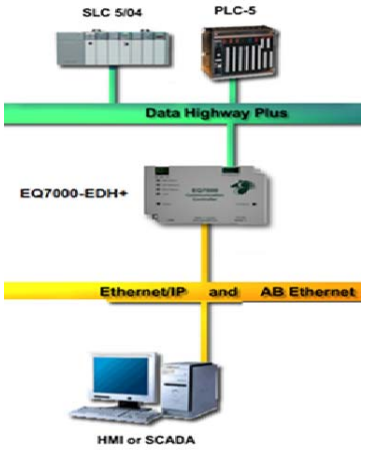
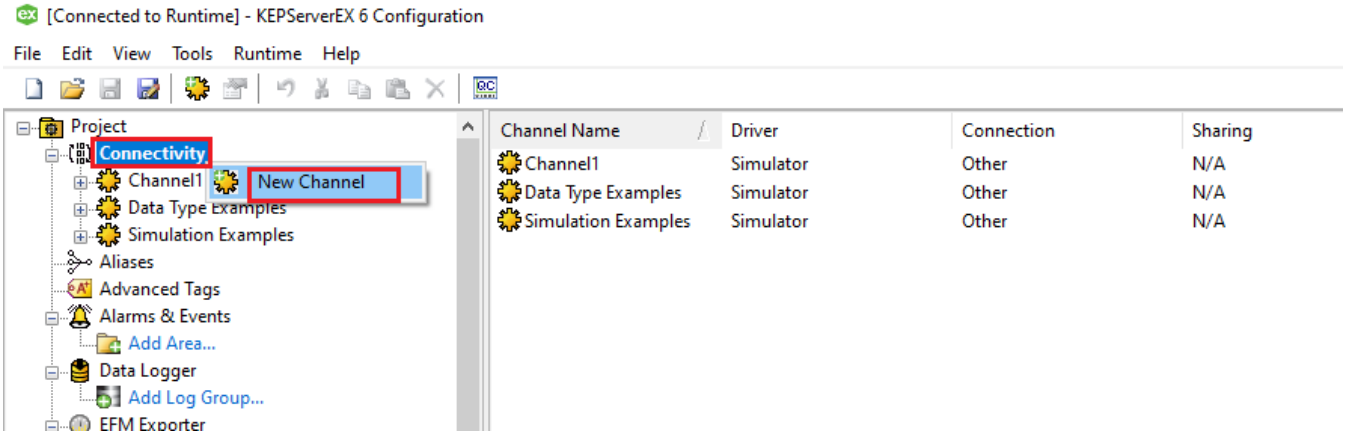
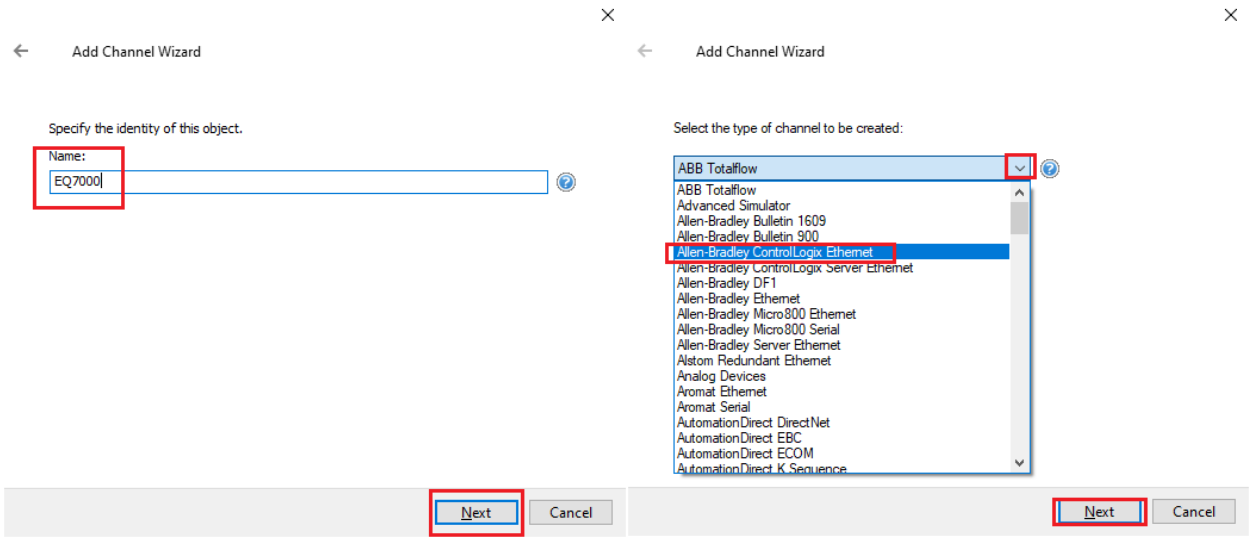
FactoryTalk accessing Data in PLC5, SLC504 on DH+ using KEPServerEX OPC Ethernet IP with EQ7000



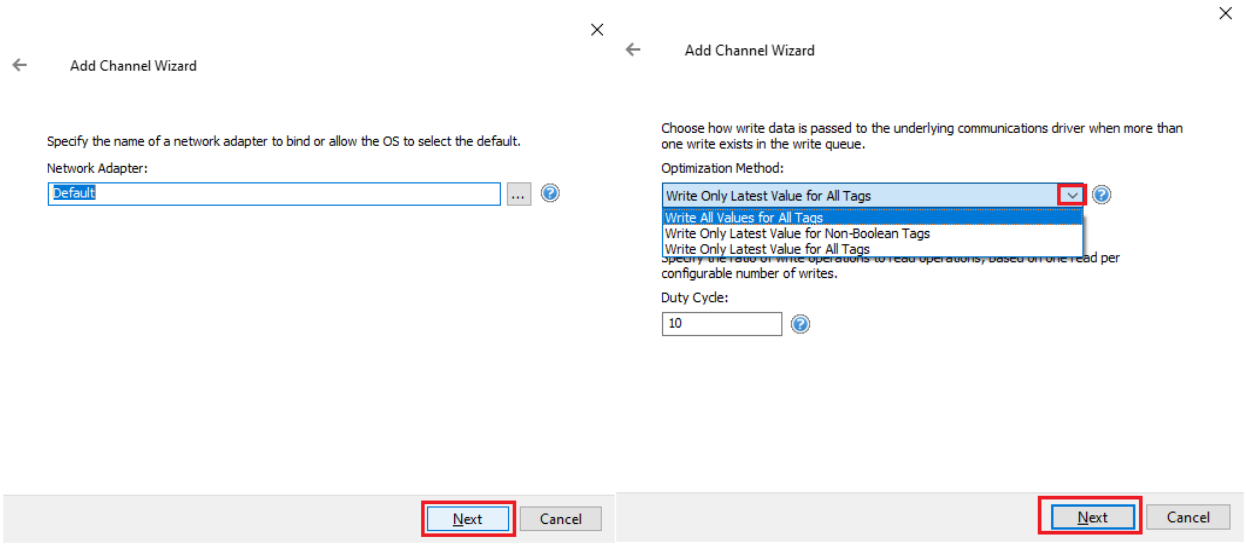
Start Kepware KEPServerEX, right click on Connectivity to add New Channel.



