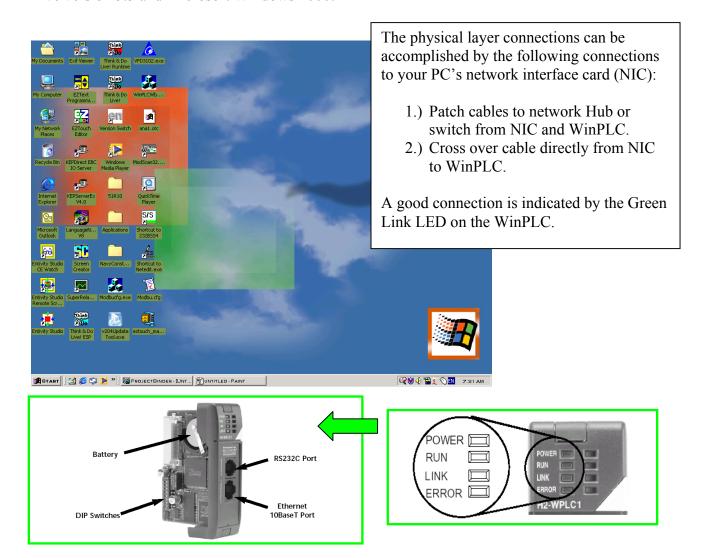


Product Family: WinPLC Number: AN-WPLC-001

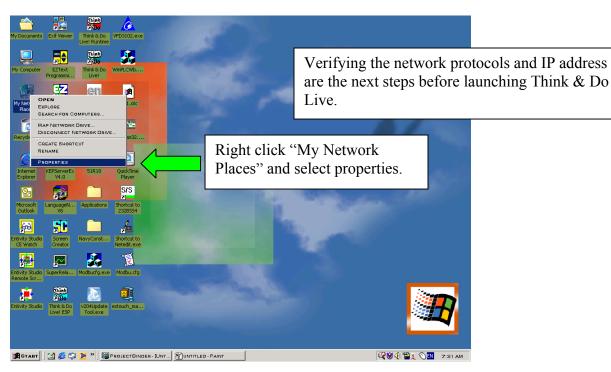
Subject: Basic Connection to an H2-WPLC with Date Issued: 12/11/03

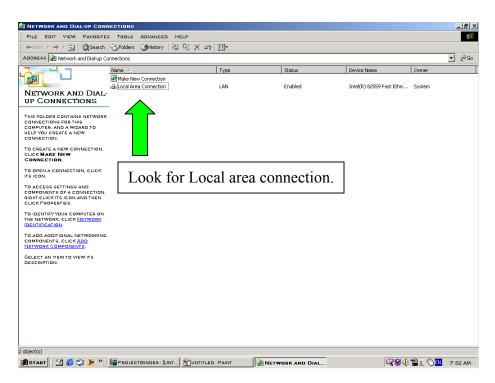
Think & Do Live Revision: Original

This application note show an example of how to connect to an H2-WPLC with Think & Do Live version 5.5 and Microsoft Windows 2000.

