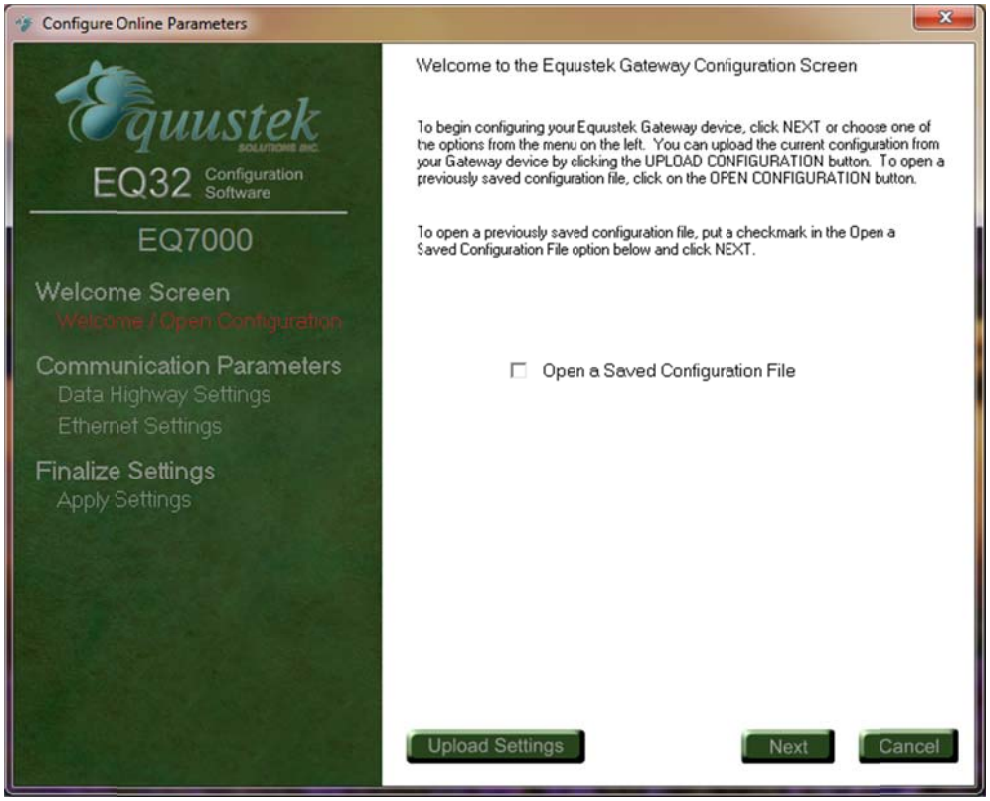
Accessing Allen Bradley DH+ PLC 5 and SLC 504 with EQ7000 using Automated Solutions CLG_DH Control Logix Gateway Ethernet Driver.

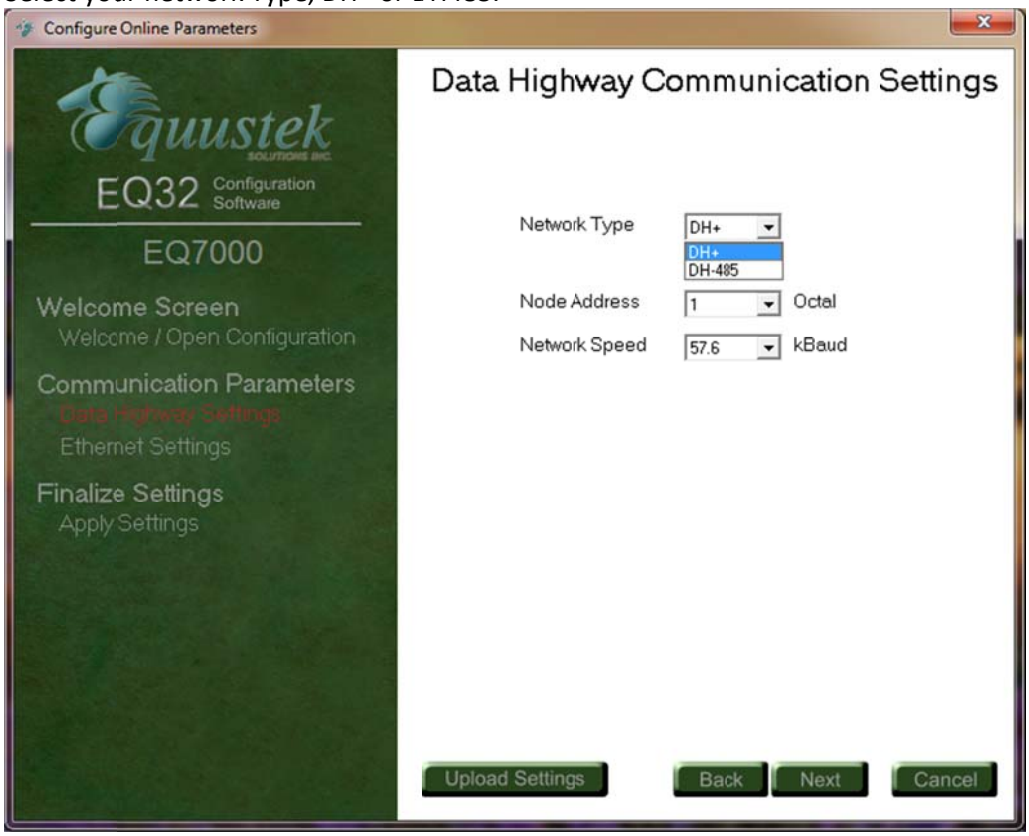
To configure EQ7000 first start the EQ32 configuration software, and select EQ7000.