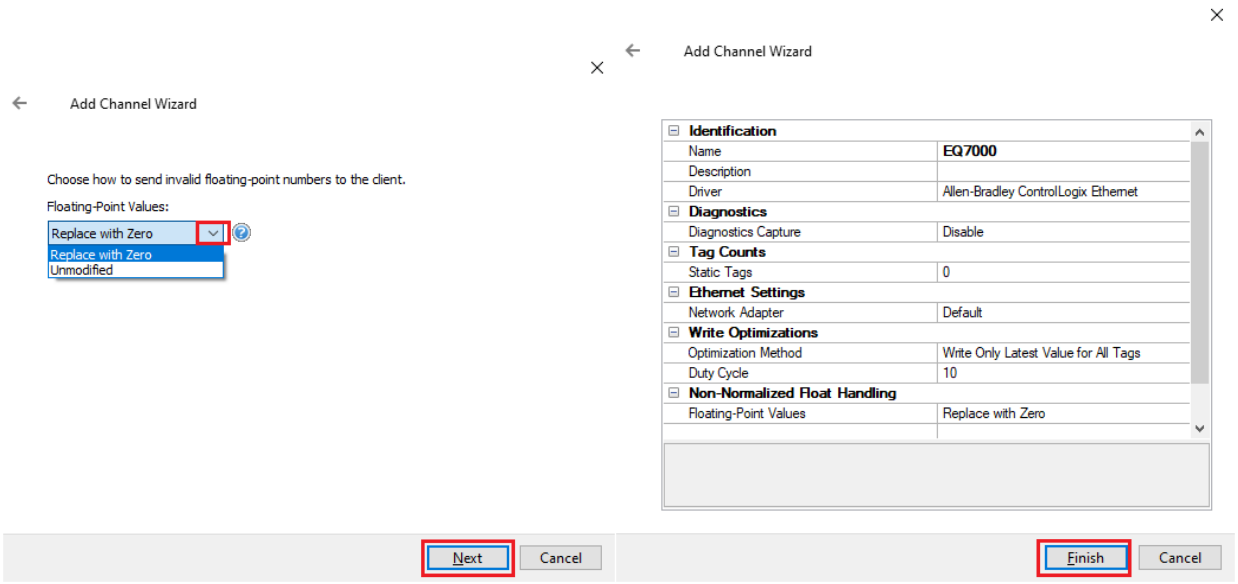
Type a name for the Channel & click on Next, then select Allen-Bradley ControlLogix Ethernet from the drop menu & click Next.



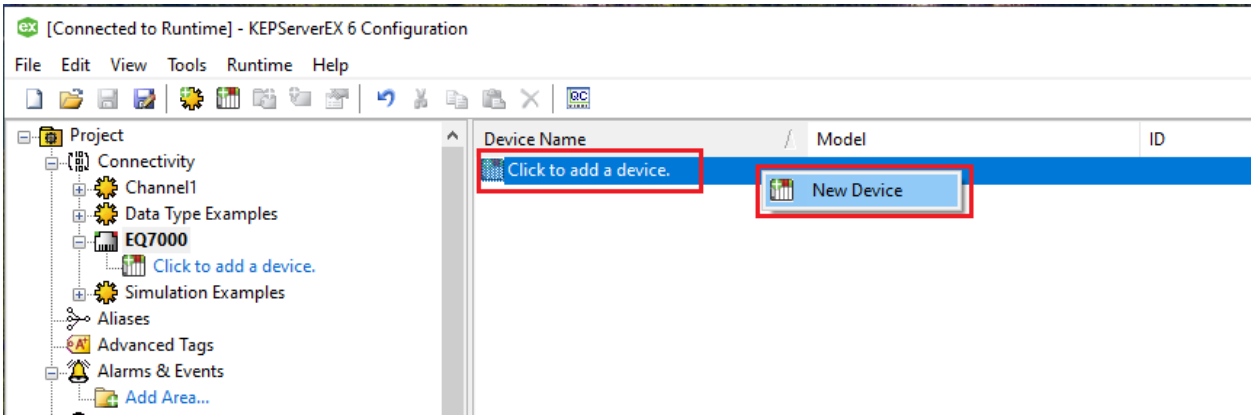
Select your network adapter, click Next, then select your optimization method, & click Next



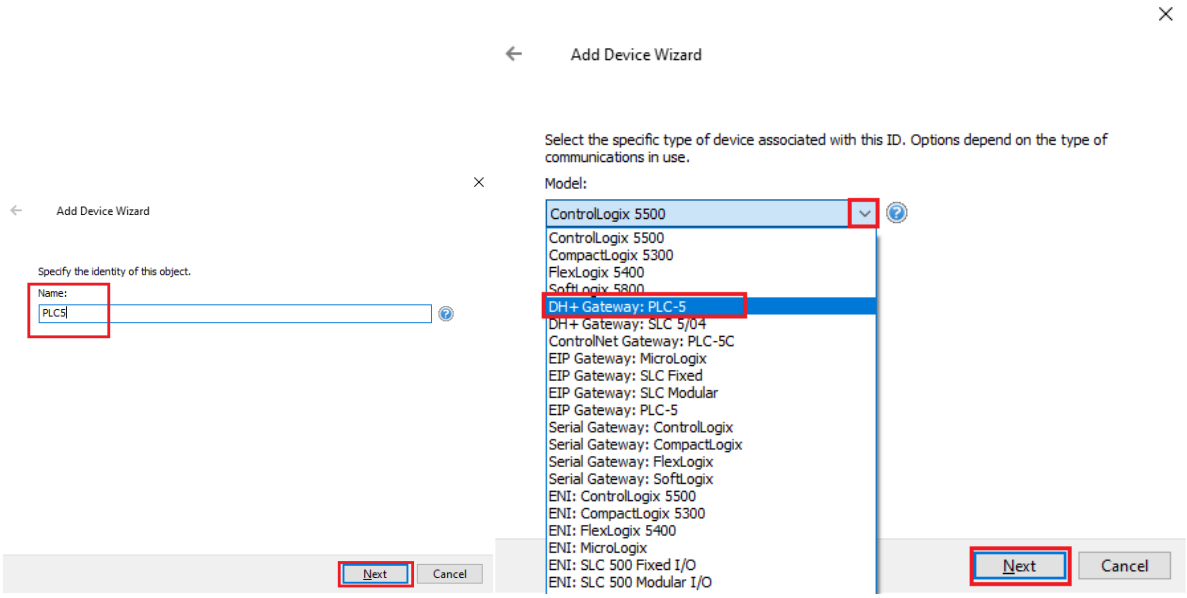
Choose how to handle invalid floating point, click Next then once done with the driver click on Finish.



