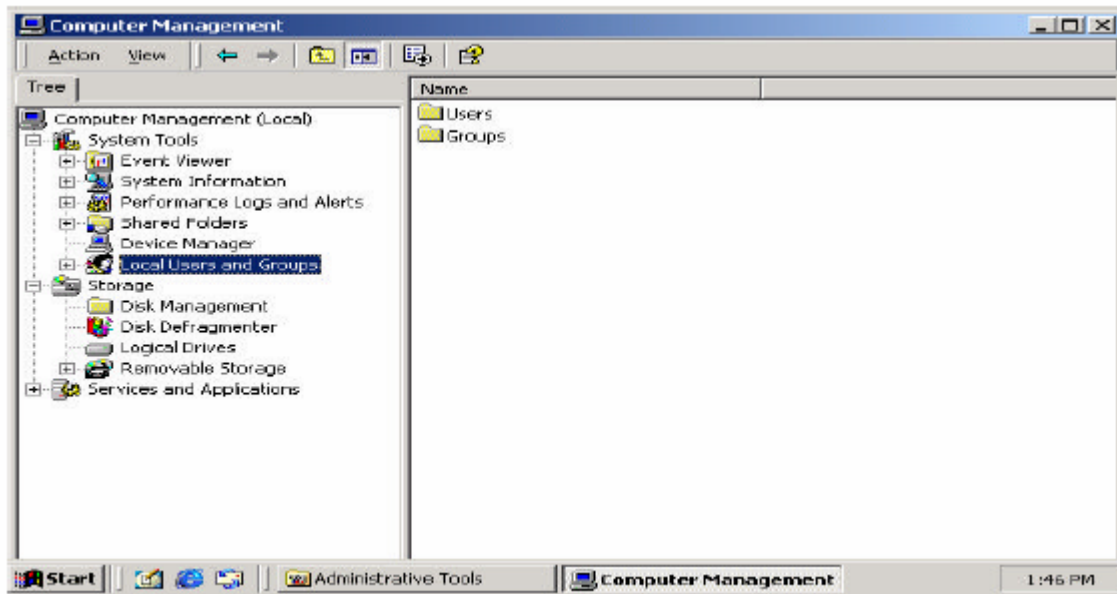
20. **Lclick** on *Local Users and Groups*. Select *Users* folder and **Rclick** and select *New User*. The following window will pop up.
21. Enter the word *RealScan5* and make sure *Account is disabled* is not checked. Click on *Create*.
22. **Dclick on** *Guest* icon and make sure *Account is disabled* is not checked. Click on *Create*.
23. Click **OK** and exit all the open windows.
24. From the Start menu, restart computer to configure new network settings.

*Industrial Electronic Engineers, Inc.*

# Appendix C
Configure the IP Address on your Laptop (Windows XP)

K Lclick—means left mouse button: Rclick—means right mouse button; Dclick—means double click left mouse button. **Bold** means an action; *italic* means a name.

1. **Lclick** *Start, Settings*, *Control Panel*.
2. **Dclick** *Network Connections* icon—*Network Connections* window pops up.

