

Checking communications between customer PC and PLC

(This procedure is current as of 5/11/11)

To complete the installation of RSLogix, the ability of the PC to communicate with a PLC must be verified. Connect both the serial (1747-CP3) and Ethernet cables to laptop and PLC.

For Ethernet connections set the IP address for the PC to something like 192.168.100.254 (subnet mask 255.255.255.0). **Be sure to set the PC's IP address back to dynamic when you are all done testing.**

In Windows 7 Pro, this is how to do it:

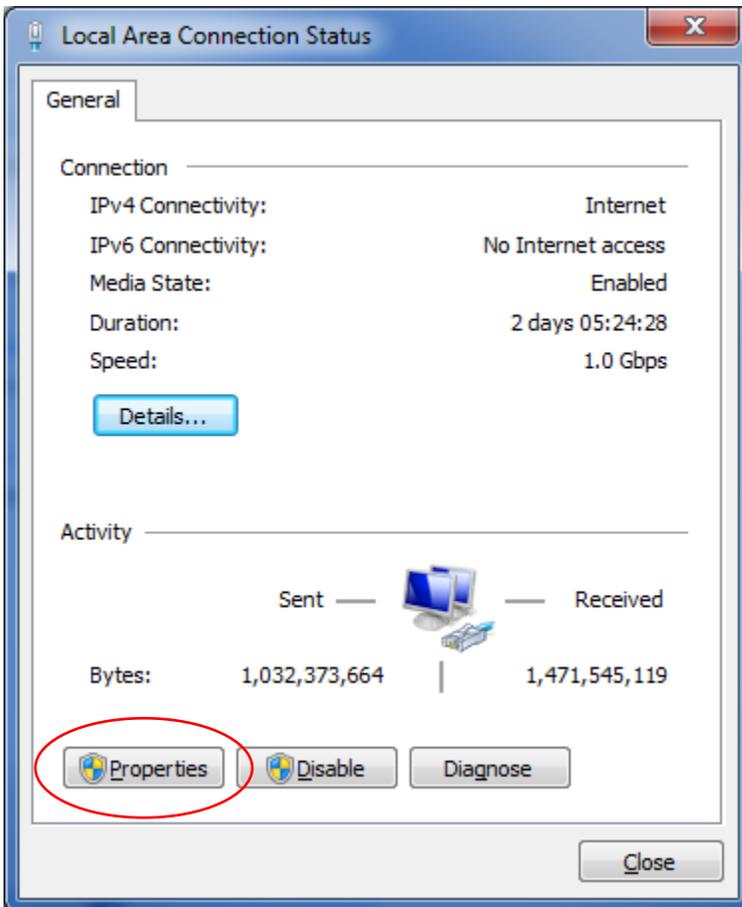
- Open the Control Panel and click on 'View network status and tasks'



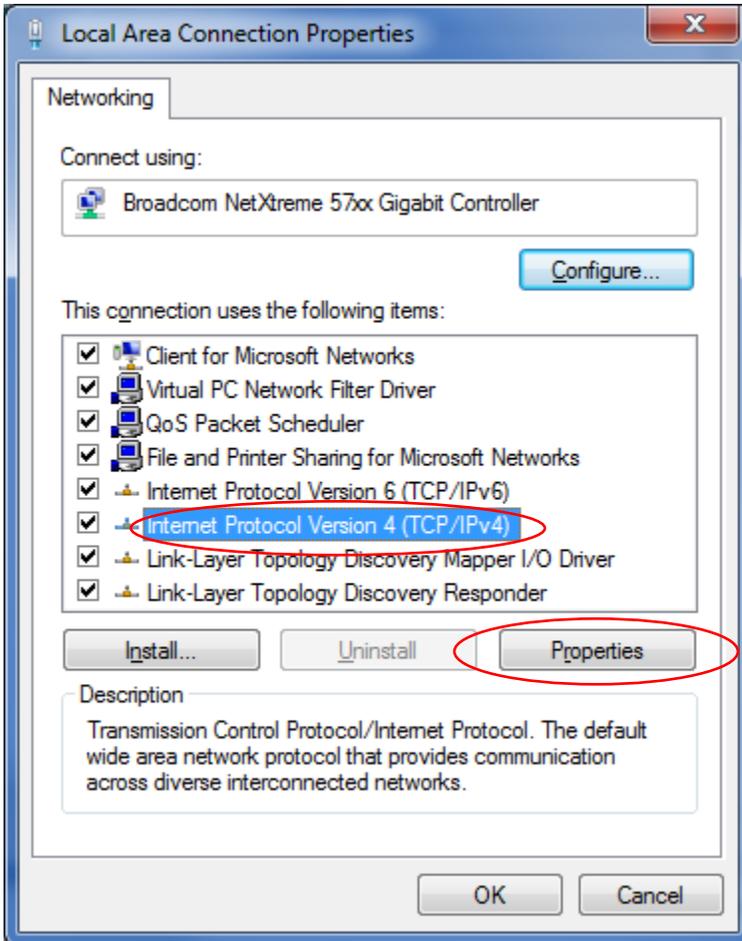
➤ Click on 'Local Area Connection'

