
M340 + Tesys T LTMR 08EBD on Modbus TCP/IP NOE IO Scanning

What is the purpose

Communication to Tesys T via Modbus TCP IP protocol

What units are effected

1. M340
 2. Tesys T
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Details

This application is divided into several parts

Section	Title
1	Parts List
2	Step by step setup
3	Online Testing
4	Remarks

Section 1: Parts list

Parts List table

Items used in the test

Items	Part numbers	Description
PLC M340	BMX series	PLC Hardware +
Motor Protection	LTMR 08EBD	Smart Protection Motor
Software	UNYSPUSFUV1X	Unity Pro S V 11

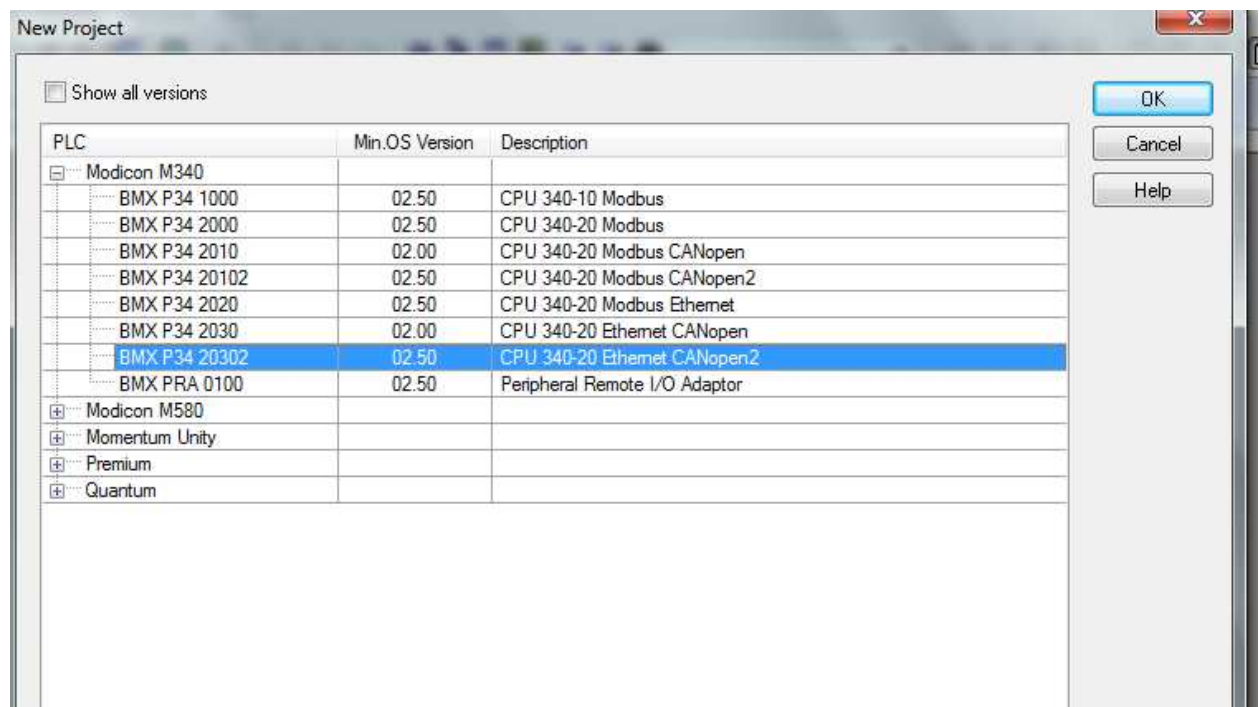
Section 1: Parts liststep by step

Step by step configuration software on Unity Pro :

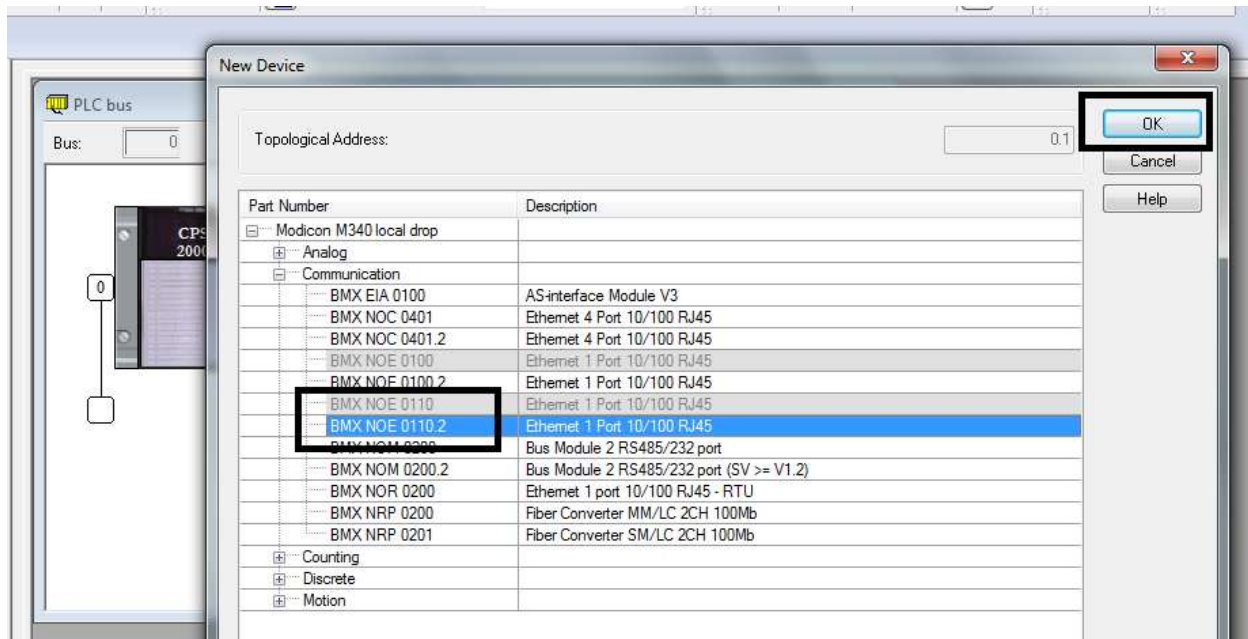
Hardware Configuration:

