COMPUTER ETHERNET IP ADDRESS MANUAL SETUP INSTRUCTION

ProMinent Fluid Controls, Inc.

Industrial Controllers

How to set a PC Ethernet port IP address for controller to PC communication

Instructions for Windows 2000, XP, Vista and Win7

There are many ways to communicate with a Prominent Industrial controller.

- For quick, simple calibrations, the keypad is best. If you wish to view graphs or monitor complete systems remotely, a network or modem connection is necessary.

- All new Industrial controllers can be configured for network communication via an Ethernet port. The Ethernet port is a standard feature on the MultiFLEX and Aegis controllers and optional on micro, Slim and ProMtrac units.

- MultiFLEX and Aegis controllers support a phone modem option.

- Any controller can be accessed via the Internet using EVDO technology. Visit our web site, **www.aquatrac.com**, select 'Support' and then 'Wireless' to get more information on EVDO.

The benefits of networking.

The benefit list includes:

- LIVE VIEWS: See the whole system at a glance. Customize a view to fit your needs.
- Download process data, create historical graphs to help visualize and control the application.
- Monitor and control processes from five feet away or from anywhere in the world.
- Share the connection with anyone on the Internet.
- Simplify program edits rather than using the keypad.
- Connect with or without our Trackster 3 software. (Trackster is required for modem connections)

Connecting with a Browser - Remotely

Your Browser can connect to a networked controller in two ways; directly or remotely. A remote connection can be accomplished by obtaining the IP address of the controller from the customers IT department or from the controller. You will not be able to connect remotely if the IT department does not allow your PC to access their plant and you do not have a EVDO connection. If permitted, open your favorite web browser and connect to the internet. Enter the IP address, as shown here (**1**).
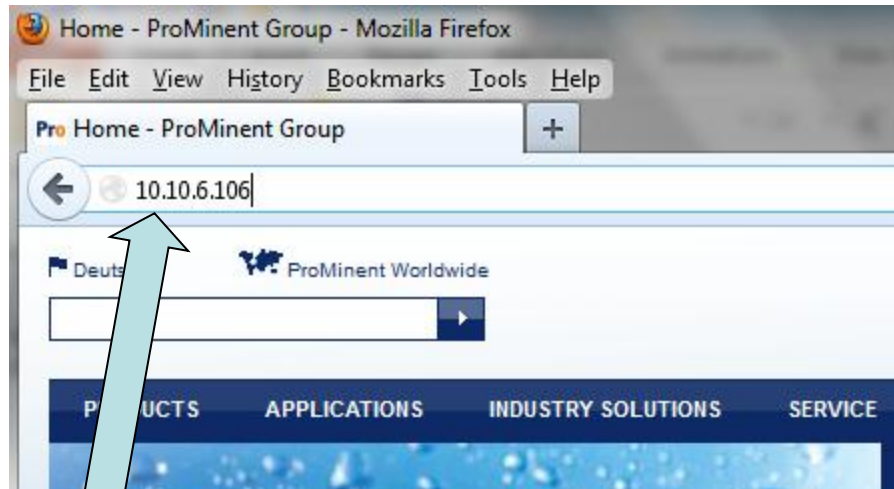
If using this remote connection, skip the following Local Connection sections.

Connecting with a Trackster or a Browser - Remotely

Cut and paste any IP address below into your Browser address box to connect to Industrial demo controllers. (You do not need to precede the IP addresses with 'www' or '.com')

- Aegis address   Browser   **http://controller.prominent.us:1008**
                                   Trackster 3   **http://controller.prominent.us:1008**

MultiFLEX
-   Unit A   Browser   **http://controller.prominent.us:1000**
                                 Trackster   **http://controller.prominent.us:1001**

-   Unit B   Browser   **http://controller.prominent.us:1002**
-                       Trackster 3   **http://controller.prominent.us:1003**

- Aquatics DCM500   Browser   **http://controller.prominent.us:1010**
                                 Trackster 3   **http://controller.prominent.us:1010**

- Aquatics DCM200   Browser   **http://controller.prominent.us:1011**

Connecting with a Trackster or a Browser - Remotely

Cut and paste any IP address below into your Browser address box to connect to Industrial demo controllers. (You do not need to precede the IP addresses with 'www' or '.com')

- MicroFLEX Tower   Browser   **http://controller.prominent.us:1004**
              Boiler   Browser   **http://controller.prominent.us:1005**

- SlimFLEX   Tower   Browser   **http://controller.prominent.us:1007**

Local connection

How to configure your PC

In order to establish a local connection with a controller, you will need to physically connect the pc to the controller with an Ethernet CAT5 crossover cable. (VISTA and WIN7 systems will work with either a crossover or standard cable). The Ethernet port on the controller is located on the 'core' board located just below the display on most models.

