

CONTENTS

1. Modem Point-to-Point Protocol Connections

- 1.1 PPP Connections
- 1.2 XP Modem Connection
- 1.3 VISTA Modem Connection

2. Computer PPP Setup

- 2.1 Windows XP Modem Set-up
- 2.2 Windows VISTA Modem Set-up
- 2.3 Find the Controller's IP Address

3. Modem Install-Test

- 3.1 On-Site
- 3.2 Verifying a Connect

<hold> Needs an Aquatrac Aegis modem phone#, Section 3.2 </hold>

Sidebar: Are used to add explanation.

Sidebar are at the bottom of the page detailing the function.

Aegis_Modem is included as Appendix 'R' in the **Aegis_user** manual when the controller includes the 'RM', Remote Modem option.

Aegis_Browser is included as Appendix 'C' in the **Aegis_user** manual when the controller includes the 'LB', LAN Browser option.

Aegis_Modem , **Aegis_Browser** & **Aegis_user** are available as .pdf downloads from www.Aquatrac.com.

1.0 Modem Point-to-Point Protocol Connections

1.1 PPP Connections

A PPP connection is the same type of connection you'd use to modem connect to an ISP (Internet Service Provider).

Although a PPP connection takes a one-time set-up, it's worth it.

You'll be able to browse the controller in the same way as an on-site user connected to the site LAN.

You can browse with either IE7 (MS Internet Explorer) or Mozilla's Firefox. Either browser gives you full command and control of the Aegis controller.

If you wish to download the controller data logs and generate reports, you'll connect using Aquatrac's Trackster software.

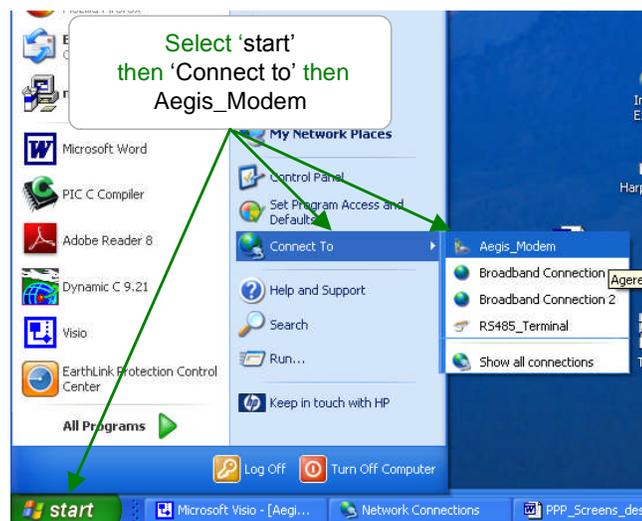
You can have MS Windows firewall ON during a PPP connection.

You can be connected to a business or residential network and connected to the Internet using a DSL connection while you use a PPP connection to an Aegis controller.

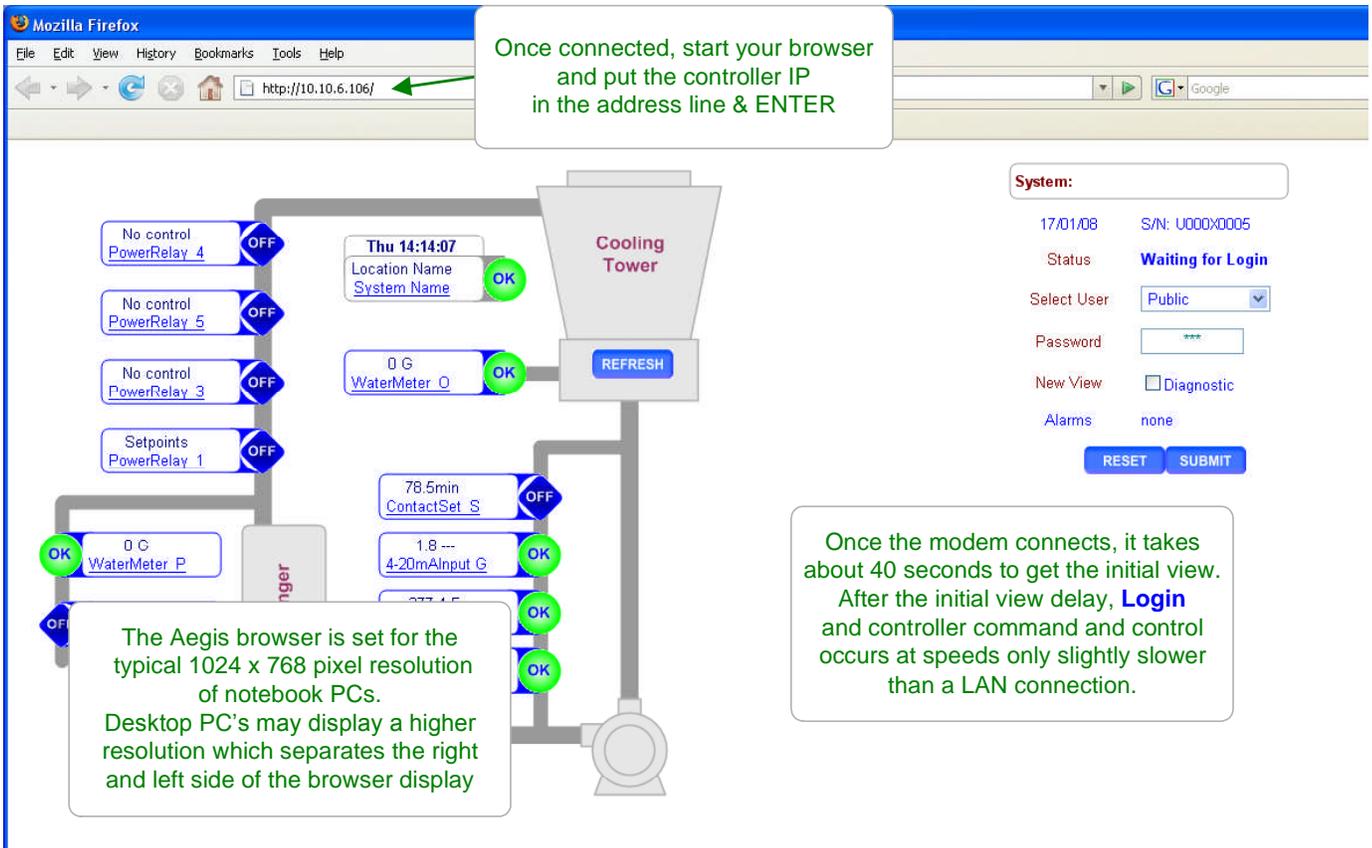
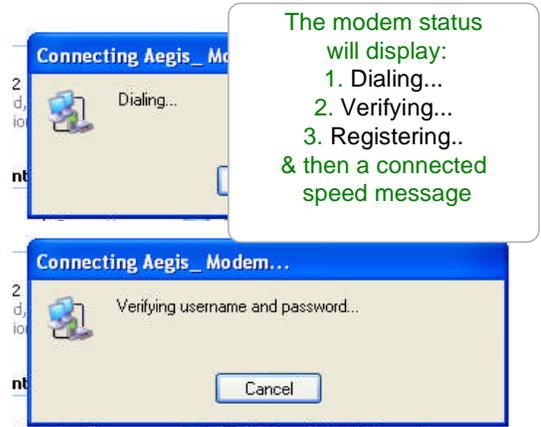
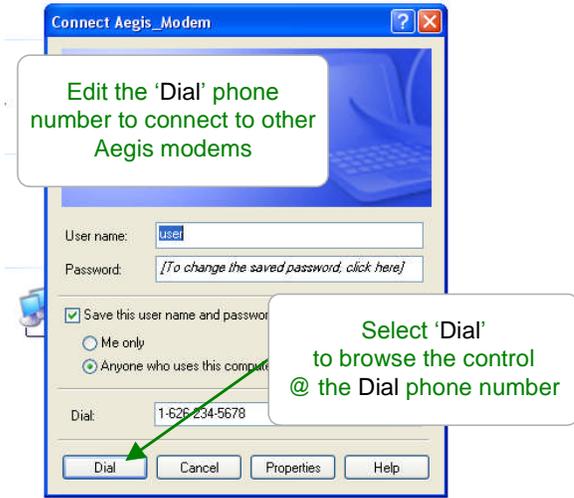
1.2 XP Modem Connection