PLC setting

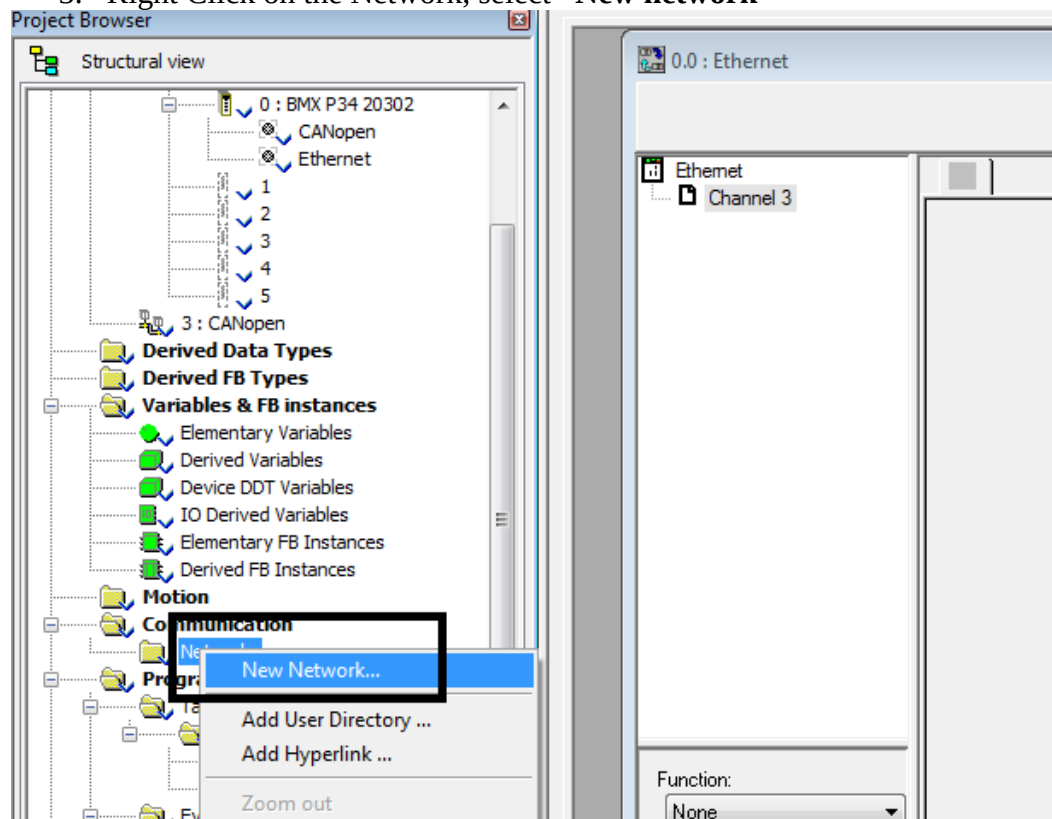
1. Please select the M340 Controller and Backplane then Click “OK”



