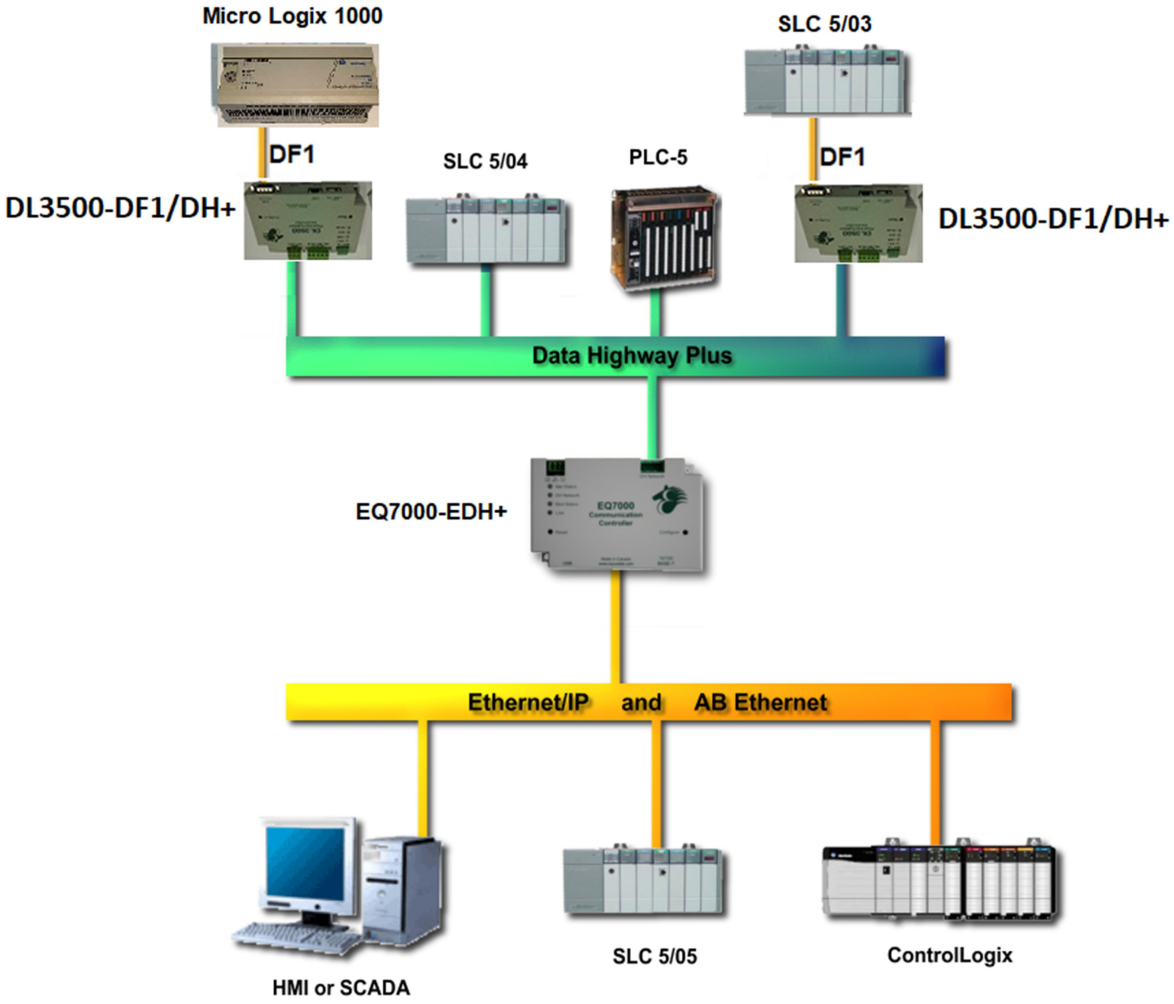
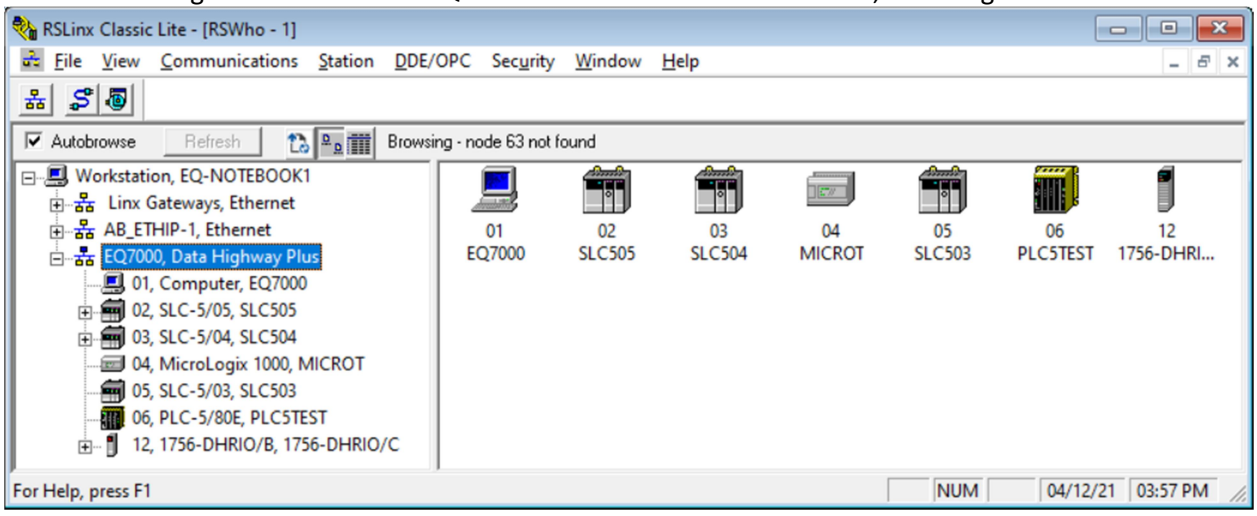
Getting Data from Allen Bradley DH+ PLCs with KEPServerEX AB Ethernet Driver PCCC (ABTCP) using EQ7000-EDH+

Our test setup was as shown below, also note that the SLC505 DF1 side was also connected to another DL3500-DF1/DH+ so that other DH+ PLCs can have access to the SLC-505 on DH+ network.

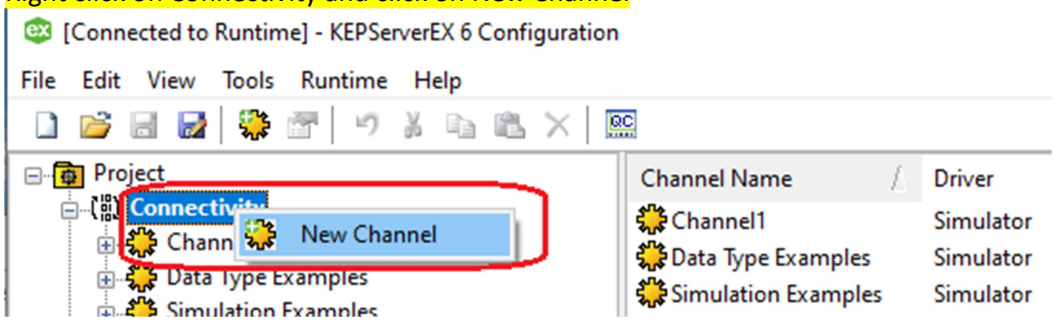


RSWHO showing DH+ nodes under EQ7000 AB Ethernet Driver in RSLINX , including the SLC505