You'll need to know both the phone number of the Aegis controller's modem and it's IP address. Refer to [2.3 Find the Controller's IP Address](#) at the end of this appendix.

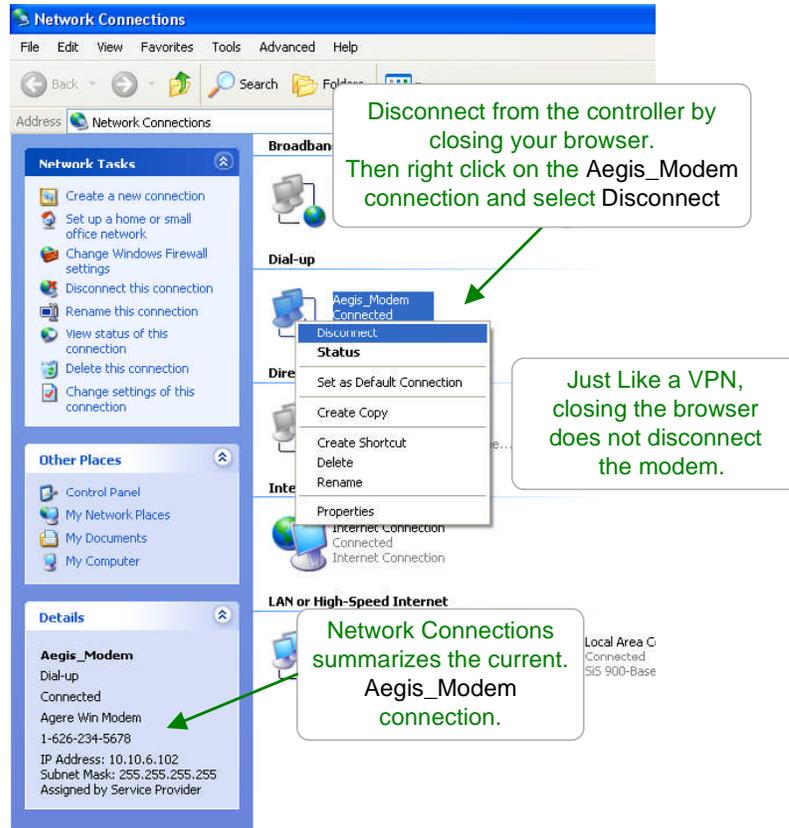
NOTE: Set-up your PC first. Refer to [2.1 Windows XP Modem Set-up](#).



1.2 XP Modem Connection continued



1.2 XP Modem Connection continued



Default Passwords:

The factory default passwords are:

Operator1 = 1 Operator2 = 2 Operator3 = 3 Operator4 = 4.

