Accessing Allen Bradley DH+ PLC 5 and SLC 504 with EQ7000 using Ethernet IP Driver from Kepware KEPServerEX

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 port click on Configure.



Click on Next



Select your network Mode DH+ or DH485.



Select a unique node address for the EQ7000.



Select the network speed.



Click on Next.



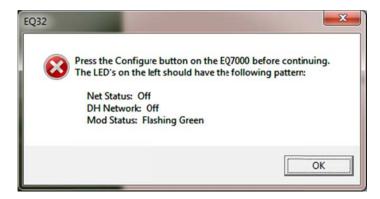
Enter an IP address for the EQ7000, and the Net mask as well as the Gateway.



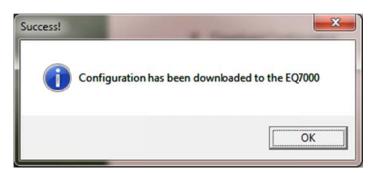
Click on finish.



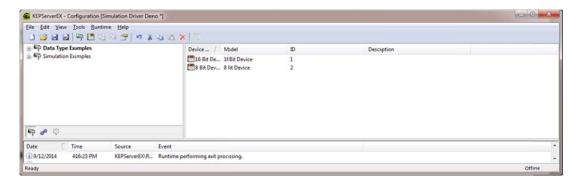
Press on the Configure push button switch on the right hand side of the unit and click OK.



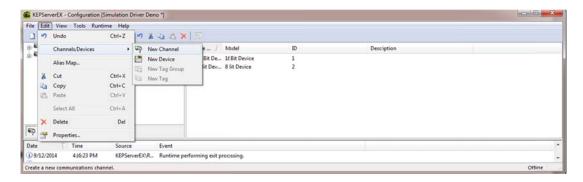
Once you have downloaded OK to the EQ7000 you should get the Success message shown below click on OK



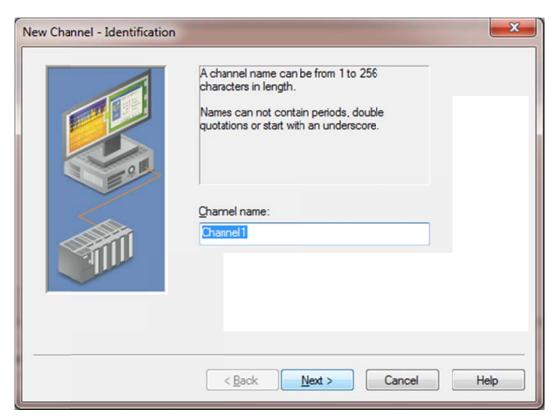
Start KEPServer.



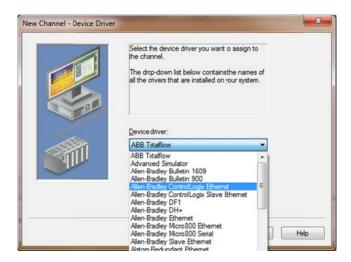
Add New Channel.



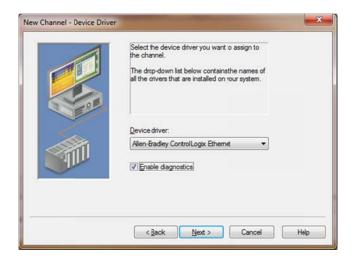
Name the Channel.



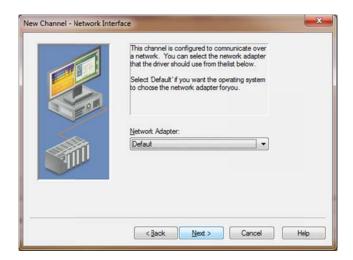
From Device Driver select Allen Bradley ControlLogix Ethernet.



