

# Kepware Kepserver Application Note

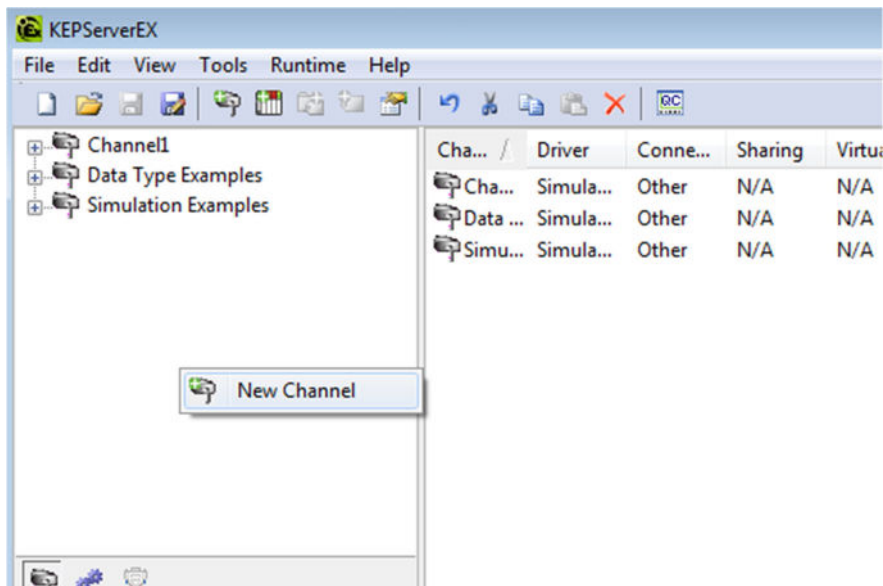
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*This document provides information to configure Kepware KEPServerEX HMI to communicate with a DH+ network from a computer with an ANC-120e USB to Data Highway Plus adapter or ANC-100e Ethernet to Data Highway Plus adapter.*

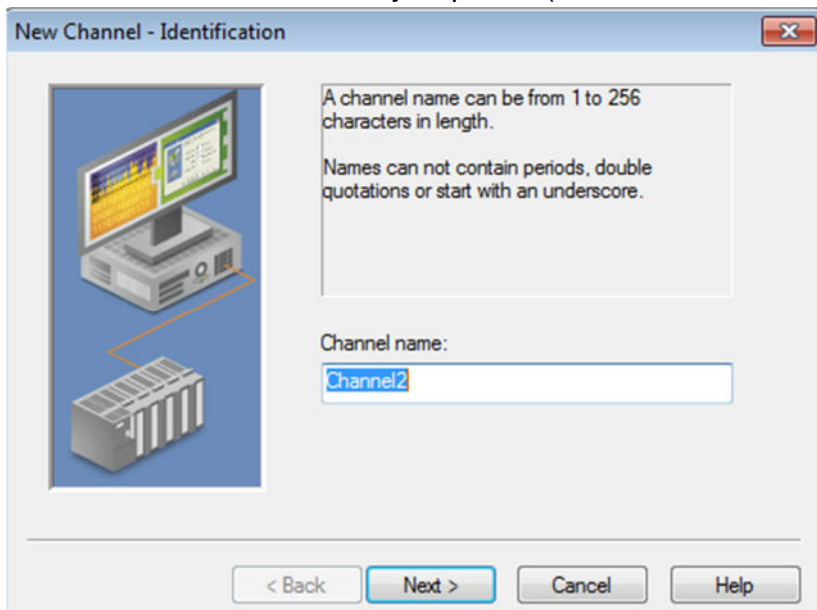
Note: Before proceeding, make sure

- ✓ 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.

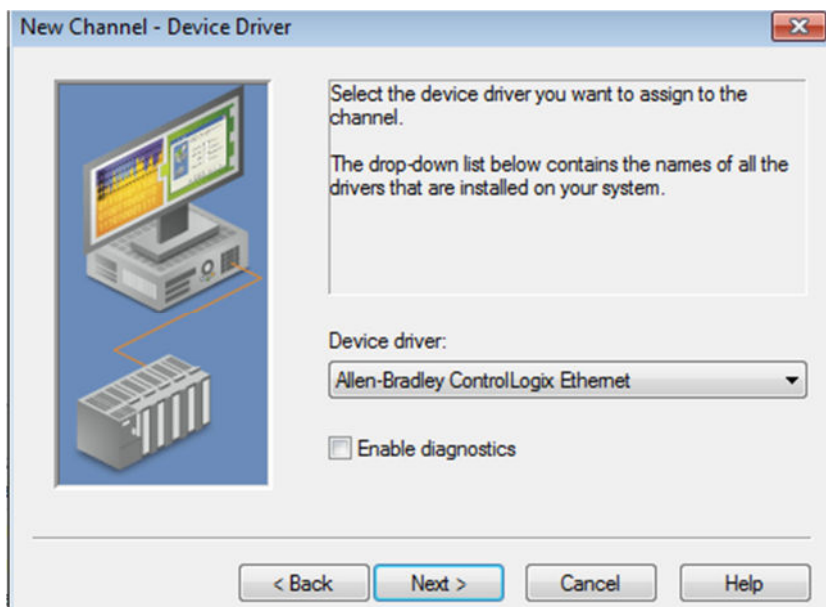
1. Open “KEPServerEX”
2. Right Click on the empty space on the left side of the window to create a new channel