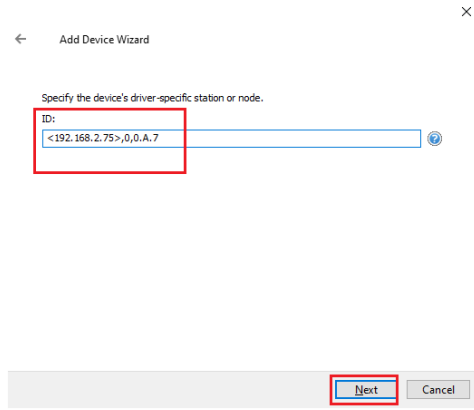
Once the channel is created click to add New Device.



Type in a Device Name & click Next, then from the drop menu select DH+ Gateway: PLC5 & click on Next.

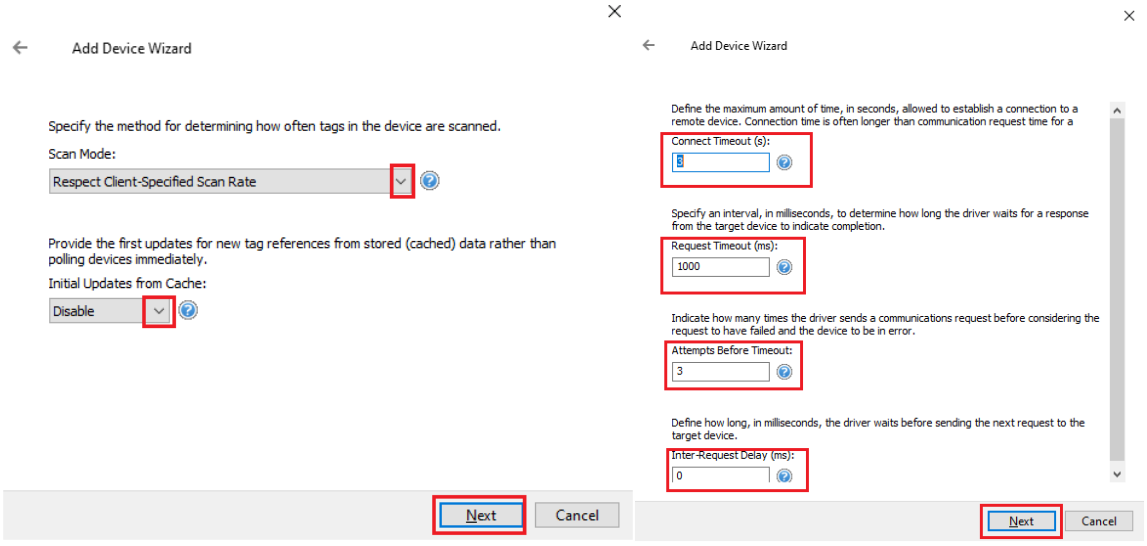


<IP or hostname>,1,[<optional routing path>],<DHRIO Slot>.<DHRIO Channel>.<DH+ Node ID (dec)>

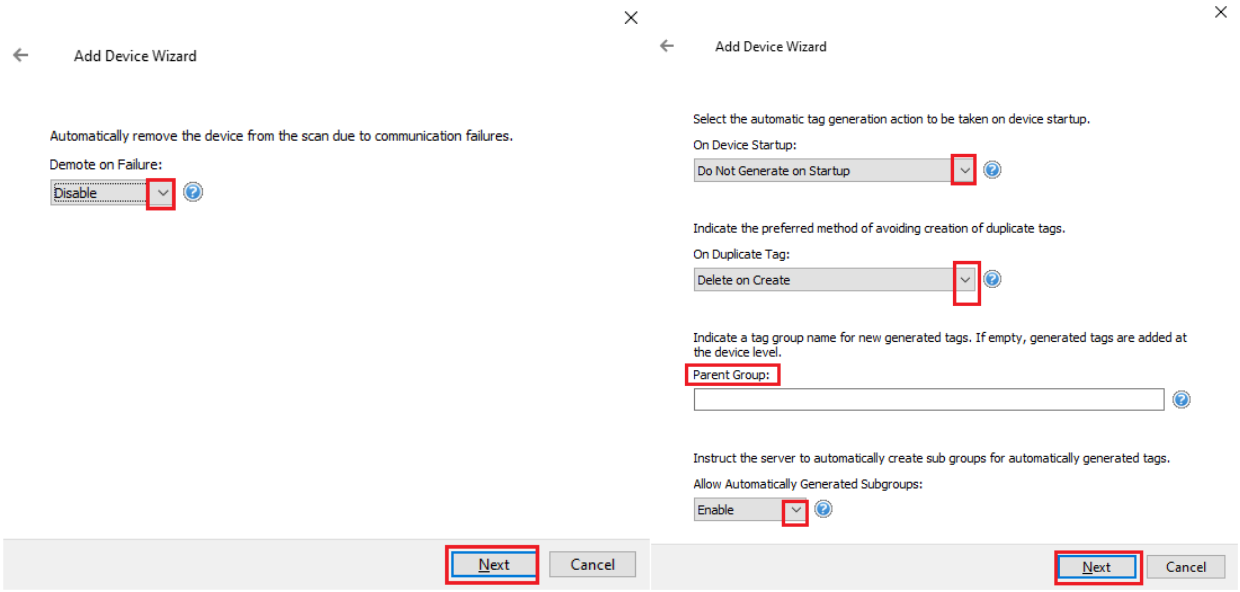


As for path
To Enter the Device ID
IP or Hostname, would be IP address of the EQ7000
1, Always Replace with 0
Optional Routing Path, don't enter anything.
DHRIO slot, would be always 0
DHRIO Channel, Always A
DH+ Node ID, is PLC5 or SLC 504 DH+ node address in Decimal
<192.168.2.175>,0,0.A.7
Then Click on Next.