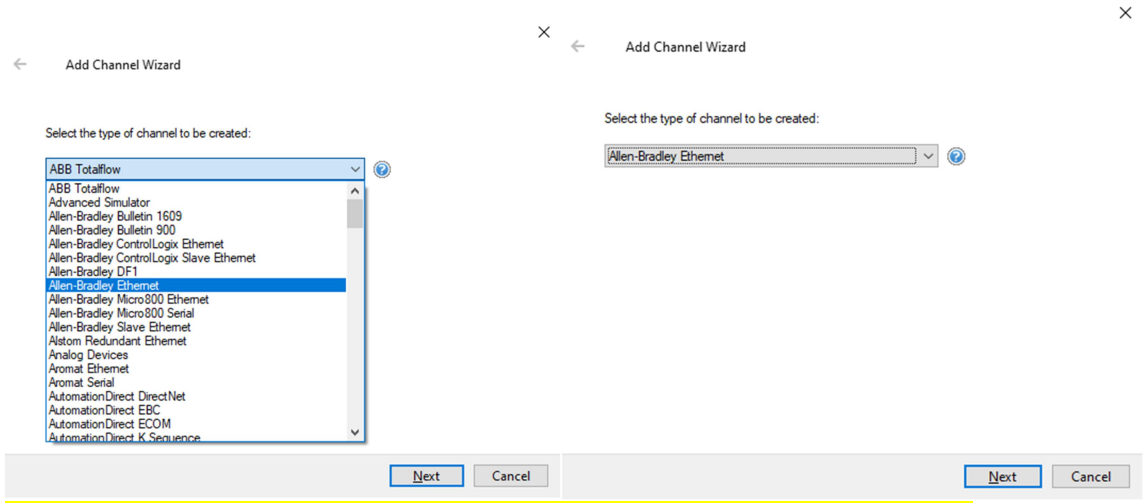


Start KEPServerEX

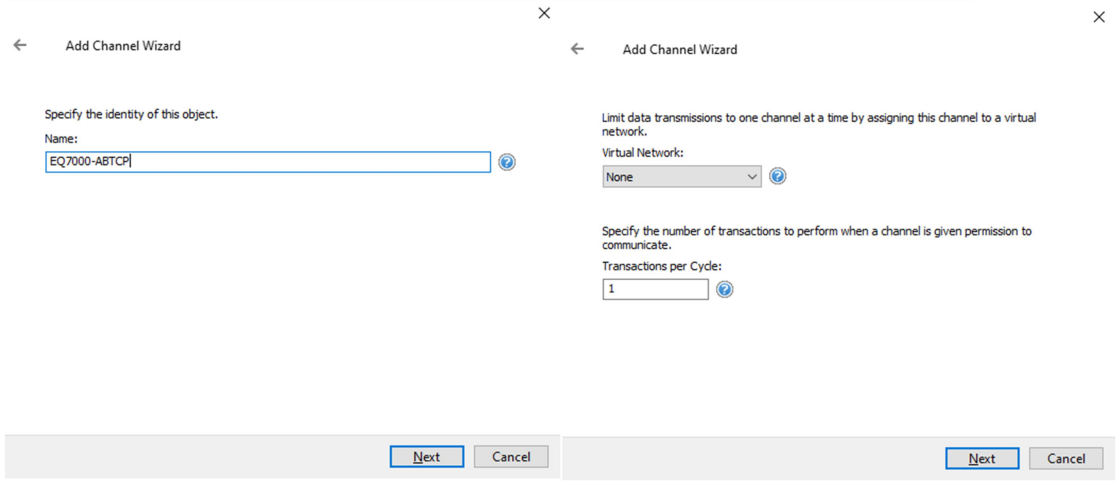
Right click on Connectivity and click on New Channel



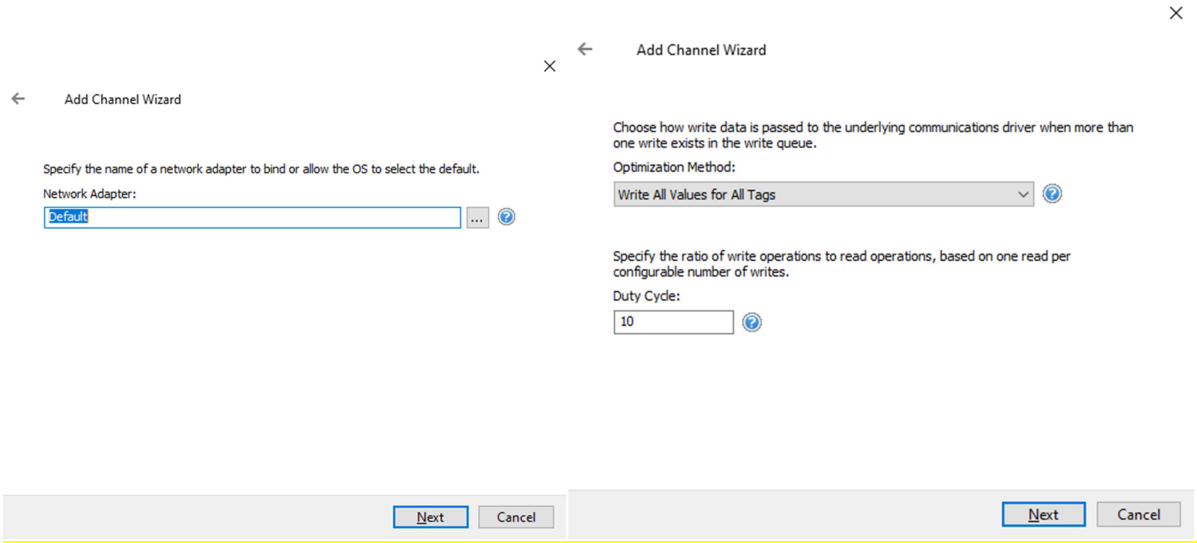
From the drop menu to select a channel choose Allen-Bradley Ethernet driver then click on Next



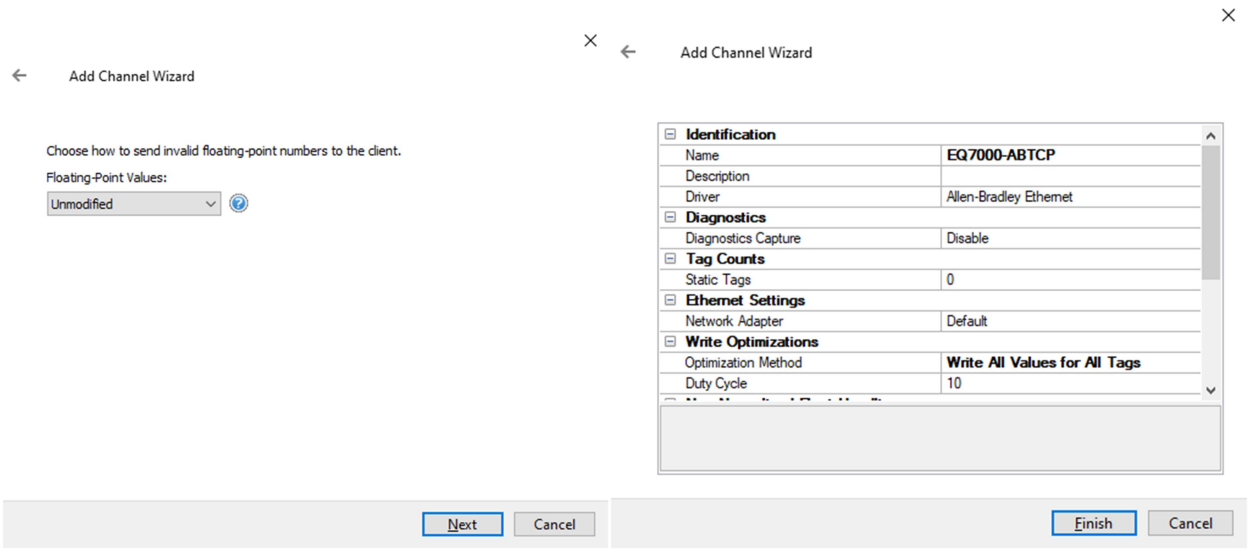
Type a name for the channel and click on Next , here we named it EQ7000-ABTCP



Specify Network adapter and optimization Method then Click on Next



Choose how to send invalid floating point numbers and Double check you channel setting then click on Finish.