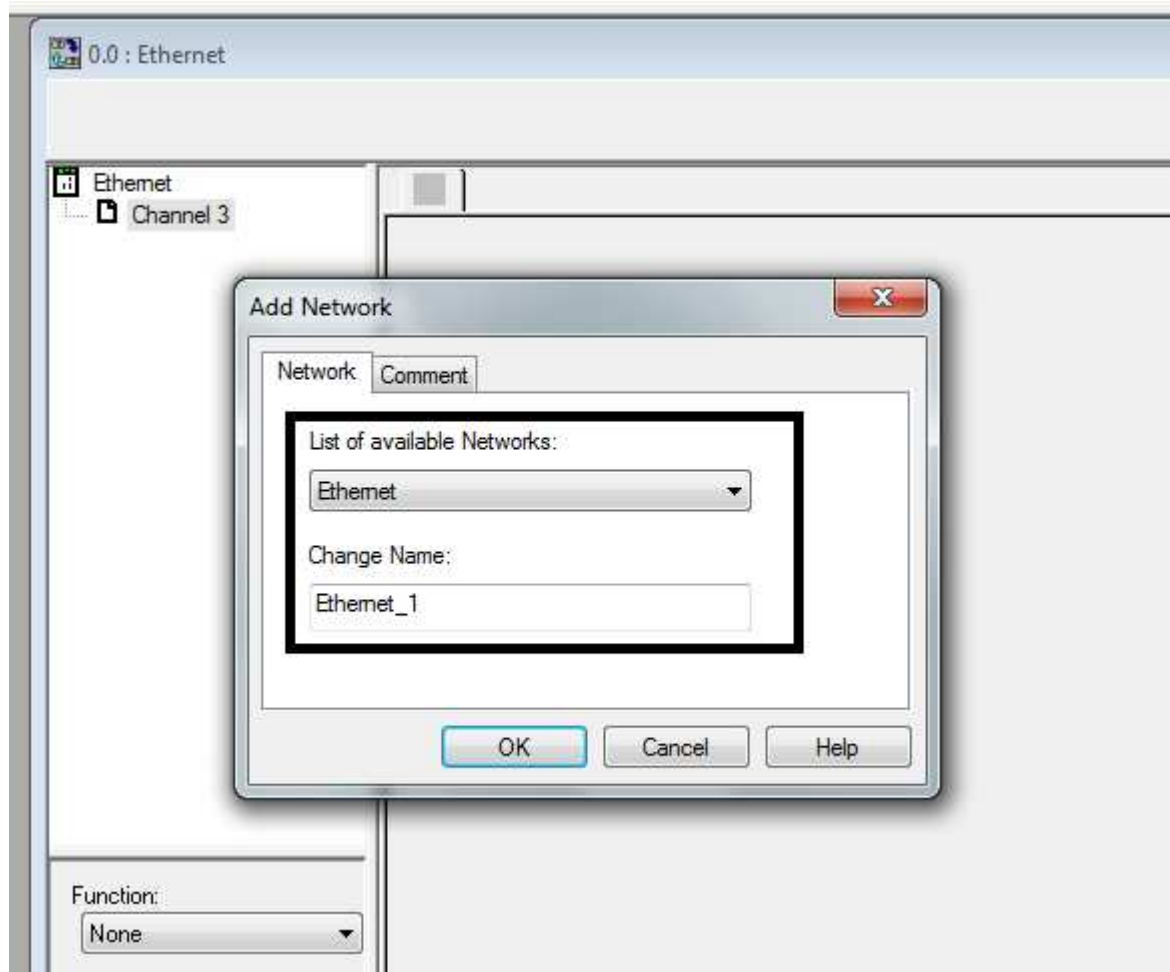
2. Please add new “NOE” module in the backplane



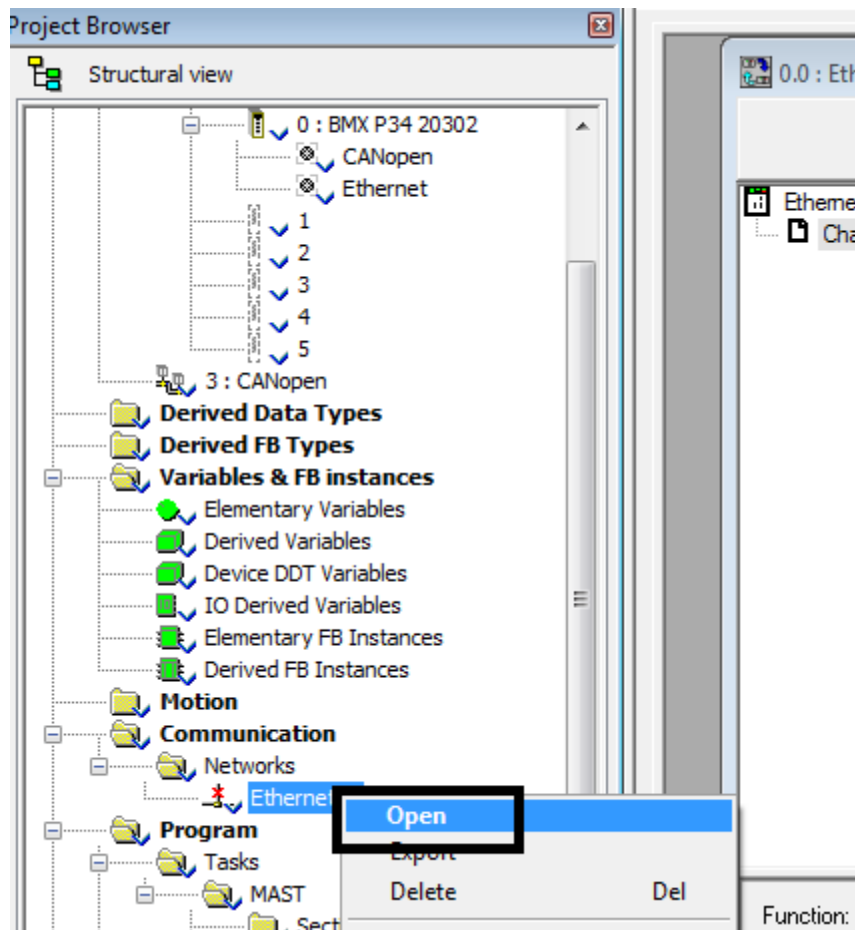
3. Right Click on the Network, select “New network”