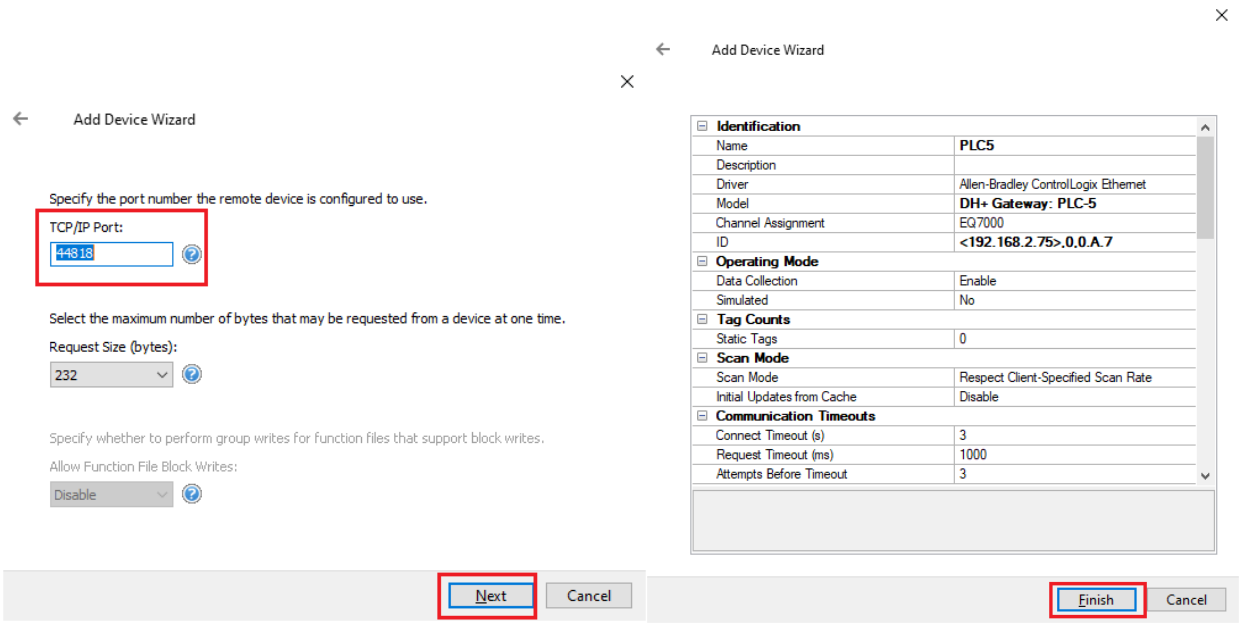
Select the Scan Mode click Next, then the timeout settings below & click on Next.



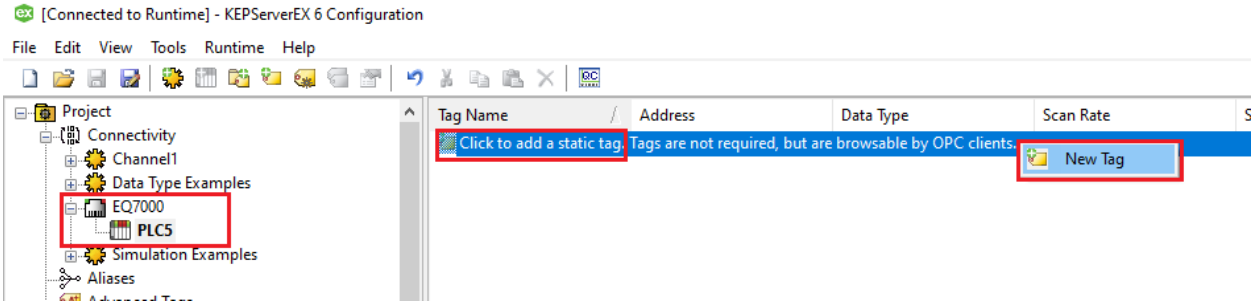
Enable demotion on failure, if not just click Next, select tags options from drop menus & click Next.



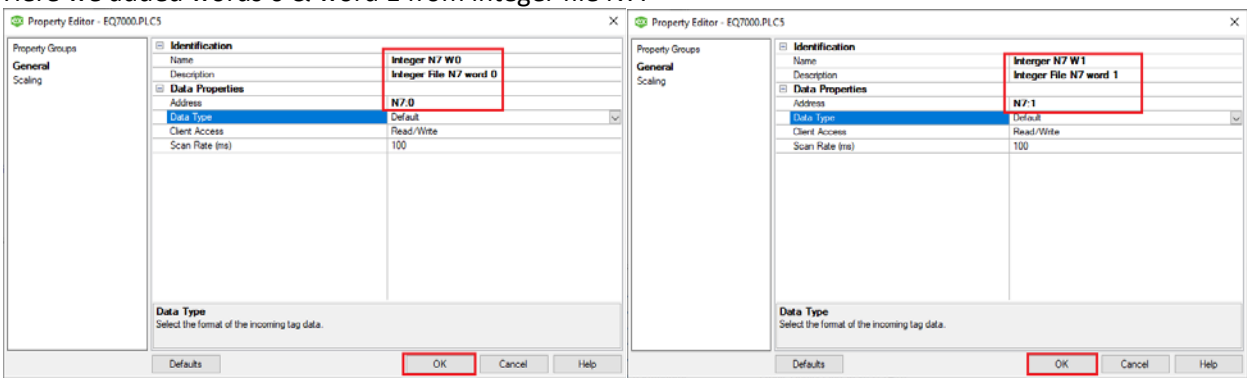
Make sure Ethernet port is 44818 for Ethernet IP, click Next, later click on Finish