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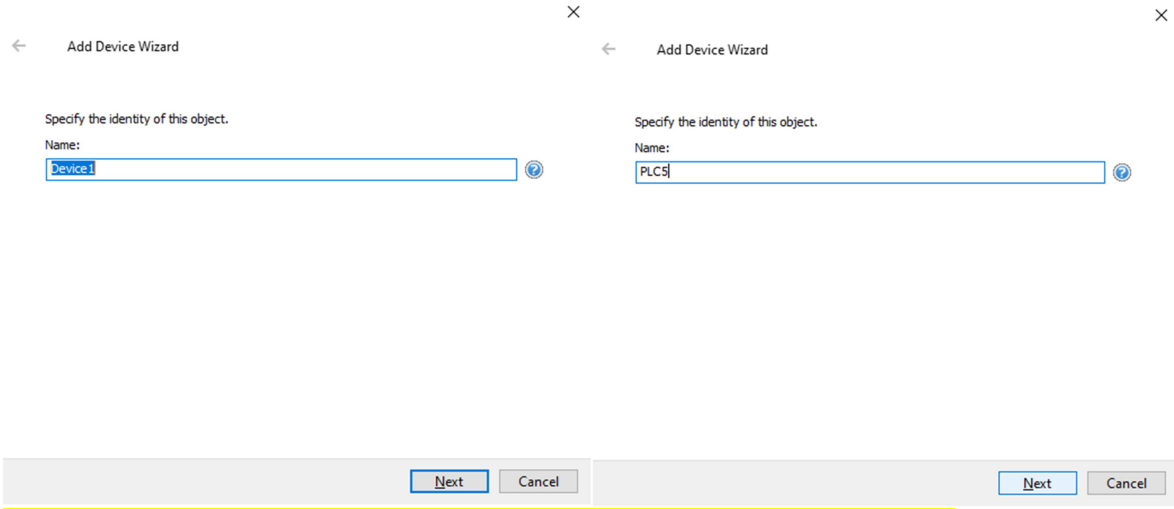
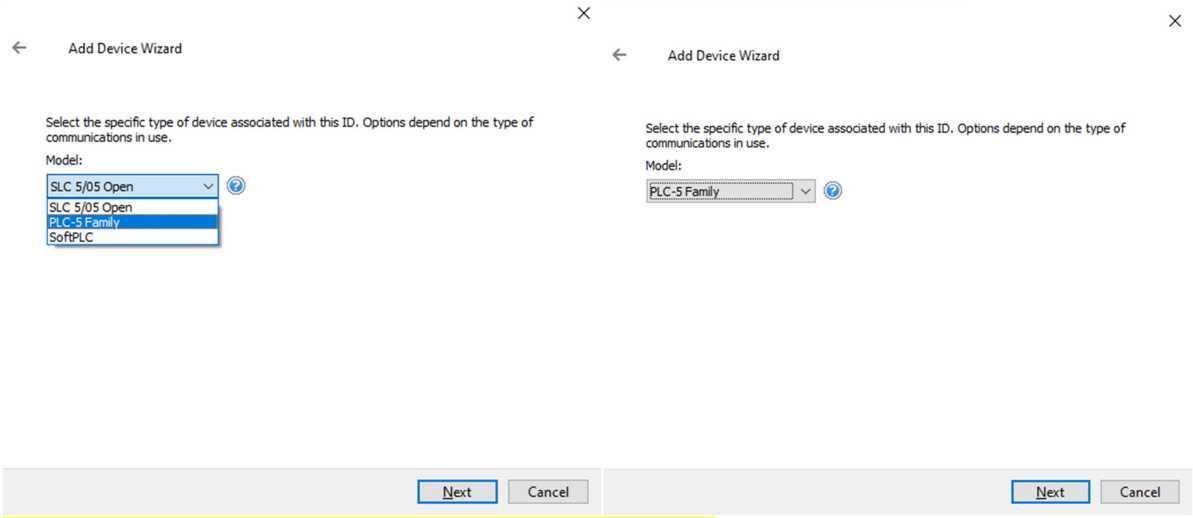
Click on (Click to add a device).

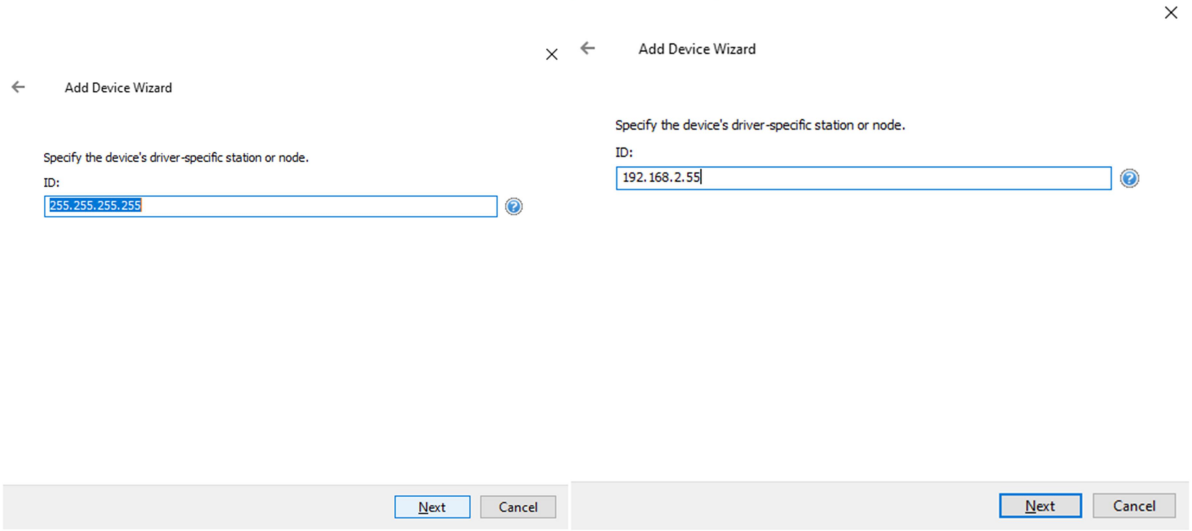
Type the name of the device here we added a PLC5 then click on Next.



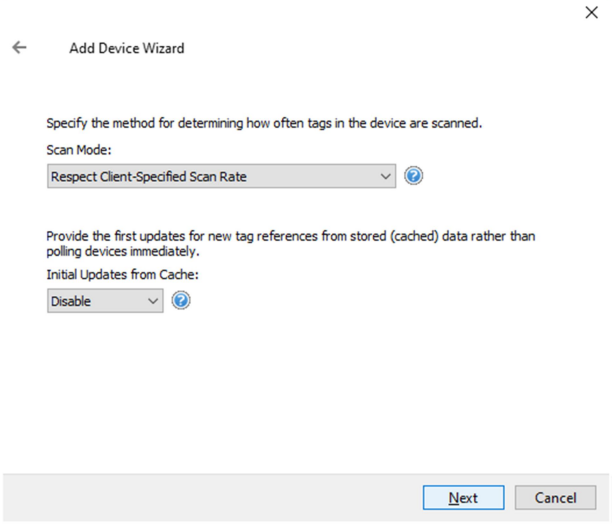
From the Model drop menu select the PLC-5 Family for PLC5, then click on Next.

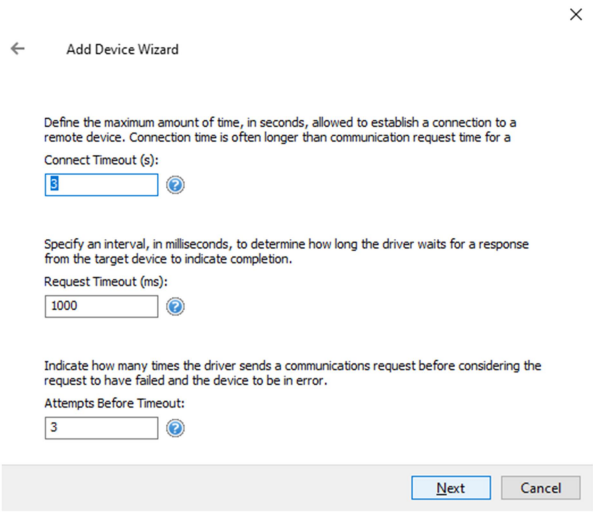


Type the IP address of the EQ7000-EDH+ then click on Next.

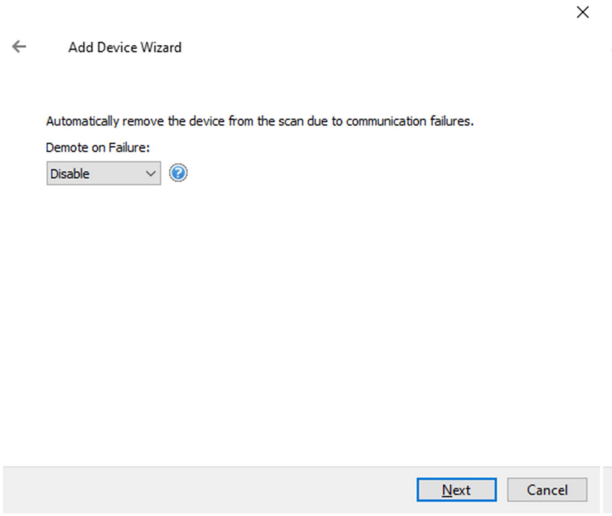


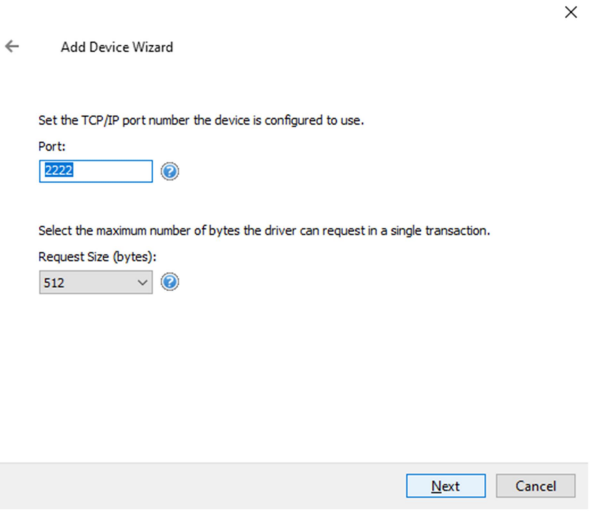
Select scan mode, Connect timeout, request timeout and attempts before timeout then click on next.