Configure5 = 5 Configure6 = 6 Configure7 = 7 Administrator = AAAA

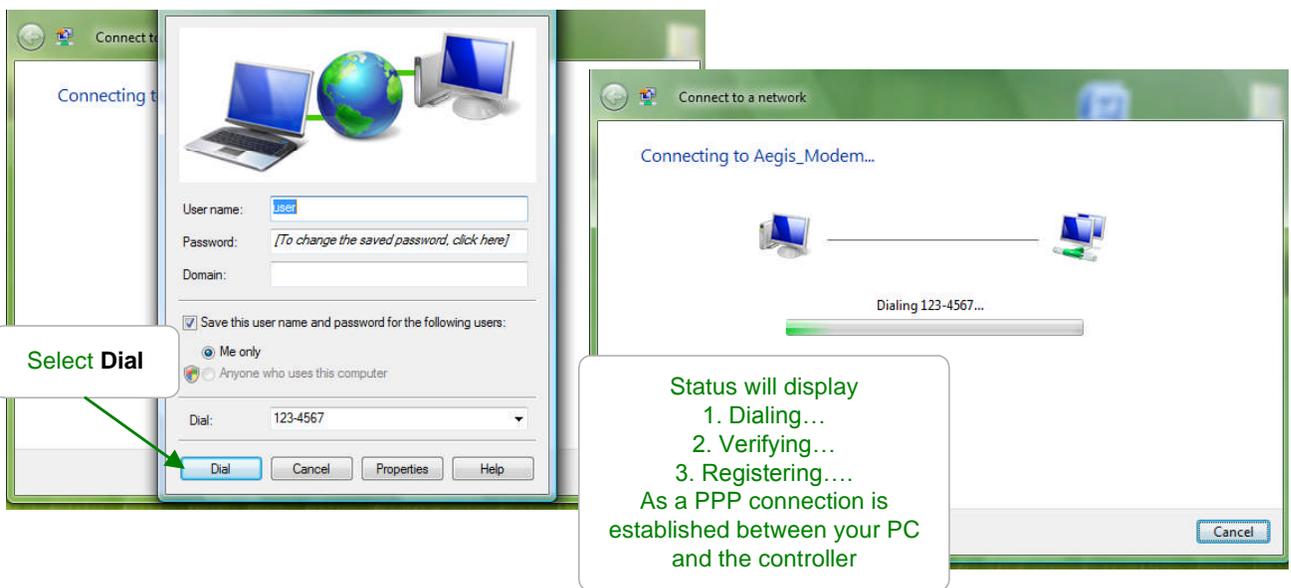
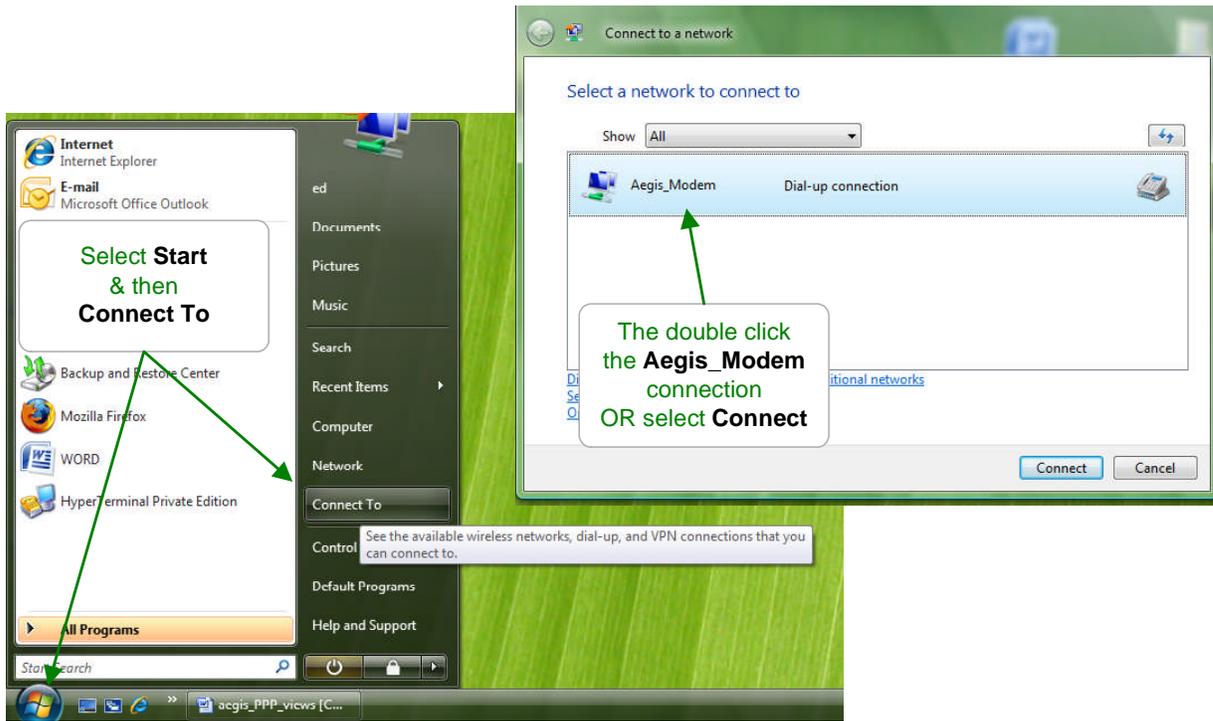
There are 3 password levels, Operator, Configure and Administrator.

5 incorrect passwords, block logon until 7:00AM or until a power OFF/ON.

1.3 Vista Modem Connection

You'll need to know both the phone number of the Aegis controller's modem and it's IP address. Refer to [2.3 Find the Controller's IP Address](#) at the end of this appendix.

NOTE: Set-up your PC first. Refer to [2.2 Windows VISTA Modem Set-up](#).



1.3 Vista Modem Connection continued

Successfully connected to Aegis_Modem

Once connected, start your browser and key the controller IP address & ENTER

It takes 40 seconds to load the initial screen after connecting. Once loaded, the view updates every 2 seconds and command & control occurs promptly.

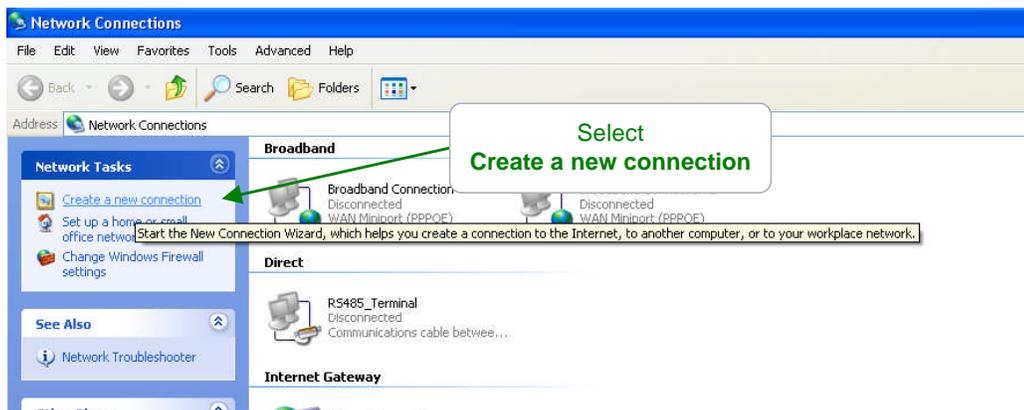
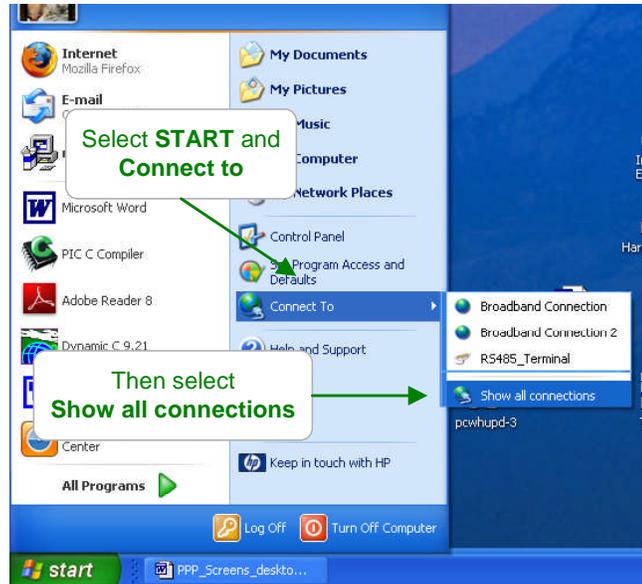
Although all Aegis controllers share the same PPP user name & password, you'll need a controller password to operate the controller