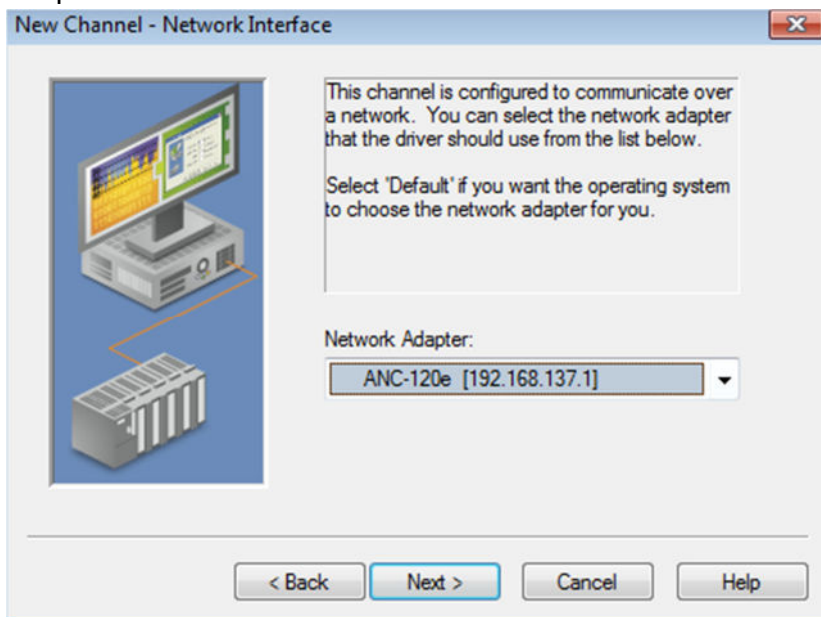
3. Name the new channel as you prefer (Channel2 in this example) and click “Next”



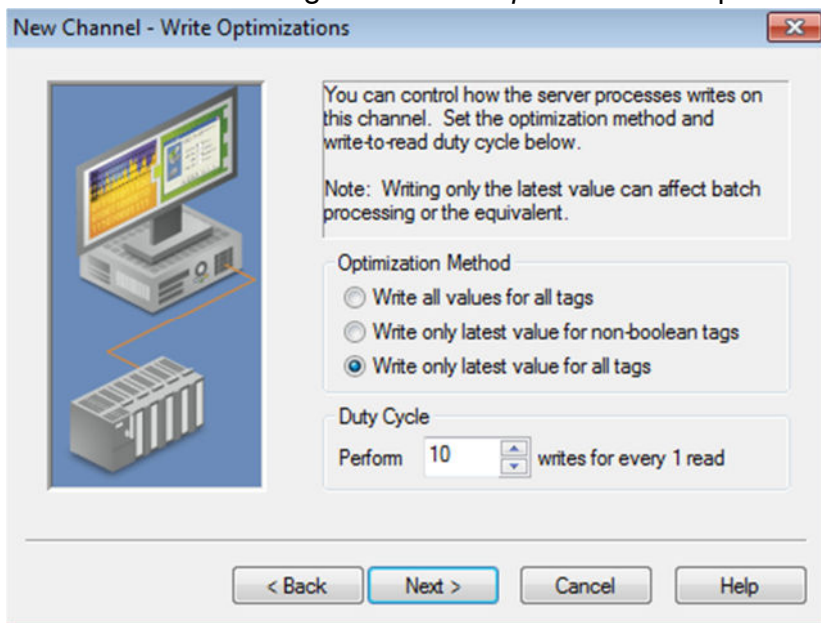
4. From the “Device driver” dropdown list select “Allen-Bradley ControlLogix Ethernet” and click “Next”



