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1. Introduction to AB MicroLogix ABMLGX Driver

Connect to AB MicroLogix PLC by using DF1 protocol over Ethernet.

1.1 AB MicroLogix PLC Settings

To configure your PLC you will have to install two software: RSLinx which is the Allen-Bradley connection manager and RS Logix Micro for Micrologix series or RS Logix 5000 for CompactLogix and ControlLogix series.

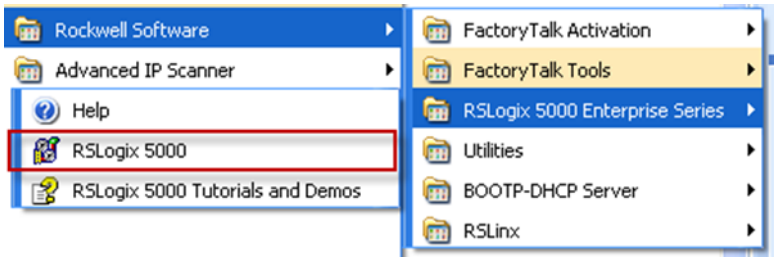


Figure 1.1 RSLogix 5000

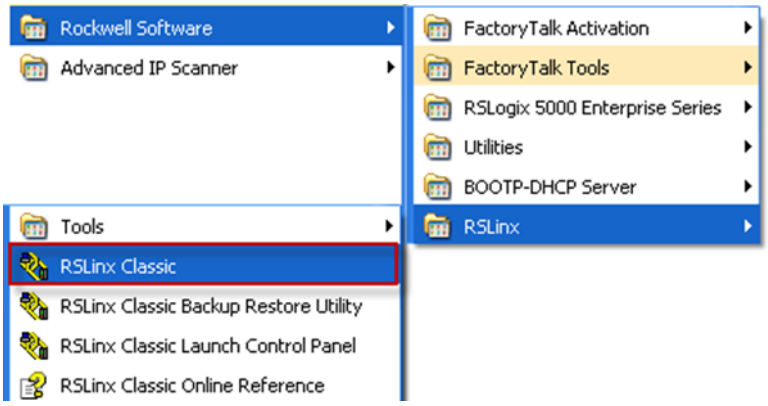


Figure 1.2 RSLinx

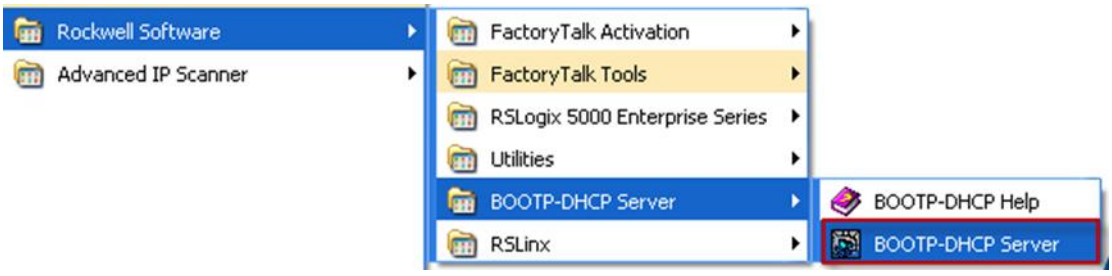


Figure 1.3 BOOTP-DHCP Server

Before connecting to the module if it has not been configured you need to set the IP address. Open the BOOTP server and make a new BOOTP request (Create a new relation)