Select the serial port that the USB occupies under your Device Manager.
After selecting the right serial COM port, click on Configure.

Click on Next



Select your network Type, DH+ or DH485.



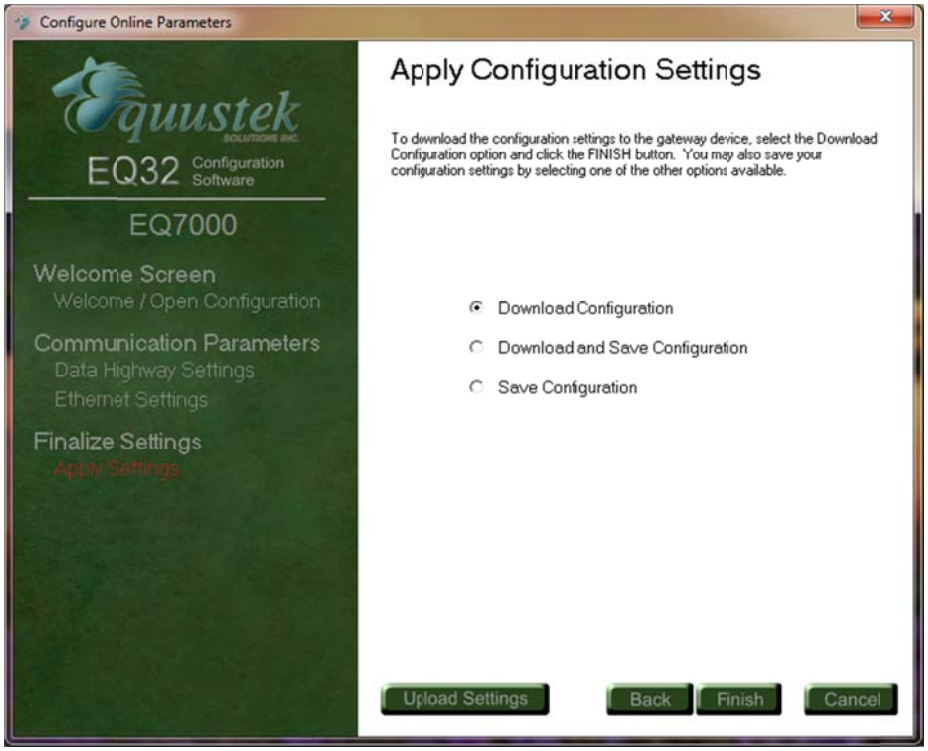
Select a unique node address for the EQ7000.

Select the DH+ network speed.

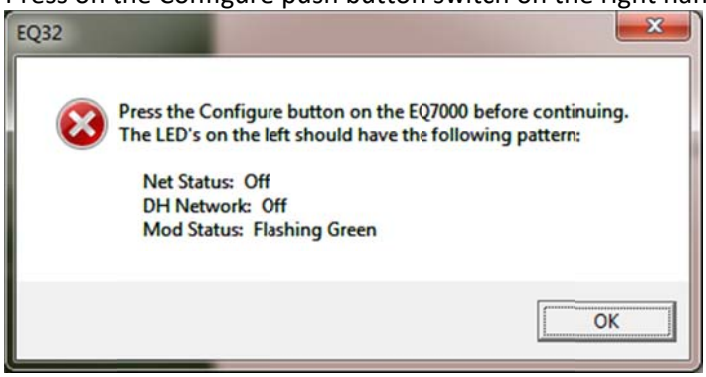
Click on Next.

Enter an IP address for the EQ7000, and the Net mask as well as the Gateway.

Click on finish.