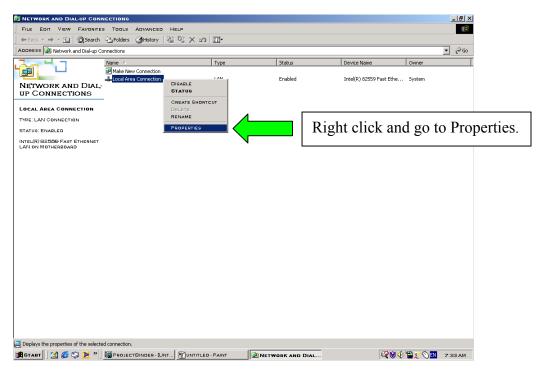


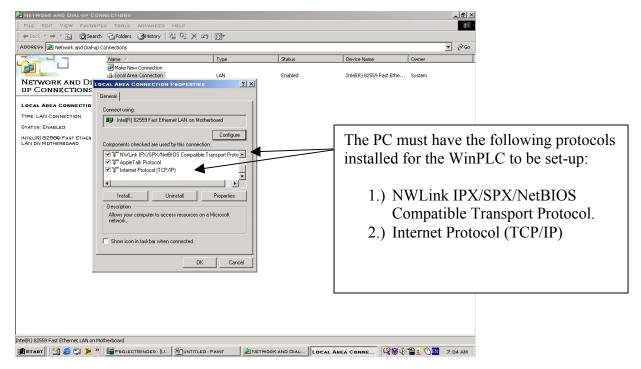




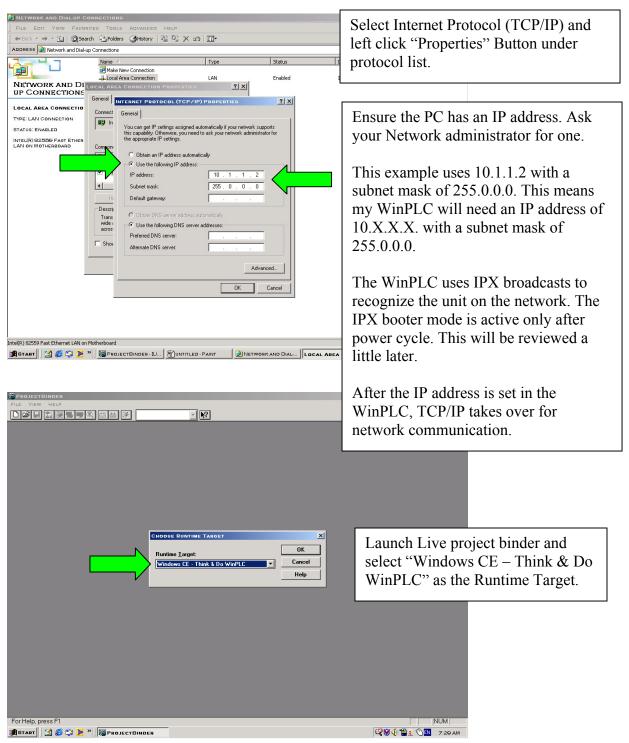




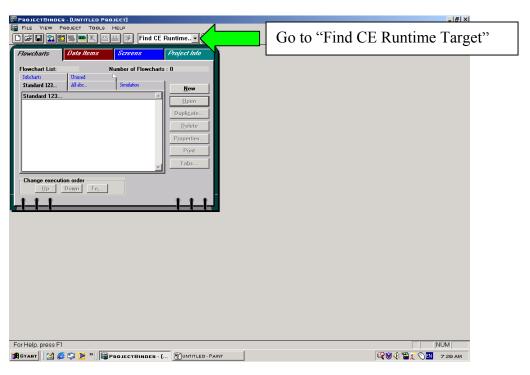


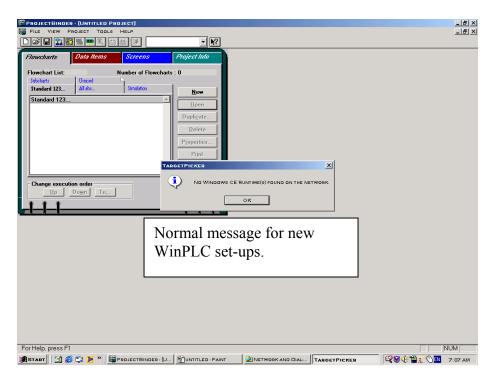




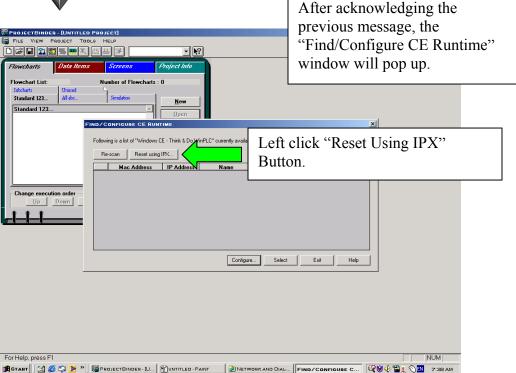


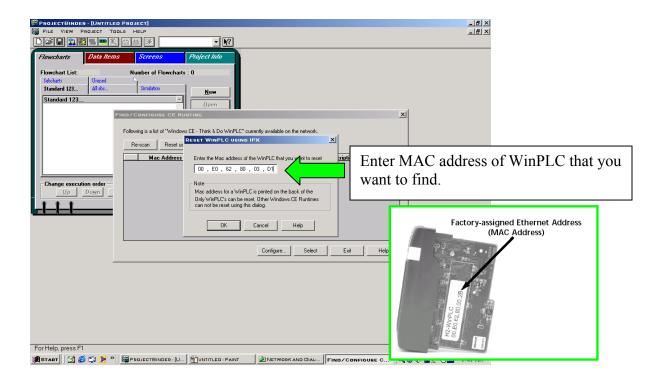






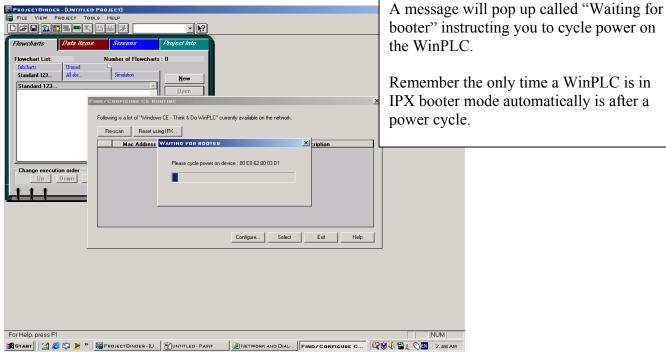








These documents are provided by our technical support department to assist others. We do not guarantee that the data is suitable for your particular application, nor do we assume any responsibility for them in your application.



Remember the only time a WinPLC is in

IPX booter mode automatically is after a power cycle.

Important NOTE – If the "Reset Using IPX" does not work.

This behavior is due to Windows 2000 and Windows XP "unbinding" the protocols from the network card, whenever Windows detects that a network connection has been "unplugged". The "re-binding" process takes approximately 10-15 seconds.