The screenshot shows the Windows Network and Sharing Center interface. The breadcrumb path at the top is 'Control Panel > Network and Internet > Network and Sharing Center'. On the left sidebar, there are links for 'Control Panel Home', 'Change adapter settings', and 'Change advanced sharing settings'. The main content area is titled 'View your basic network information and set up connections' and includes a 'See full map' link. A network diagram shows 'W72368 (This computer)' connected to 'colmac.com' and 'Internet'. Below this, under 'View your active networks', the 'colmac.com Domain network' is listed. A red circle highlights the 'Connections' section for this network, which shows 'Access type: Internet' and 'Connections: Local Area Connection'. Under 'Change your networking settings', there are four options: 'Set up a new connection or network', 'Connect to a network', 'Choose homegroup and sharing options', and 'Troubleshoot problems'.

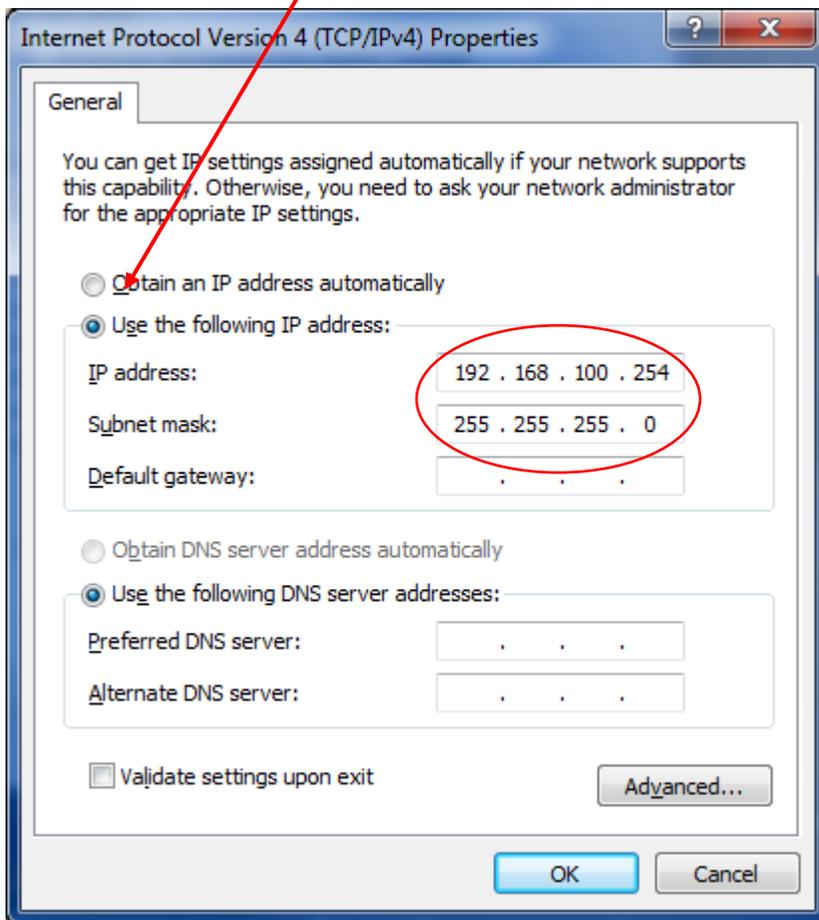
➤ Click on 'Properties'