Select Start then Connect to and then the Disconnect button

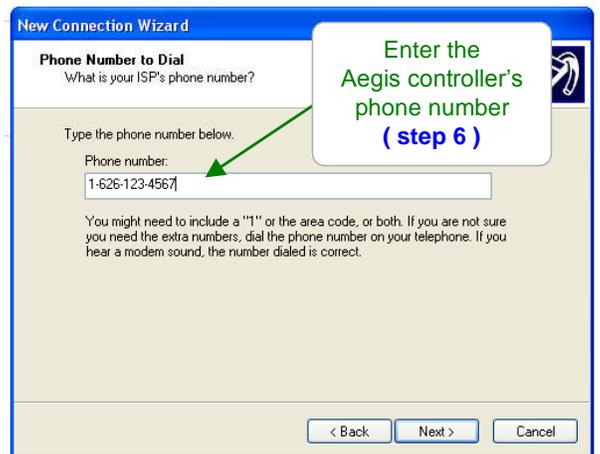
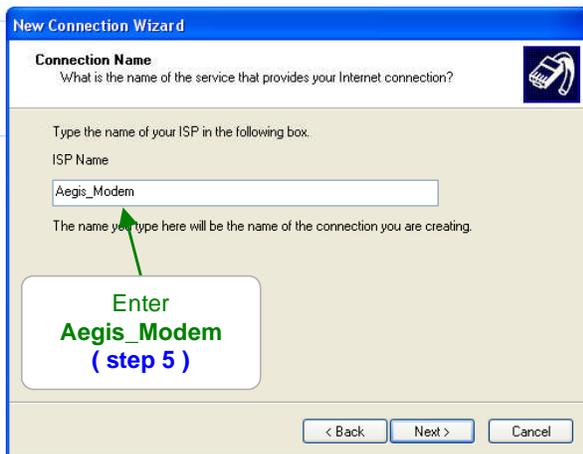
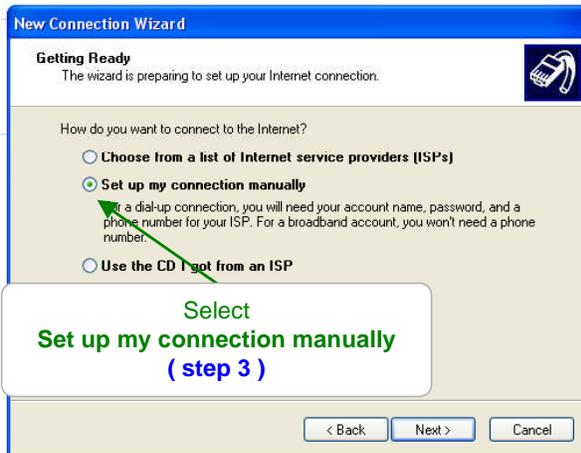
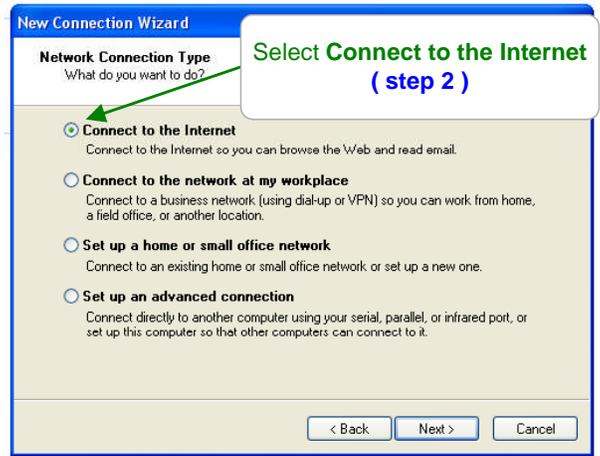
Closing your browser does not disconnect from the controller.