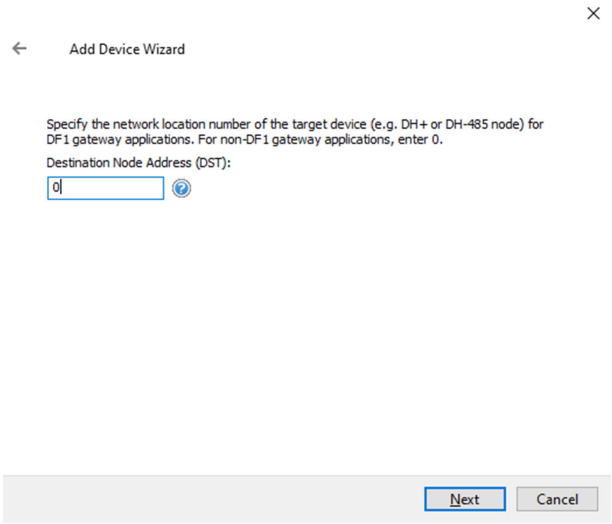


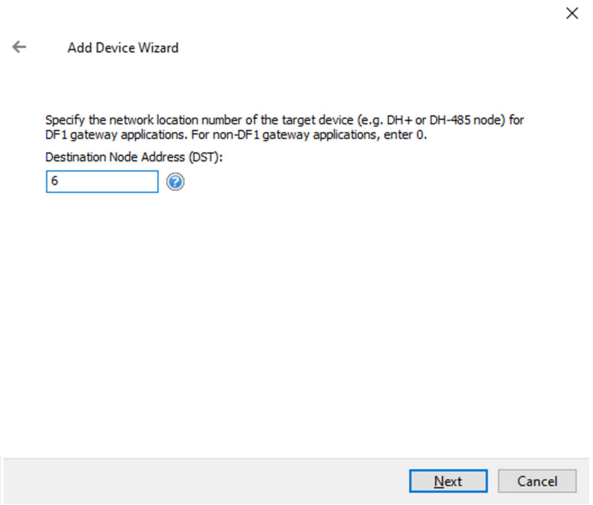
Choose your selection on Demote on failure, port number for ABTCP is 2222 and select the request size.



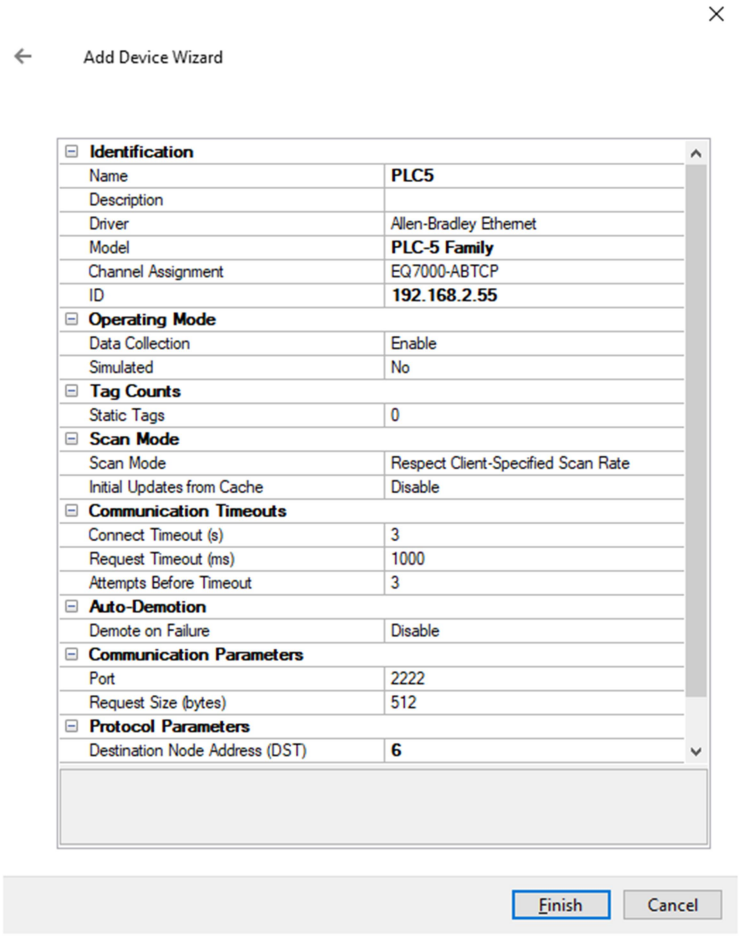


Type the node address number of the PLC which you are trying to access on DH+ network in decimal, which is here our PLC5 node address number 6.

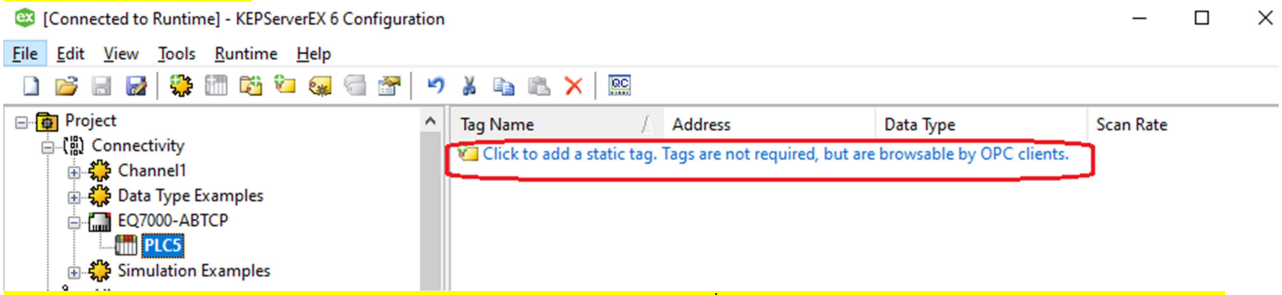




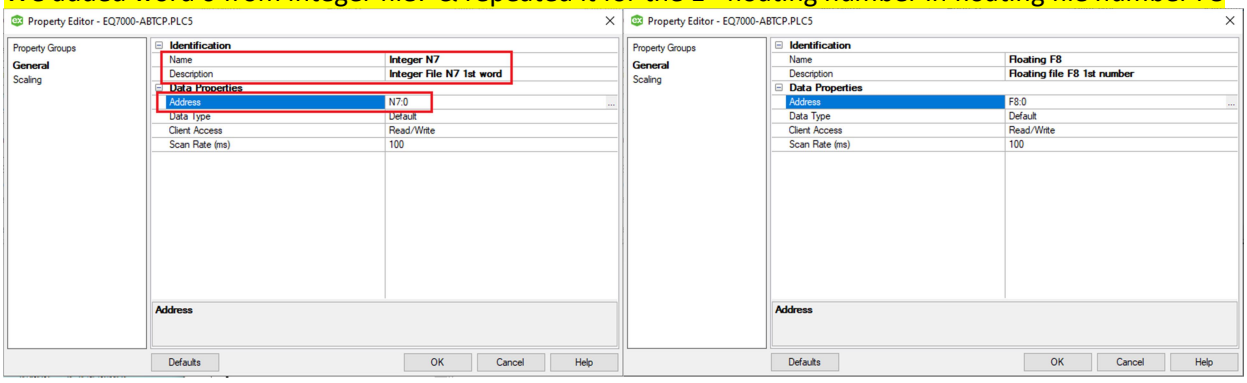
Double check your device (PLC settings) and click on finish.



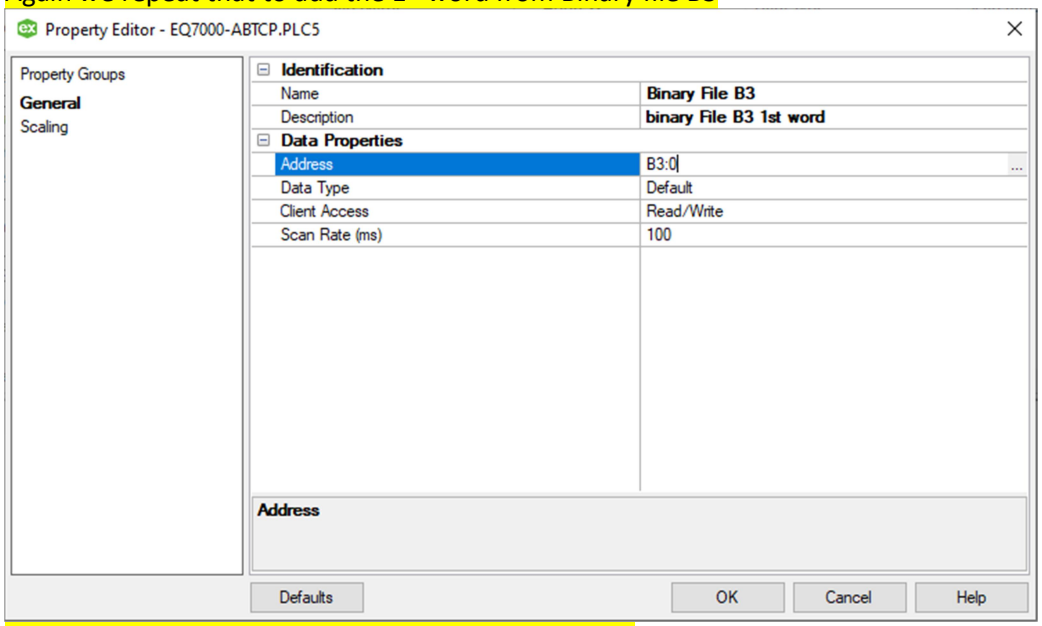
Click to add the tags.