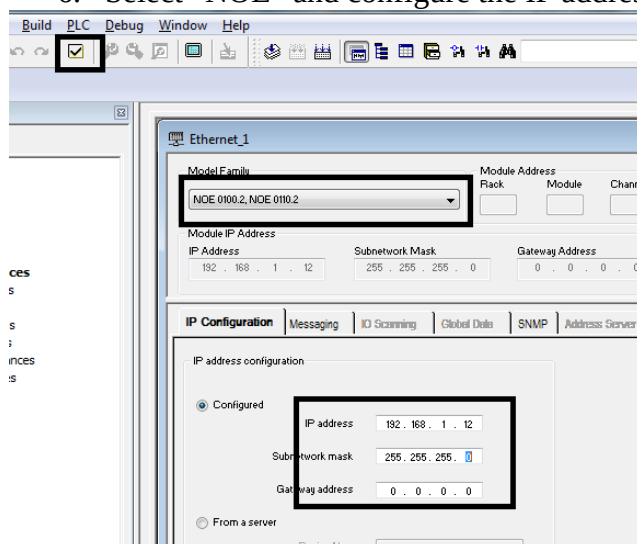
4. Select “Ethernet” and use the default name “ethernet_1” then click “Ok”



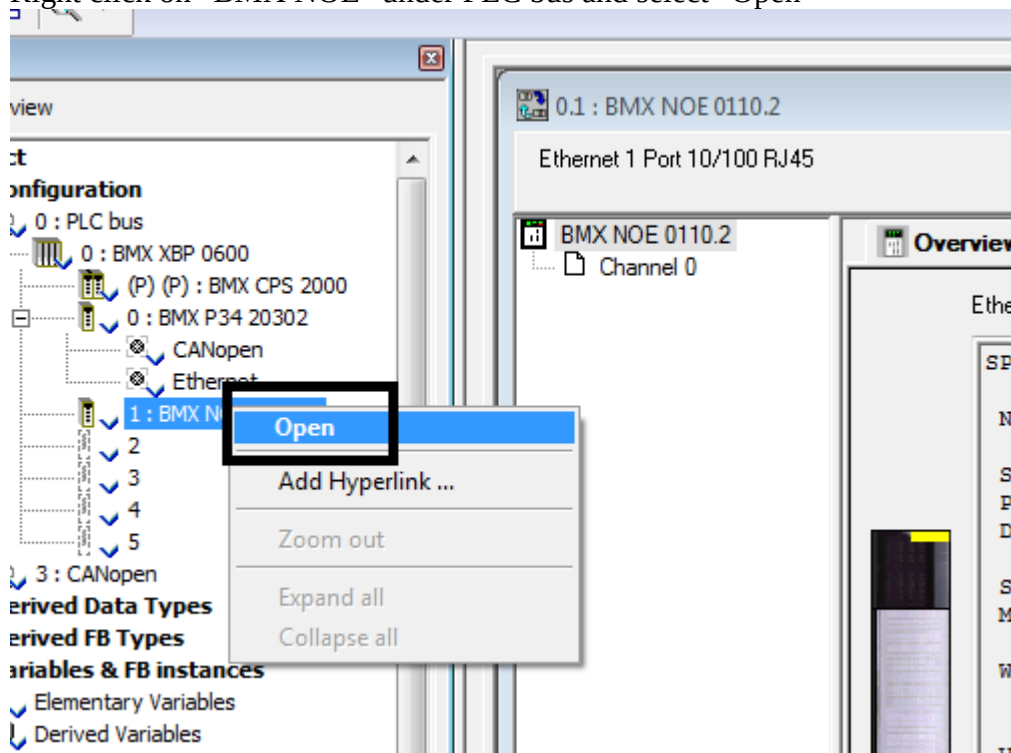
5. Right click on “Ethernet_1” and “open”