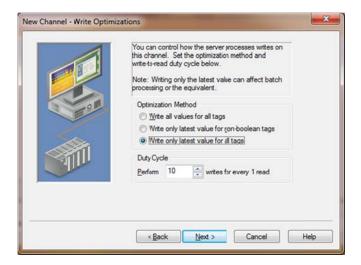
Click on Next



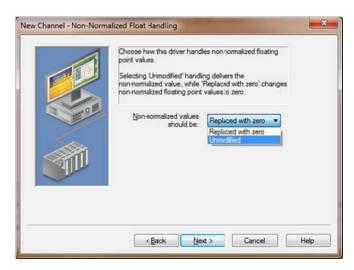
Select Network adapter and click Next.



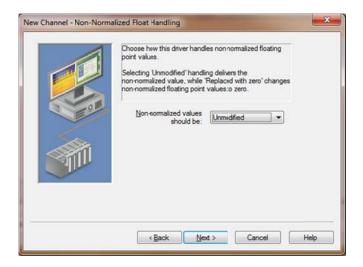
Select optimization method, Duty Cycle and click on Next.



Choose how to handle non-normalized floating point values.



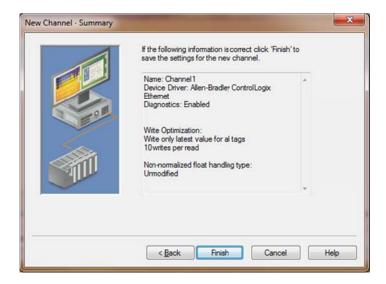
Click on Next.



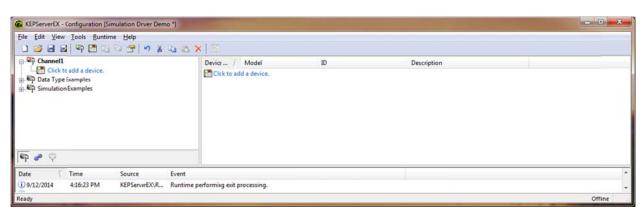
Click on Next.



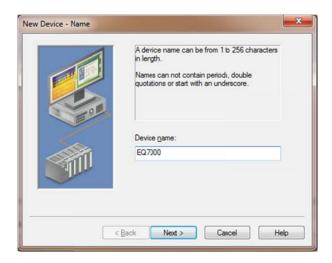
Click On Finish.



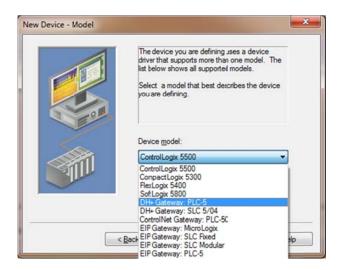
Click on where it says Click to add a device.



Name the Device and click Next.



To access PLC5 under Device model select DH+ Gateway: PLC-5



Click on Next.



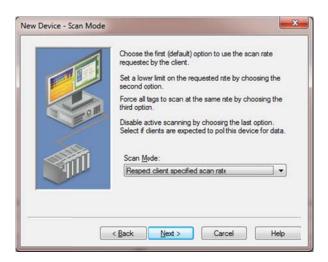
Enter <IP or Hostname>,1,[<Optional Routing Path>],<DHRIO Slot>.<DHRIO Channel>.<DH+ Node ID (dec)> as shown <IP address of the EQ7000>,0,0.A.PLC5 node address in decimal



Select Scan Mode.



Click Next



Enter Communication timing parameters.



Click Next.



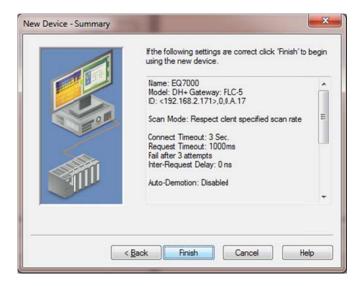
Select Database and action required.