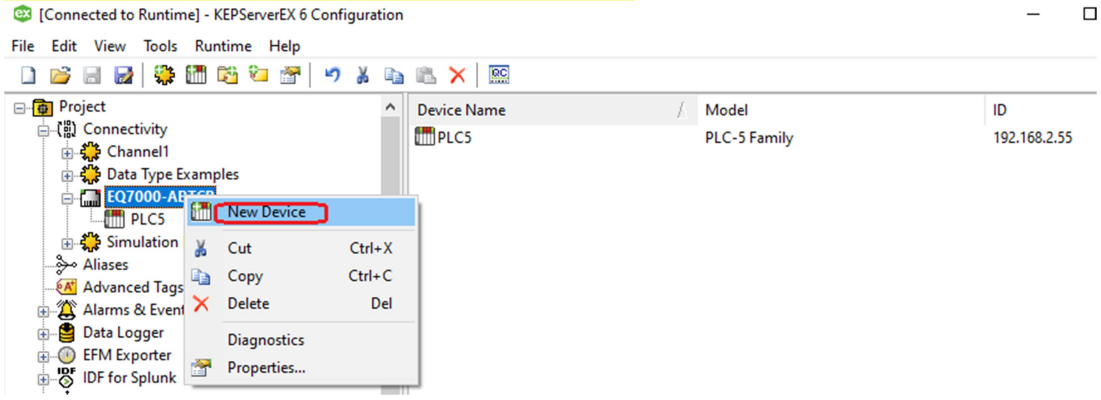
We added word 0 from integer file7 & repeated it for the 1st floating number in floating file number F8



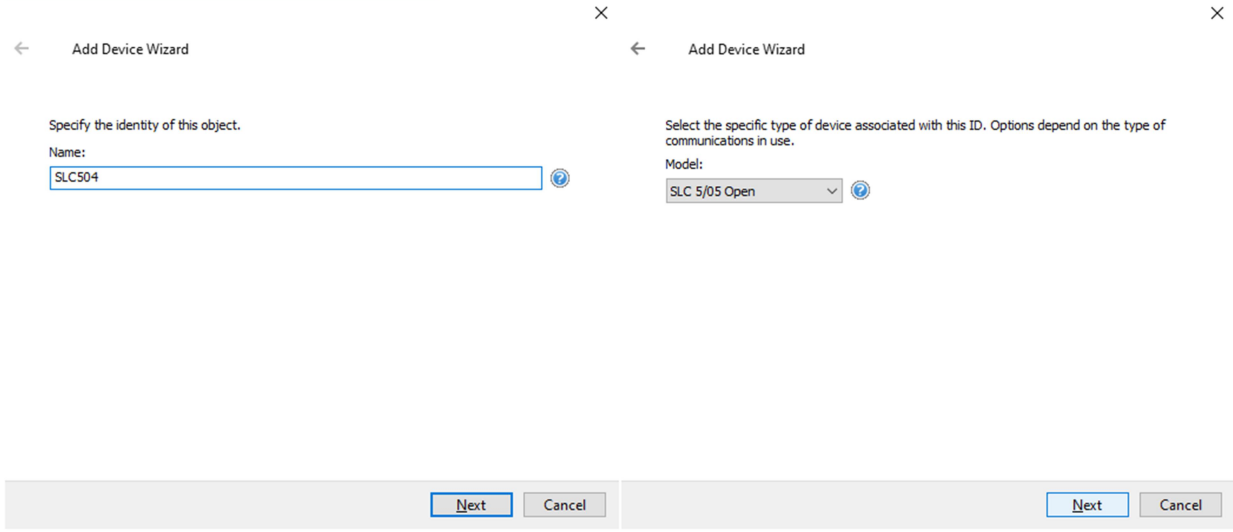
Again we repeat that to add the 1st word from Binary file B3



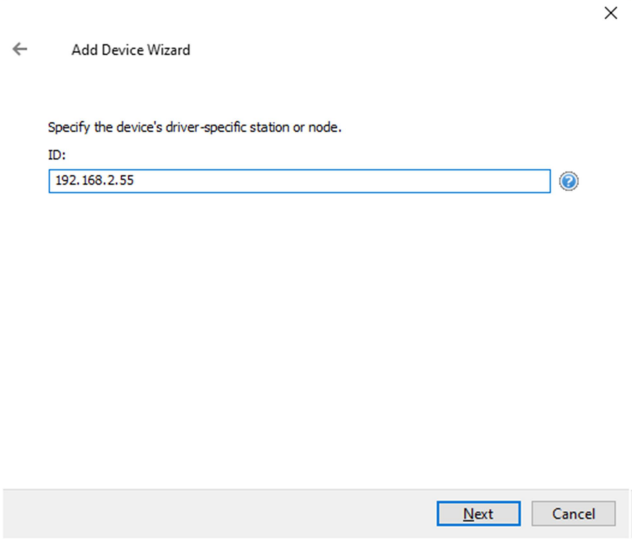
Add another device a SLC504 from the DH+ network.

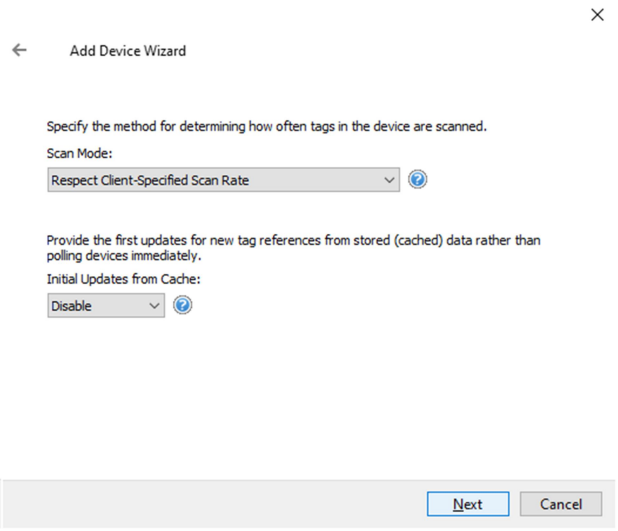


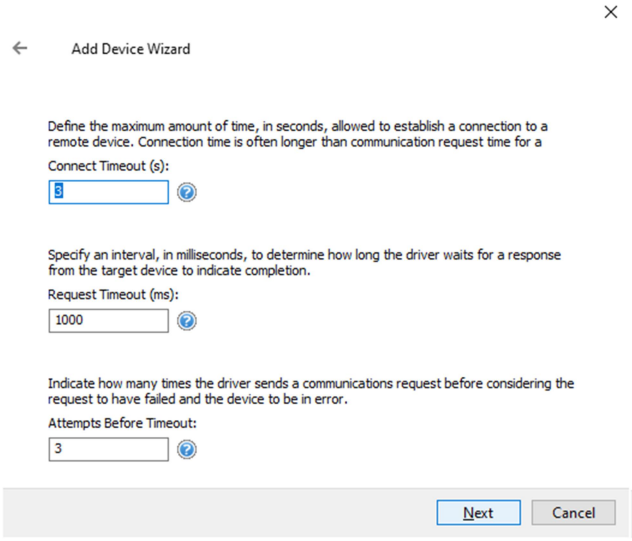
Type the name of the device and select the (SLC 5/05 Open) as a Model from the Model drop menu since that is the only SLC500 option.