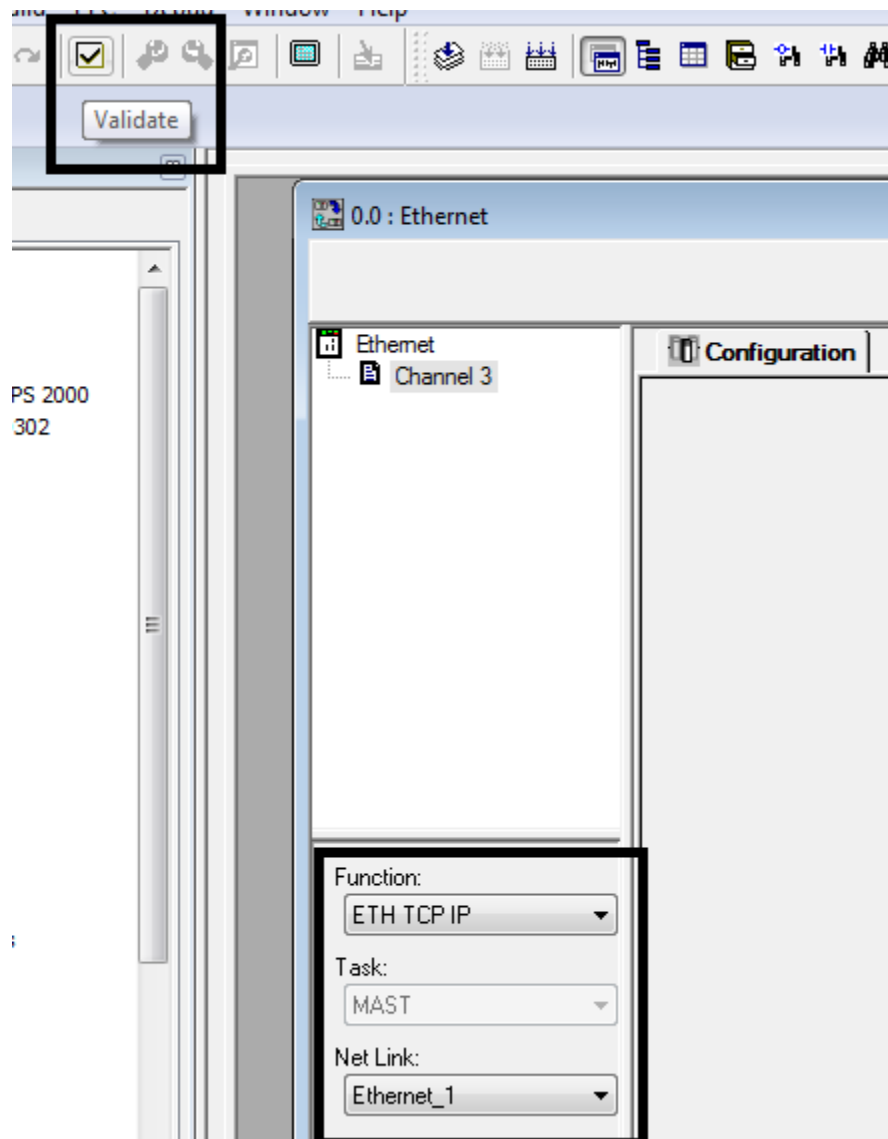
6. Select “NOE” and configure the IP address and “validate” the same.



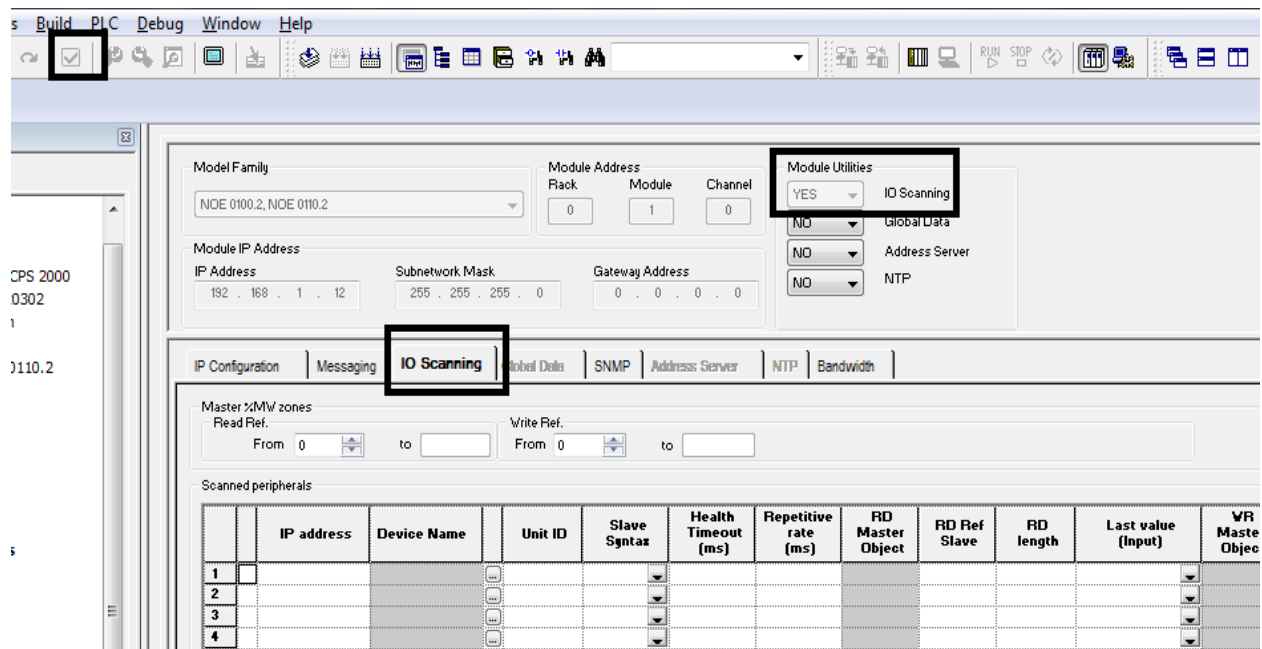
7. Right click on “BMX NOE” under PLC bus and select “Open”