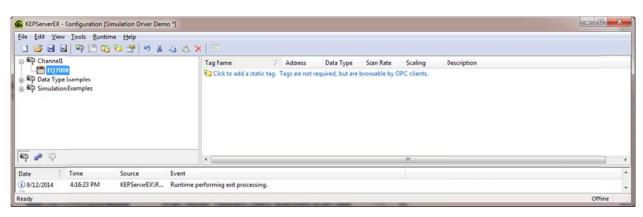
Make sure port is set to 44818, and select maximum number of bytes per request, and click Next.



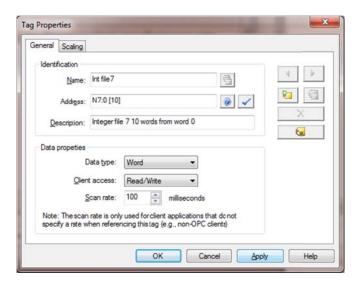
Make sure your settings are right and click on finish.



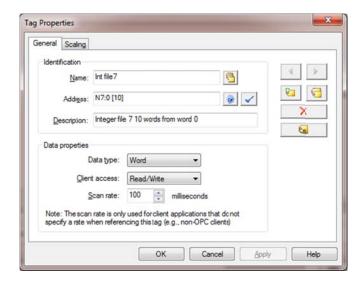
Click to add tags.



In this example we added Integer file N7 to read 10 words starting from word 0.



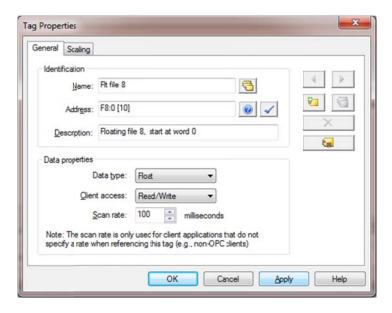
Click on Apply



Click to add new Tag.



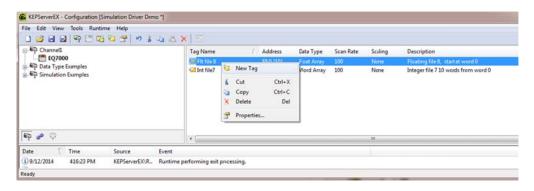
Repeating the procedure for Floating point file F8.

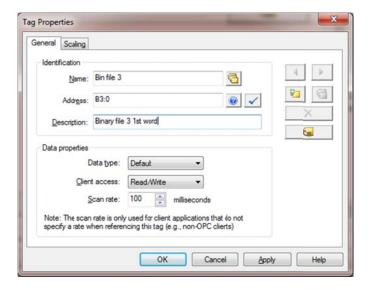


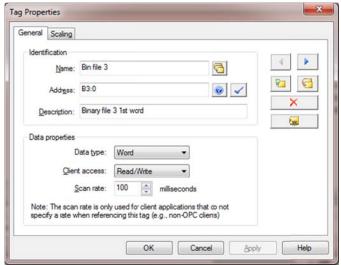
Click on Apply



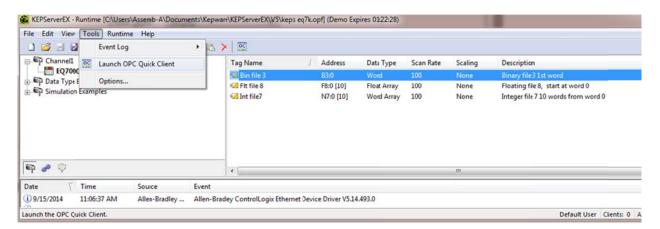
Repeat the procedure for Binary file B3.