Next, set up the PC's IP address:

A. Determine the controller IP address and subnet mask

B. Configure the TCP/IP address on your PC's network connections

C. Connect PC to controller using a CAT5 Crossover Ethernet cable

D. When finished, return your TCP/IP address to automatic

A   Determine the IP and subnet mask – **MultiFLEX Example**

Use the MultiFLEX key-panel, on the front of the controller, to access this information

Escape

Press the **Escape** button to move to the top menu. Press the key repeatedly, until the screen no longer changes. You are now in the main menu

Press the **Up** arrow button until you see the cursor   next to the System data line.

`System:2004-01-03`

Press the **Enter** key to invoke the system menu

Press the **Down** arrow to move the cursor to the **LAN Setup** menu and press **Enter**

Make note of the IP address shown and press the **Down** arrow to view the subnet mask

Consult controller manual or Take 5 Quick Start guide to locate IP address of other controllers.

Local connection
Step A

A   Determine the IP and subnet mask – **Aegis Example**

Use the Aegis key-panel, on the front of the controller, to access this information

Escape

Press the **Escape** button to move to the top menu. Press the key repeatedly, until the screen no longer changes. You are now in the main menu

Press the **Up** arrow button until you see the System/Date line. The current day, time and serial number are visible.

Enter

Press the **Enter** key to invoke the system menu

Press the **Down** arrow to move the cursor to the **COMMUNICATE** and press **Enter**

Make note of the IP address shown and press the **Down** arrow to view the subnet mask.

Consult controller manual or Quick Start guide to locate IP address of other controllers.

The next four slides depict the method used to set up the IP address on a PC using XP or Windows 2000 operating system. Instructions for VISTA and Windows 7 follow.
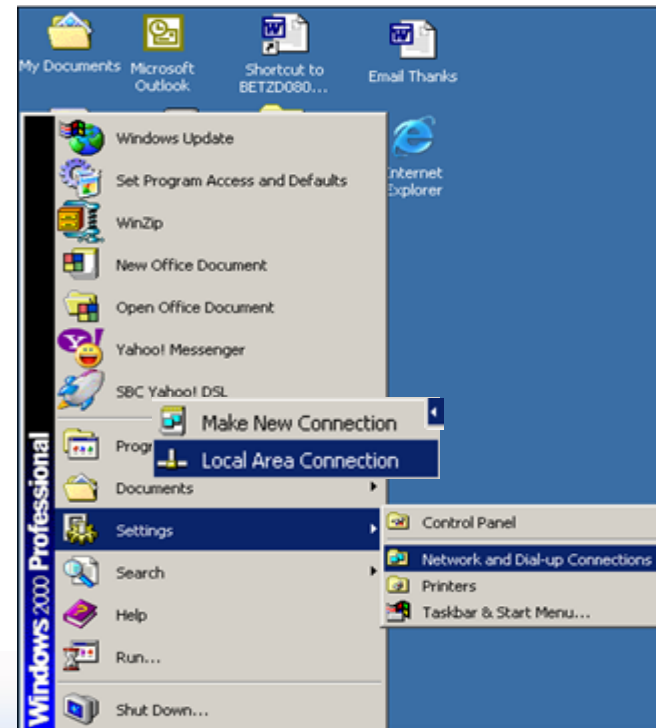
Local connection
Step B1 - XP/ 2000

WINDOWS XP PROFESSIONAL

WINDOWS 2000

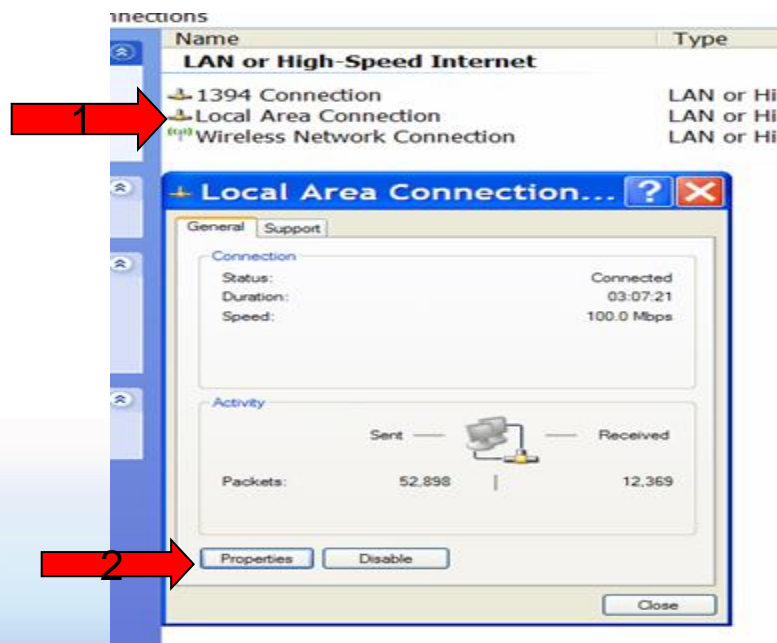Select Start, Connect to, Show all connections