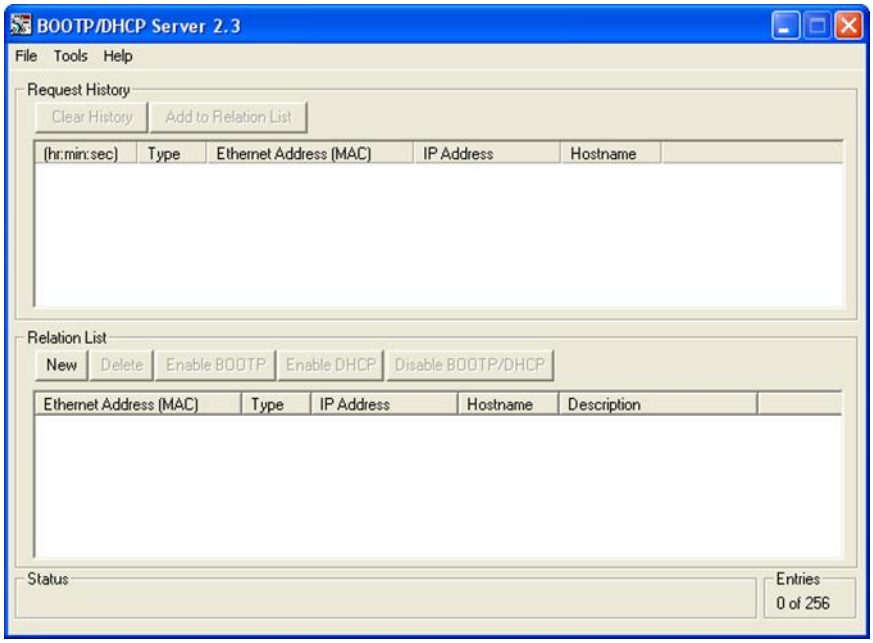


Figure 1.4 BOOTP-DHCP Server Interface

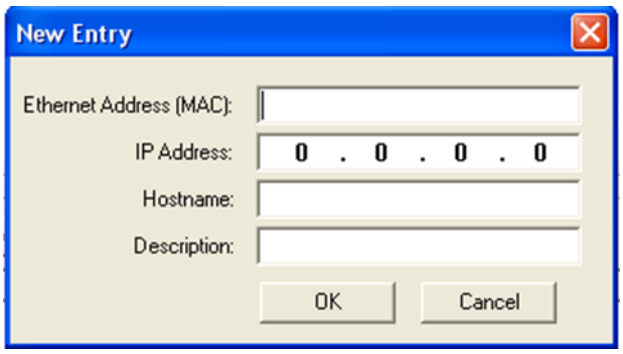


Figure 1.5 Setup DHCP

The MAC address of your PLC should be written on the hardware. Type the mac address and choose an IP address to set it to the PLC.

Now Open RSLinx to define the communication between the PLC and Allen-Bradley software.

Add a new driver of Ethernet/IP type.