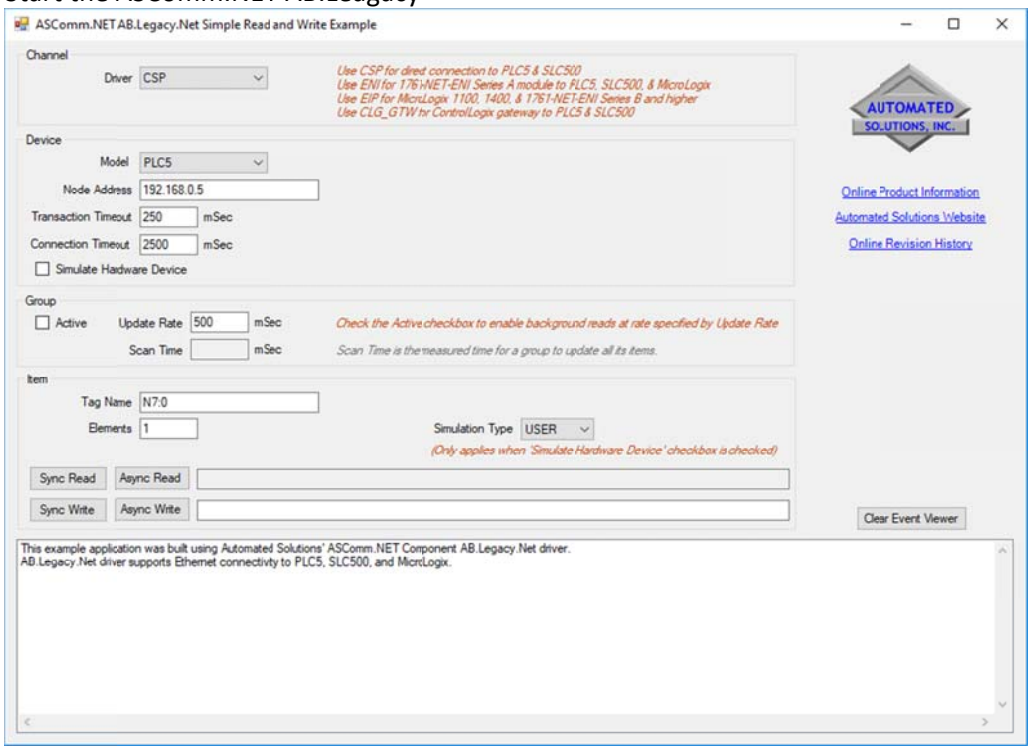


Press on the Configure push button switch on the right hand side of the unit and click OK.

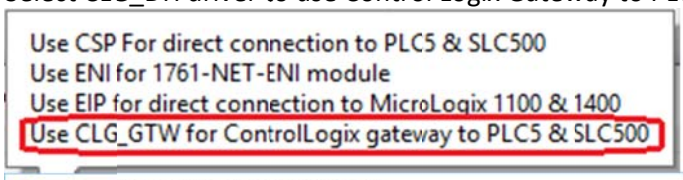


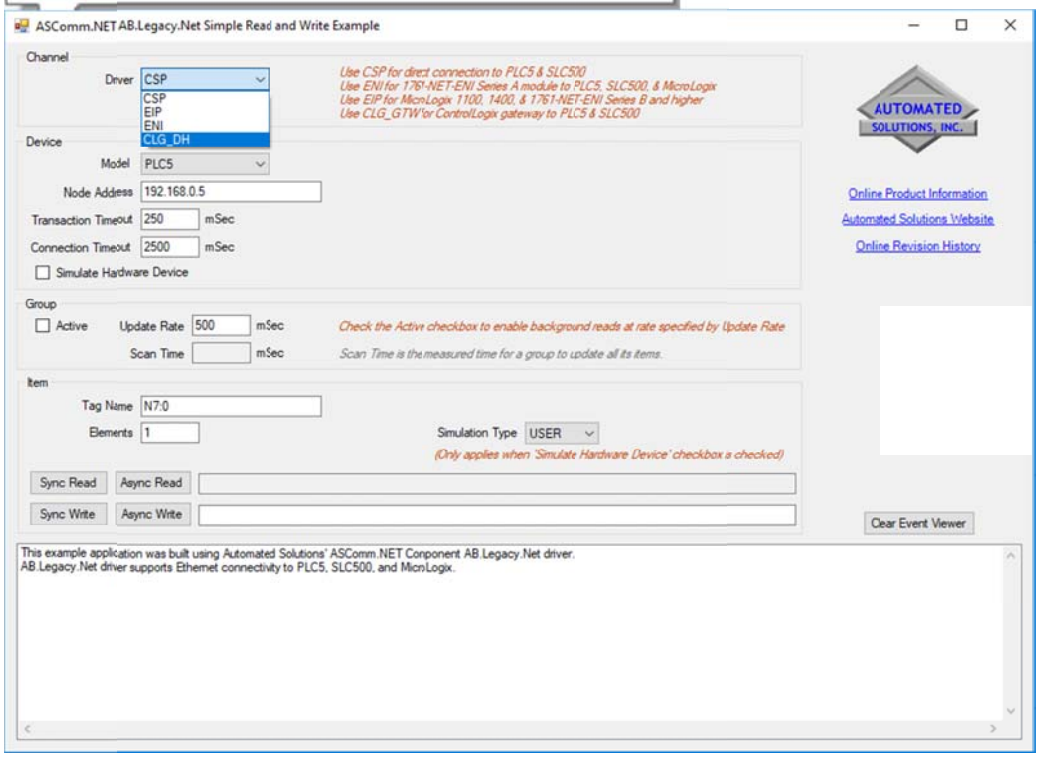
Once you have downloaded OK to the EQ7000 you should get the Success message shown below click on OK