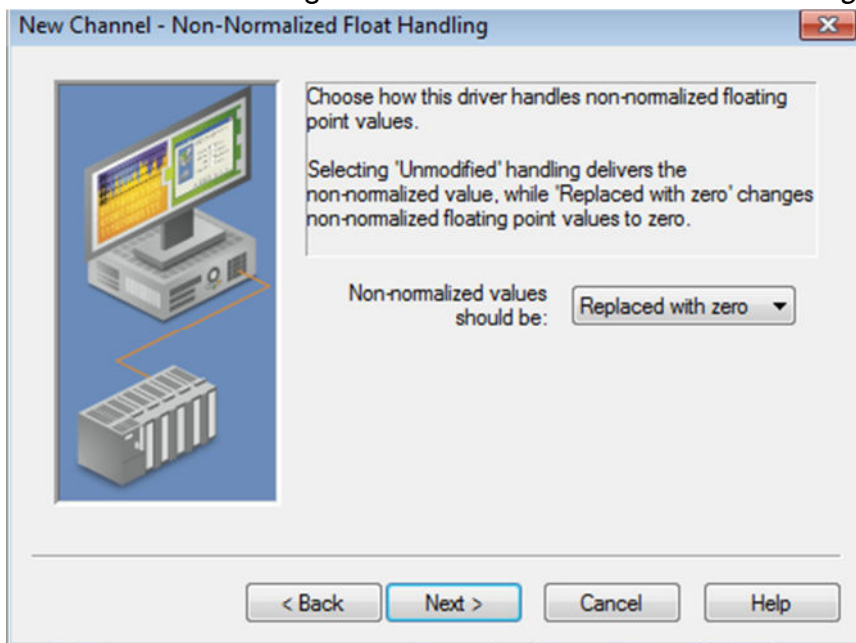
5. From the “*Network Adapter*.” dropdown list select the ANC-120e or the Network adapter connected to the same Ethernet network than ANC-100e and click “*Next*”



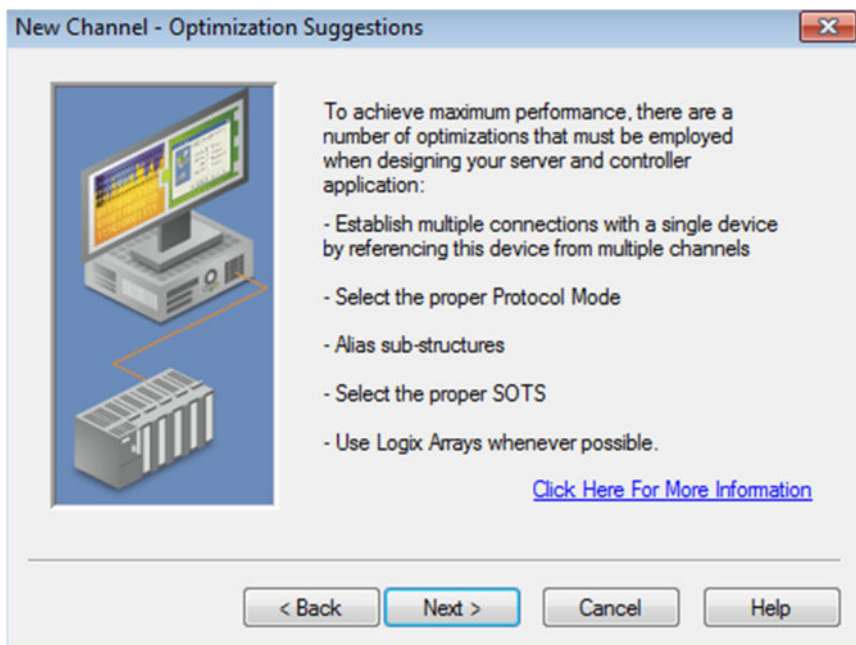
6. Use the default settings for “*Write Optimizations*” options and click “*Next*”