2.0 Computer PPP Setup

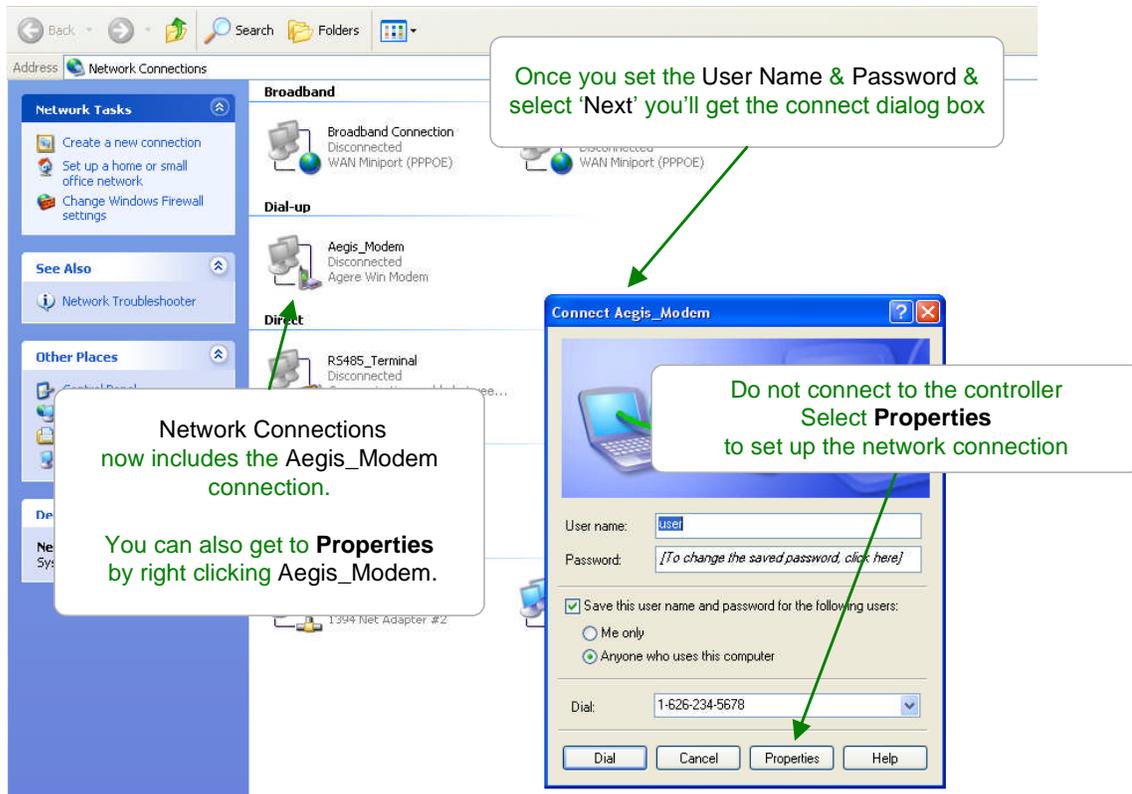
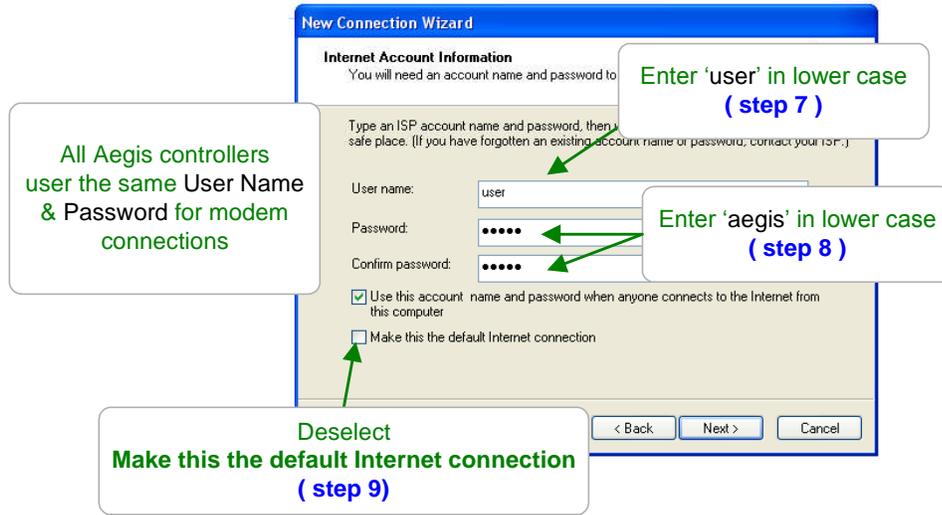
2.1 Windows XP Modem Set-up



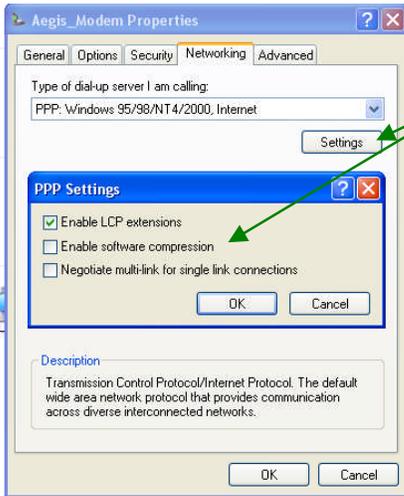
2.1 Windows XP Modem Set-up continued



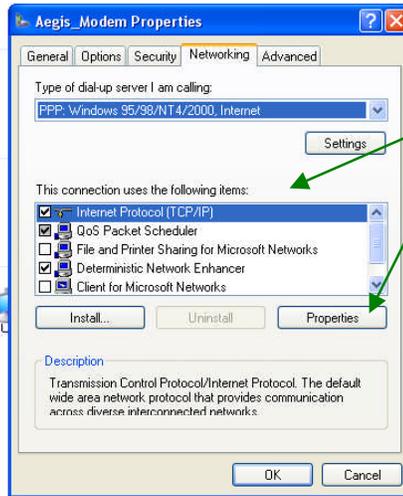
2.1 Windows XP Modem Set-up continued



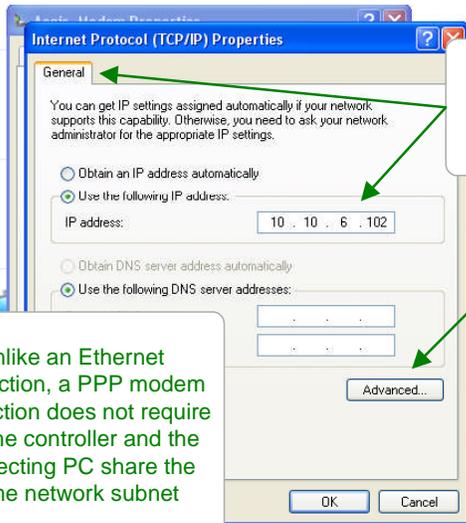
2.1 Windows XP Modem Set-up continued



Select 'Settings' then deselect Enable software compression & OK (step 10)



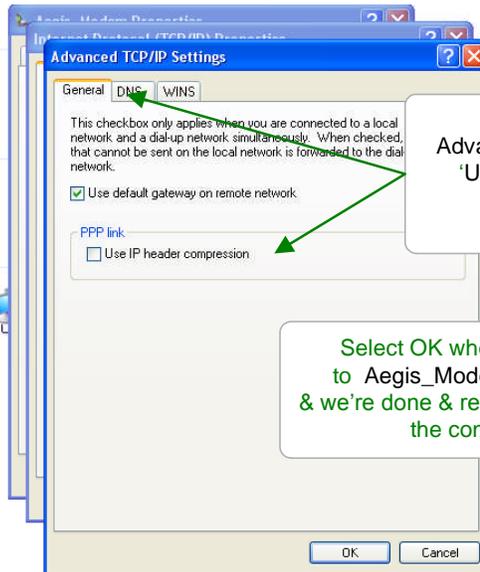
Select 'Internet Protocol' then Properties