Start the ASComm.NET AB.Leagacy

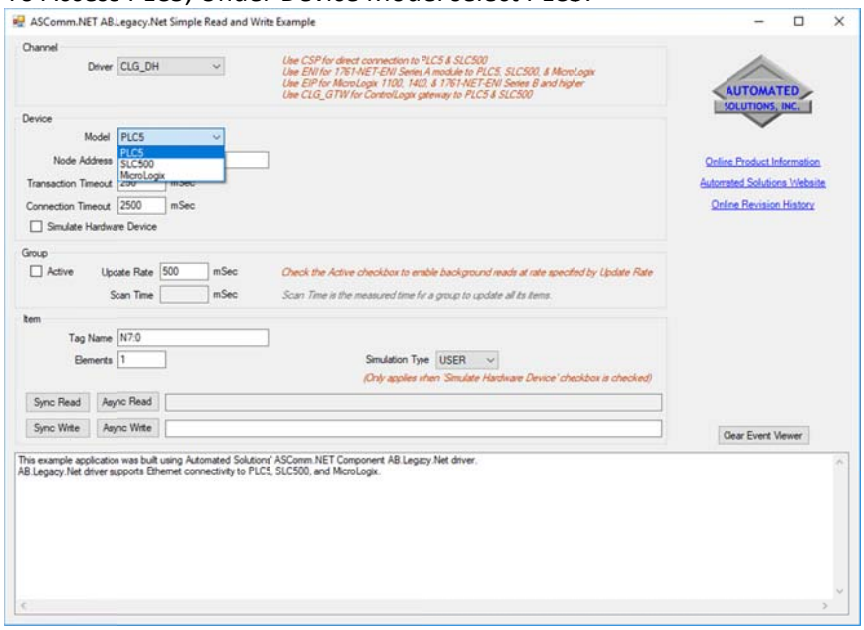


Select CLG_DH driver to use Control Logix Gateway to PLC5 and SCL500



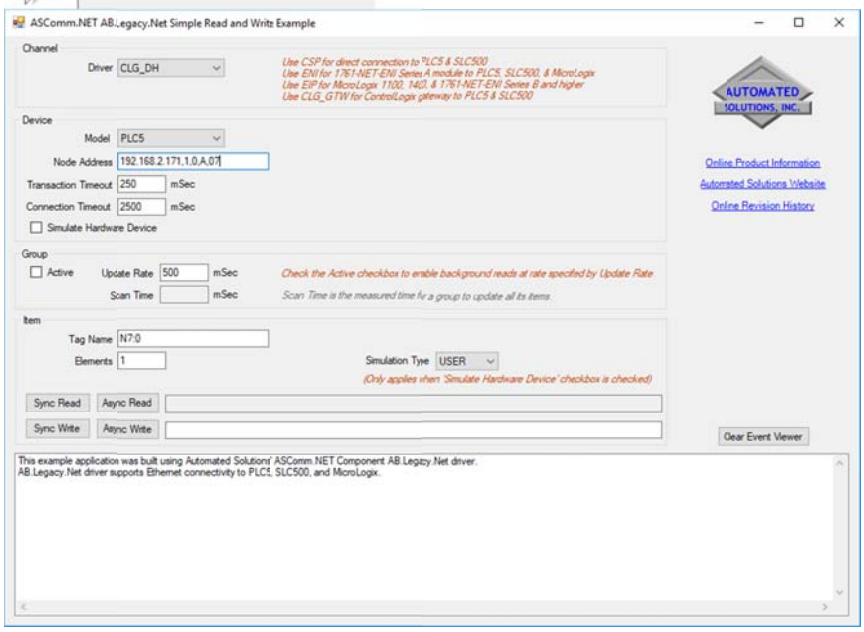


To Access PLC5, Under Device Model select PLC5.