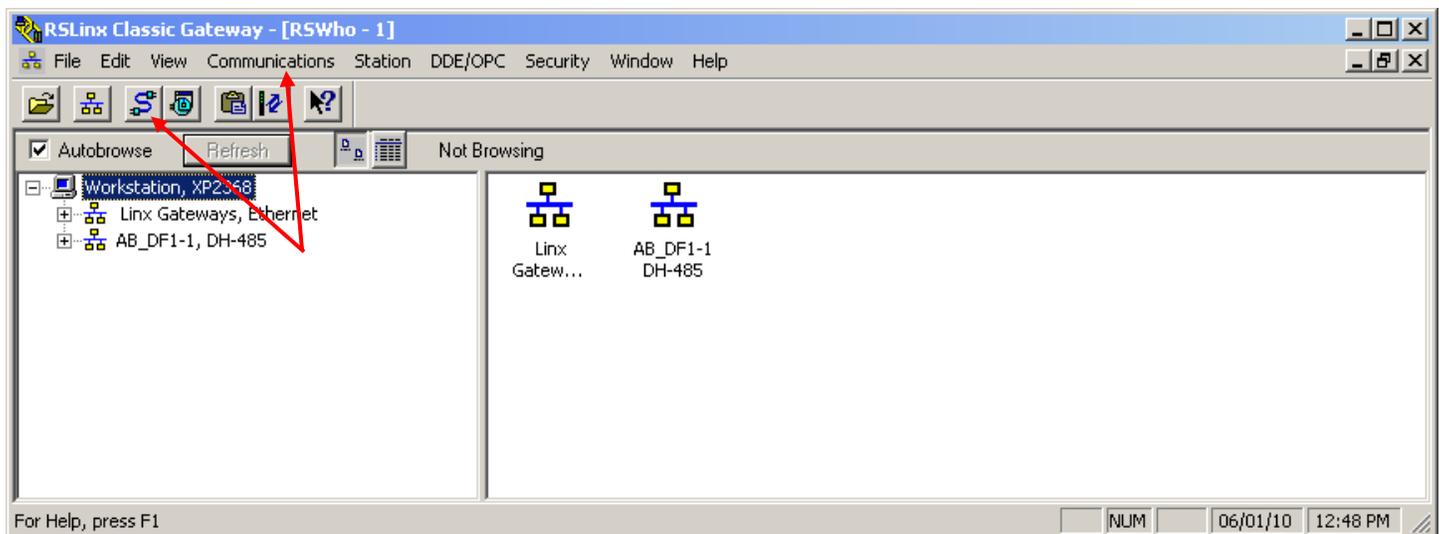
- Click on 'Internet Protocol Version 4 (TCP/IPv4)' and click on 'Properties'



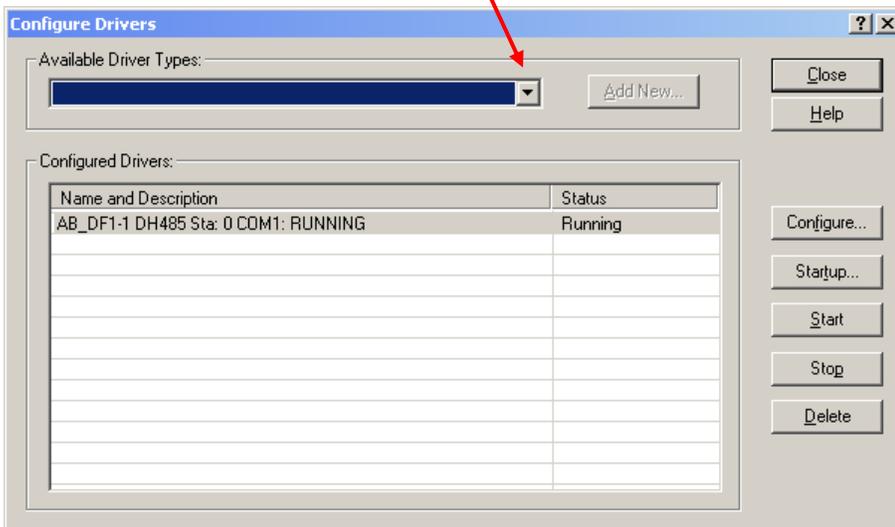
- Click on 'Use the following IP address' and set it as shown (245-254), then click 'OK':