Industrial Electronic Engineers, Inc.
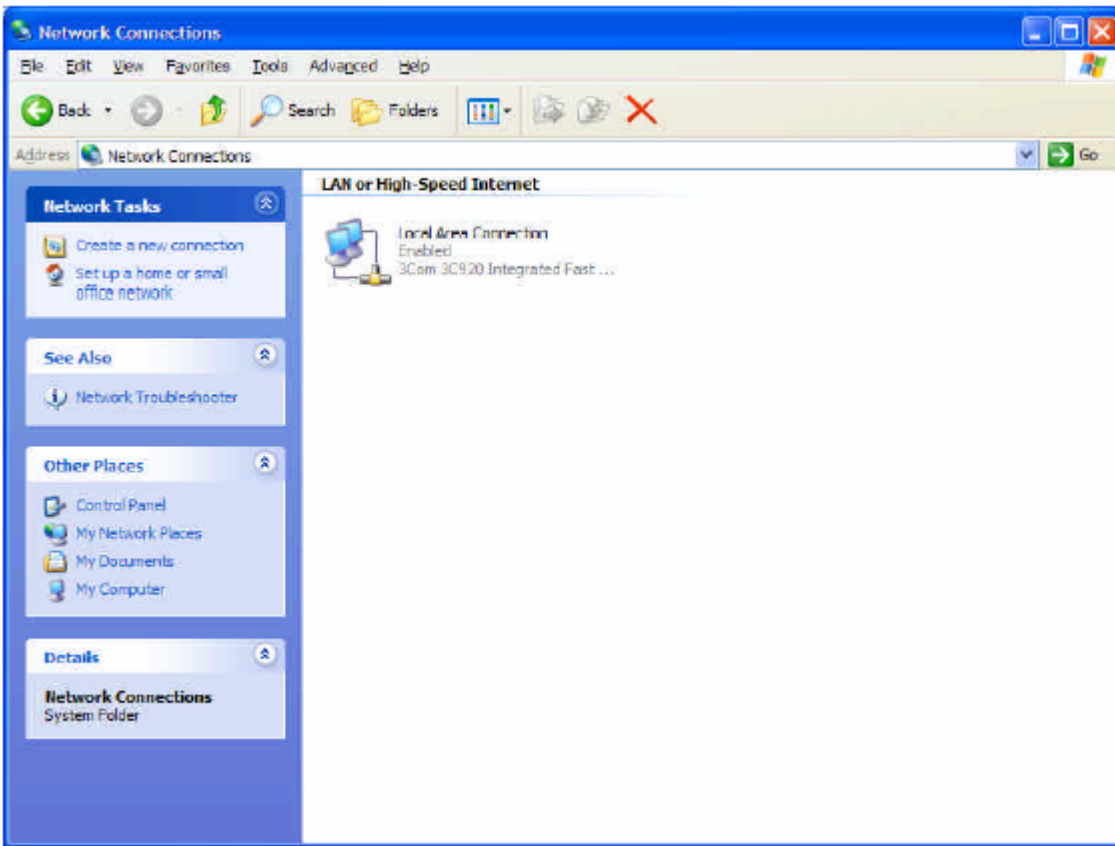
3. **Rclick** *Local Area Connection* option.
4. **Lclick** *Properties* from the pull–down menu.
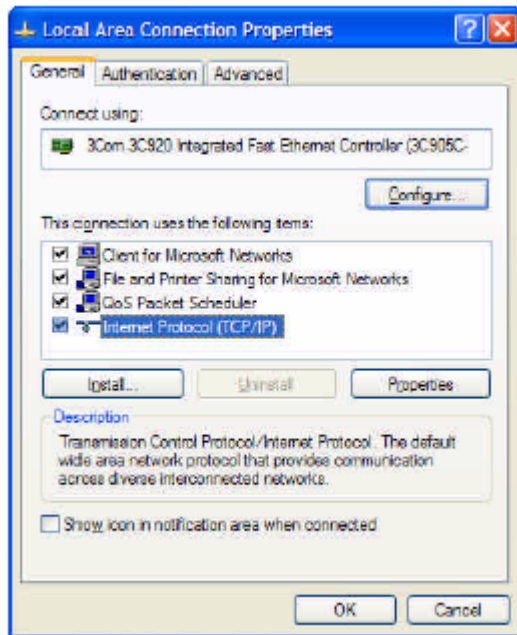
5. In the *Local Area Connection Properties* window, select the *General* tab, **Lclick** *Internet Protocol (TCP/IP)*.
6. **Lclick** *Properties* button—the *Internet Protocol (TCP/IP) Properties* window pops up.
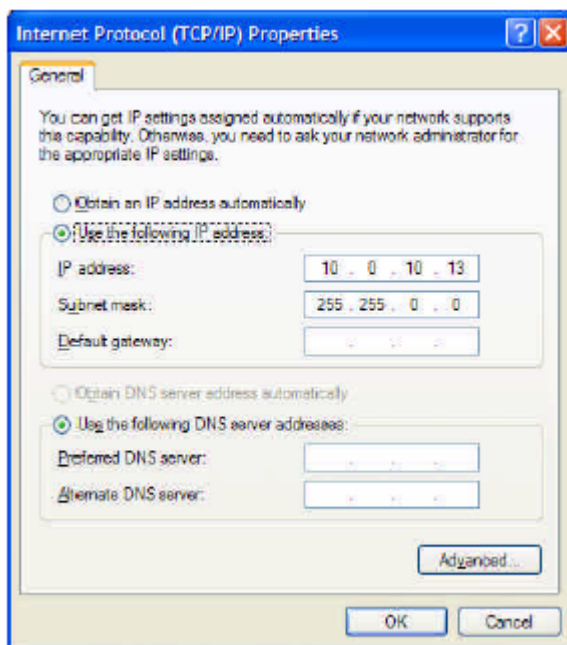
Industrial Electronic Engineers, Inc.

