



A-B Ethernet driver for JMobile

This Technical Note contains the information
needed to connect the system to Allen-Bradley
Controller using the A-B Ethernet driver

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A-B Ethernet Driver

The A-B Ethernet communication protocol is normally used on the A-B SLC 500 controllers on their Ethernet port. It is also commonly referred as "A-B ENET".

Settings

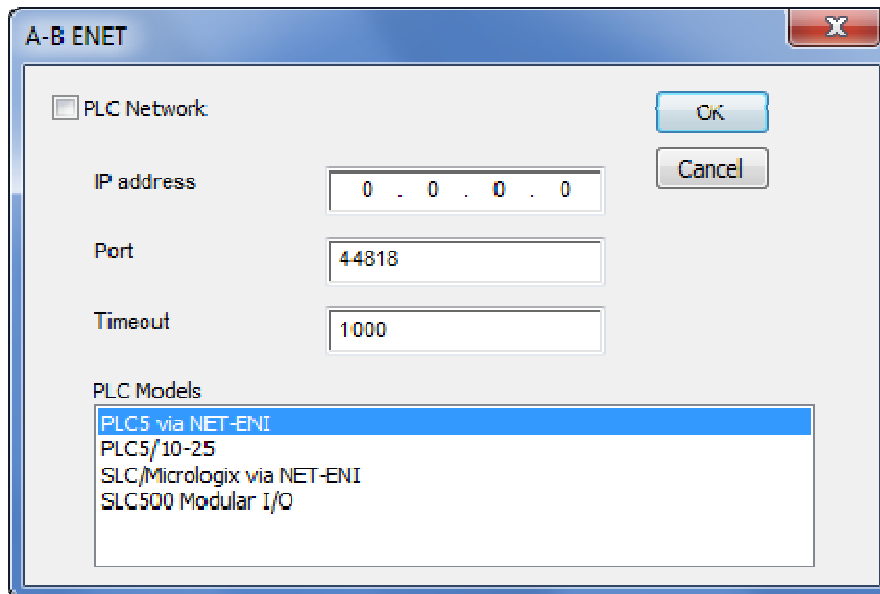


Figure 1

IP Address	The IP address of the Ethernet interface of the controller
Port	Communication Port number for the Ethernet interface
Timeout	The time the protocol waits the answer from the controller before issuing a new retry.

The protocol supports connection to multiple controllers.
To enable this, check the "PLC Network" check box and provide the configuration per each node.