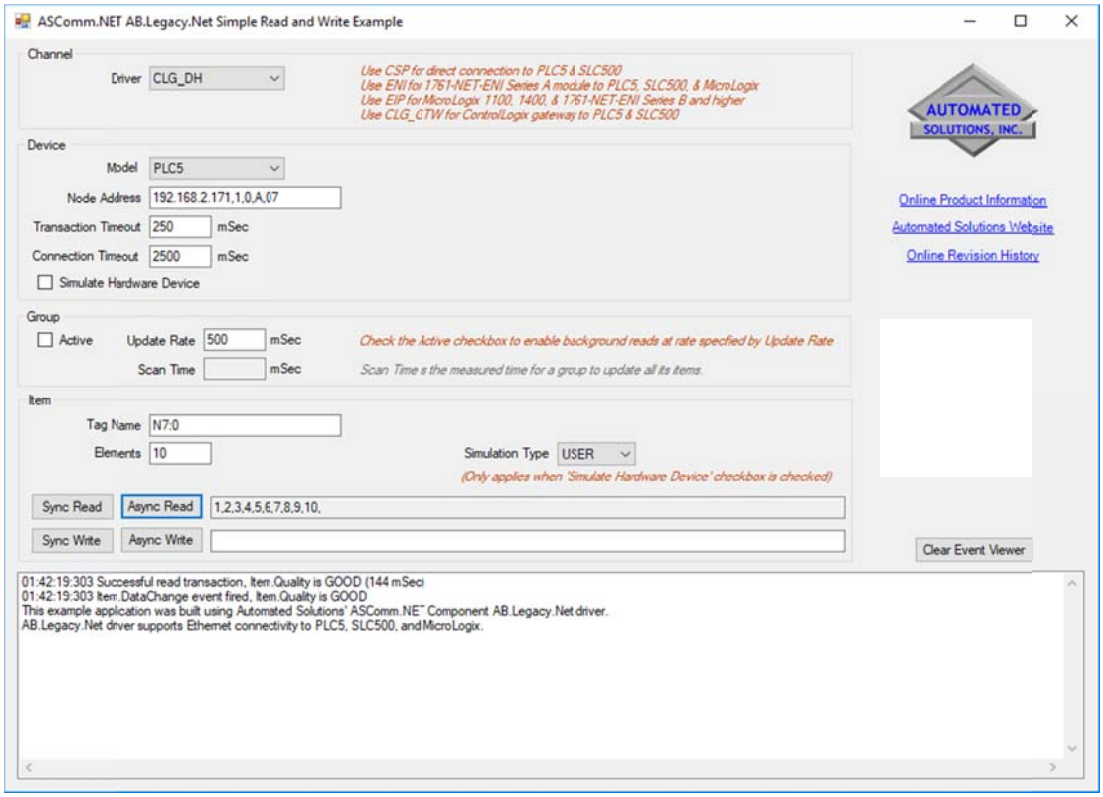


To enter the Node address number, or the path, below shows the details of the path, so you type the IP address of the EQ7000, followed by (1,0,A,PLC5 node address number in Octal)

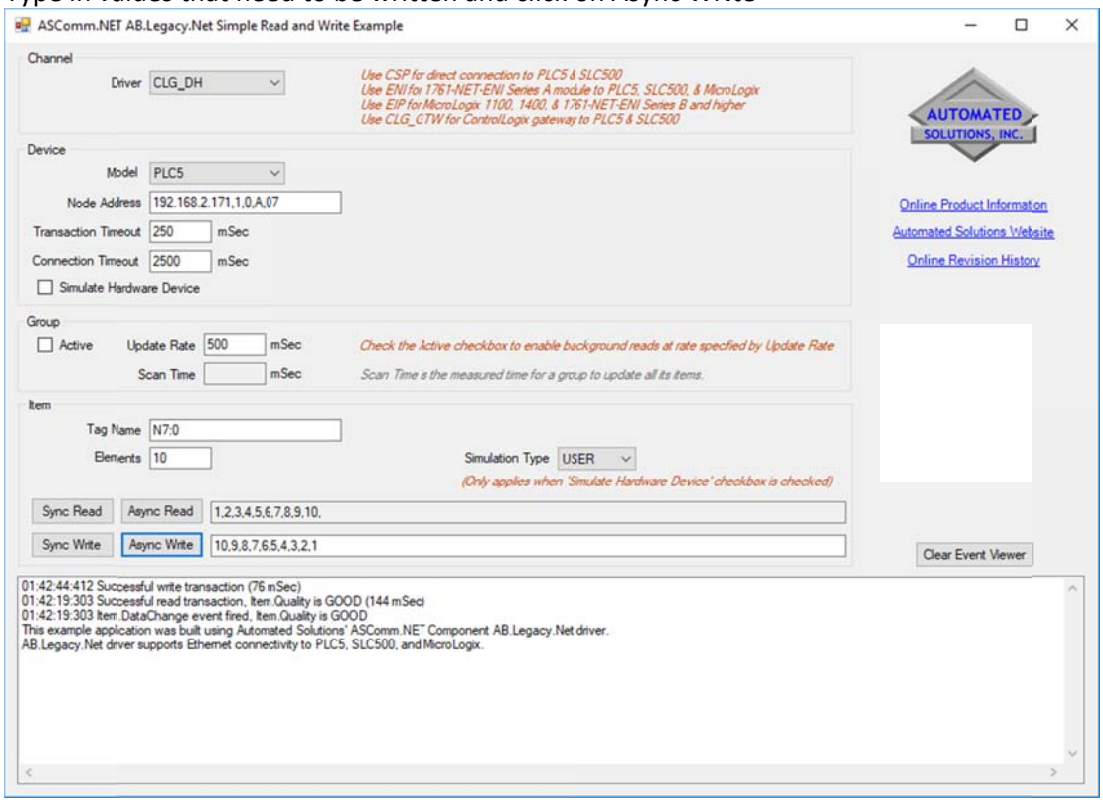
In our example the IP address is 192.168.2.171 and our PLC5 node address is 7 so the path will be 192.168.2.171,1,0,A,07, so in your application the only difference would be the EQ7000 IP address and the PLC5 node address number, the highlighted part in yellow will always be the same.