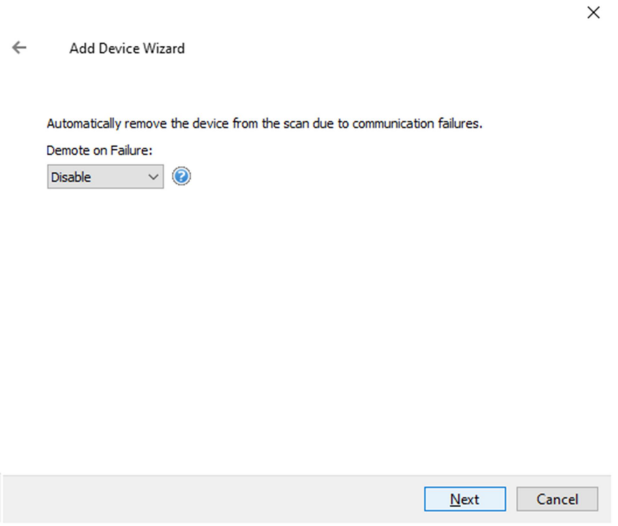


Type the IP address of the EQ7000, and continue with the rest similar to previous setup for the PLC5

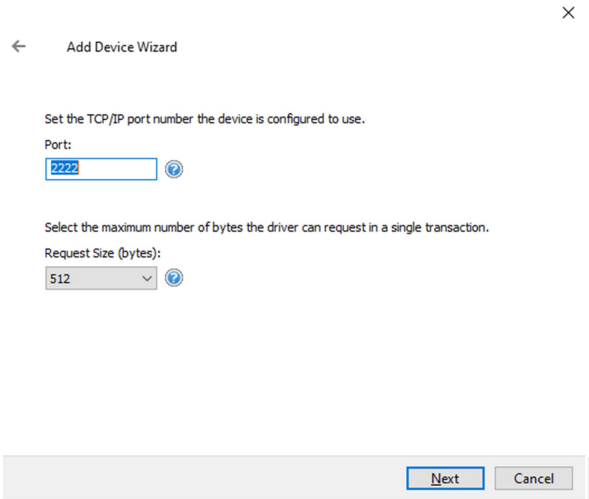


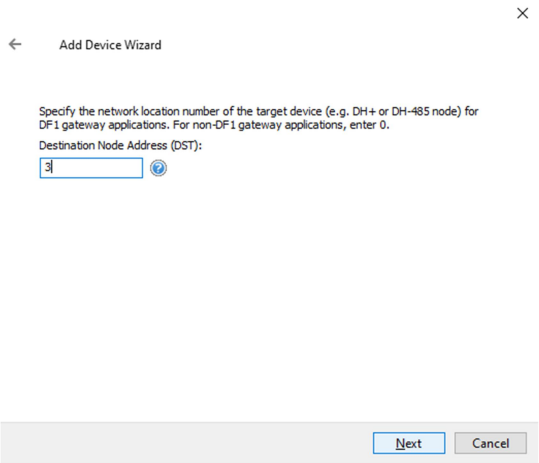




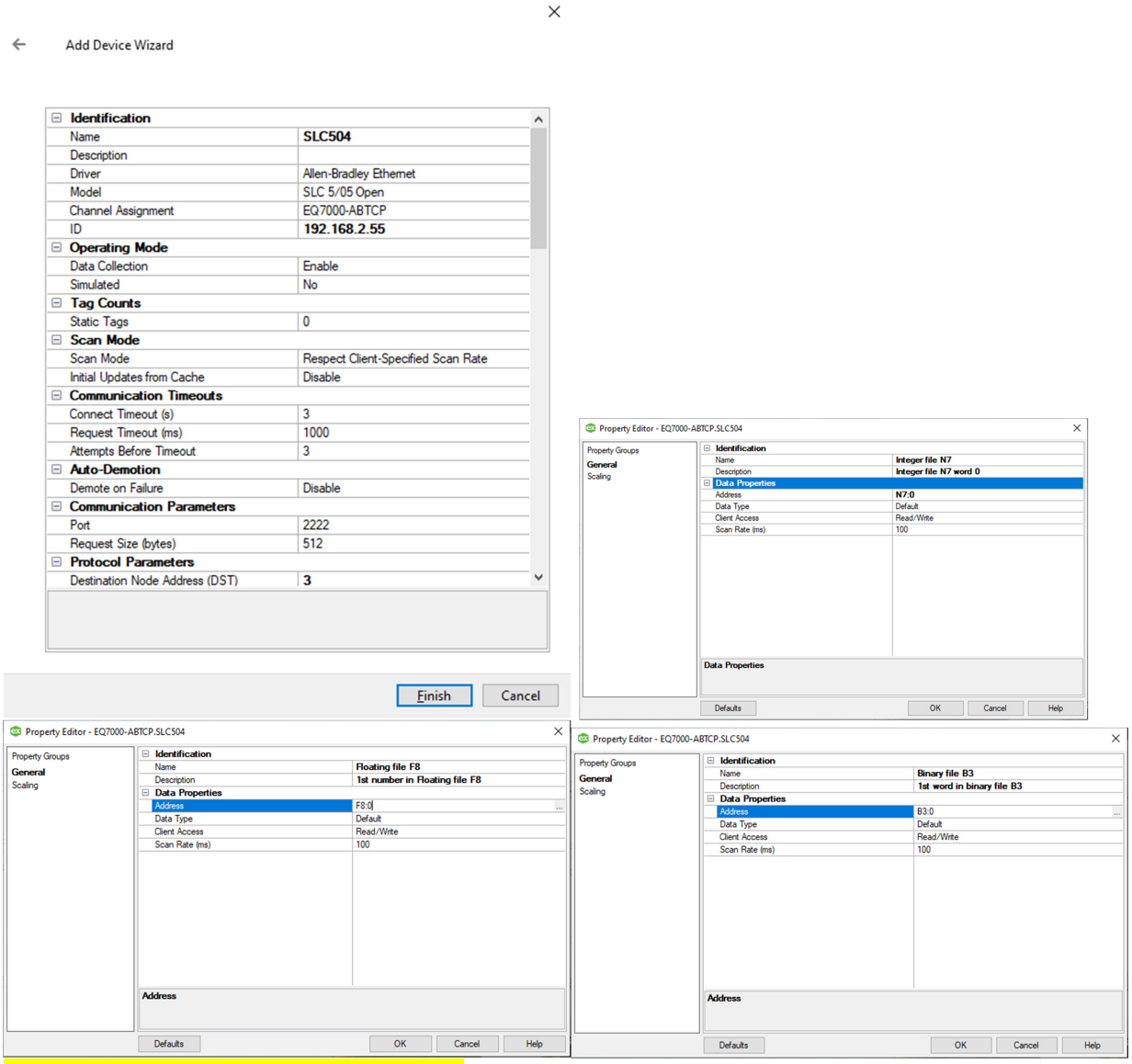


Leave the port as 2222 and enter the node address of the SLC5/04 which is 3 in our DH+ network.