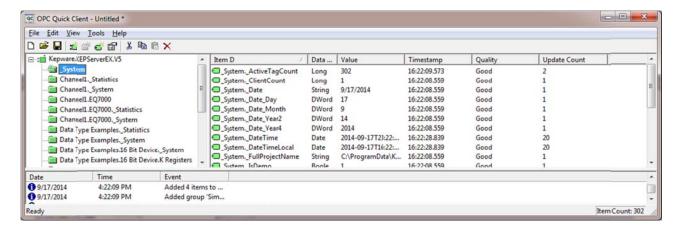




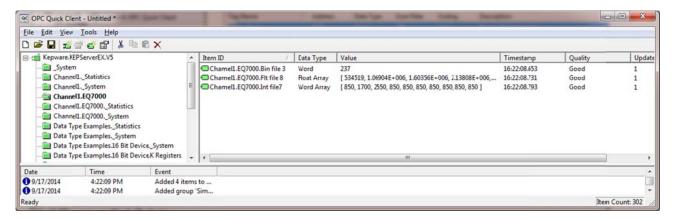


Click on Lunch OPC Quick Client





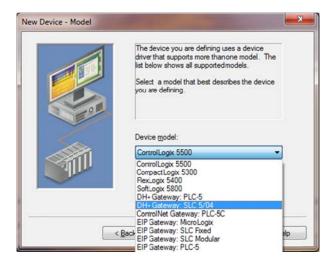
Click on the device to read the tag values as shown below.



Below we will repeat the procedure for the SLC 504, add a new device and name it.



From Device Model, select DH+ Gateway: SLC 5/04

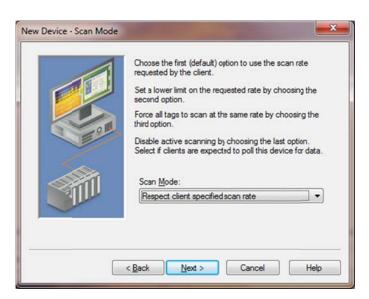


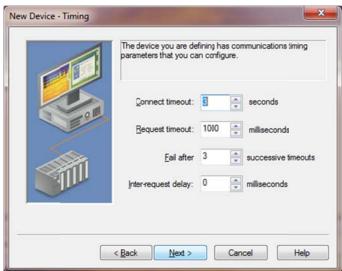
Click Next.



Enter Device ID similar to previously done for PLC5 except here the node address for our SLC5/04 is 3.



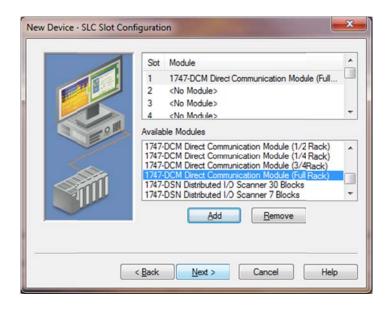


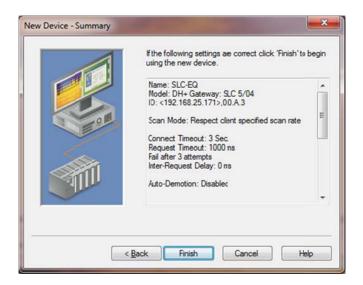




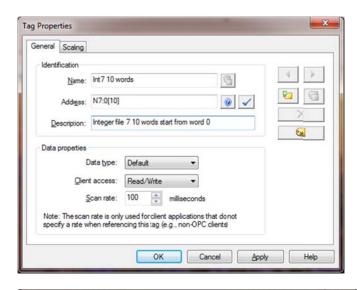




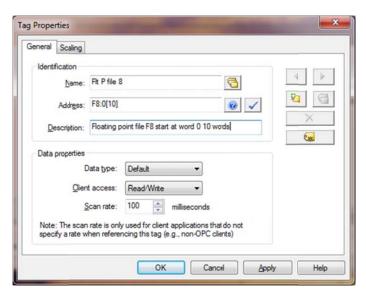




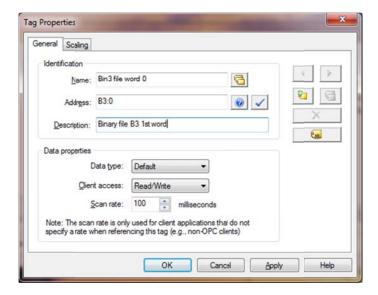
Here we added same tags for the SLC 5/04, N7, F8, and B3.













Lunch OPC Quick Client.