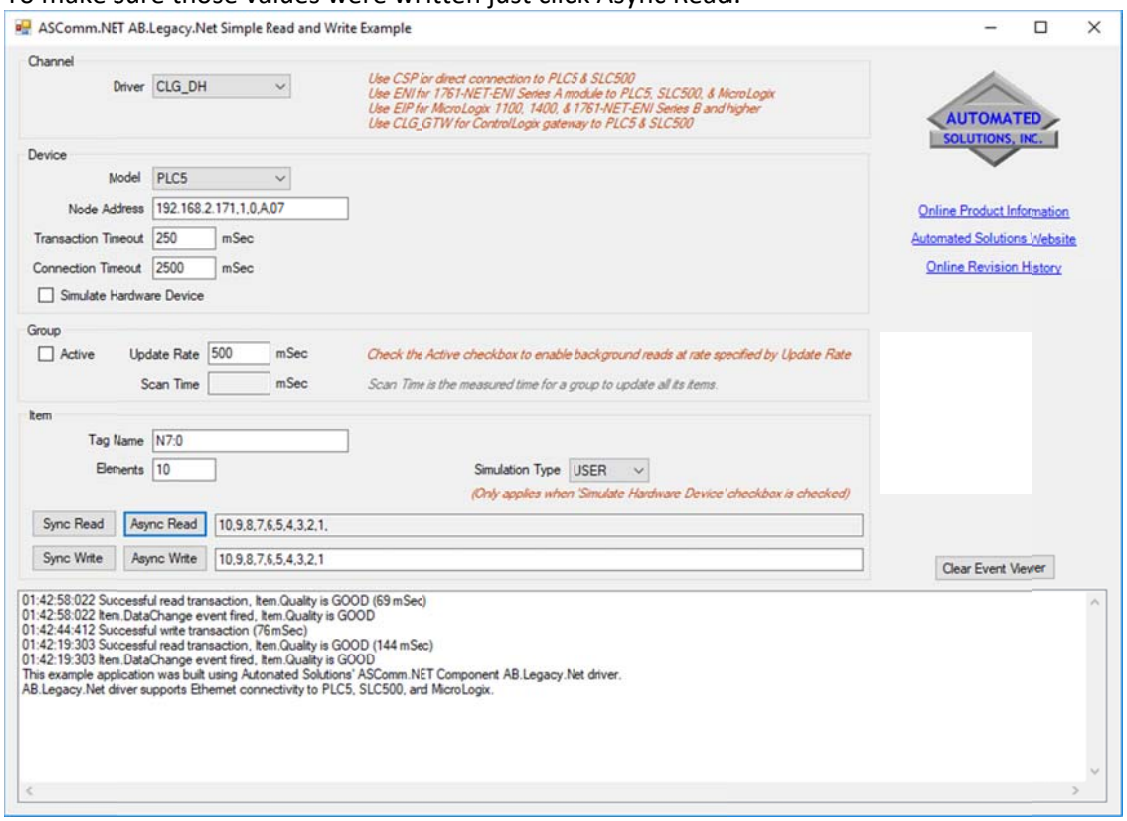
In our example here to read 1st 10 words of integer file N7 starting from word 0, so we enter N7:0 for the Tag Name and 10 for the number of words and click on Async Read



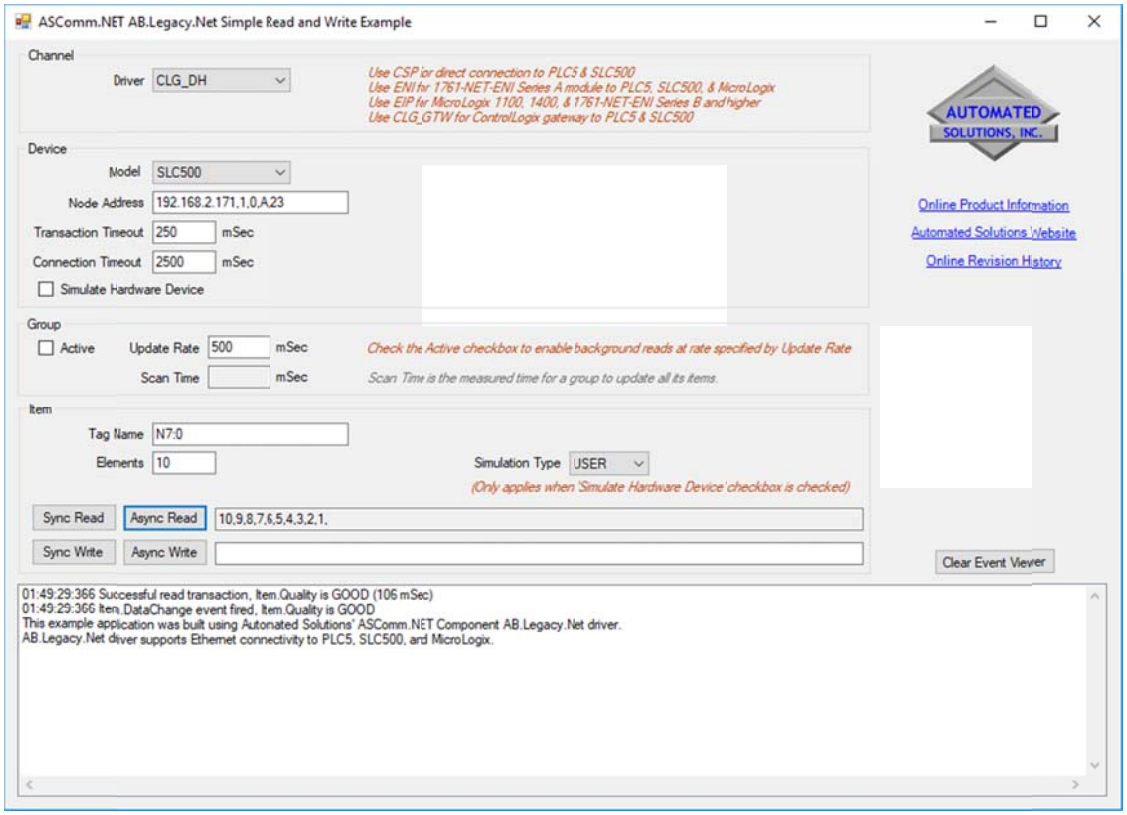
Type in values that need to be written and click on Async Write