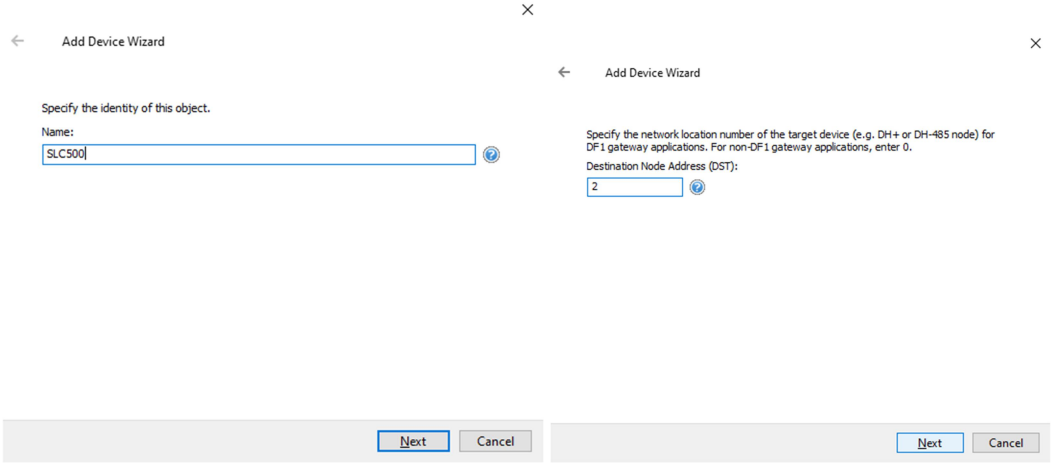


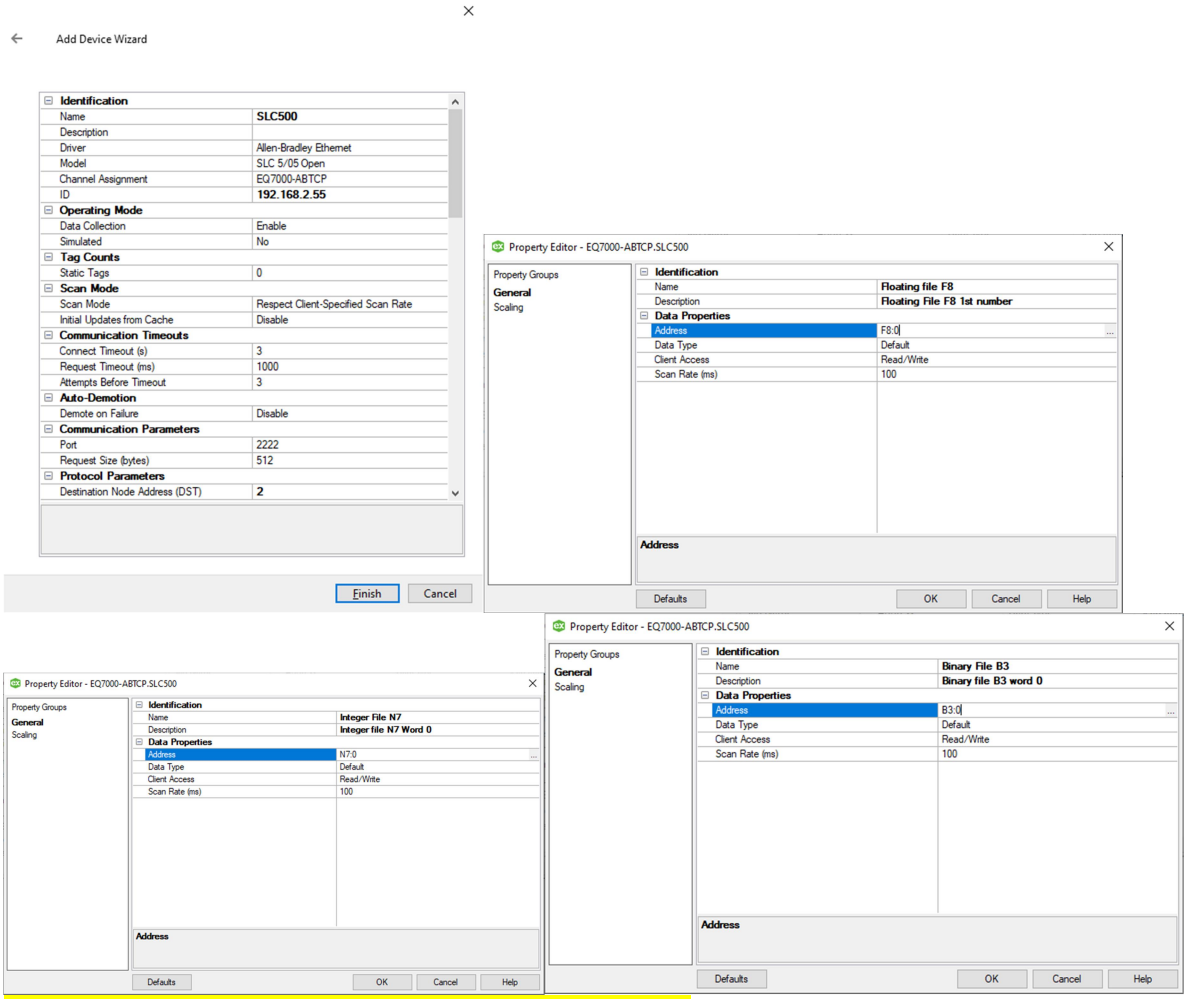


Double check the SLC504 settings and similarly add tags for the SLC-504.

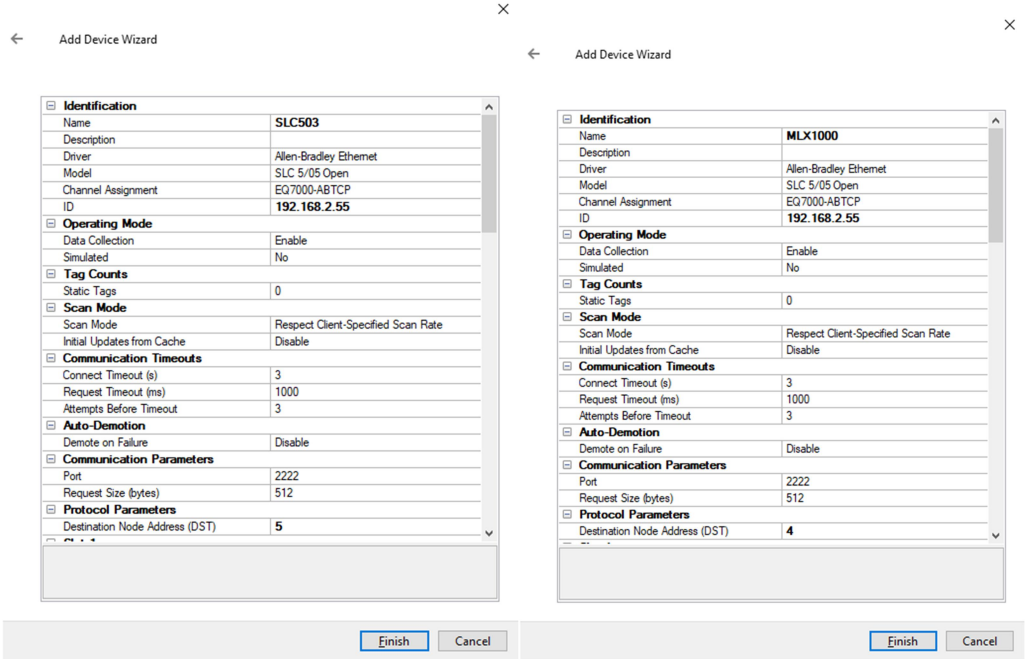


Similarly add the SLC505 and add it's tags.

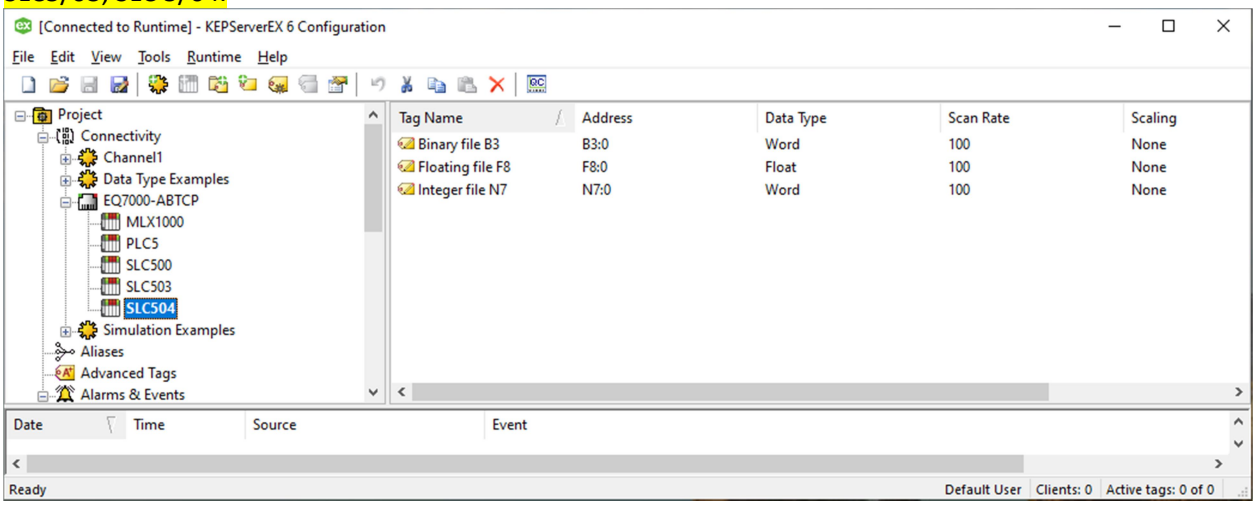




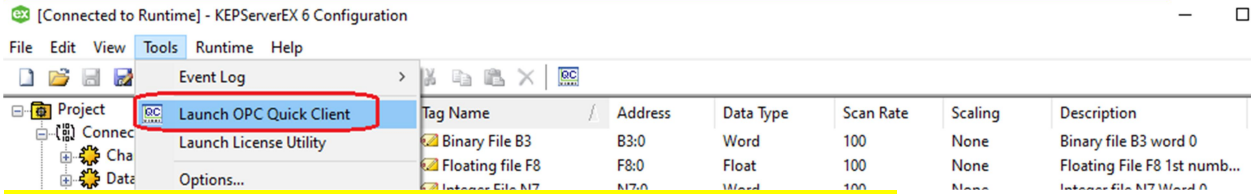
Add the Micro Logix and the SLC 5/03 as well as their tags



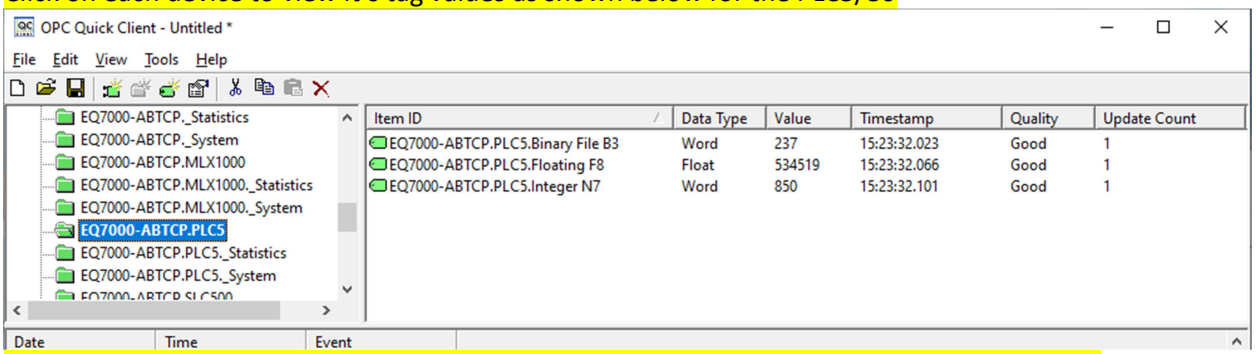
After adding all our devices, they will show under the ABTCP driver, Micrologix1000, PLC5, SLC 5/05, SLC5/03, SLC 5/04.



