**ANC-100e and ANC-120e Ethernet and USB to DH+ Converter**

## Automation Networks

# MatrikonOPC Server for Allen Bradley PLCs with ANC-100e using HMI feature on a Data Highway Plus network

*This document provides information to set up MatrikonOPC Server for Allen Bradley PLCs running in a computer connected via Ethernet Network with an ANC-100e to communicate with a SLC5/04 or PLC5 processor on a Data Highway Plus Network using the HMI feature.*

Note: Before proceeding, make sure

- ✓ ANC-120e Driver is installed *(Only if using ANC-120e)*

- ✓ Network Adapter is correctly configured to access ANC-120e or ANC-100e

- ✓ ANC-120e is connected to the computer and DH+ network or ANC-100e is connected to the same Ethernet network or directly to your computer, and to the DH+ network.

For this example:

**ANC-100e** IP address = **192.168.0.230**
**SLC5/04** DH+ node = **03**

1. Turn ON the first row in the ANC-100e's "*HMI*" tab in the web interface
2. Enter an IP address that is not being used (keep in mind that it has to be in the same network the ANC-100e is) and enter the DH+ node of the device that you are connecting to
3. You can repeat steps 1 and 2 for each row to communicate with up to 5 DH+ devices if necessary, using a different IP address in each row
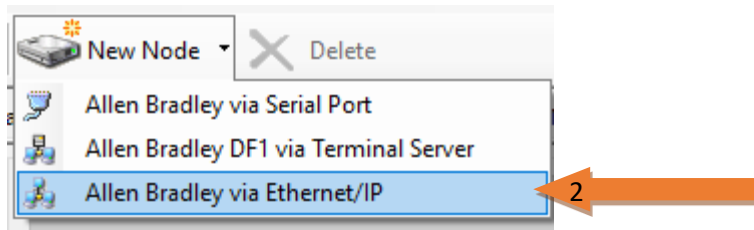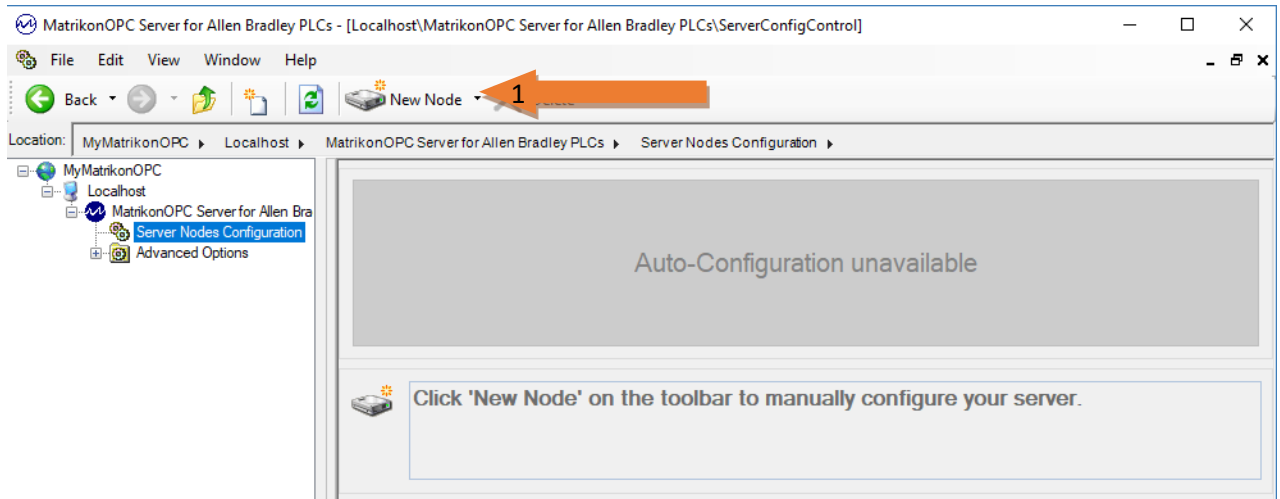   Click "*Apply*" and wait for the unit to reboot (5 seconds)