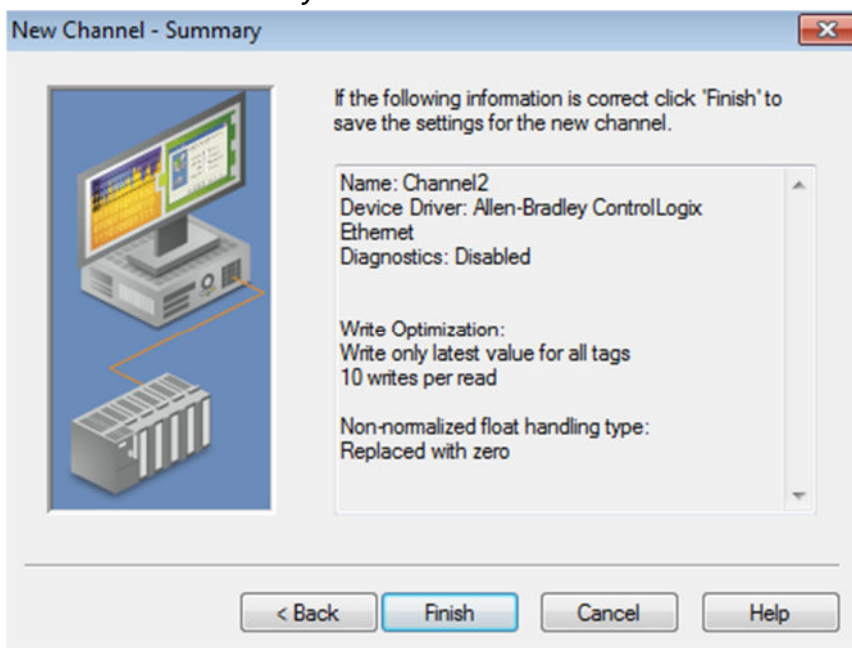
7. Use the default settings for “*Non- Normalized Float Handling*” and click “*Next*”



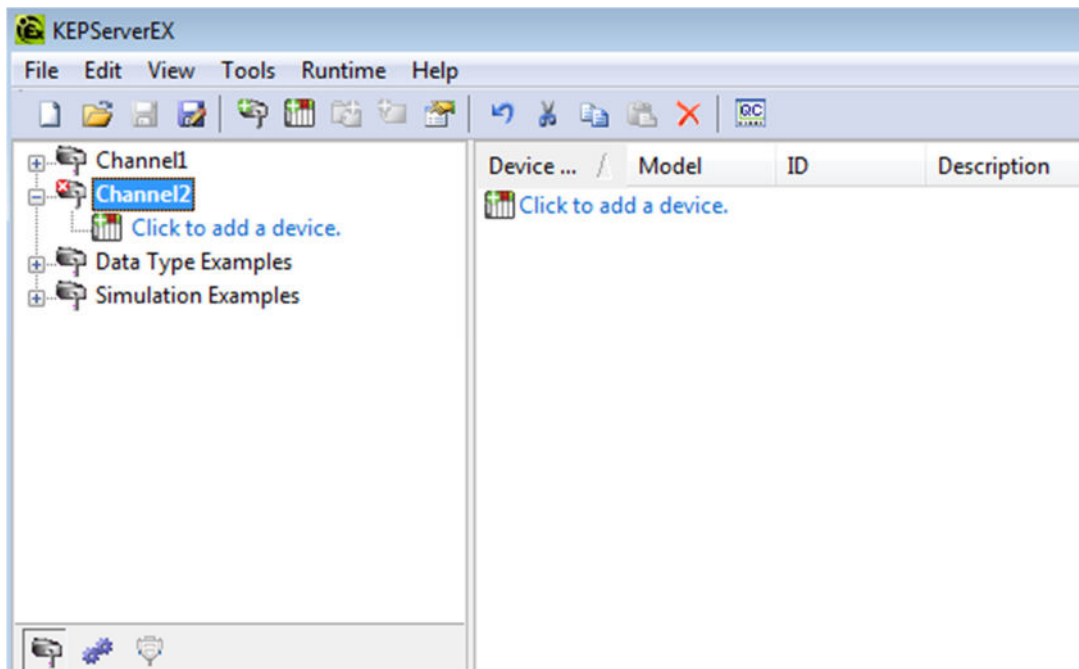
8. Click “*Next*”



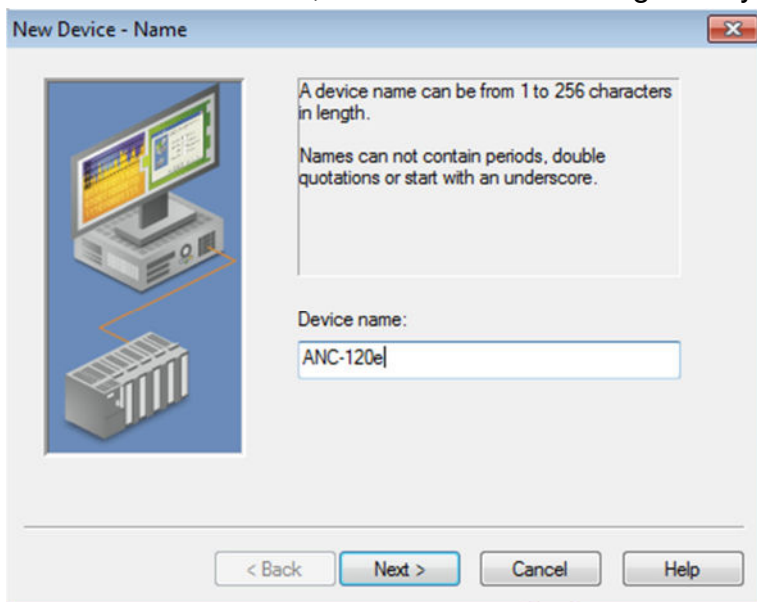
9. Review the “*Summary*” and click “*Finish*”