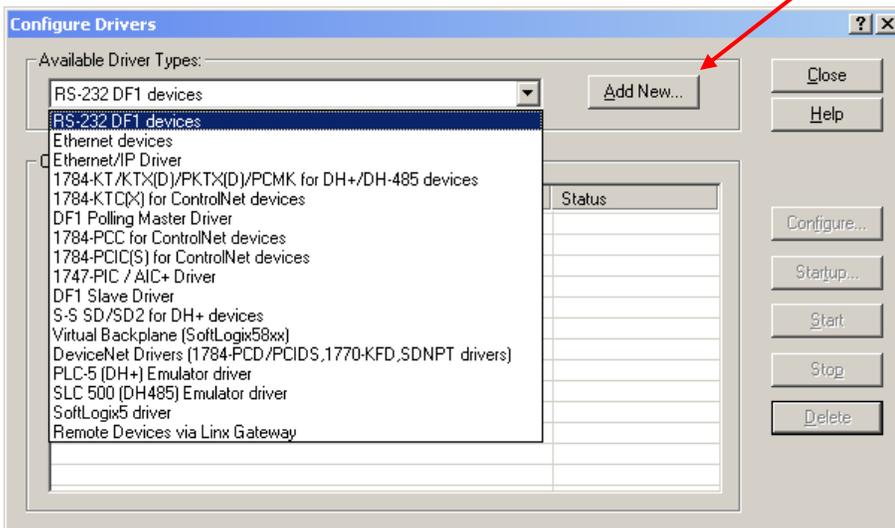
- Open RSLinx Classic and click on the 'Configure Drivers' button or click on the 'Communications' pull-down and then on 'Configure Drivers...'



Select 'Available Driver Types:'



For serial, select RS-232 DF1 devices and click on the 'Add New...' button

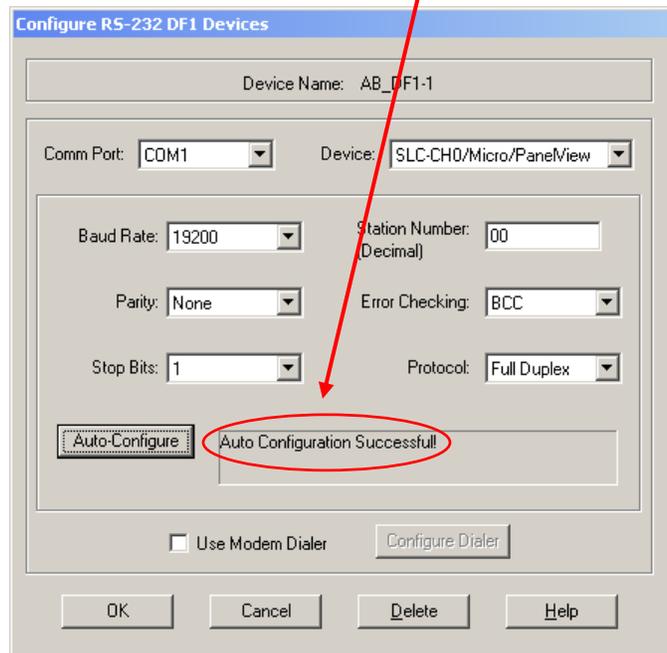
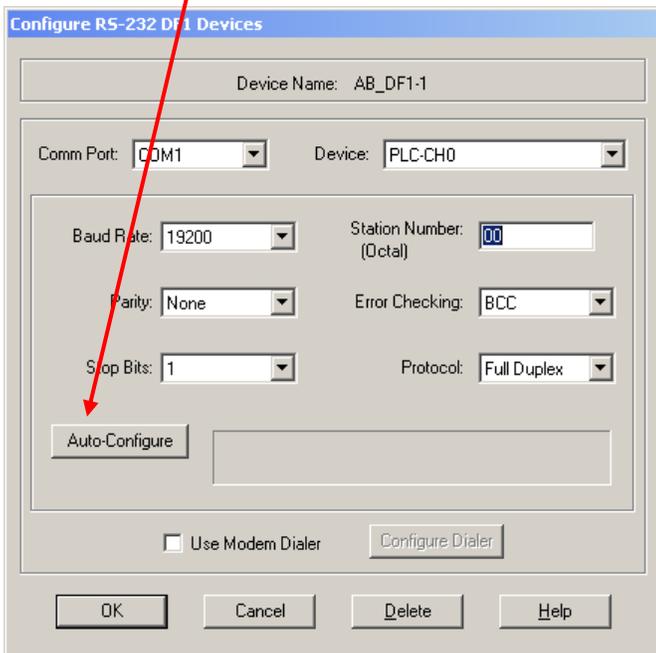