In the 'General' tab select 'Use the following IP address' and enter 10.10.6.102 (step 11)

Unlike an Ethernet connection, a PPP modem connection does not require that the controller and the connecting PC share the same network subnet

Once you've set an IP Address. Select Advanced



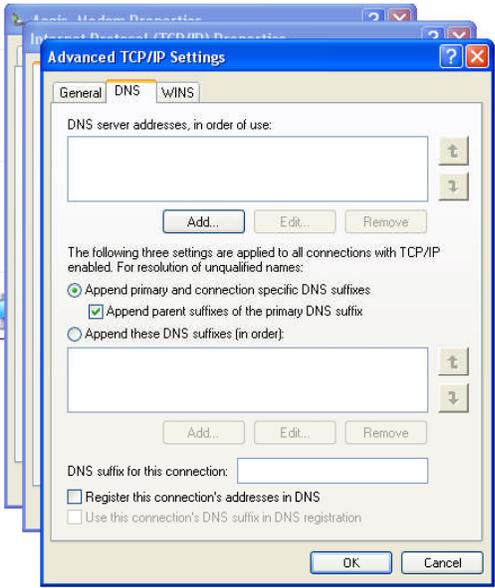
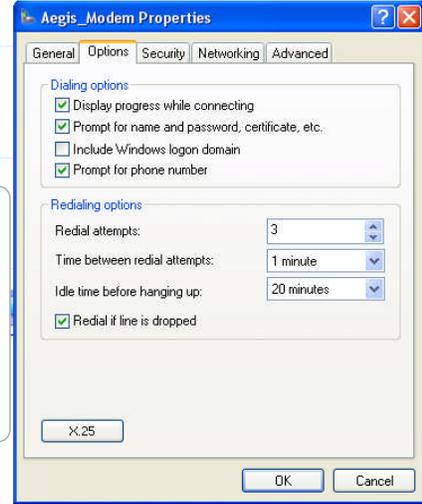
Within the Advanced, General tab, deselect 'Use IP header compression' & then OK (step 12)

Select OK when you return to Aegis_Modem Properties & we're done & ready to connect to the controller

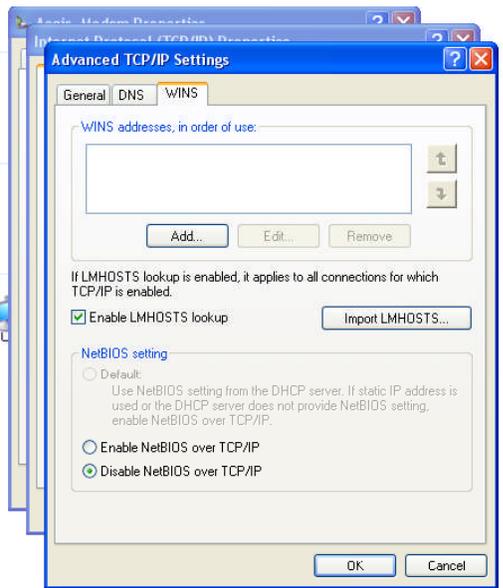
2.1 Windows XP Modem Set-up continued



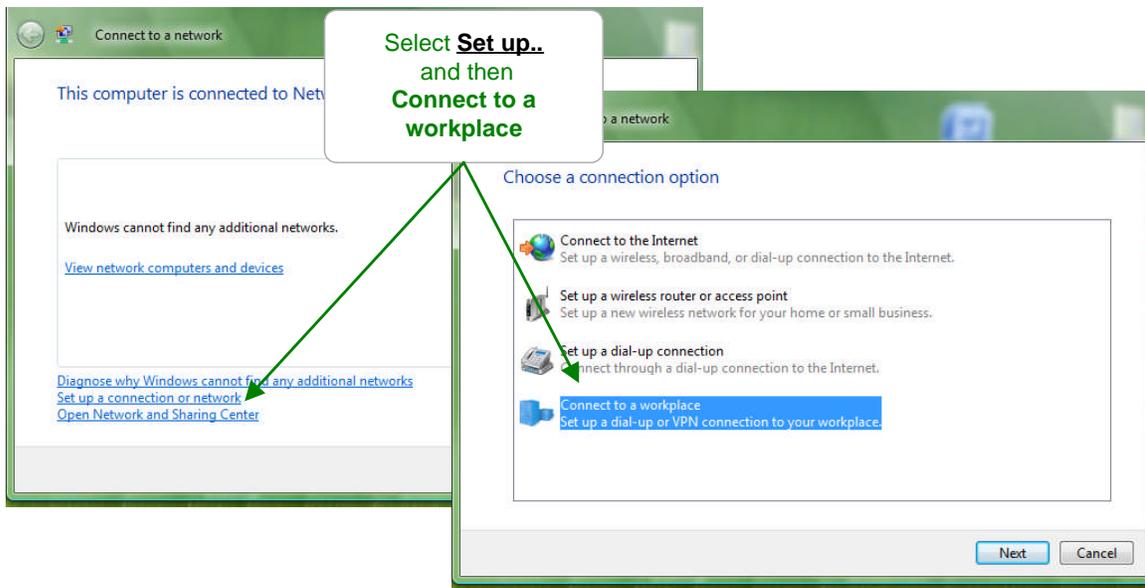
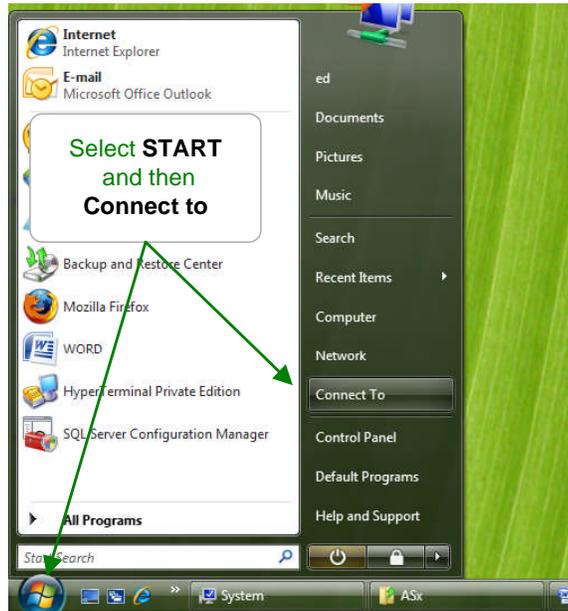
These tabs in Aegis_Modem_Properties are left at their default values. Use them to verify that your connection has not been modified



These tabs in Aegis_Modem_Properties, Internet Protocol Properties, Advanced TCP/IP Settings are left at their default values.