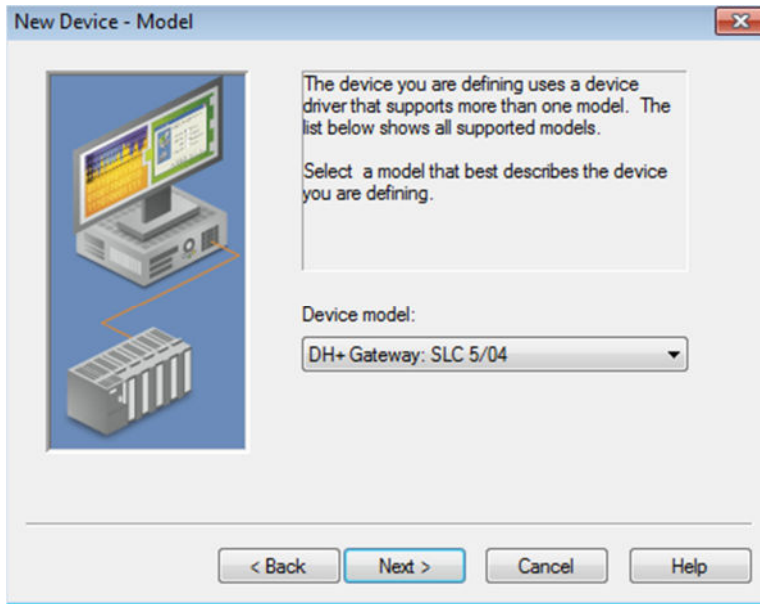
10. Click on the new Channel to select it and then click on “Click to add a device”



11. Under “Device Name”, enter a name meaningful for you and click “Next”



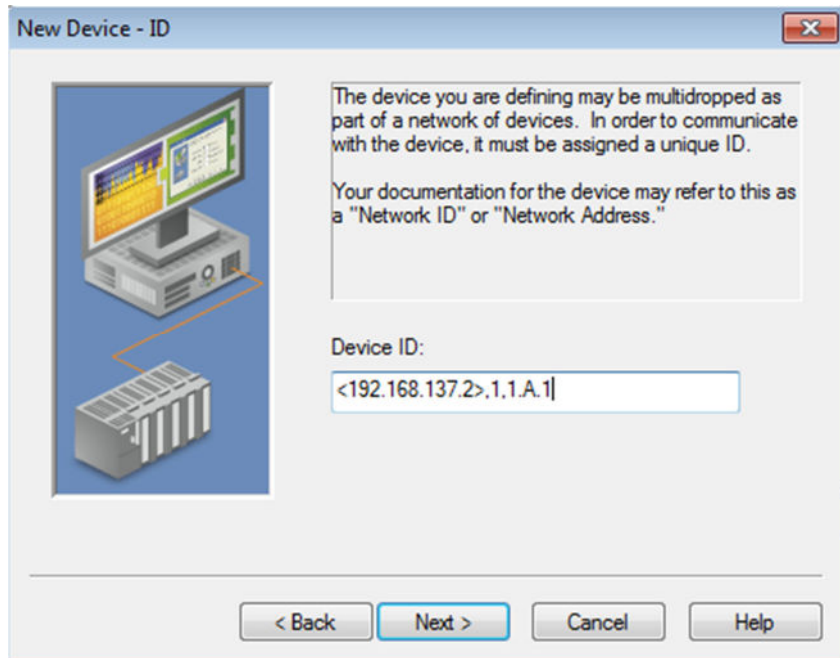
12. From the “*Device Model:*” dropdown list, select “*DH+ Gateway: SLC 5/04*” and click “*Next*”