During the "Reset using IPX" process, you are instructed to power cycle the WinPLC. When the WinPLC's power is turned off and the computer is connected to the WinPLC by a direct connect crossover cable, the computer sees that there is no connection at the end of the network cable, and translates this into an "unplugged" state. At this time, Windows unbinds the protocols that were otherwise bound to that network card.

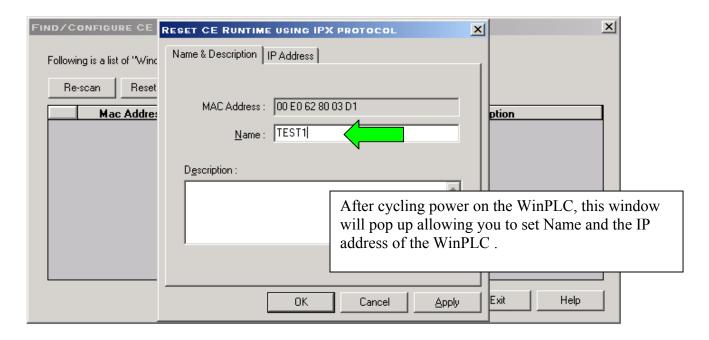
When the WinPLC powers back up (boots up, under normal conditions), the WinPLC "listens" for IPX broadcasts for approximately 3-4 seconds. If no broadcasts are heard, then the WinPLC continues the OS loading operation, but stops listening for the IPX broadcasts.

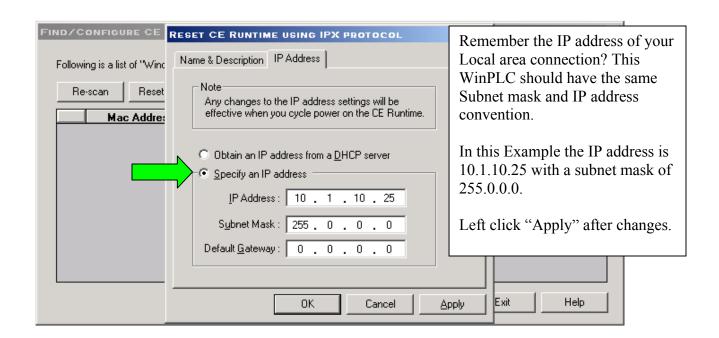
Since Windows (2000 or XP) takes 10-15 seconds after reconnecting before rebinding the protocols, there are no message sent out in that 10-15 second period. By the time Windows has rebound the protocols, the WinPLC is no longer listening.