Select Start, Settings, Network and Dial-up Connections, Local Area Connections

Local connection
Step B2 – **XP/ 2000**

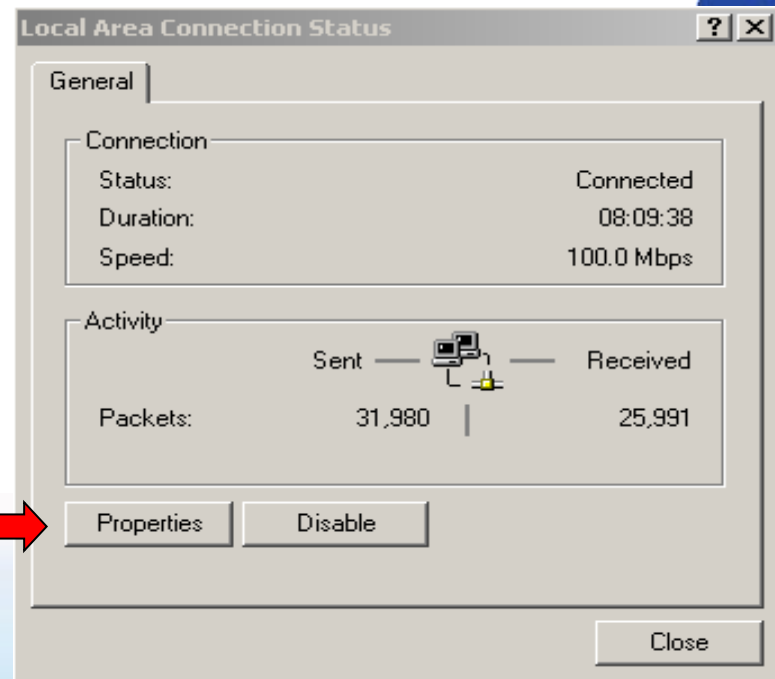WINDOWS XP PROFESSIONAL

WINDOWS 2000

Double click on Local Area
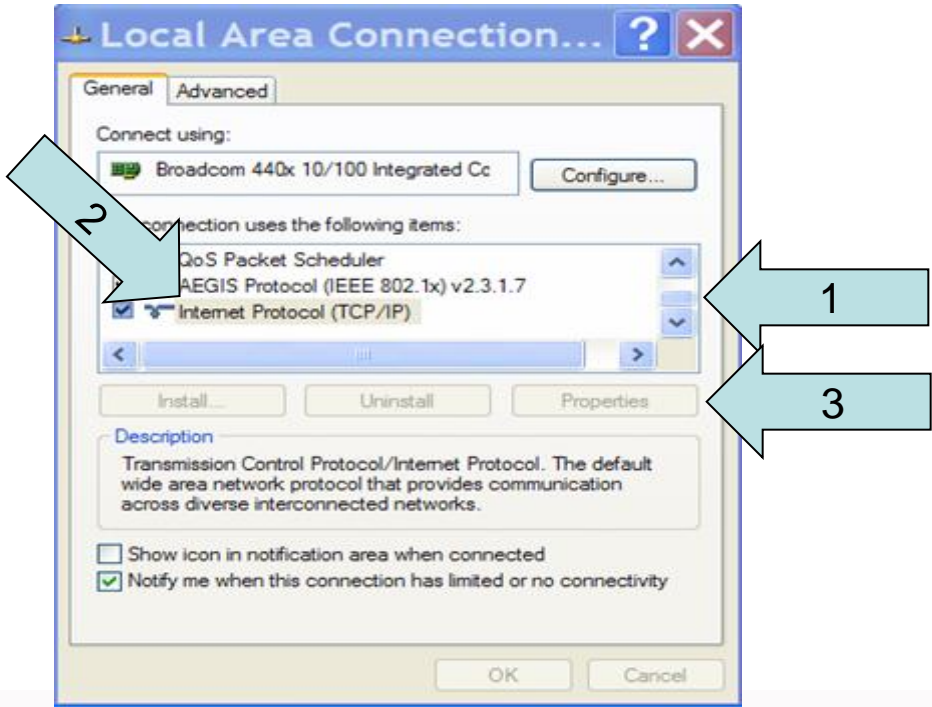Connection (1) and select Properties
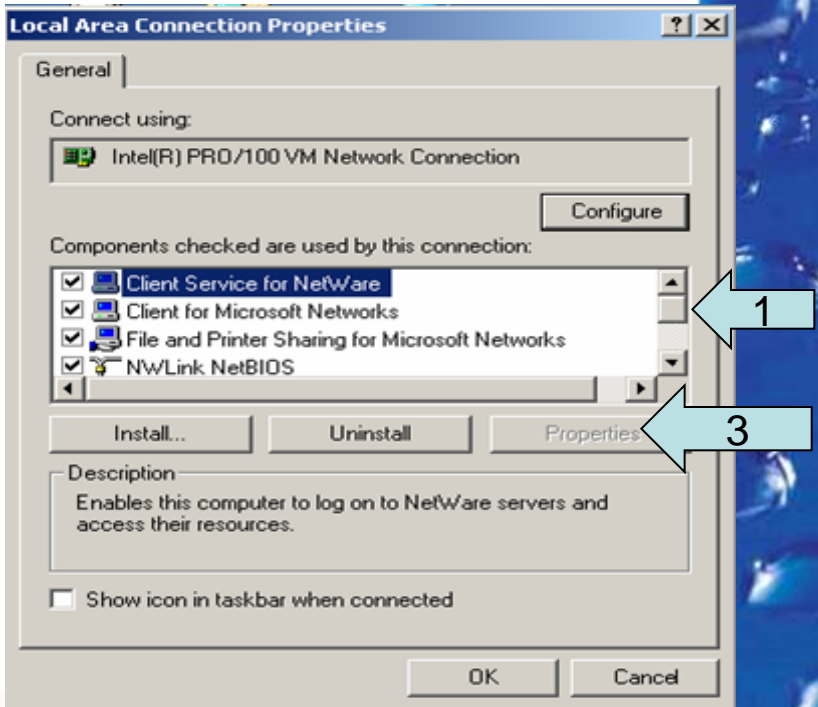(2) from the pop-up window