Click 'OK'

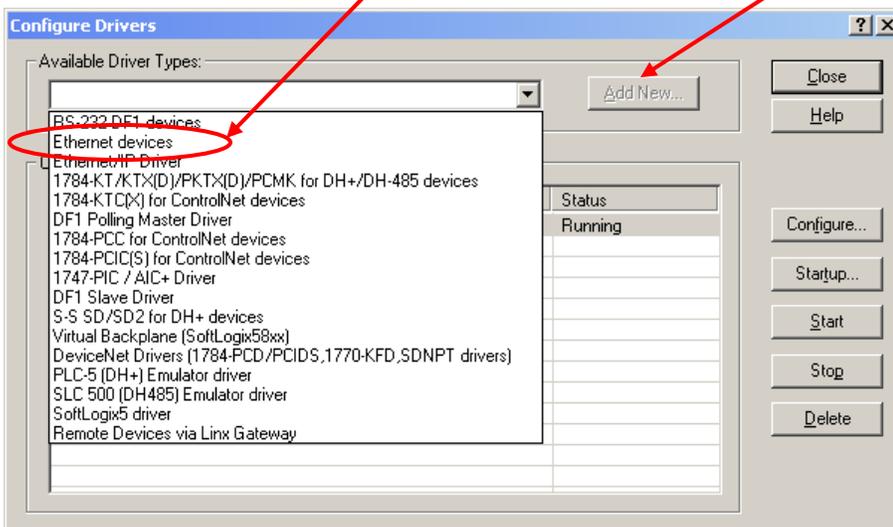


Click 'Auto-Configure'.

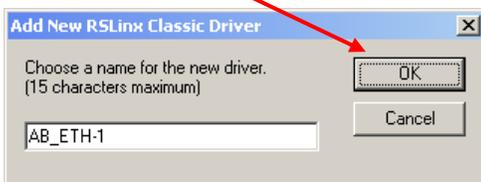
If the cable is connected, you'll see this:



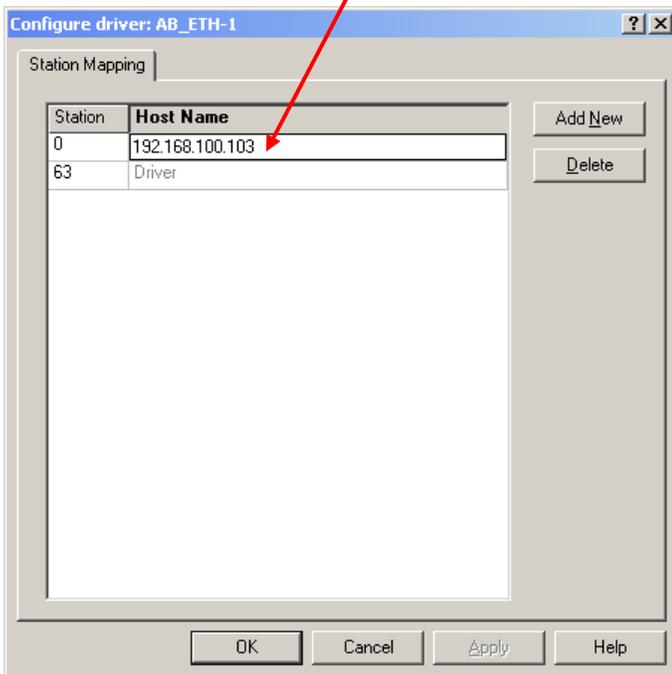
For Ethernet, select 'Ethernet devices' and click on the 'Add New...' button