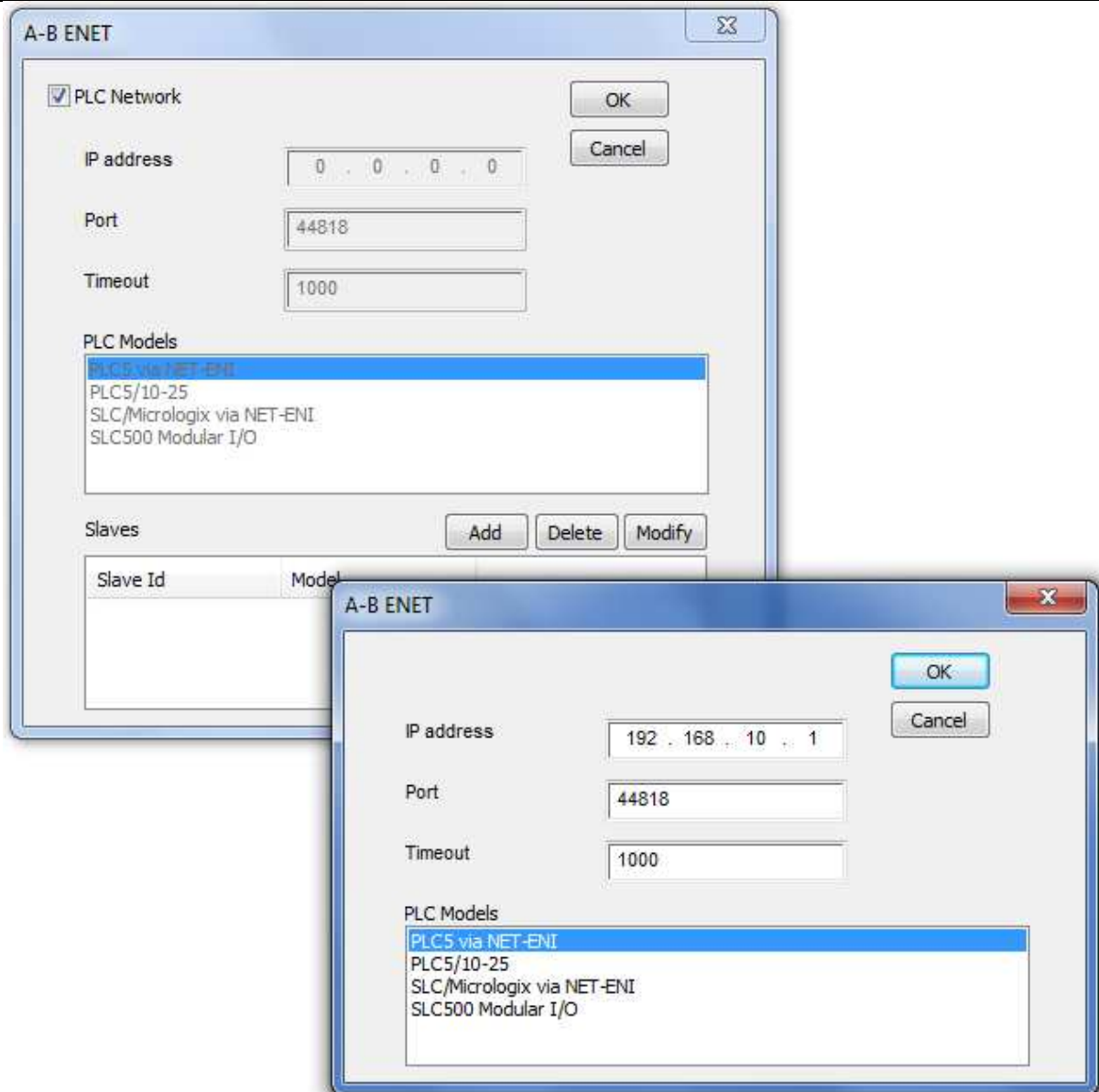


Figure 2

Controller Configuration

The PLC has to be properly configured only to match the IP address configured in the previous step. No major changes are required respect the default PLC configuration. An example is shown in the picture below.

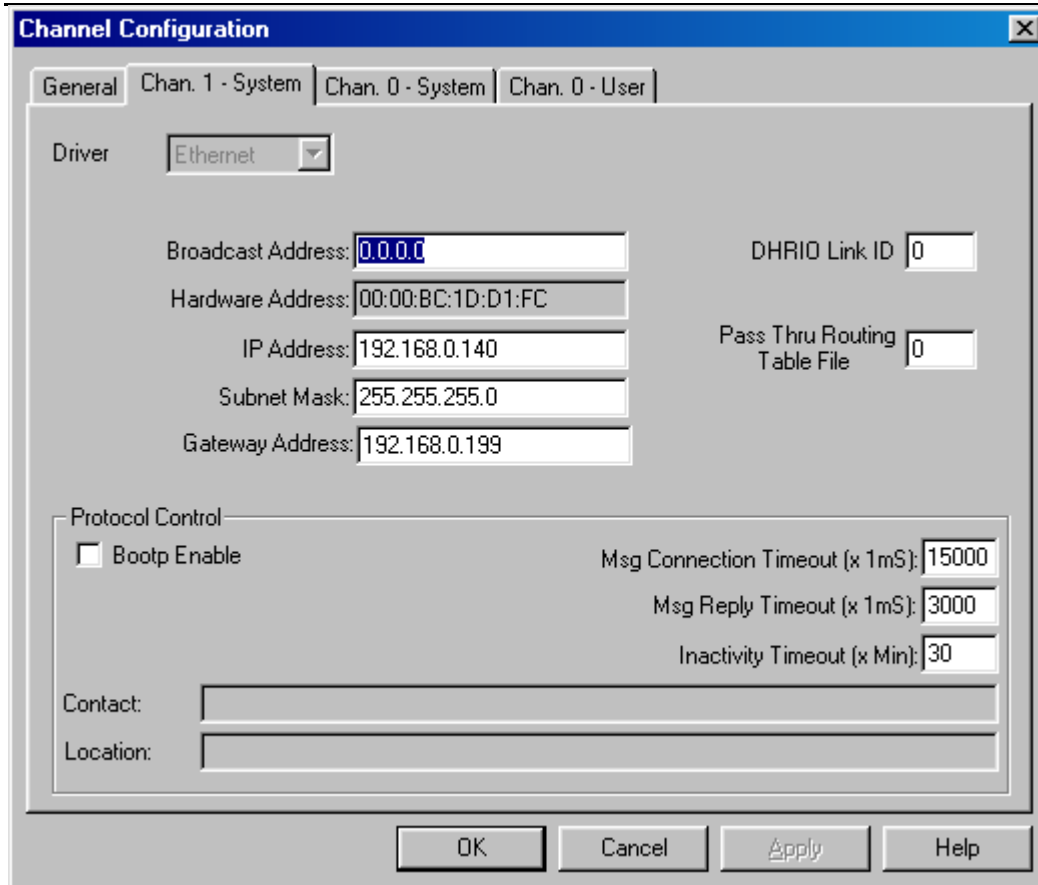


Figure 3

Configure the 1761-NET-ENI with Allen Bradley's ENI/ENIW Utility

The following steps explain how to configure the 1761-NET-ENI with the Allen Bradley's ENI/ENIW Utility.