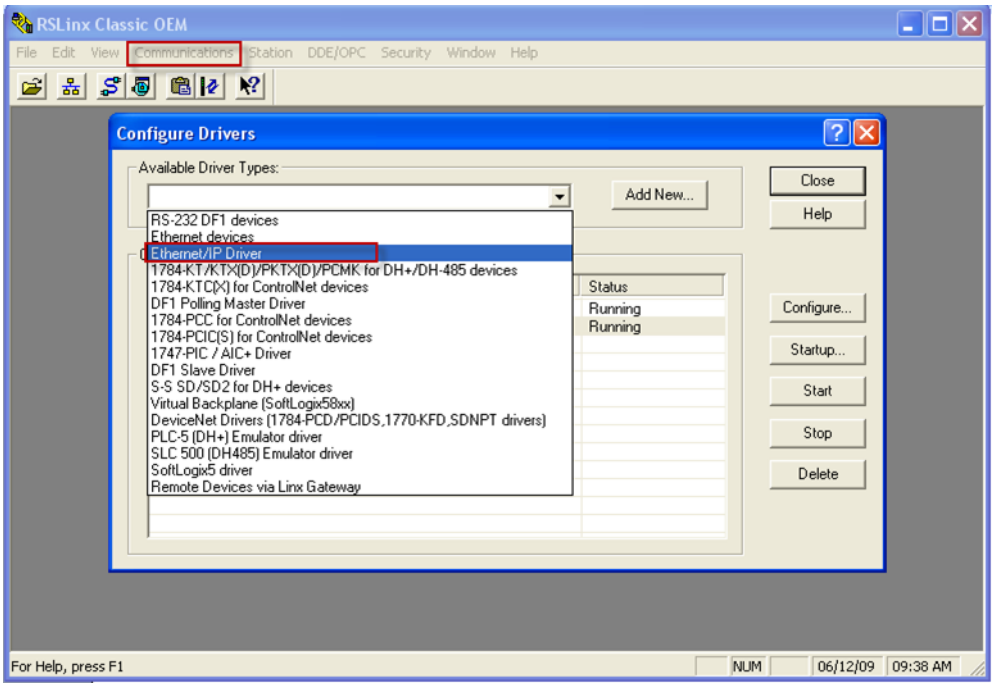


Figure 1.6 Setup Ethernet/IP Driver

Enter the IP address of the PLC