Select 'Properties'

WINDOWS XP PROFESSIONAL

WINDOWS 2000

Pull down the slide bar (1) until Internet Protocol (TCP/IP) appears and highlight this item. (2)

Select Properties (3)
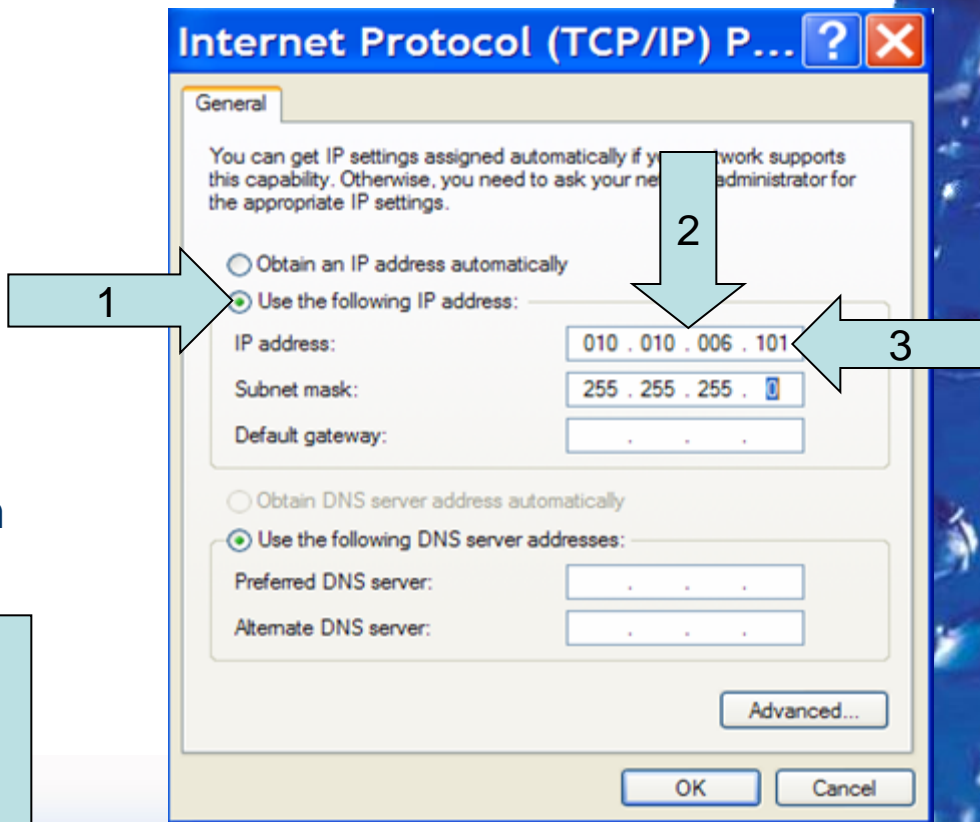
Local connection
Step B4 - **XP/ 2000**

Select the 'Use the following IP address': circle (1)

Enter the first three numbers of the controller's IP address (2)

Example: 010.010.006.___

Then enter a number between 000 and 255 that is different from the controller address

In this example, since the controller IP is 010.010.006.106, we used 010.010.006.101 (3)

Internet Protocol (TCP/IP) P... ? X

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically

1 →

⦿ Use the following IP address:

2 ↓

IP address: 010 . 010 . 006 . 101 ← 3

Subnet mask: 255 . 255 . 255 . 0

Default gateway:

○ Obtain DNS server address automatically

⦿ Use the following DNS server addresses:

Preferred DNS server:

Alternate DNS server:

Advanced...