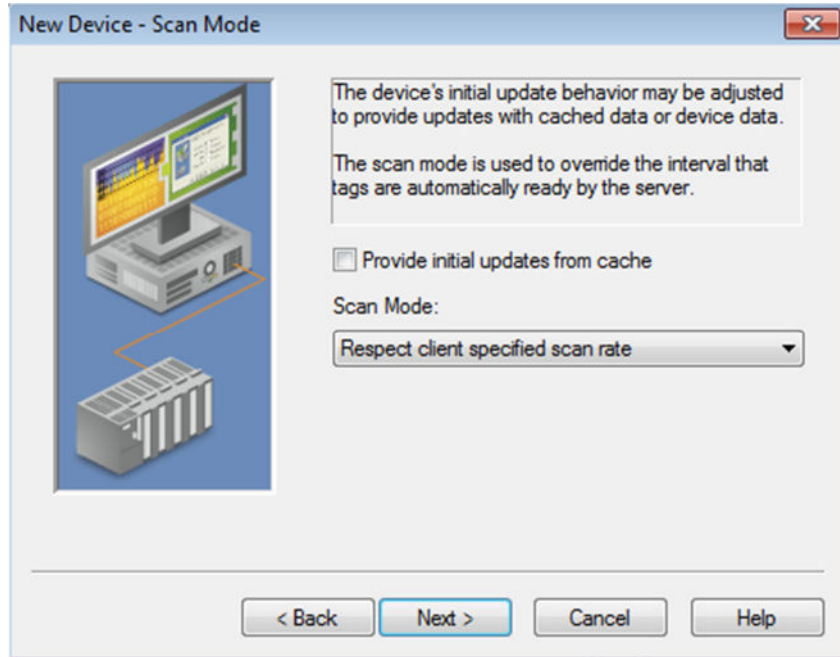
13. Under “*Device ID*”, enter the following path:  
*<IP of ANC adapter>, 1, 1. A. Target\_DH+\_Node\_number*

Please notice that there are “,” and “.” in the path  
When you are finished with the path, click “*Next*”