There are (2) workarounds to this problem.

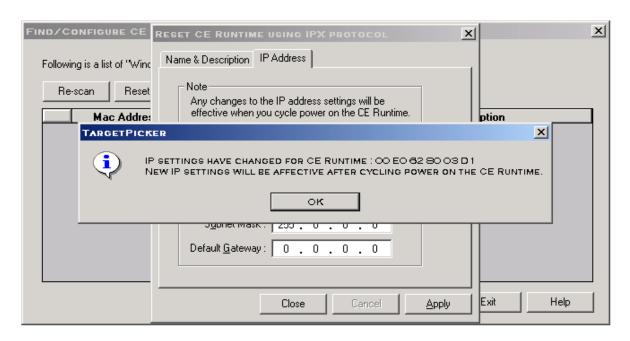
- 1.) Use a hub or switch between the WinPLC and the computer, along with standard patch cables (do NOT use the crossover cable in this situation).
- 2.) Power down the rack. Remove the WinPLC from the rack. Locate the DIP switches on the WinPLC's circuit board. Slide the HIGHEST NUMBERED SWITCH (SW7) to the ON position. Replace the WinPLC into the rack, and power the rack back up. This switch setting will keep the WinPLC in the "booter" mode, continuously listening for the IPX broadcasts. This will allow the "Reset using IPX" operation to be used with a cirect crossover cable on both Windows 2000 or Windows XP. After setting the IP Address of the WinPLC, BE SURE to set the DIP switch back to the OFF position.

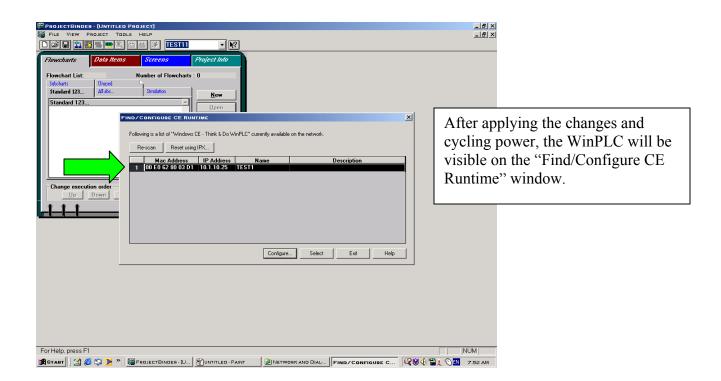


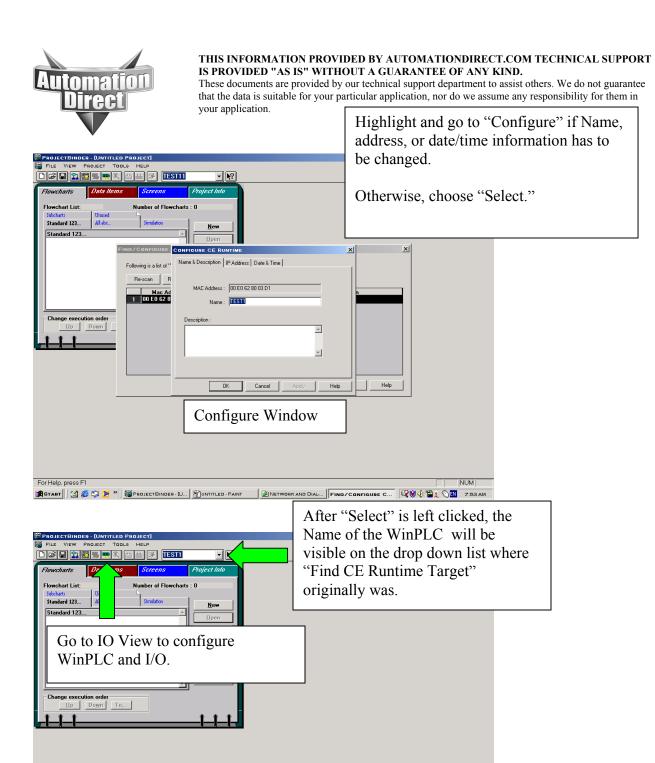












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