Click 'OK'



Enter the appropriate IP address (see note below)

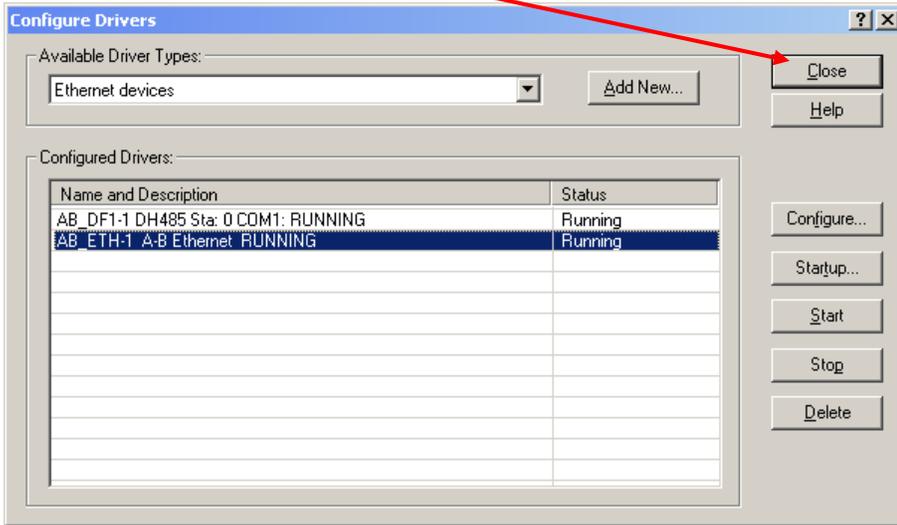


If there is already a program in the PLC and you don't know the IP address, reconnect the serial cable.

- Go on-line
- Double-click "Channel Configuration"
- Click the "Chan. 1-System" tab
- Read the IP address for the current program.
- The address *should* be one of the following for SLC devices:

CPM	192.168.100.102
MBS	192.168.100.103
CURING	192.168.100.104
PHS	192.168.100.105
LOCAR	192.168.100.106
CUBING	192.168.100.107