4. Open "*MatrikonOPC Server for Allen Bradley PLCs*" application

5. Click *in "New Node icon"* and select *"Allen Bradley via Ethernet/IP"*





6. Enter a name for the new node (*"Allen Bradley via Ethernet/IP"* for our example) and enter the IP Address you wrote in the HMI tab web configuration of the ANC (*"192.168.0.231" in our case*). the description will be filled automatically once you create the node
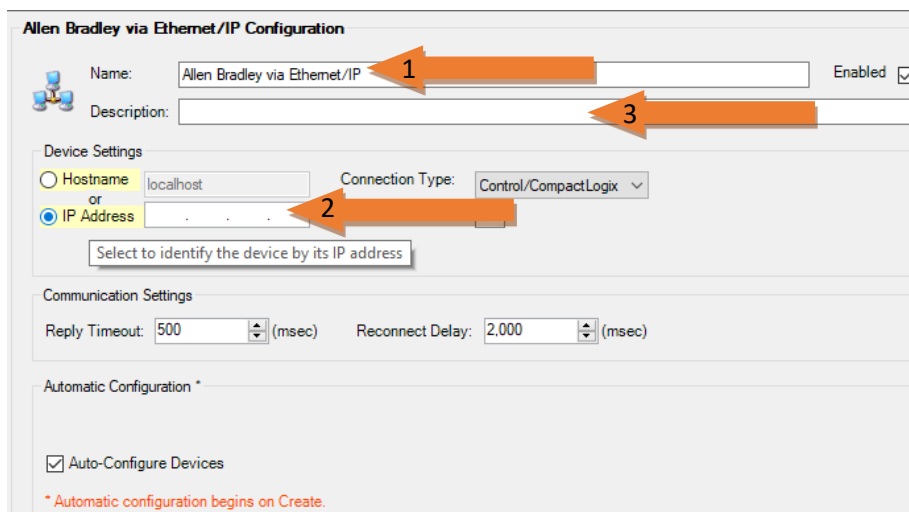