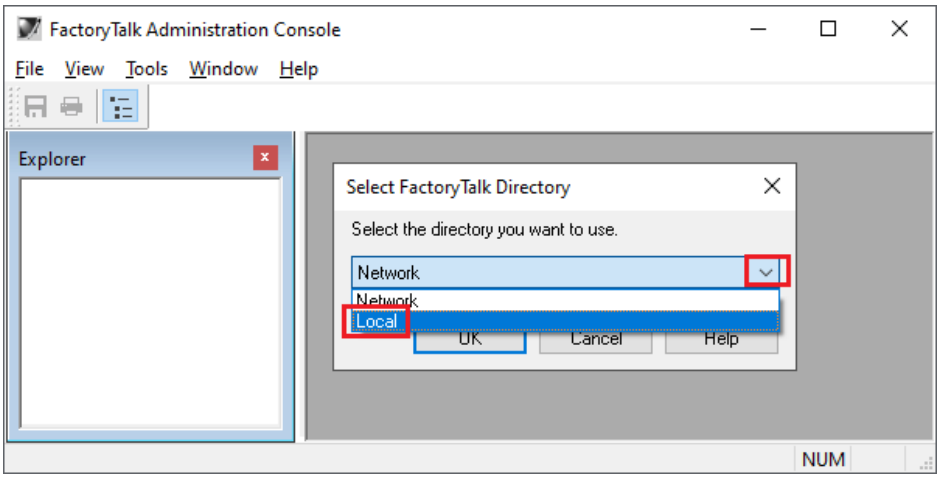
Click to add a new tag.



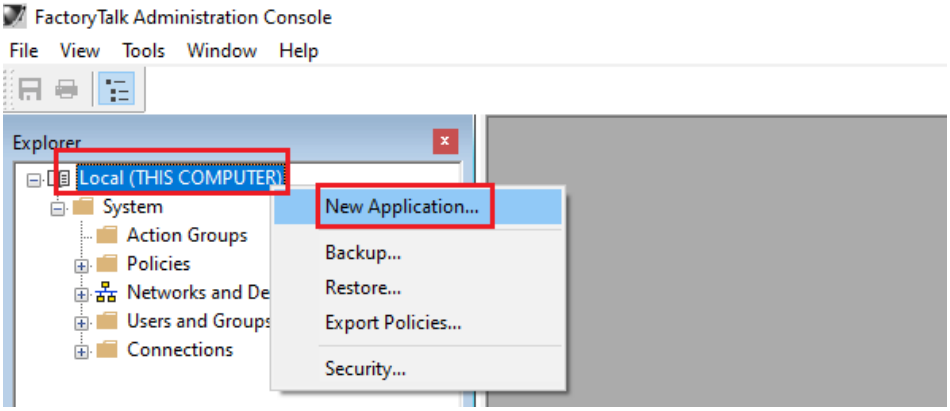
Here we added words 0 & word 1 from integer file N7.



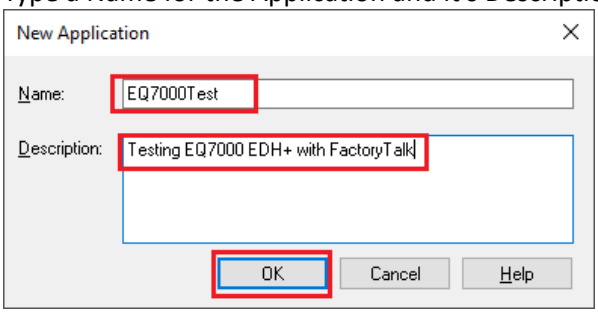
Now that tags are we can start FactoryTalk Administration Console & Select the Directory to use, then Click on OK.



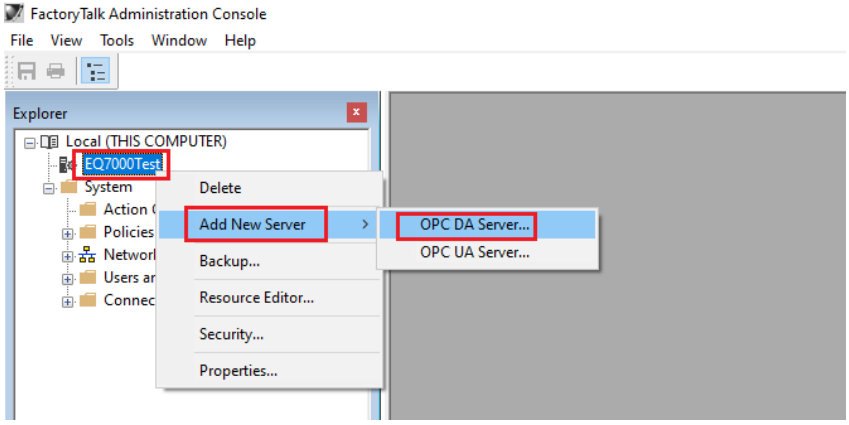
Right Click on Local This Computer and select New Application.



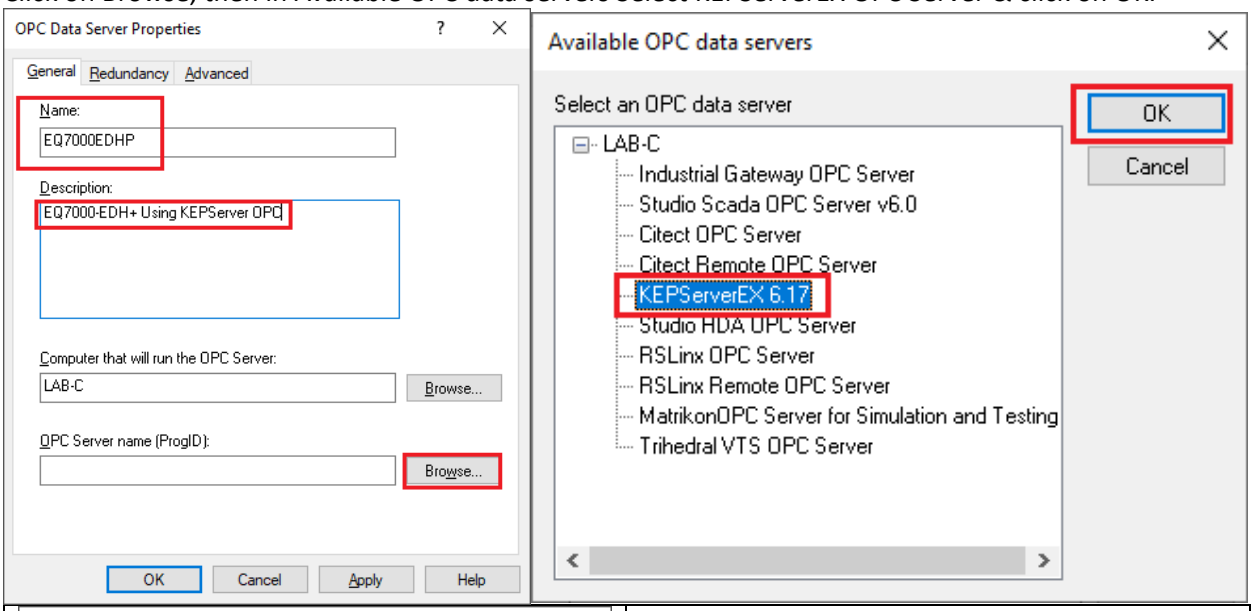
Type a Name for the Application and it's Description then click on OK.