OK   Cancel

Press the Tab key and enter the Subnet mask of 255.255.255.0

Select OK here and on the Local Area Connection window

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Press Start, then select Run
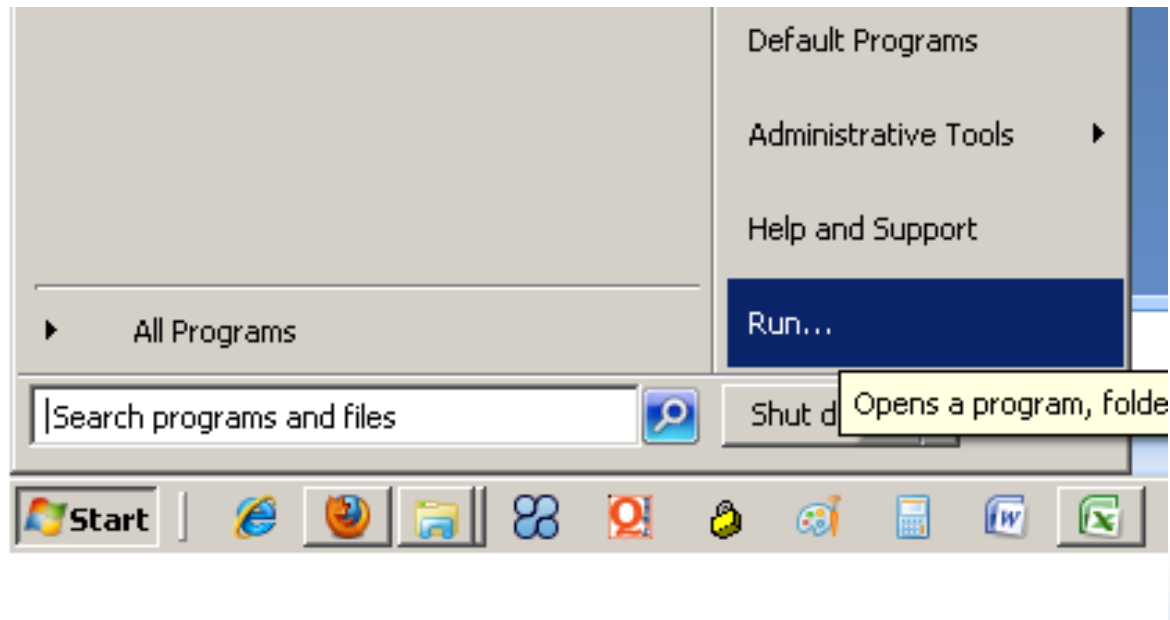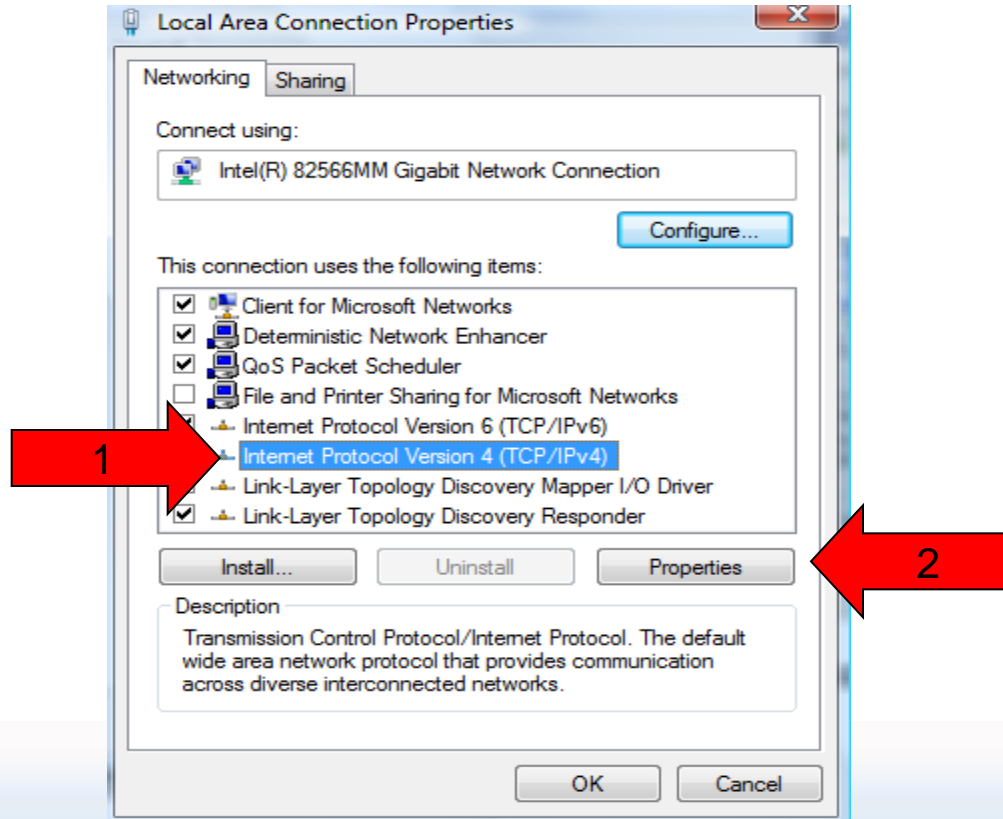