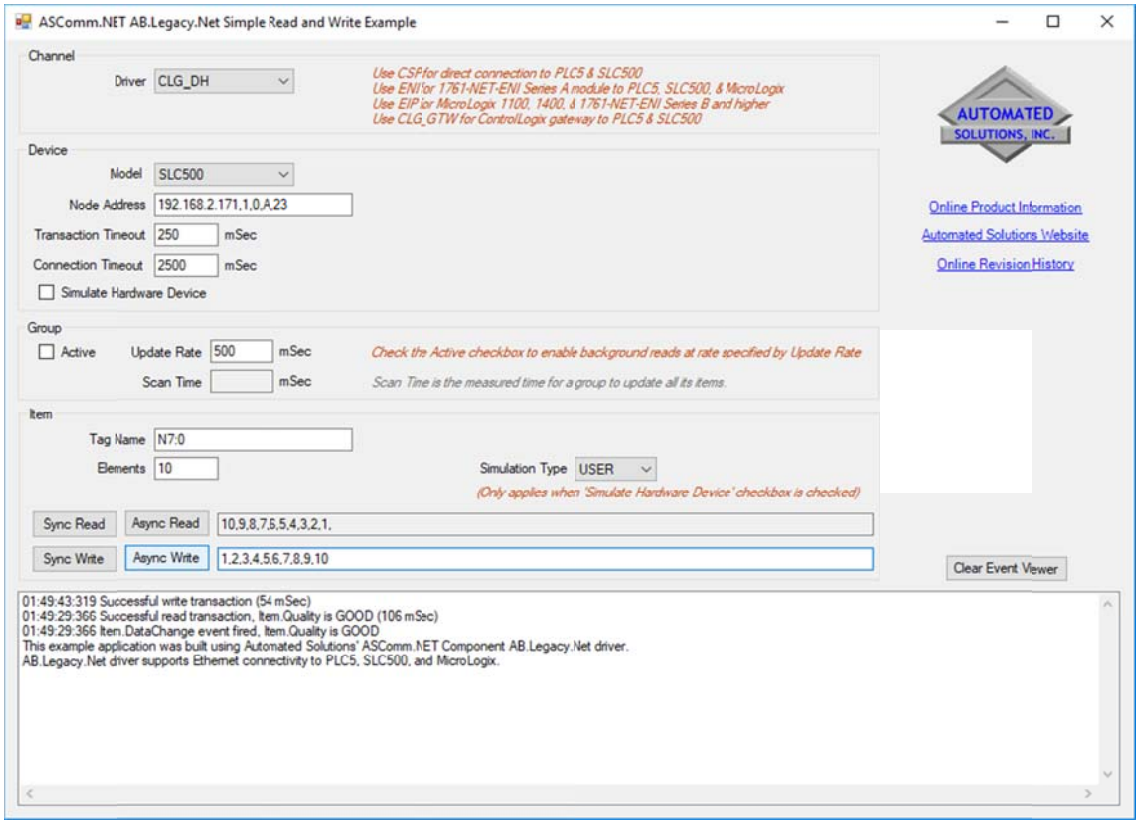


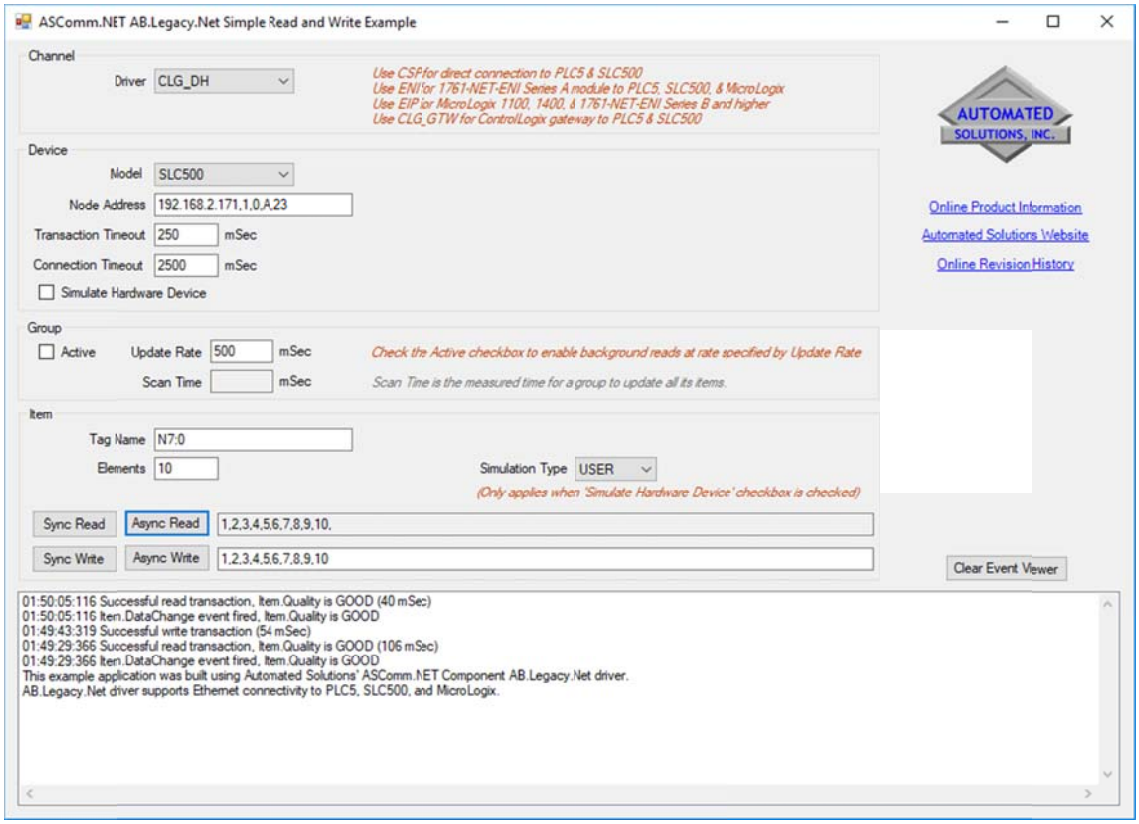
To make sure those values were written just click Async Read.



Here we will try similar process to read and write to a SLC/504 node address 23 Octal, so we changed the Device Model form PLC5 to SLC500.




ASComm.NET AB.Legacy.Net Simple Read and Write Example
Channel
Driver CLG_DH
Use CSP for direct connection to PLC5 & SLC500
Use ENI for 1761-NET-ENI Series A module to PLC5, SLC500, & MicroLogix
Use EIP for MicroLogix 1100, 1400, & 1761-NET-ENI Series B and higher
Use CLG_GTW for ControlLogix gateway to PLC5 & SLC500
AUTOMATED SOLUTIONS, INC.
Device
Model SLC500
Node Address 192.168.2.171,1,0,A,23
Transaction Timeout 250 mSec
Connection Timeout 2500 mSec
Simulate Hardware Device
Online Product Information
Automated Solutions Website
Online Revision History
Group
Active
Update Rate 500 mSec
Check the Active checkbox to enable background reads at rate specified by Update Rate
Scan Time mSec
Scan Time is the measured time for a group to update all its items.
Item
Tag Name N7:0
Elements 10
Simulation Type USER
(Only applies when 'Simulate Hardware Device' checkbox is checked)
Sync Read
Async Read
10,9,8,7,5,5,4,3,2,1,
Sync Write
Async Write
1,2,3,4,5,6,7,8,9,10
Clear Event Viewer
01:49:43:319 Successful write transaction (54 mSec)
01:49:29:366 Successful read transaction, Item.Quality is GOOD (106 mSec)