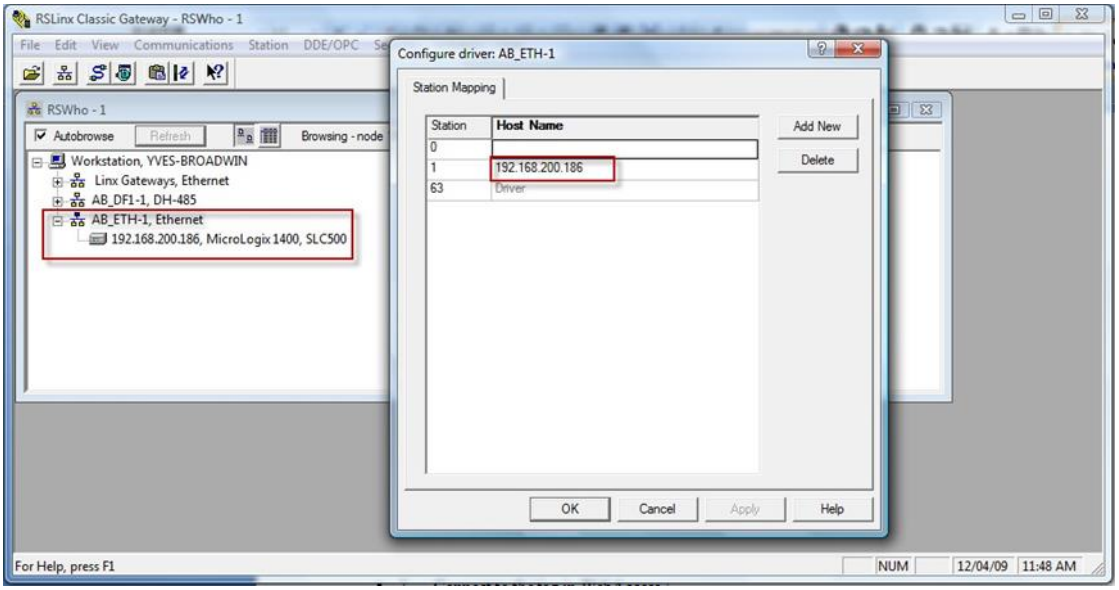
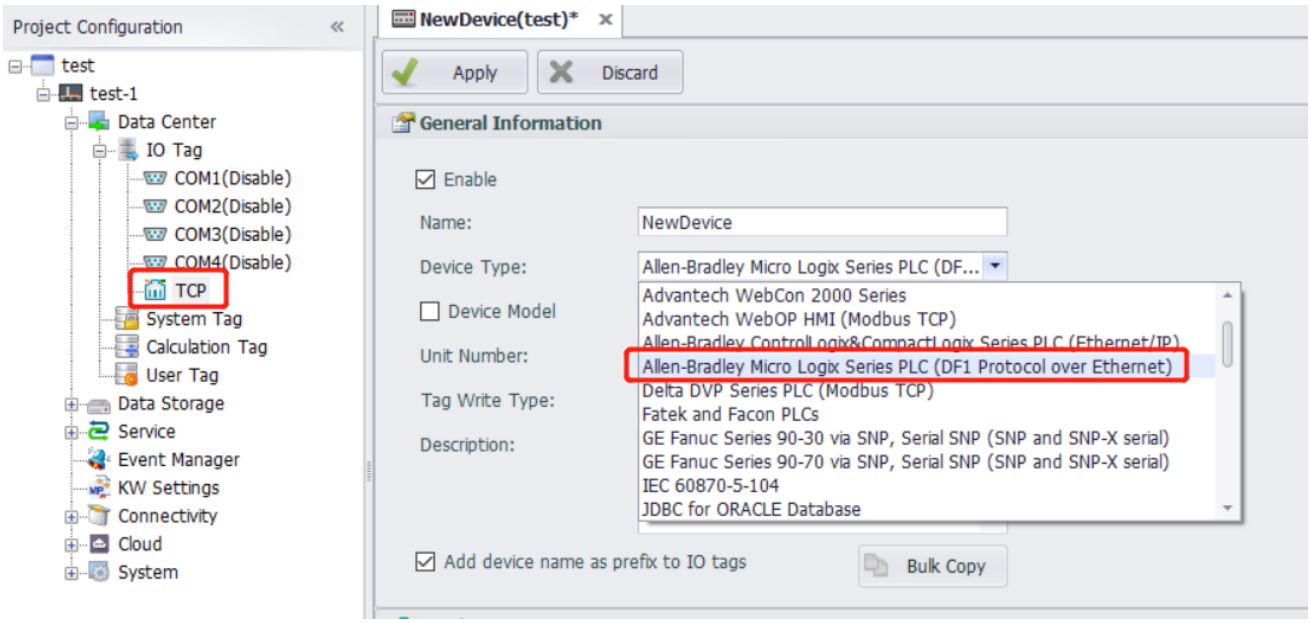
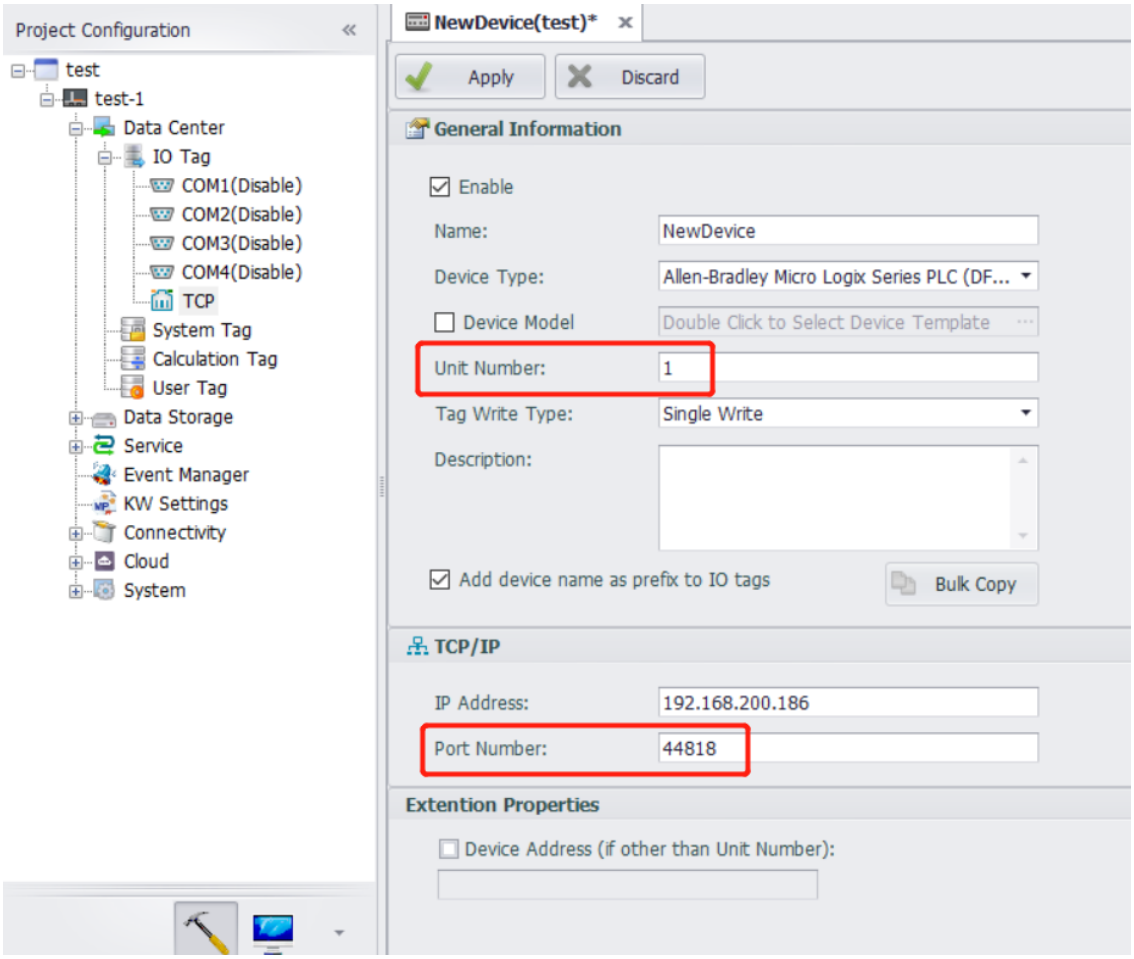