Enter 'ncpa.cpl in the Open box. Press OK.
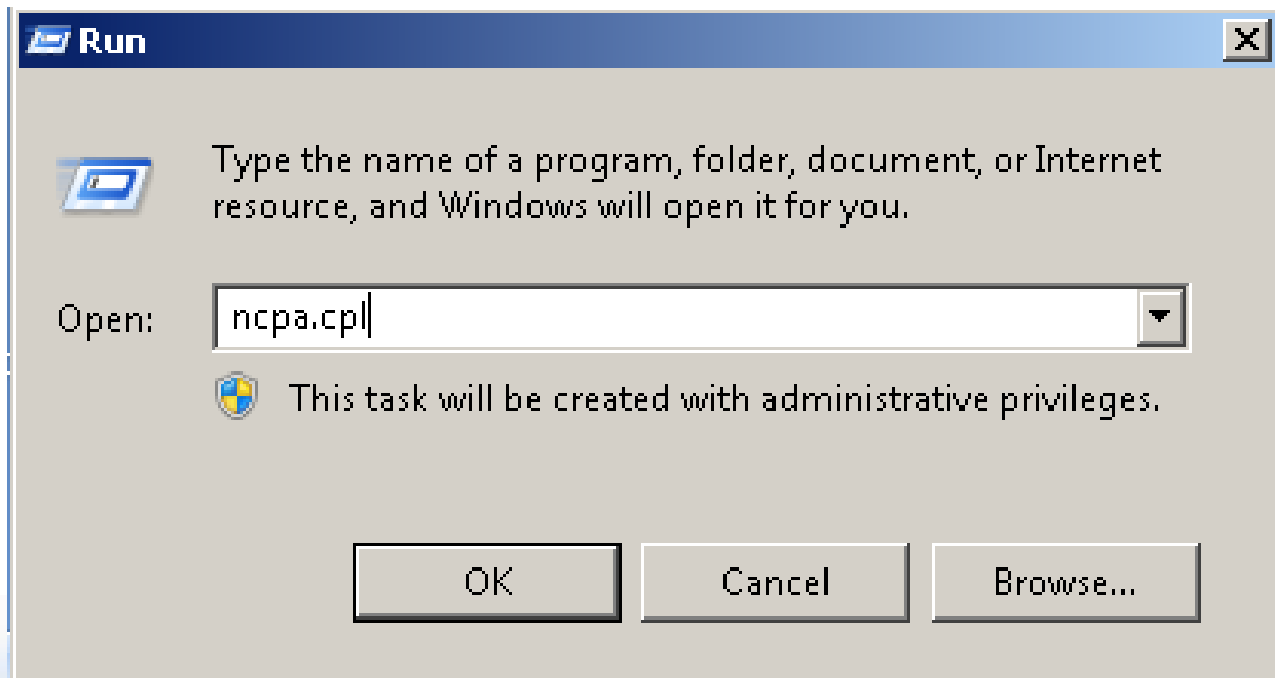
Double click on **Local Area Connection** and select **Properties**
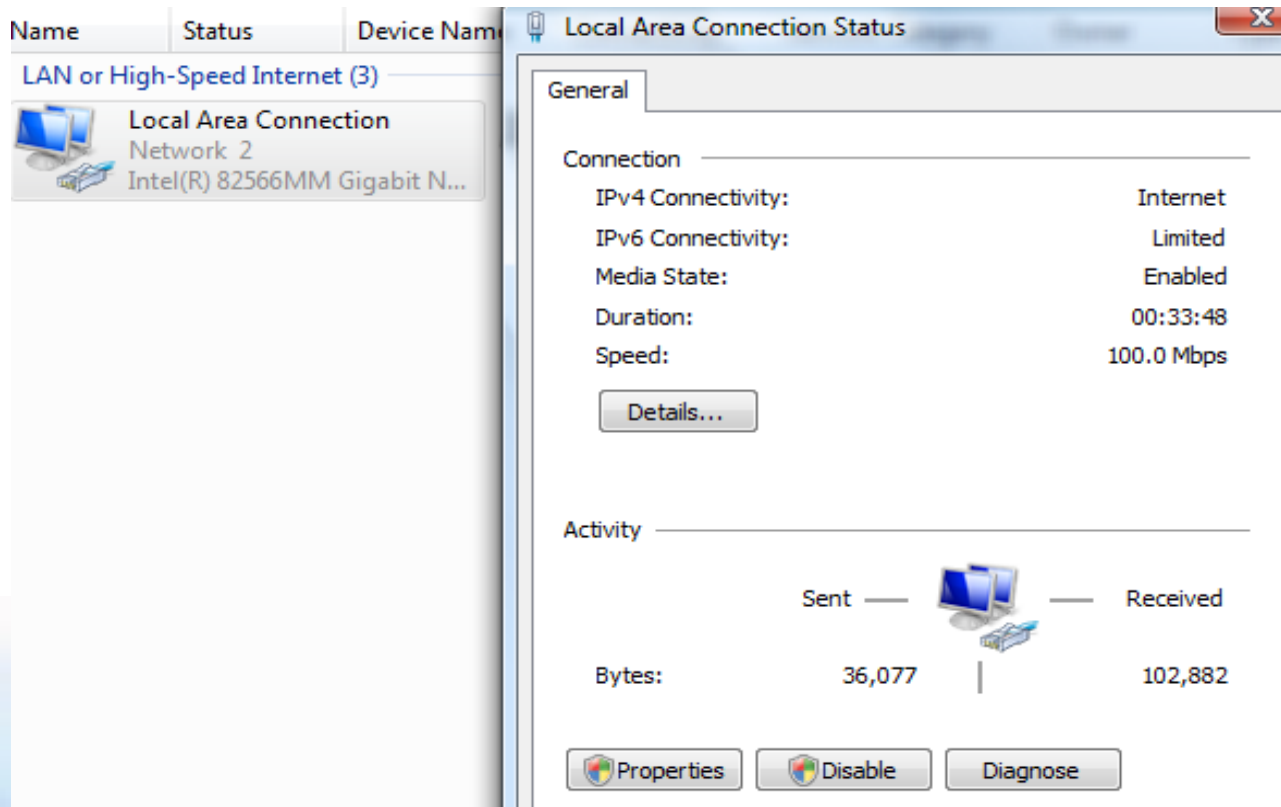
Local connection
Step B4 - **VISTA / Win7**