7. **Lclick** the *Use the following IP Address* radio button.
8. **Enter** *IP Address* 10.0.10.13.
9. **Enter** *Subnet Mask* 255.255.0.0.
10. **Lclick** the *OK* button.
11. Make sure *File and Printer Sharing for Microsoft Networks* and *Internet Protocol (TCP/IP)* CheckBoxes are checked (**Lclick** to check).
12. **Lclick** the *OK* button.
13. In *Control Panel*, **Dclick** the *System* icon and select the *Computer Name* tab.
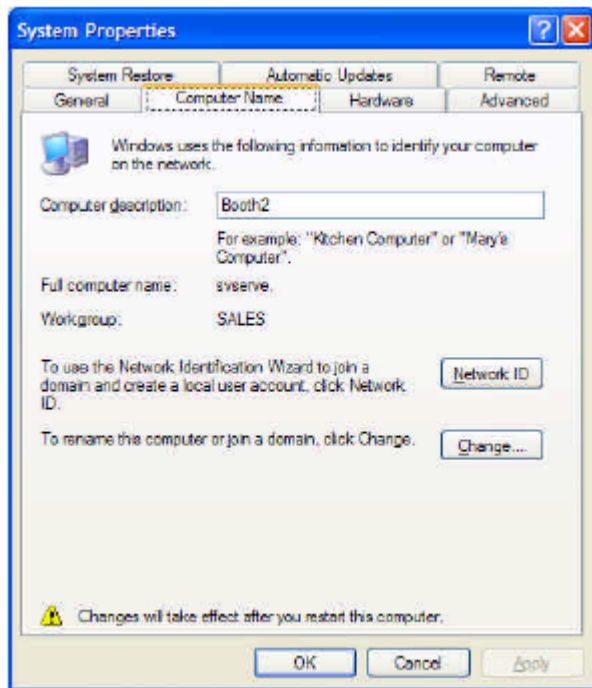