7. Select the *Connection Type…* We have a SLC 5/04 so we selected: "*PLC5/xxE or SLC 505*" and click the *"Create"* button
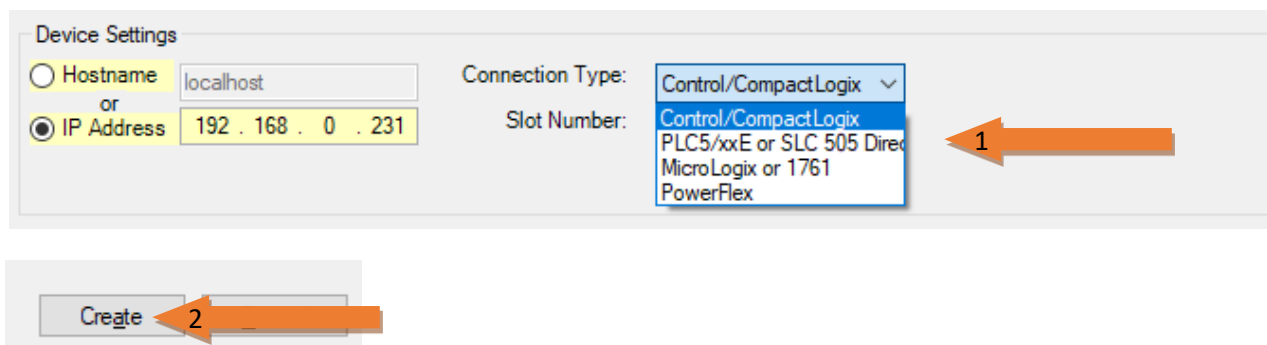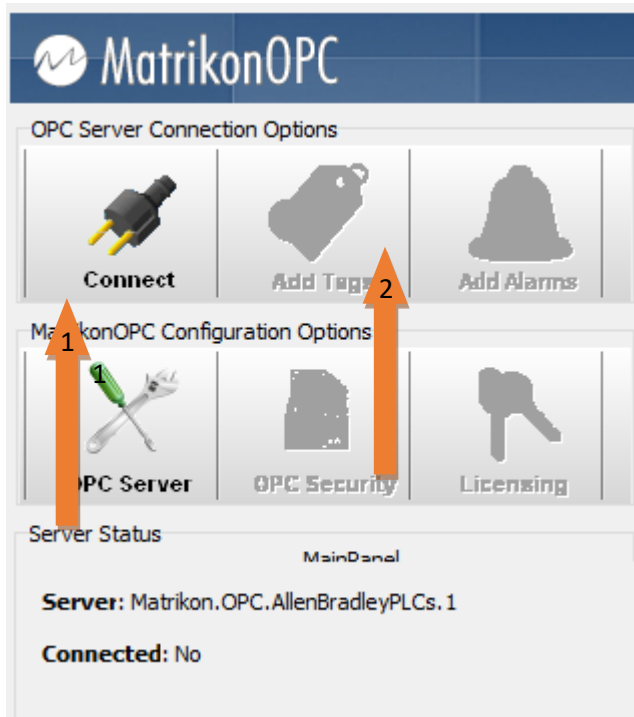
8. If the PLC has a name it will be filled automatically. Change the PLC node number to the one configured in the HMI tab web configuration ("3" in our case) and click "Apply"