(1) Highlight Internet Protocol **Version 4** (TCP/IPv4)
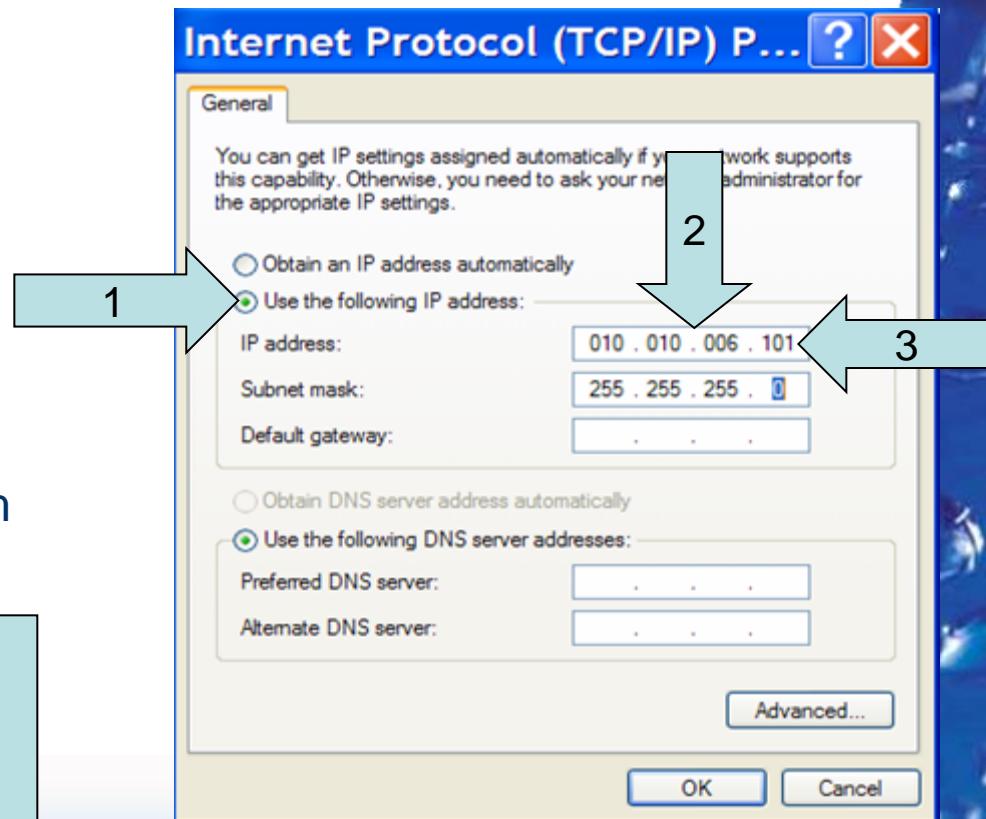
(2)Select Properties