14. In the *Computer Description* TextBox, the description can be anything, provided it is 8 characters or less , no spaces.
15. **Lclick** the *Change* button.
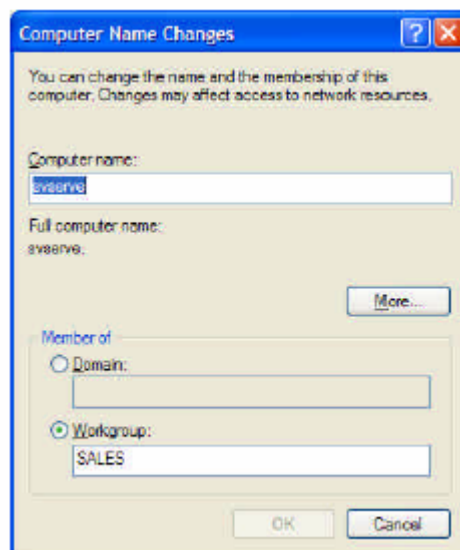
16. **Enter** SVSERVE in *Computer Name*, anything can be in *Workgroup,* provided it is 8 characters or less , no spaces.
17. **Lclick** *OK* button in *Computer Name Changes*.
18. You will get a Message Box note to restart the computer for changes to take effect, **Lclick** *OK* button.
19. **Lclick** *OK* button in *System Properties.*
20. You will get an Input Box note asking to restart the computer now, **Lclick** *No* button.
21. In *Control Panel,* **Dclick** the *User Accounts* icon.
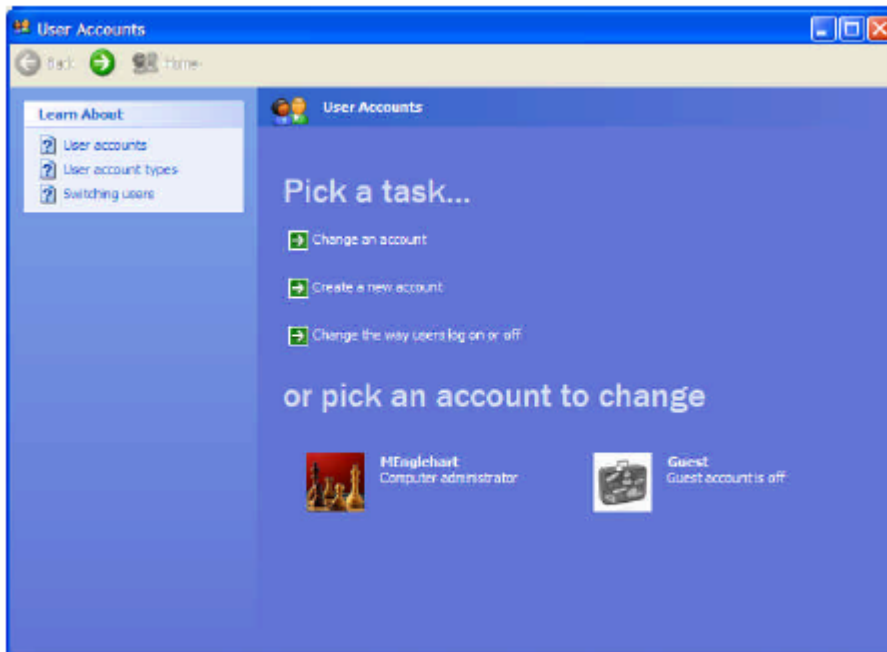
22. If the *Guest* icon says *Guest account is on*, go to step 29.
23. Or, if the *Guest* icon says *Guest account is off*, **Lclick** the icon.
24. **Lclick** the *Turn On the Guest Account* button.

Industrial Electronic Engineers, Inc.
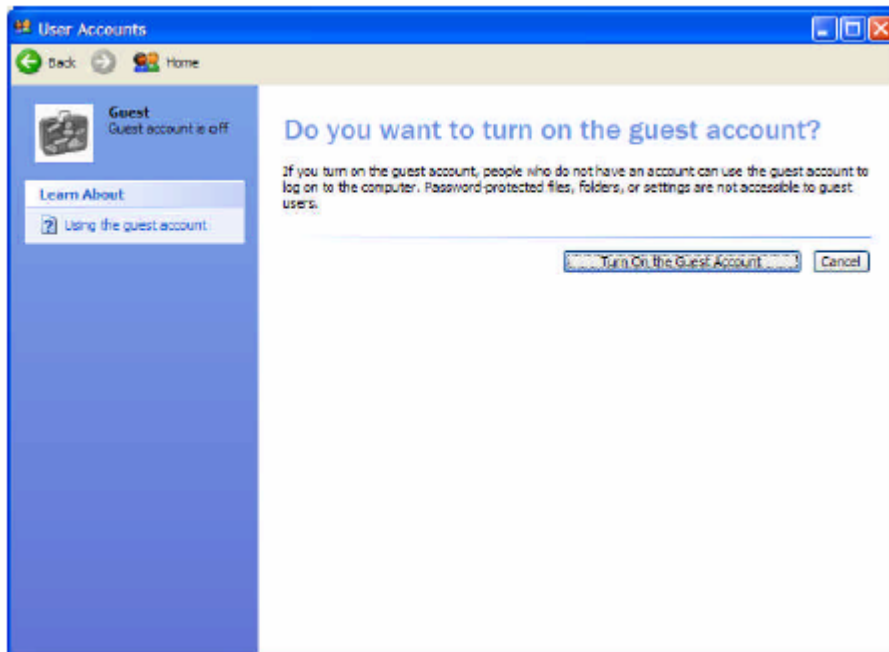
25. Close the *User Accounts* window, you are done.
26. Re-start computer to configure new network settings