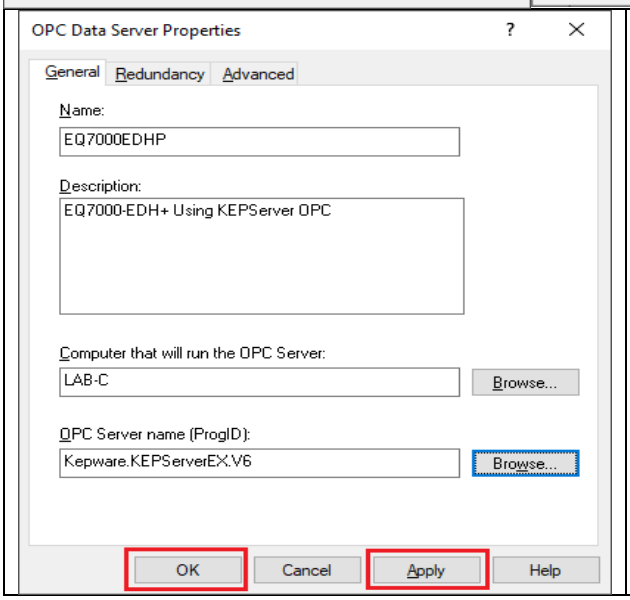


Right Click on the App created the click Add New Server to add OPC DA Server.



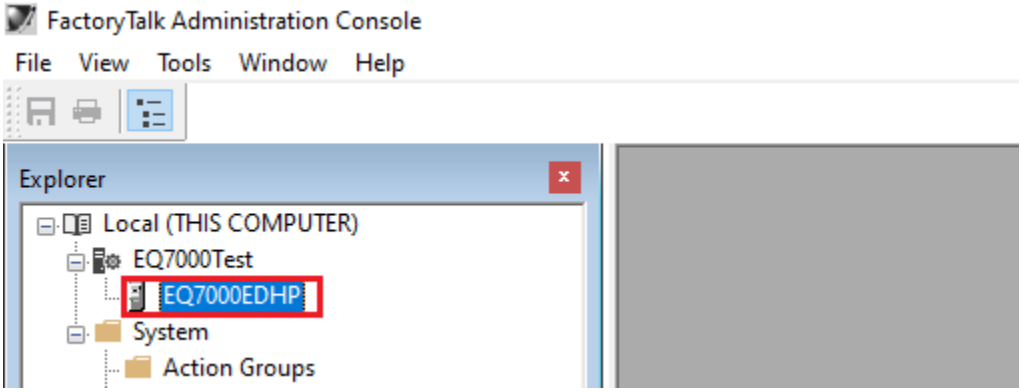
Click on Browse, then in Available OPC data servers Select KEPServerEX OPC Server & click on OK.



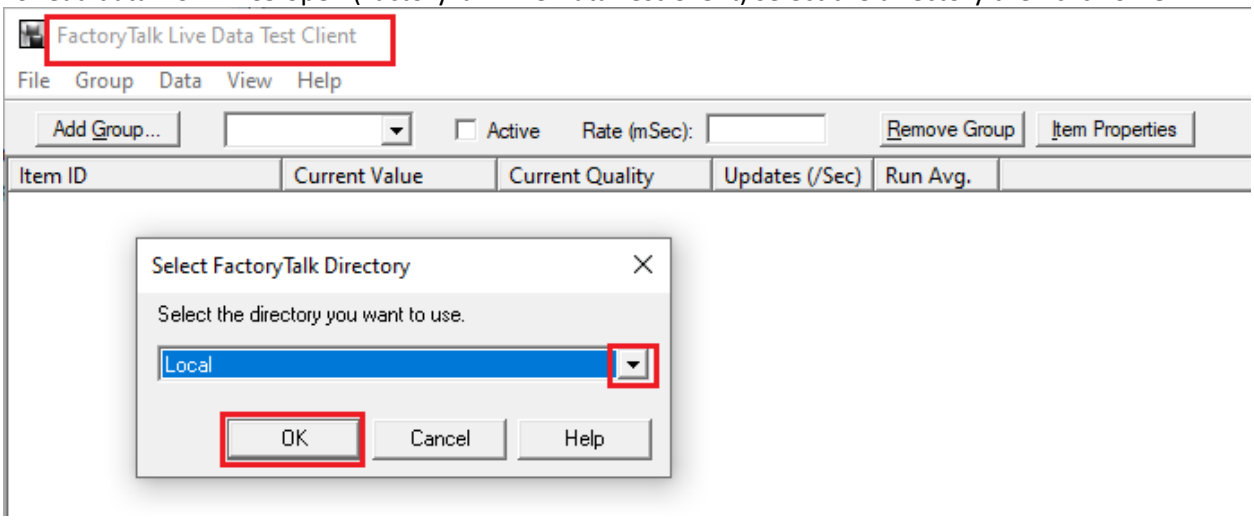


Now that we have done selecting the Kepware KEPServerEX
Click on Apply then OK

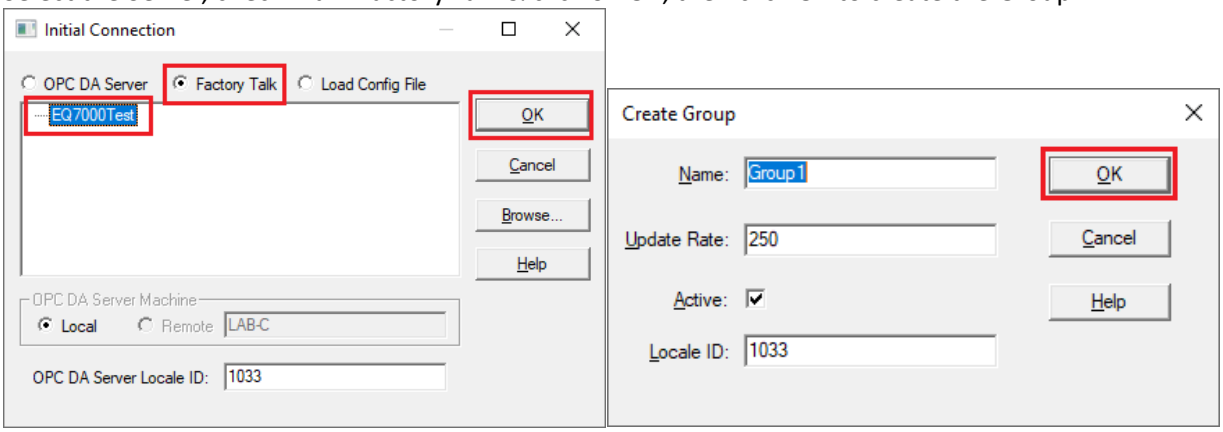
This completes adding the KEPServerEX OPC to FactoryTalk.