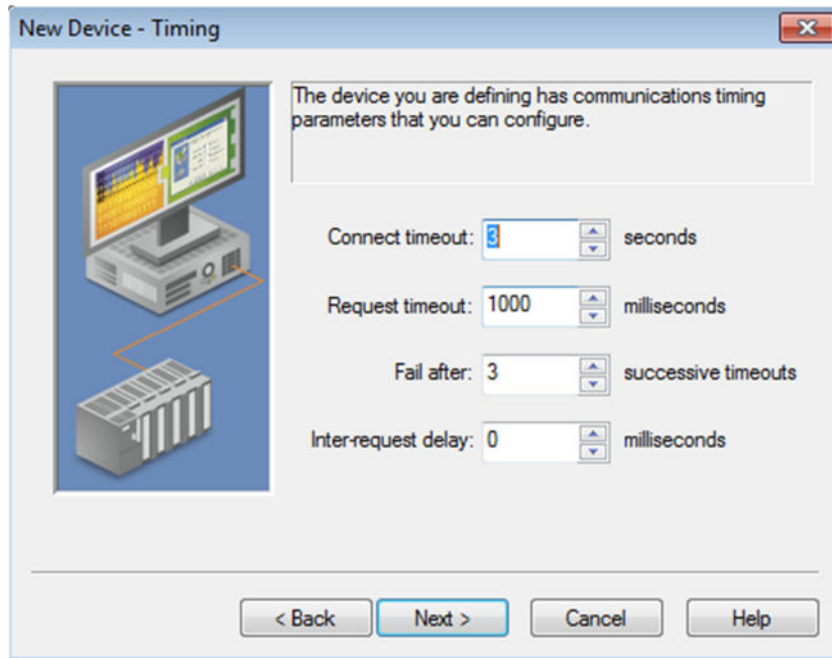


14. Use default values for “*Scan Mode*” and click “*Next*”

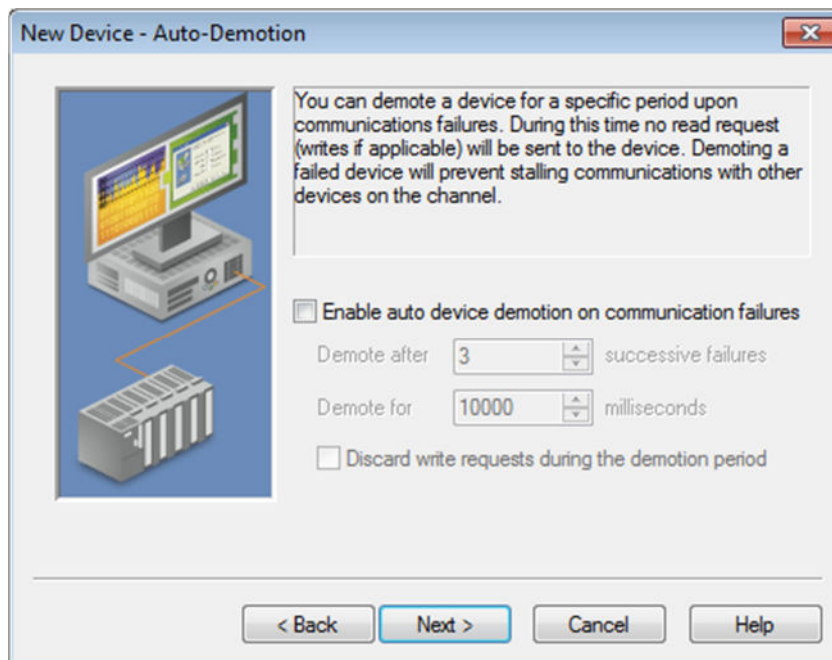


15. Use defaults values for “*Timing*” and click “*Next*”

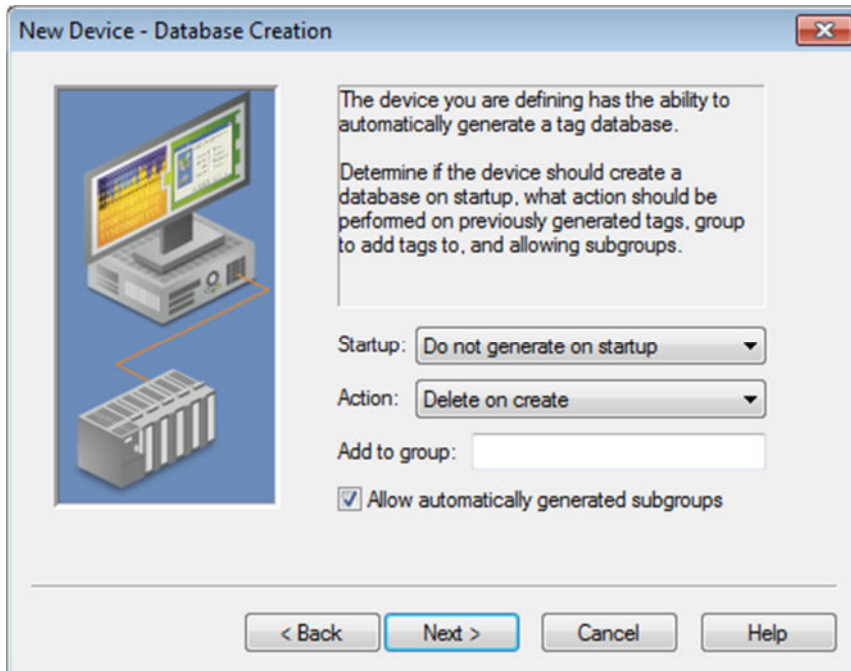




16. Use defaults values for “*Auto-Demotion*” and click “*Next*”



17. Use default values for “*Database Creation*” and click “*Next*”



New Device - Database Creation

The device you are defining has the ability to automatically generate a tag database.

Determine if the device should create a database on startup, what action should be performed on previously generated tags, group to add tags to, and allowing subgroups.

Startup: Do not generate on startup

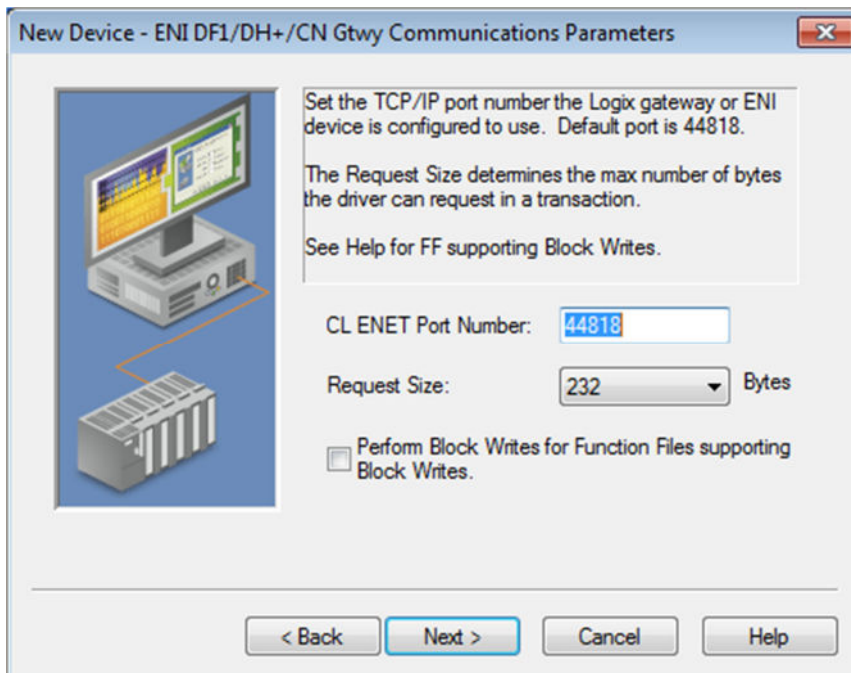
Action: Delete on create

Add to group:

☒ Allow automatically generated subgroups

< Back Next > Cancel Help

18. Use default values for “*ENI DF1/DH+/CN Gtwy Communications Parameters*” and click “*Next*”



New Device - ENI DF1/DH+/CN Gtwy Communications Parameters

Set the TCP/IP port number the Logix gateway or ENI device is configured to use. Default port is 44818.