Figure 1.7 Setup AB_ETH-1 IP Address

2. Configure AB MicroLogix PLC connection by using ABMLGX

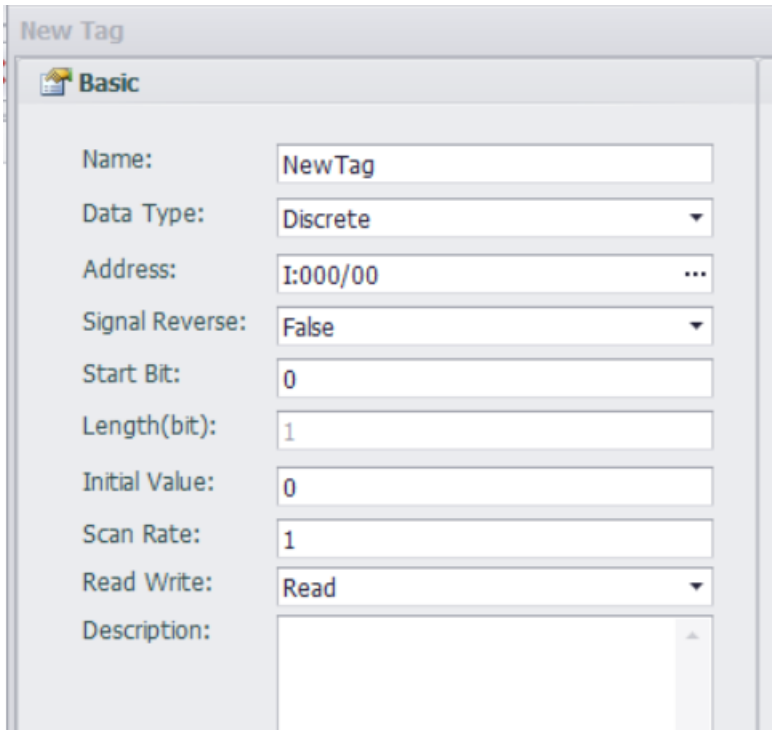
2.1 Device Setting





1. Unit Number can not be the same as others.
2. Port Number of PLC is 44818 by default.

2.2 Tag property



2.3 Parameter List

Address format	Date Type	Description
B3:0	Analog	Binary File
C5:0.ACC	Analog	Counter ACC
D9:0	Analog	BCD File
F8:0	Analog	Floating Number File
L9:0	Analog	Long File
N7:0	Analog	Integer File
S:0	Analog	Status File
T4:0.ACC	Analog	Timer ACC
I:000/00	Discrete	Input
O:000/00	Discrete	Output
S:0/0	Discrete	Status file / Discrete