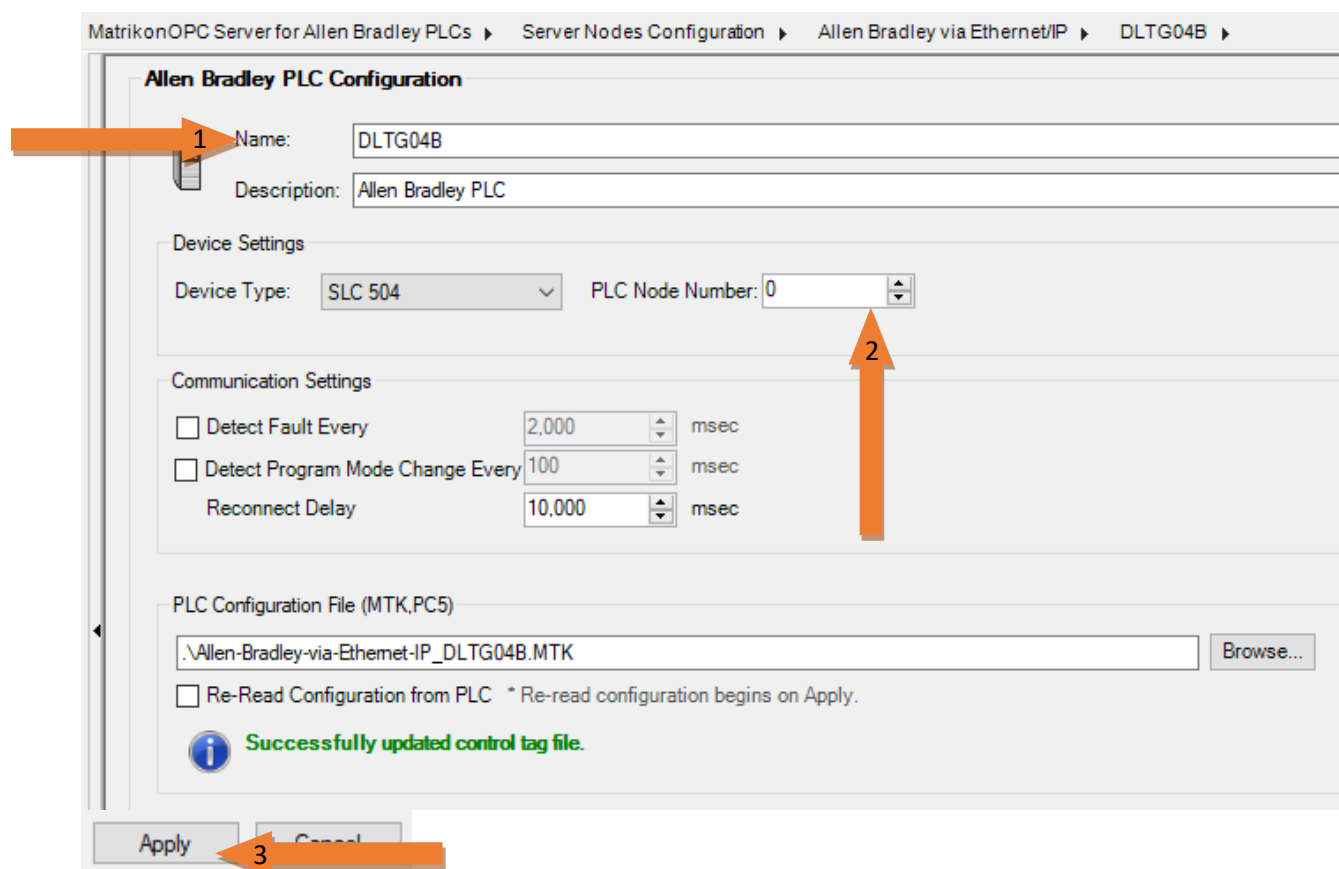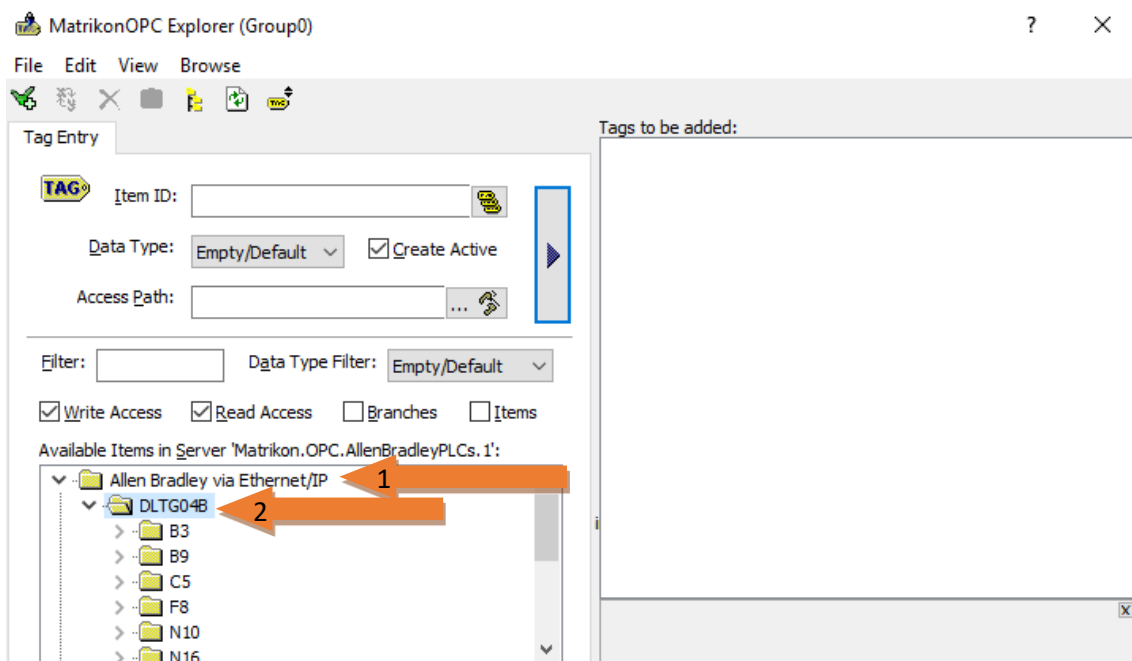
9. Open *MatrikonOPC Explorer* to connect to the OPC Server and start working with your PLC (*adding TAGS for example*). Search for the OPC Server Name
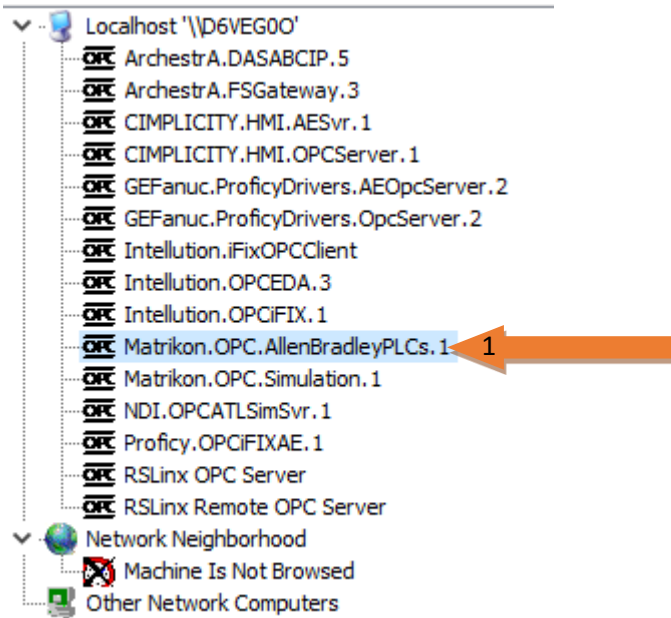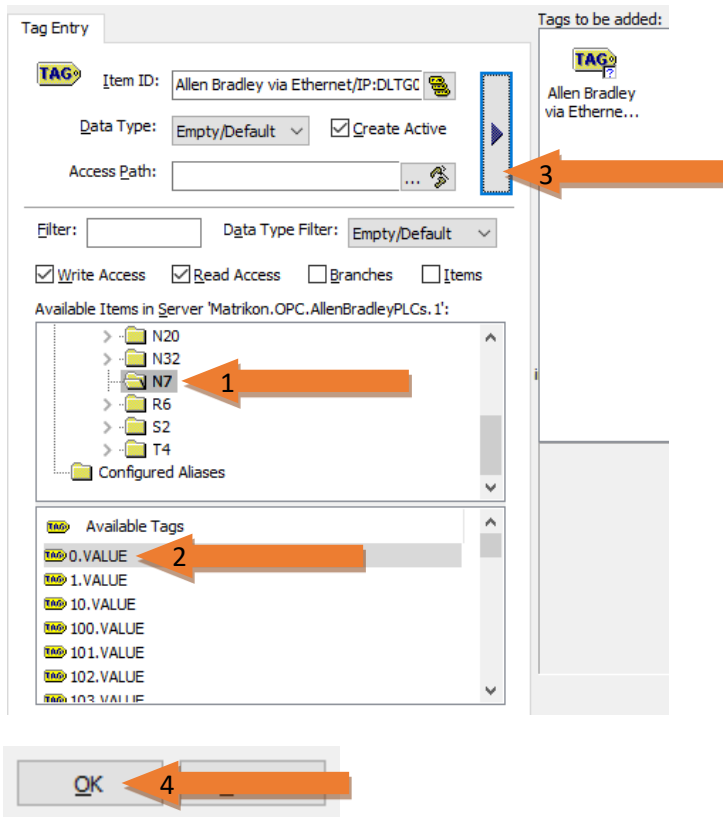
10. Select *"Connect…"* and then *"Add Tags…"*



11. In the new window select "Allen Bradley via Ethernet/IP" and search within the PLC (*"DLTG04B"*) for the TAG or TAGs you are going to work with. In our case is N7:0, and the value is 56.

12. Select the item *"N7"* and then select the tag *"0.VALUE"* and click on the arrow button to add the *TAG*. Click *"OK"* button.



13. If everything is correct you will see the value of the TAG. In our example *"56"*