01:49:29:366 Item.DataChange event fired, Item.Quality is GOOD
This example application was built using Automated Solutions' ASComm.NET Component AB.Legacy.Net driver.
AB.Legacy.Net driver supports Ethernet connectivity to PLC5, SLC500, and MicroLogix.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AUTOMATED SOLUTIONS, INC.
Device
Model SLC500
Node Address 192.168.2.171,1,0,A,23
Transaction Timeout 250 mSec
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Simulate Hardware Device
Online Product Information
Automated Solutions Website
Online Revision History
Group
Active
Update Rate 500 mSec
Check the Active checkbox to enable background reads at rate specified by Update Rate
Scan Time mSec
Scan Time is the measured time for a group to update all its items.
Item
Tag Name N7:0
Elements 10
Simulation Type USER
(Only applies when 'Simulate Hardware Device' checkbox is checked)
Sync Read
Async Read
1,2,3,4,5,6,7,8,9,10,
Sync Write
Async Write
1,2,3,4,5,6,7,8,9,10
Clear Event Viewer
01:50:05:116 Successful read transaction, Item.Quality is GOOD (40 mSec)
01:50:05:116 Item.DataChange event fired, Item.Quality is GOOD
01:49:43:319 Successful write transaction (54 mSec)
01:49:29:366 Successful read transaction, Item.Quality is GOOD (106 mSec)
01:49:29:366 Item.DataChange event fired, Item.Quality is GOOD
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