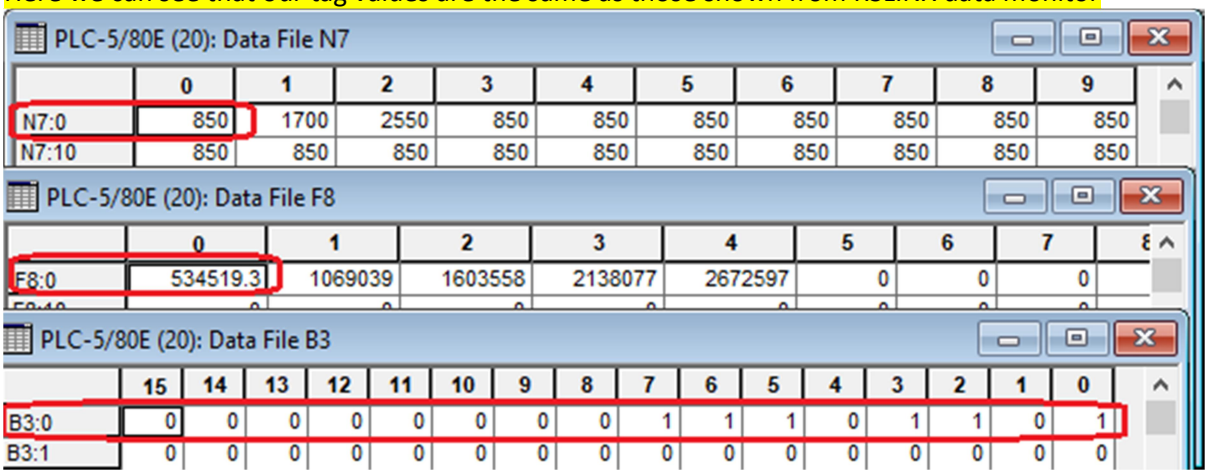
To confirm that we can read tag values, click on Tools tab then click on (Launch OPC Quick Client).



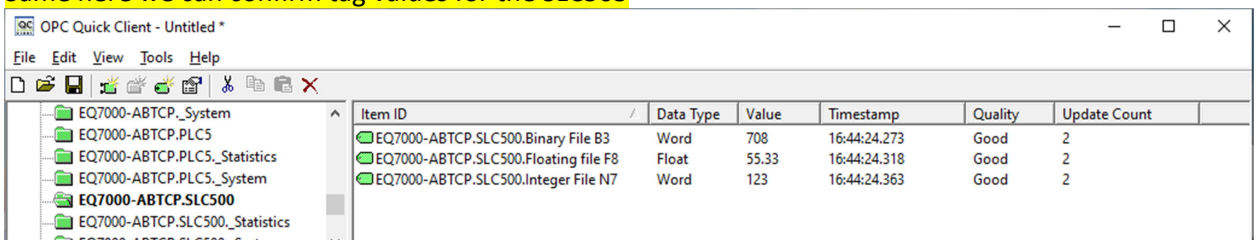
Click on each device to view it's tag values as shown below for the PLC5/80



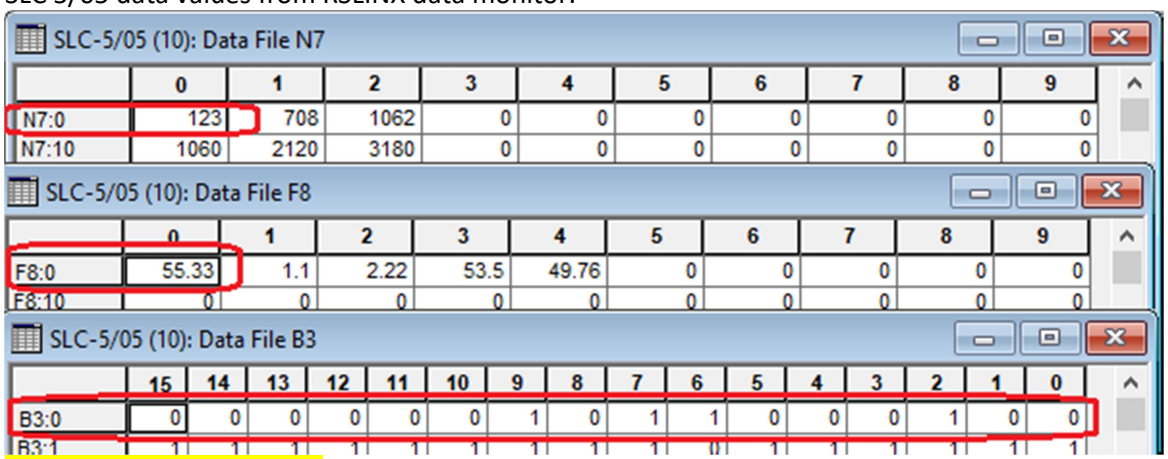
Here we can see that our tag values are the same as those shown from RSLINX data monitor



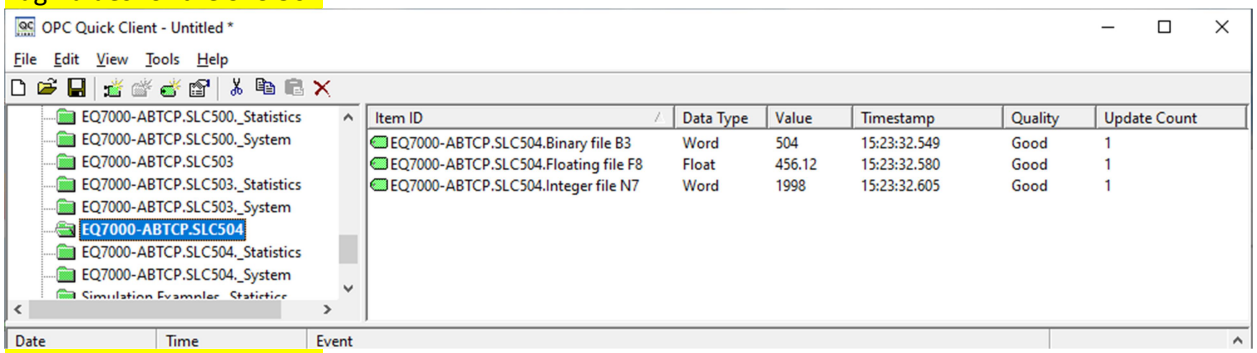
Same here we can confirm tag values for the SLC505



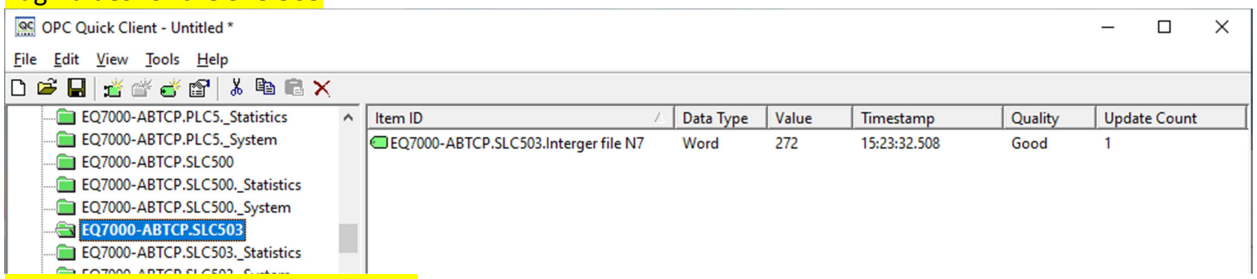
SLC 5/05 data values from RSLINX data monitor.



Tag Values for the SLC-504



Tag Values for the SLC-503



Tag Values for the MicroLogix1000