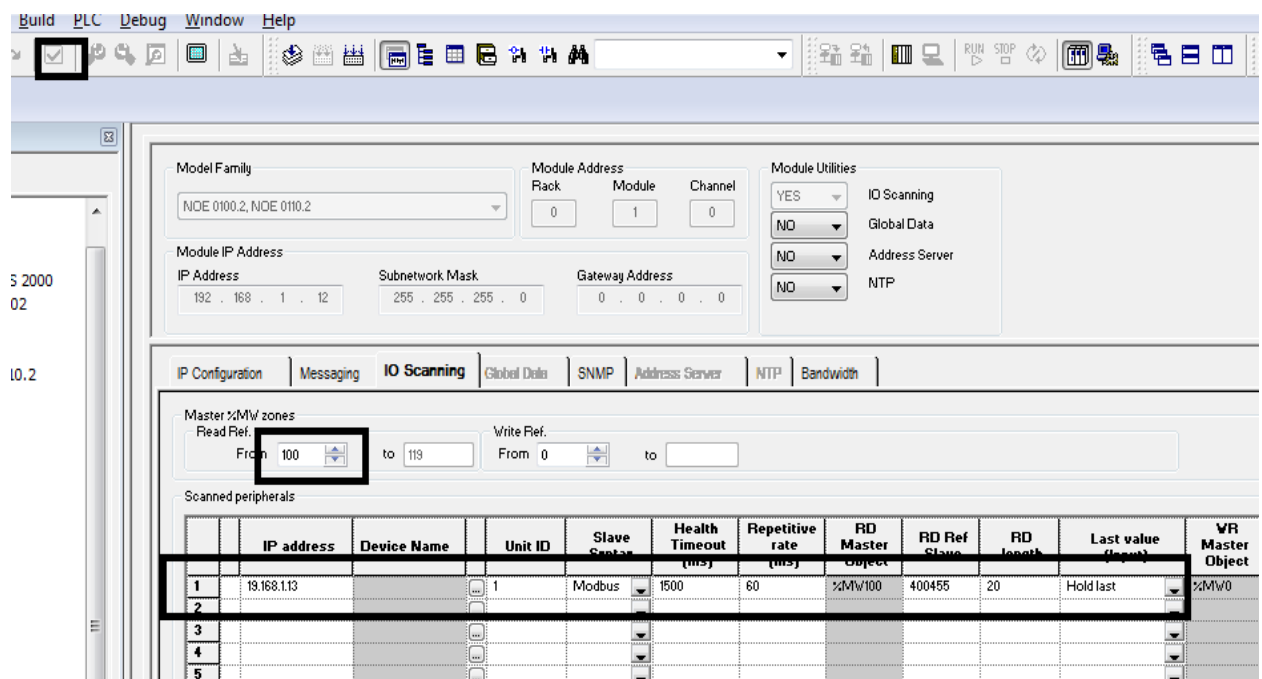
8. Please select Function as “ETH TCP IP” and Net Link as “Ethernet_1” and “validate” the same



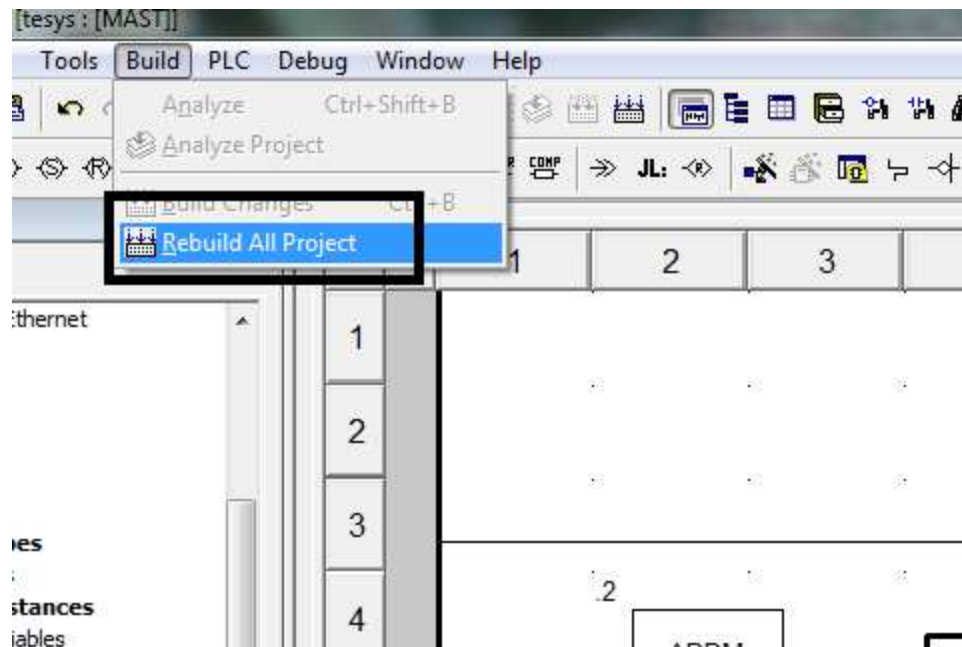
9. Enable “IO Scanning” by changing the Module Utilities> IO Scanning to “Yes”