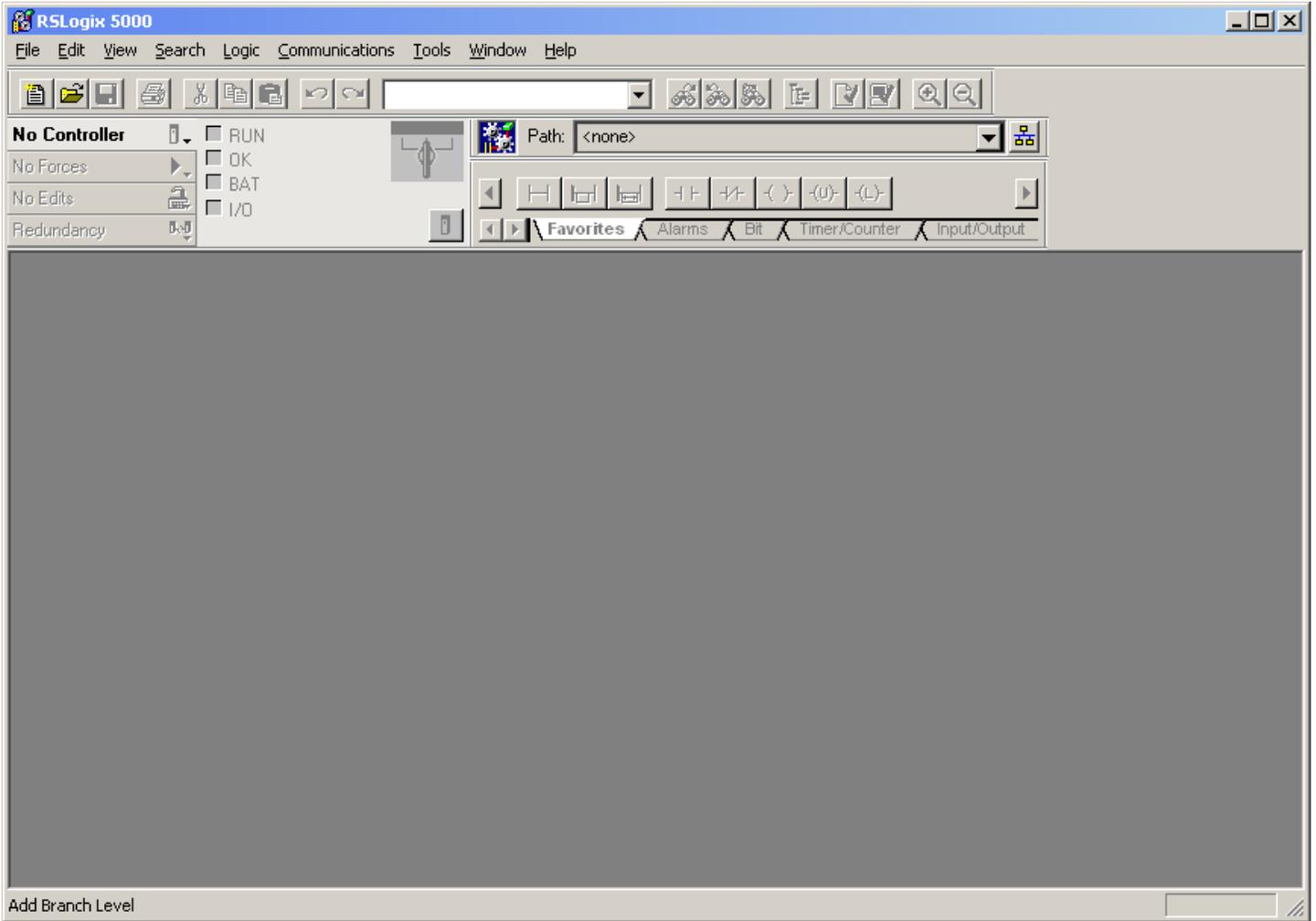
Click on 'Close'



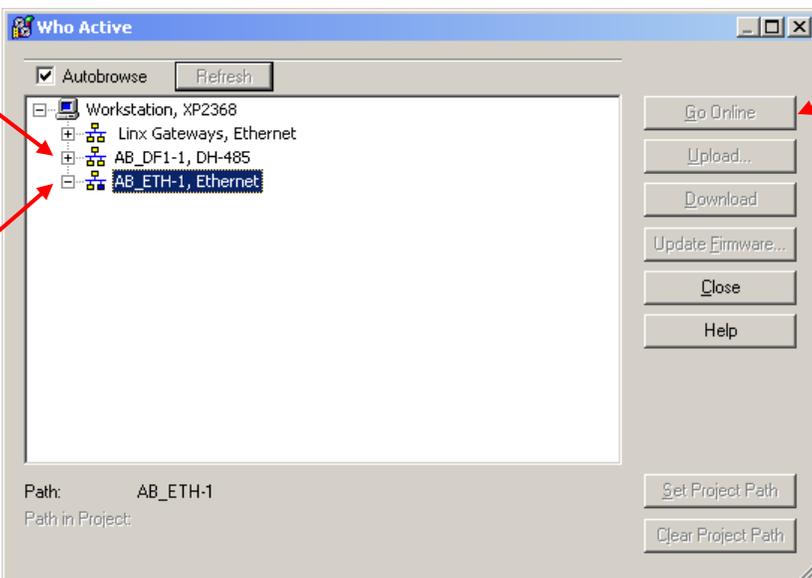
Minimize RSLinx

Open RSLogix and click on 'Communications'. Next, click on 'Who Active Go Online'





The following dialog box appears:



Click on the '+' to the left of either AB_DF1-1, DH-485 or AB_ETH-1, Ethernet. (Not shown here, but you will see the associated device(s) in the right side of a split window.) A **RED X** indicates no communication. A question mark indicates an unknown device.

Select the desired device and click 'Go Online'. It might take a couple of minutes.

If you have comms, you will see the program on the PLC and a green bar in the upper left corner.

It is a good idea to disconnect, shutdown, reboot, and reconnect to make sure that everything works again.