2.2 Windows VISTA Modem Set-up



2.2 Windows VISTA Modem Set-up continued

The screenshot shows the 'Connect to a workplace' wizard. The first step is 'How do you want to connect?'. The 'Dial directly' option is selected, with a callout box saying 'Select Dial Directly'. The second step is 'Type the telephone number to connect to'. The 'Telephone number' field contains '123-4567' and the 'Destination name' field contains 'Aegis_Modem'. A callout box says 'Enter the controller modem phone number. Select Dialing Rules if you are dialing outside your area.' with arrows pointing to the telephone number field and the 'Dialing Rules' link. Another callout box says 'Edit the name of the connection' with an arrow pointing to the 'Destination name' field. At the bottom, the 'Don't connect now, just set it up so I can connect later' checkbox is checked, with a callout box saying 'Select Don't connect...'. The 'Next' and 'Cancel' buttons are visible at the bottom right.

The screenshot shows the 'Connect to a workplace' wizard. The first step is 'Type your user name and password'. The 'User name' field contains 'user' and the 'Password' field contains 'aegis'. Callouts indicate 'Set User name = user', 'Set Password = aegis, both in lower case.', 'Select both Show.. & Remember..', and 'then select Create.'. The 'Show characters' and 'Remember this password' checkboxes are checked. A callout box says 'All Aegis controllers share the same User Name & Password for PPP modem connections'. The second step is 'The connection is ready to use'. A 'Connect now' button is highlighted with a callout box saying 'Select Close.'. The 'Close' button is visible at the bottom right.

2.2 Windows VISTA Modem Set-up continued

The screenshot shows the 'Connect to a network' window on the left and the 'Network and Sharing Center' window on the right. A green arrow points from the 'Aegis_Modem' connection in the 'Connect to a network' window to the 'Network and Sharing Center' window. A text box below the screenshots provides instructions: 'Now when you select **START** and then **Connect to**, the **Aegis Modem** connection exists. Select Open Network.. & then Manage...'

The screenshot shows the 'Network Connections' window with a right-click context menu open over the 'Aegis_Modem' connection. The 'Properties' option is selected. A second screenshot shows the 'Aegis_Modem Properties' dialog box with the 'Networking' tab selected. A green arrow points to the 'Internet Protocol Version 4 (TCP/IPv4)' checkbox, which is checked. A text box below the dialog box provides instructions: 'Right click on **Aegis_Modem** and select **Properties**' and 'Select **IP Version 4** and then select **Properties**'

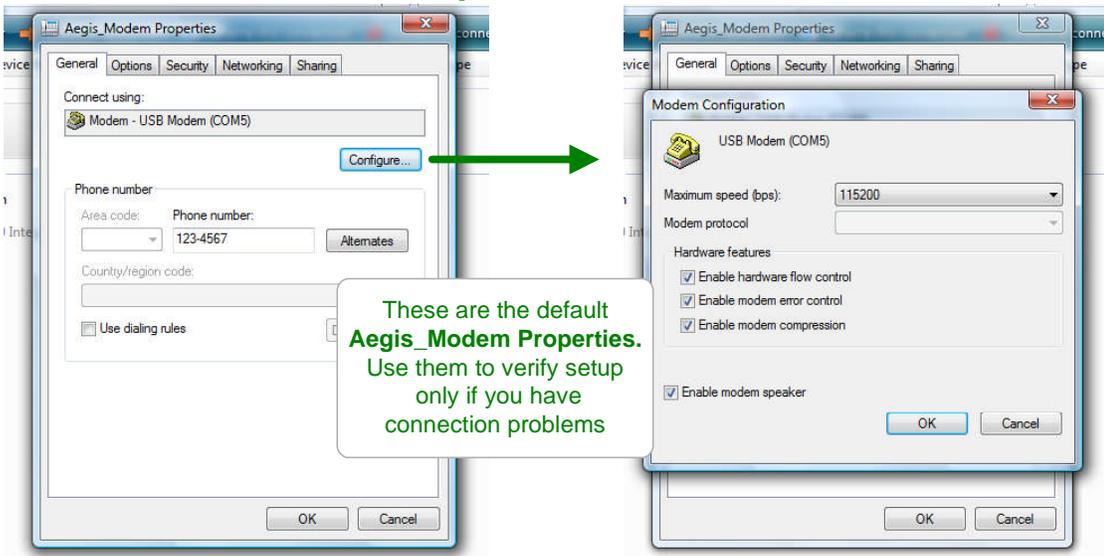
2.2 Windows VISTA Modem Set-up continued

Select Use... then enter IP Address = 10.10.6.106 and then select Advanced

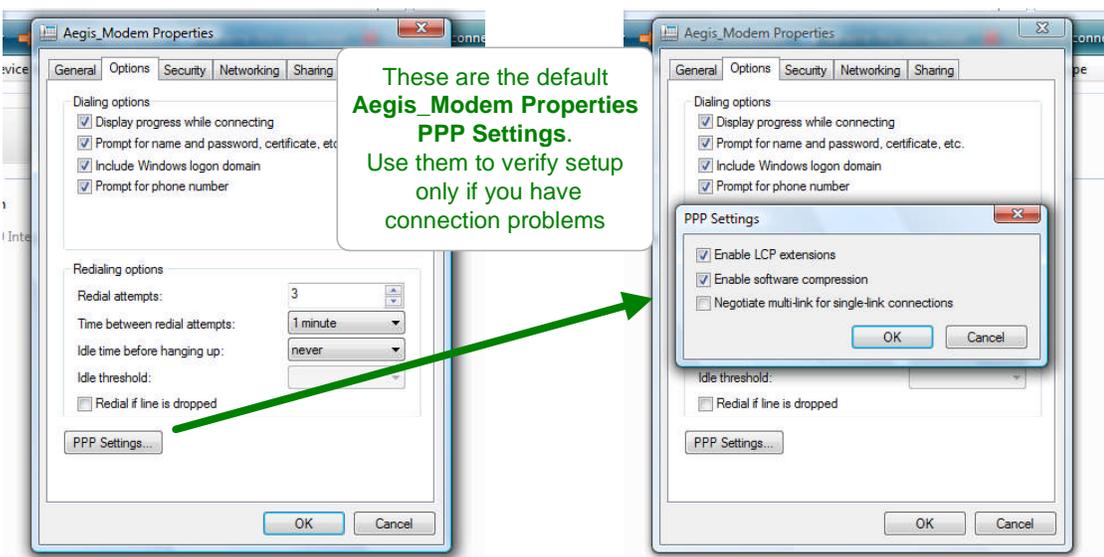
Finally select OK in Aegis_Modem Properties to complete the PPP modem setup.