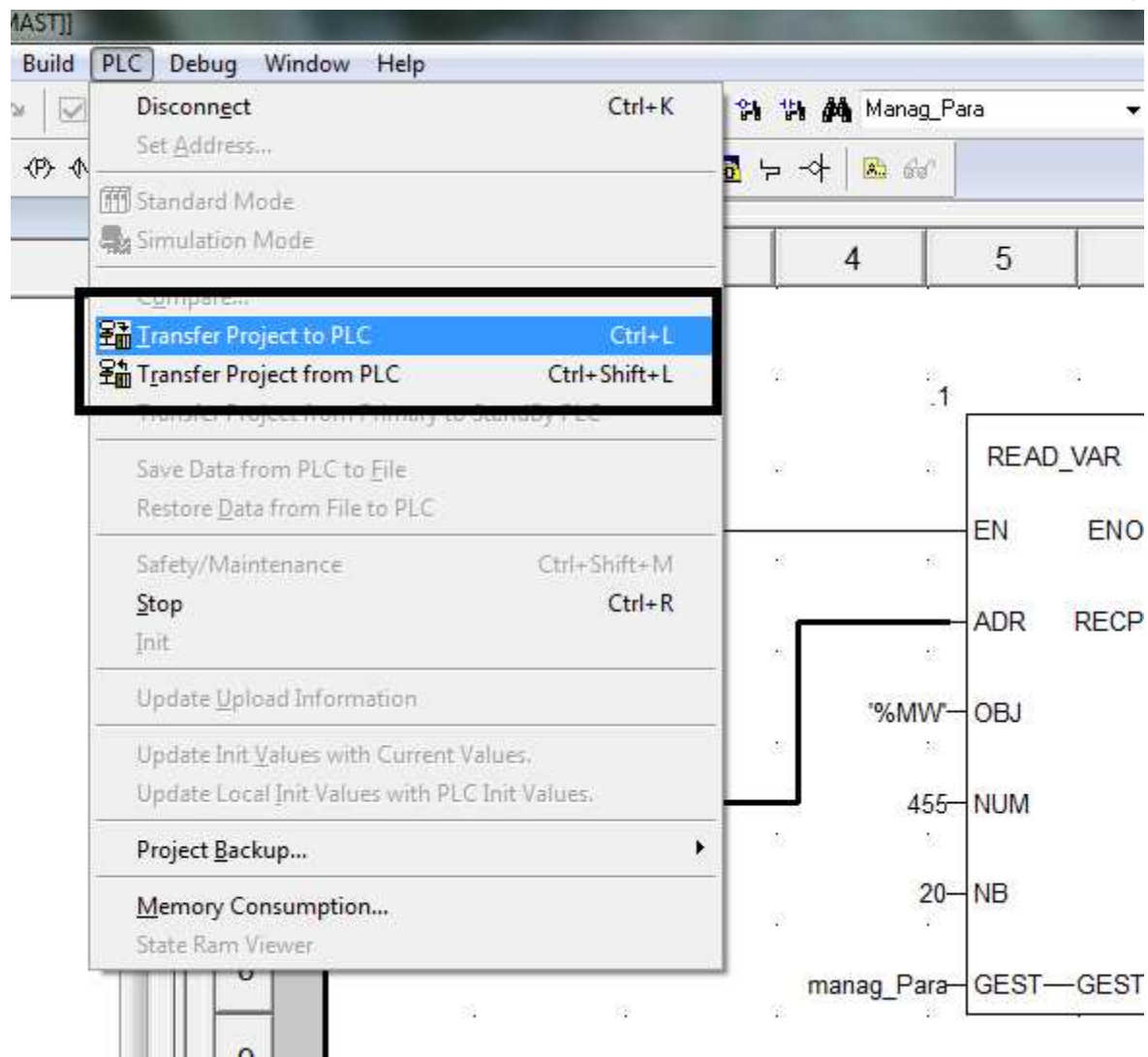
10. Write an IO Scanning Line as per shown below, Keep the Unit ID as “1”. In this example we have used a line to read the Values from LTMR and store the data into %MW100 to %MW120