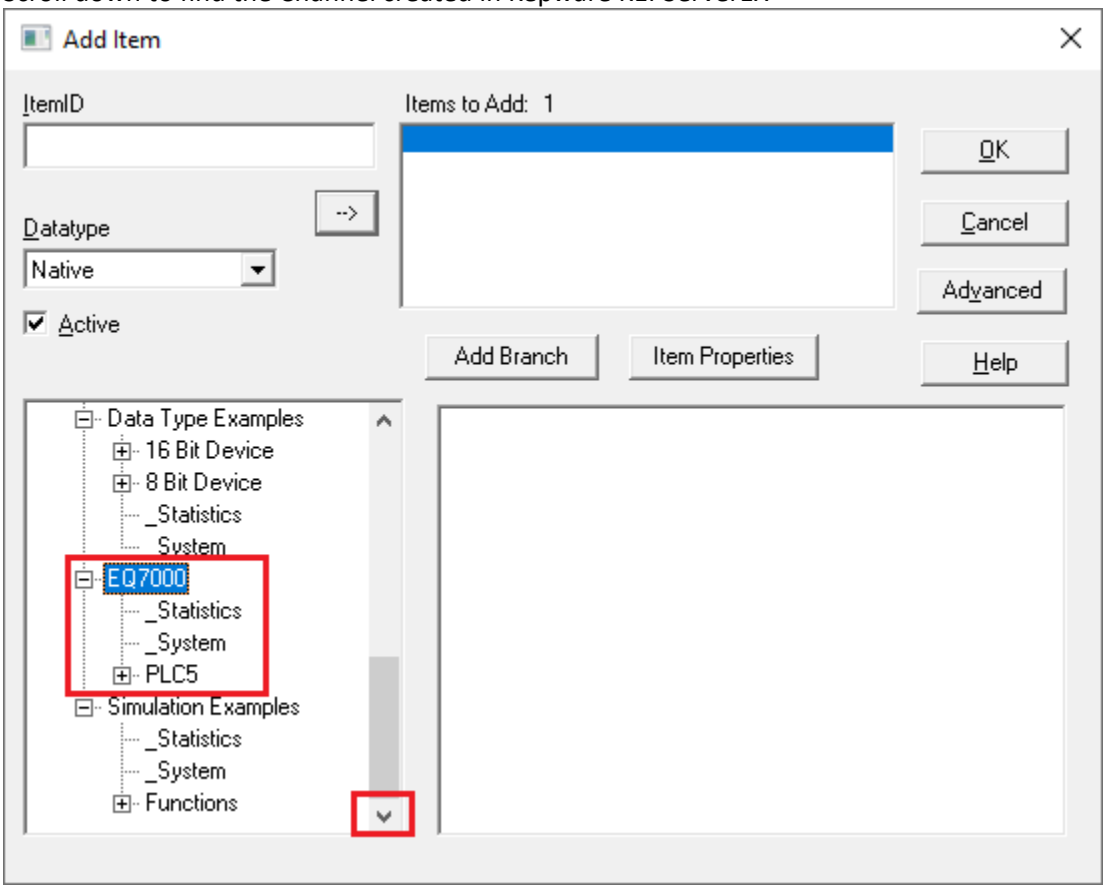
To read data from PLC5 open (FactoryTalk Live Data Test Client) select the directory then click on OK.



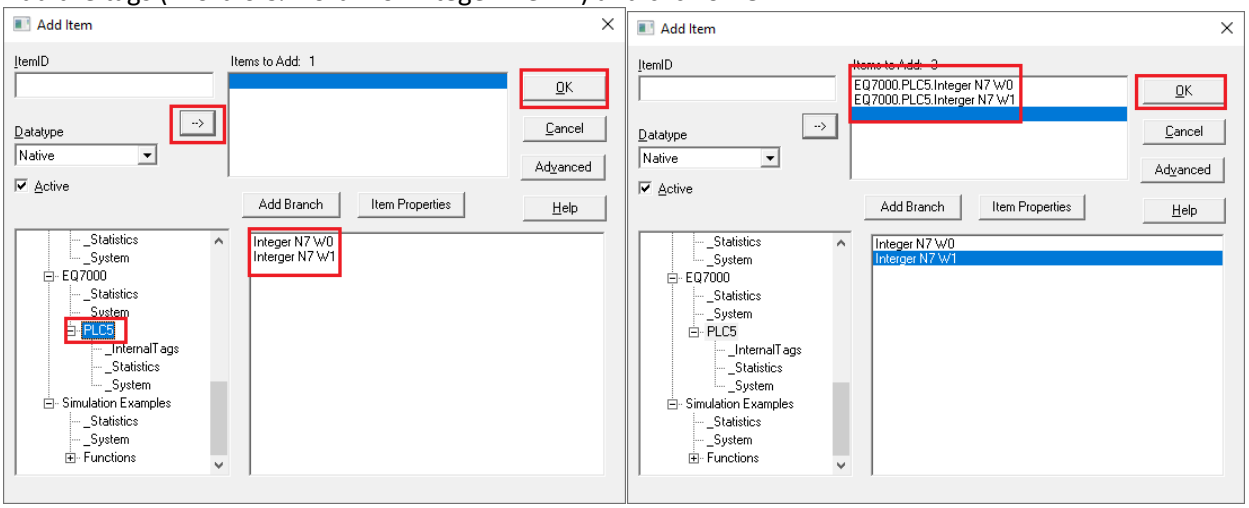
Select the Server, check mark Factory Talk & click on OK, then click OK to create the Group.



