

SLC500 Ethernet Connection

Monitouch HMI Technical Note TN-MH-0006a

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1. Introduction

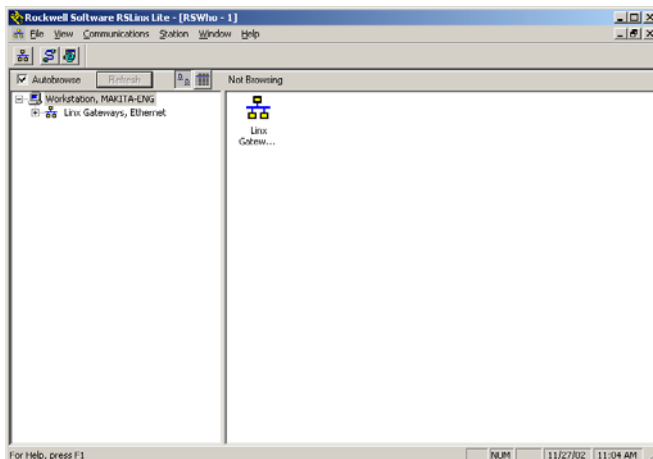
This document describes how to configure an Allen Bradley SLC500 PLC for communications to a V7i over Ethernet. The PLC used for this is a SLC 5/05 (1747-L552) but any SLC500 with Ethernet should work in the same manner.

2. Requirements

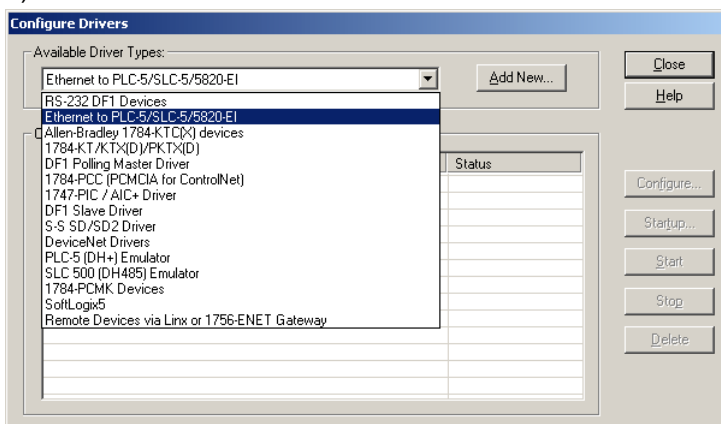
- 1) RSLogix 500 and RSLinx will be needed to program the PLC and configure the Ethernet port. For this an RS232C programming cable (AB part# 1747-CP3) is needed.
- 2) An Ethernet cable will be needed for communications. Allen Bradley recommends against using a cross-over cable for direct connection to a PC. Their documentation specifies a straight cable to a hub or switch.

3. Configuring RSLinx

- 1) Open RSLinx to configure communication setting.



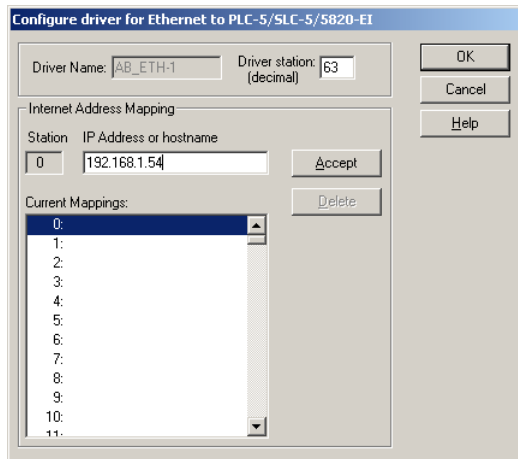
- 2) Add new drivers:



For RS232C communications, select "RS-232 DF1 Devices".

For Ethernet communication, select "Ethernet to PLC-5/SLC-5/5820-E1".

3) For the Ethernet configuration the following box should appear:

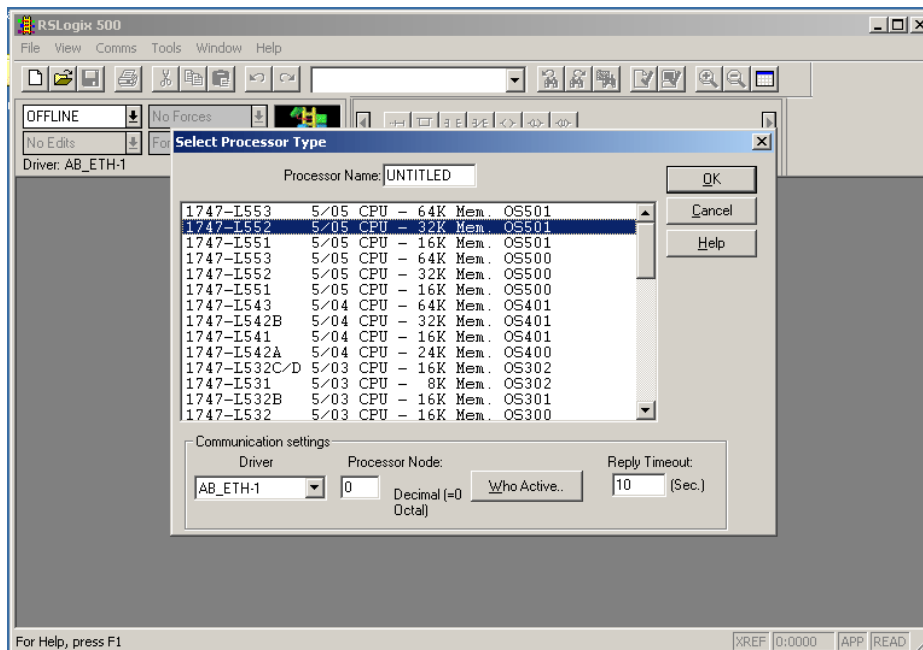


Enter the IP address for the PLC in the Host Name area.

For the RS-232 driver, click the Auto-Configure button with the cable connected to the PLC. The settings should be automatically set.

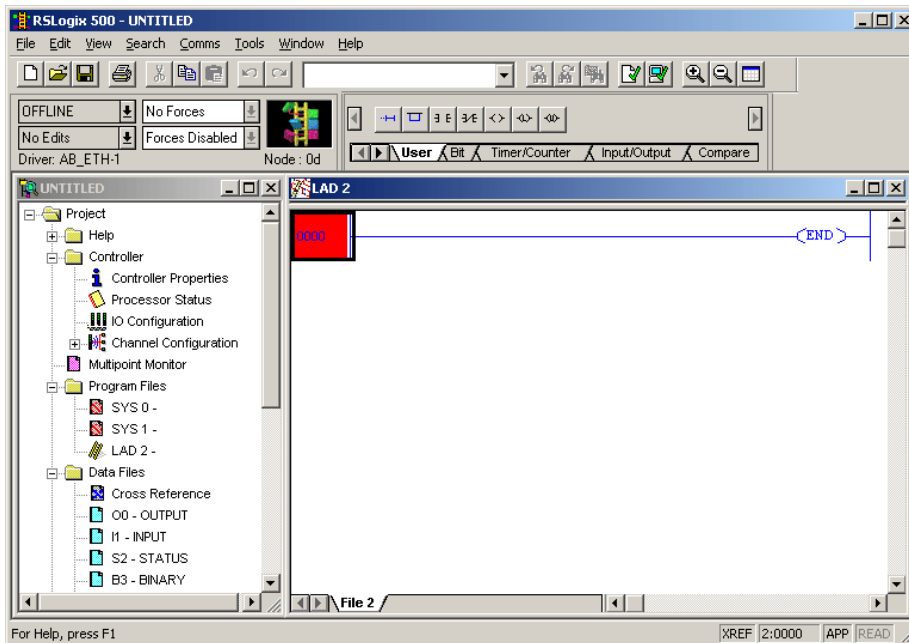
4. Configuring RSLogix 500

1) Start RSLogix 500 and create a new project. Select the correct processor type:

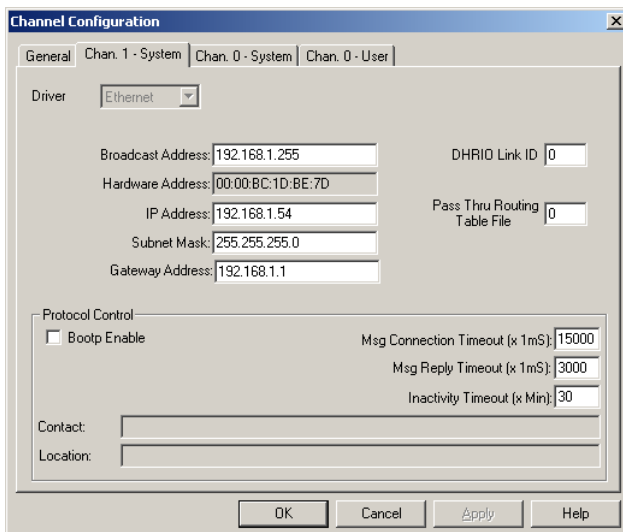




2) Open the Channel Configuration:



3) Under “Chan.1 – System”, configure the IP settings of the PLC:



Note: The serial settings are under the “Chan.0 – System” tab.

4) Now you can download the program to the PLC. You will need to set the driver for communications in RSLogix 500. You can do this using the Comms – Who Active Go Online. Then select the PLC that should show up under the Ethernet driver.

5. For More Information

1. Manuals (Monitouch)
 - PLC Connection Manual, Chapter 2
2. Allen Bradley Information
 - Website <http://www.ab.com>