De-select USE IP... and then close Advanced.. then OK in IP Version4...

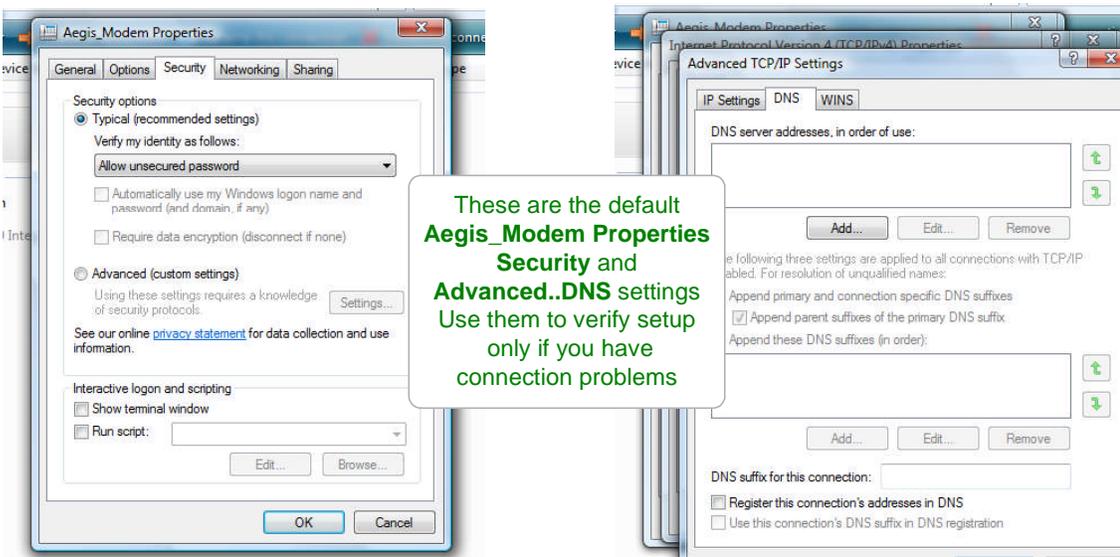
2.2 Windows VISTA Modem Set-up continued



These are the default **Aegis_Modem Properties**. Use them to verify setup only if you have connection problems



These are the default **Aegis_Modem Properties PPP Settings**. Use them to verify setup only if you have connection problems



These are the default **Aegis_Modem Properties Security and Advanced..DNS settings**. Use them to verify setup only if you have connection problems

2.3 Find the Controller's IP Address

The following is copied from Section 11.7 of the [Aegis_User](#) manual.

If you are not connected to the site LAN, then the controller **IP Address** should be left at the factory default **10.10.6.106**.

To view or adjust the controller Ethernet setting press **ENTER** and **DOWN** to **Communicate** at the power up or day-time display.

Key **ENTER** @ **Communicate**

Displays the current LAN **IP address**. In this example, it's the factory default. If you are connecting into the site LAN, **IP address** is assigned by the site IT staff. Key **ENTER** to modify.

Netmask is usually this value for most sites. Key **ENTER** to modify.

This is the default **HTML Port** for browsing. It can be modified only via the browser.

The site IT staff may require the controller **MAC Address** to register-allow the controller on the site network. The **MAC address** is six 2 digit hexadecimal numbers, separated by colons into 3 groups of 4 to fit the LCD screen. In this example, the **MAC address** is **00 90 C2 00 00 00**

Communicate

Thu 16:54:10 ◀↕
S/N: A076X486

◀↵ then ⬇

Communicate ◀↵
Configure ⬇

◀↵

IP Address ◀↵
10.10.6.106 ⬆↕

⬇ ⬆ or ◀↵

Netmask ◀↵
255.255.255.0 ⬆↕

⬇ ⬆ or ◀↵

HTML Port
80 ⬆↕

⬇ ⬆

MAC Address ◀↵
0090:c200:0000 ⬆↕

⬇ ⬆

IP Address ◀↵
10.10.6.106 ⬆↕

3.0 Modem Install-Test

3.1 On-Site

1. Jack into the Controller Modem

Connect the site telephone service to the controller modem jack located at the back of the enclosure on the bottom right. Locking tab towards the back of the enclosure.

Verify that the **RED Modem Power** LED next to the telephone jack is ON, when the controller power is ON.

2. Verify the Modem Phone Number

Phone the controller modem number while you are on site, preferably using your cell phone and not an on-site phone.

You'll hear the ring followed by a modem-FAX connect sound. Hang-up.

This test verifies that the site phone number is correct and that it is configured to accept outside, incoming phone calls.

The **GREEN Carrier Detect** LED beside the modem Power LED will only turn ON when a modem connects to the controller modem.

While you are on-site, note both the controller modem phone number and the controller IP address. If the controller is not connected to the site LAN, it will be @ the default IP of **10.10.6.106**.

3.2 Verifying a Connect

The most common problem with modem connecting to controllers is change in the site telephone system. The controller phone number be disabled, re-assigned or may be set to block incoming calls.

Cell phone the site phone number & verify an answer & the modem-fax sound.
(Assumes that the cell phone and the connecting PC have the same area code.)

Modify the connect phone number to the Aquatrac Aegis modem verify @ **951-123-4567**. Depending on your dialing rules, you may need to add a 1 before the area code.

If you can connect to the Aquatrac Aegis but not to the site Aegis, the problem is likely on-site. If you can't connect to the Aquatrac Aegis it's likely the problem is in your PC setup.