Connect the SLC 5/0x controller and go online.

To set the network parameters into the 1761-NET-ENI you will need to connect to the device via its serial interface. For this you need the communication cable 1761-CBL-PM02.

Connect then the 8 pin din to the port 2 on the NET-ENI device and the 9 pin female D-shell to your computer com port.

Choose the "Utility Settings" tab; select the COM port and the baud rate.

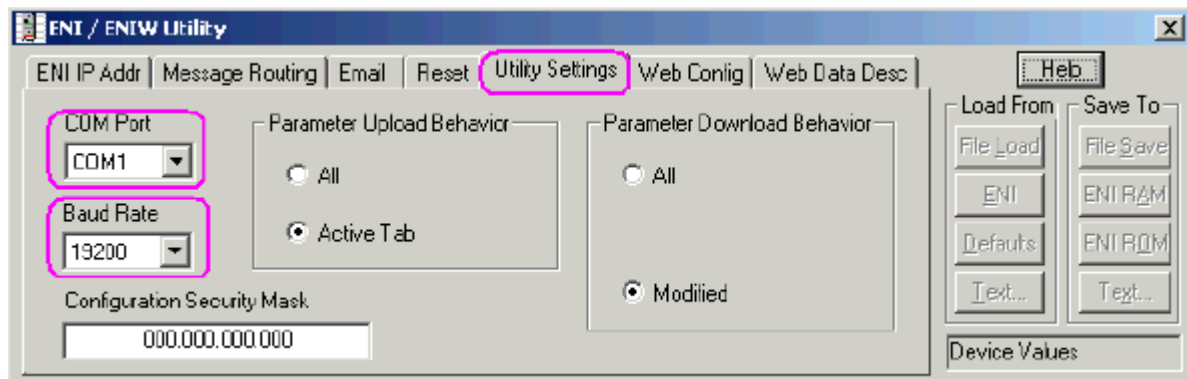


Figure 4

In the “ENI IP Addr” tab, ensure that select the correct “ENI Series” from the dropdown. Fill in the “ENI IP Address”, “Subnet Mask” and “Gateway” if needed.

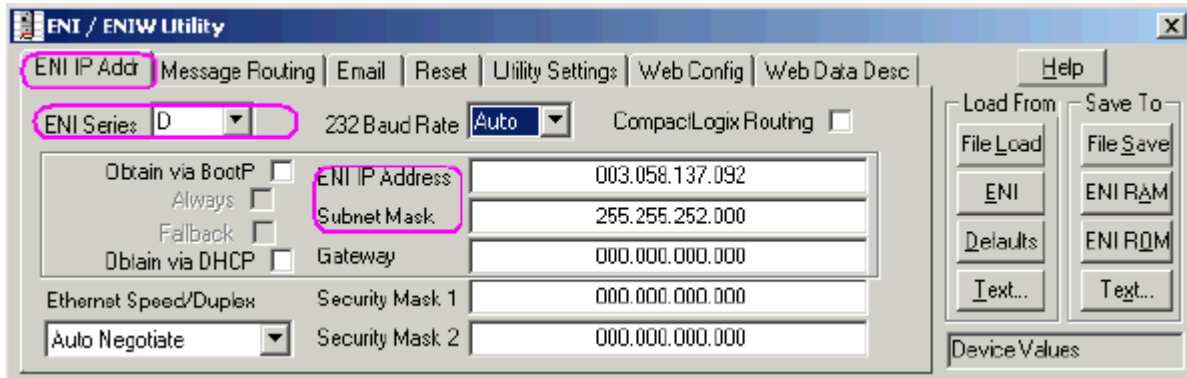


Figure 5

You are ready now to save the configuration to the NET-ENI device.

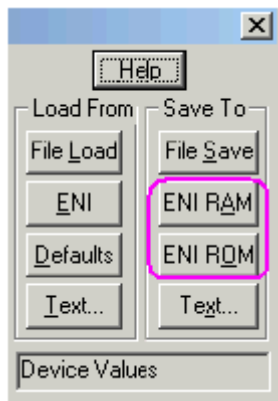


Figure 6

Notice that there are separate memory areas where to save the configuration to: “ENI/RAM” & “ENI/ROM”.

Ram is for temporary configurations, ROM is for a permanent configuration.

Communication Status

The communication status can be displayed using the dedicated system variables. Please refer to the User Manual for further information about available system variables and their use.

The status codes supported for this communication driver are:

Error	Notes
NAK	Controller replies with a not acknowledge.
Timeout	Request is not replied within the specified timeout period; ensure the controller is connected and properly configured for network access
Invalid response	The panel did receive from the controller a response, but its format or its contents or its length is not as expected; ensure the data programmed in the project are consistent with the controller resources.
General Error	Error cannot be identified; should never be reported; contact technical support