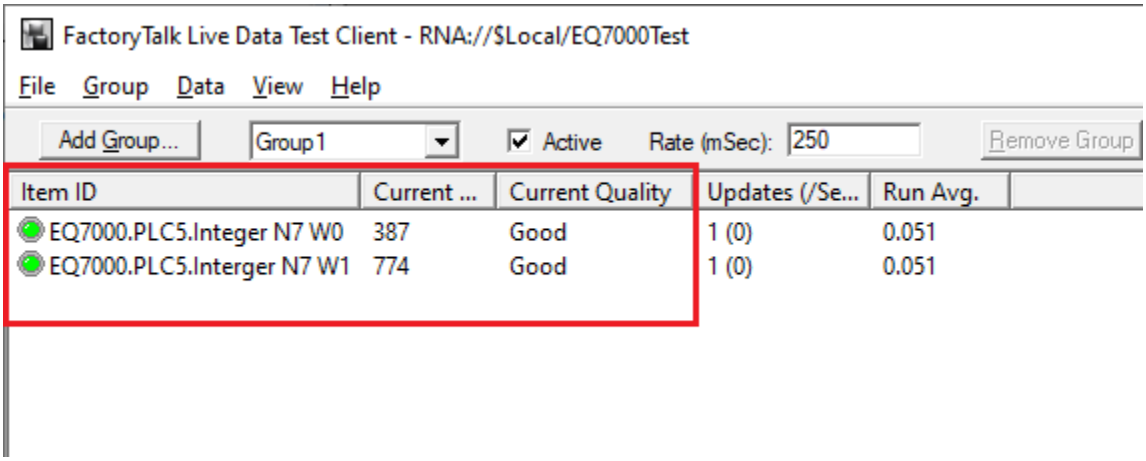
Scroll down to find the Channel created in Kepware KEPServerEX



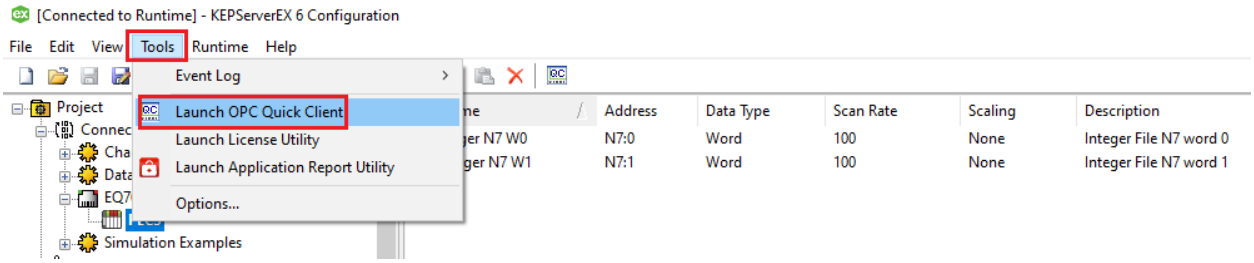
Add the tags (word 0 & word 1 of Integer file N7) and click on OK



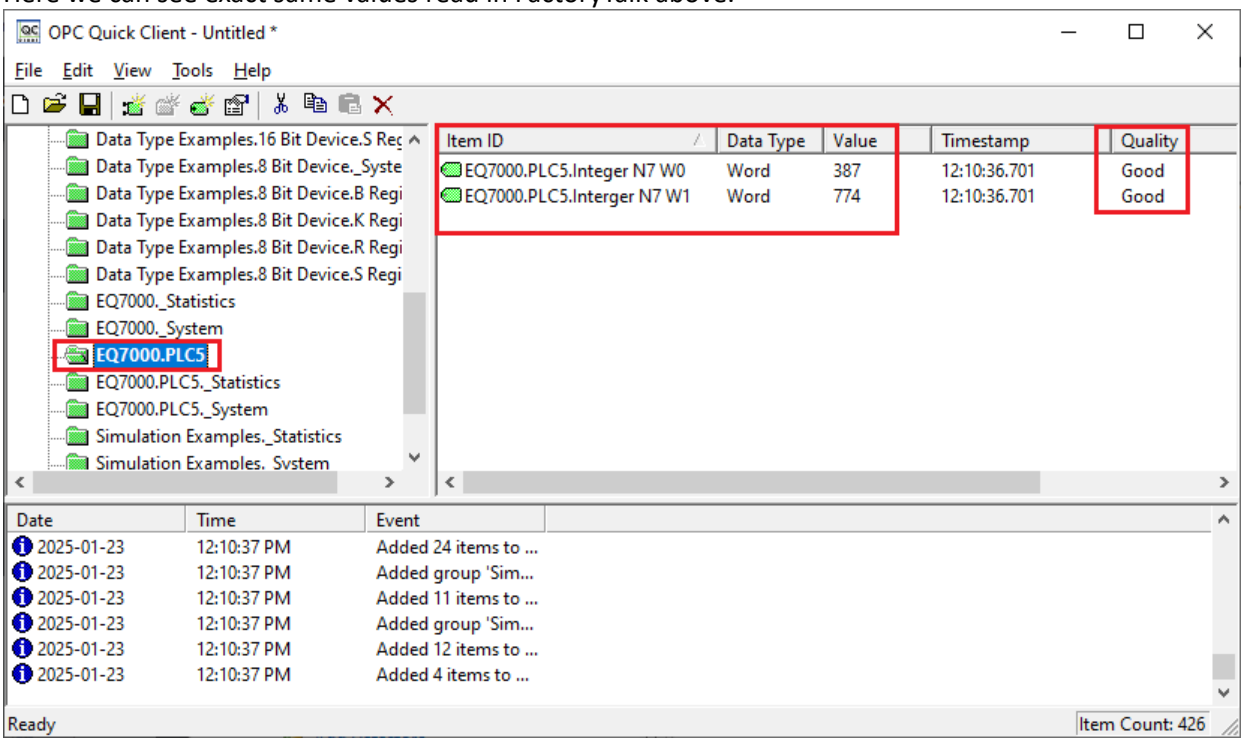
Here we can see the values of the two words (word0 & word1) from integer file N7 here in FactoryTalk Data Test Client.



To check that we have the correct values of the two words, start the OPC Quick Client, then under Tools click on Lunch OPC Quick Client



Here we can see exact same values read in FactoryTalk above.



In a similar way we can add the SLC5/04 or any DH+ PLC on the same data highway Plus network that the EQ7000 is connected to.