ProMinent®

Select the 'Use the following IP address': circle (1)

Enter the first three numbers of the controller's IP address (2)

Example: 010.010.006.___

Then enter a number between 000 and 255 that is different from the controller address

In this example, since the controller IP is 010.010.006.106, we used 010.010.006.101 (3)

Press the Tab key and enter the Subnet mask of 255.255.255.0

Select OK here and on the Local Area Connection window

Internet Protocol (TCP/IP) P...

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically

1 ● Use the following IP address:

IP address: 010 . 010 . 006 . 101   **3**

Subnet mask: 255 . 255 . 255 . 0

Default gateway:

○ Obtain DNS server address automatically

● Use the following DNS server addresses:

Preferred DNS server:

Alternate DNS server:

Advanced...

OK   Cancel

2

Connect PC to Controller
Step C

Connect CAT5 Ethernet crossover cable from PC to controller

Open WEB Browser

Enter controller IP address (1). Default is 10.10.6.106. Press enter
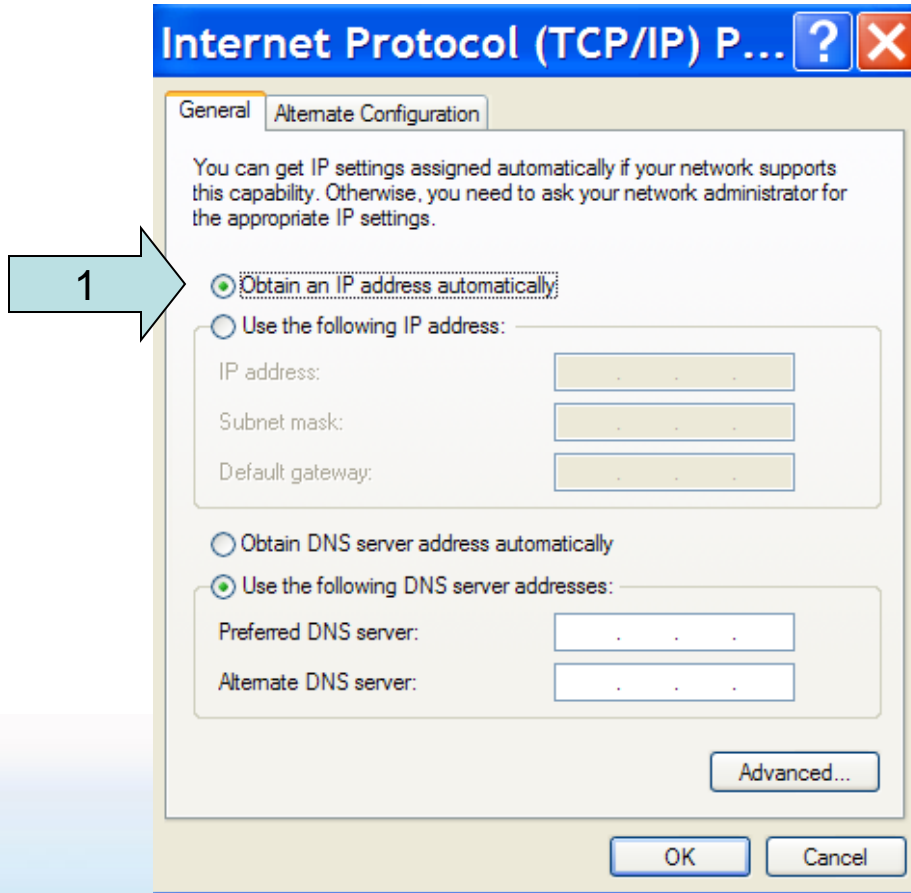
'http' and 'www' are not necessary.

Return to Automatic

Internet Protocol (TCP/IP) P...

General | Alternate Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

1 ⦿ Obtain an IP address automatically

○ Use the following IP address:

IP address:

Subnet mask:

Default gateway:

○ Obtain DNS server address automatically

⦿ Use the following DNS server addresses:

Preferred DNS server:

Alternate DNS server:

Advanced...

OK | Cancel

Once you have concluded your Browser session with the controller, you should reconfigure your PC to 'Obtain an IP address automatically' by selecting the circle (1) as shown

Use Connection – Ethernet setup steps B1 through B5 to get to this screen

Select OK on this screen and then again on the Local Internet Connection window to save the change.

Feedback?

If you have questions or concerns about this document, <u>PC Ethernet IP Address Setup Instruction A</u>, please contact us.

Hours of operation: 8:00AM to 7PM Eastern Daylight Time

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