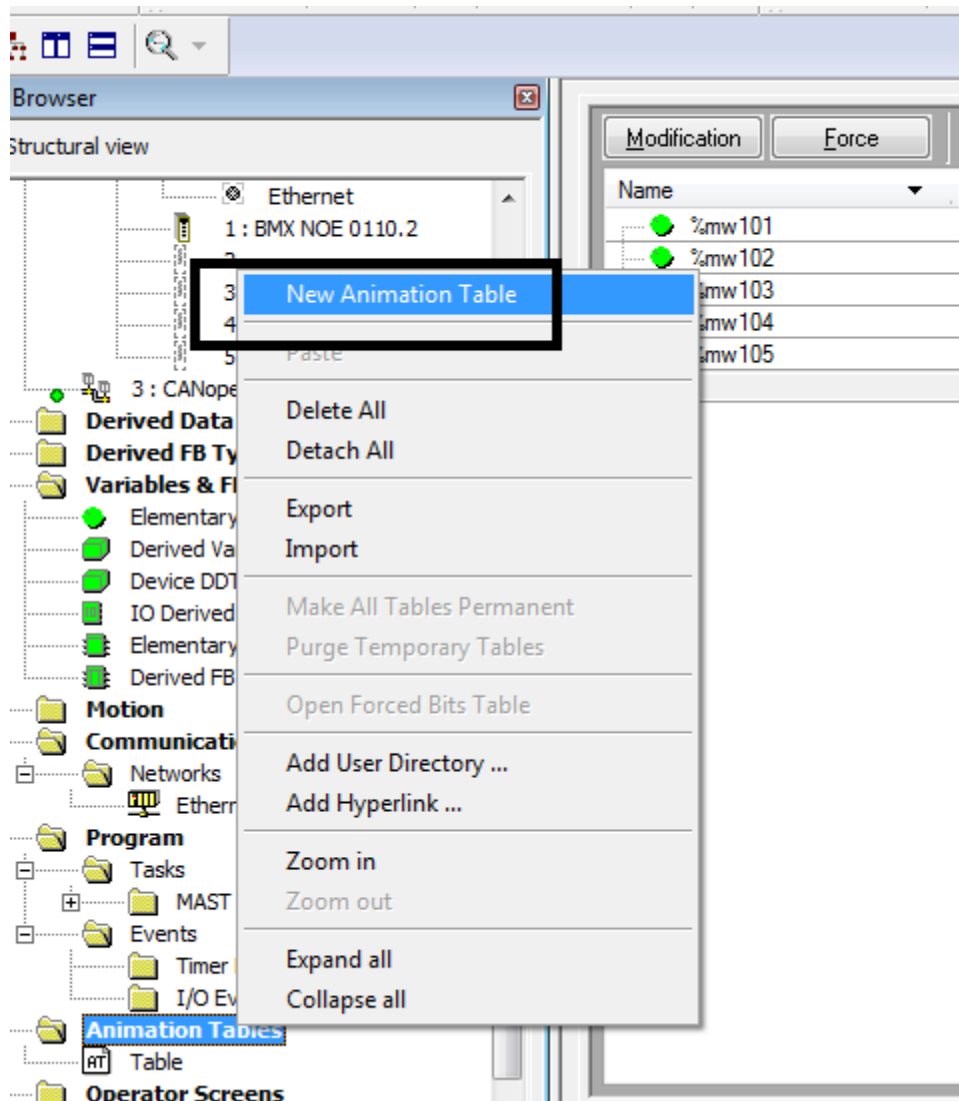
11. “rebuild” the project



12. Use Read Var Function Block to communicate with motor protection and then Transfer the Program to check the data communication working well



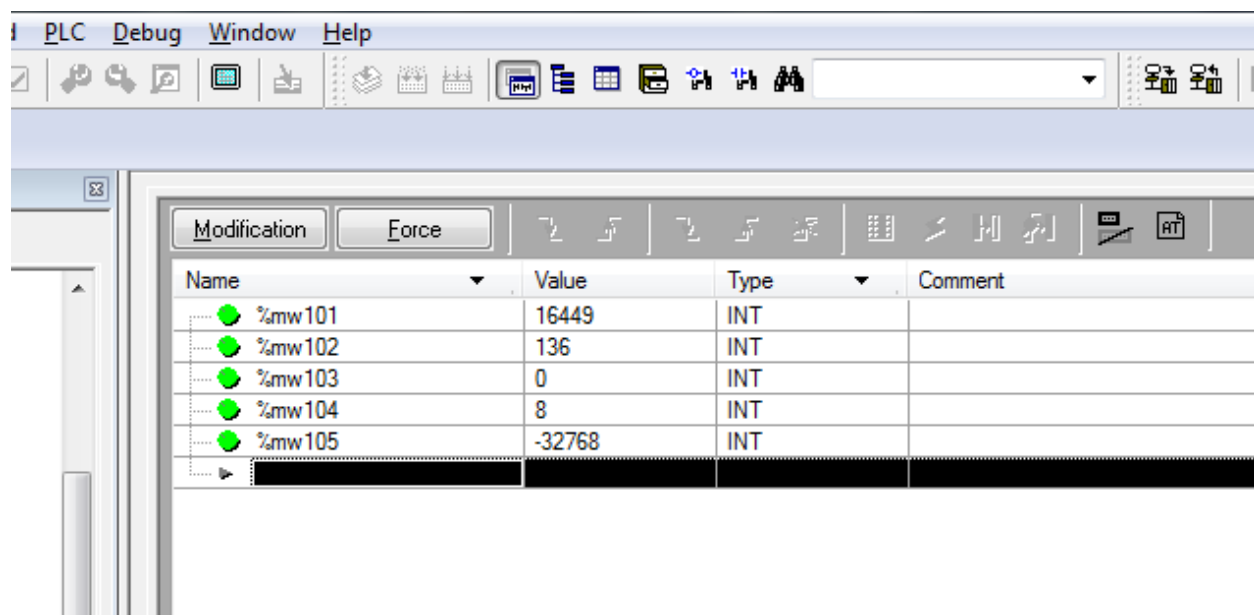
13. Create a “new Animation Table”



Section 3: Online Testing

Online testing :

1. Download the PLC program to the M340 hardware
2. Configured the Motor Protection using So Move software
3. Test the program by showing the animation table value
4. If connection success, the display will appear like this



Section 5: Remark

This features to meet customer expectations regarding multi monitoring and Control DOL motor, with this feature customer can implement process and control instrument SCADA in one panel