The Request Size determines the max number of bytes the driver can request in a transaction.

See Help for FF supporting Block Writes.

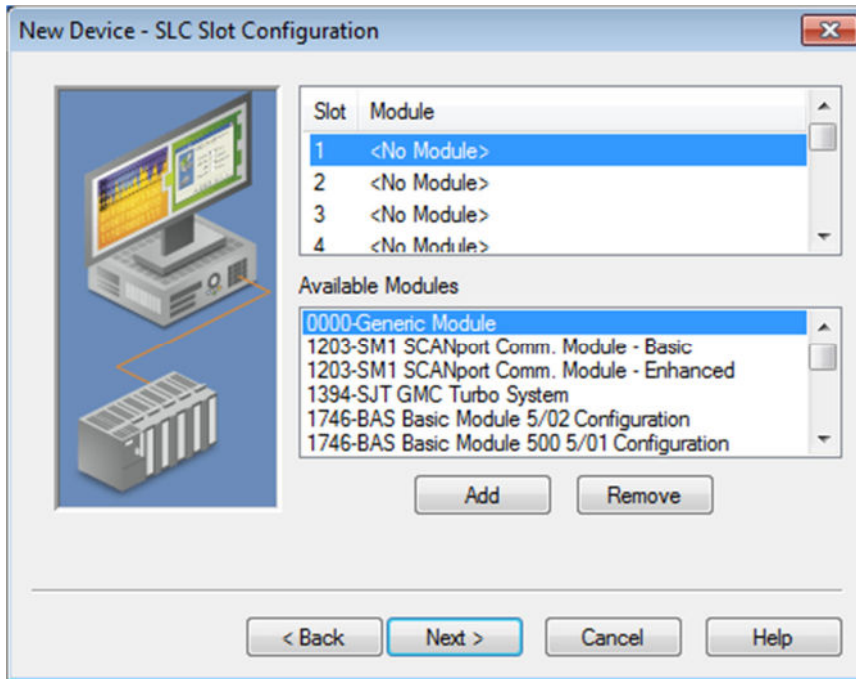
CL ENET Port Number: 44818

Request Size: 232 Bytes

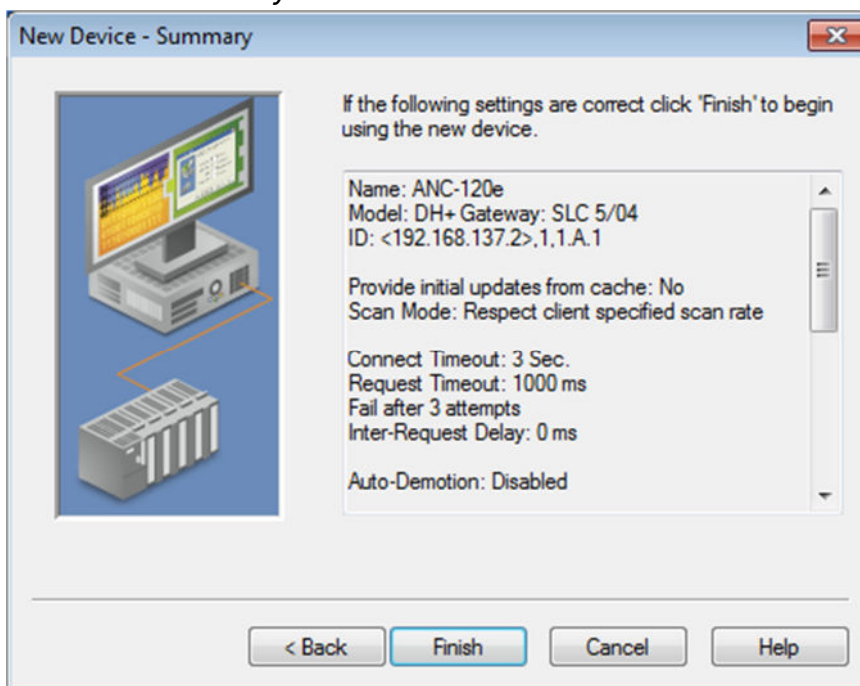
☐ Perform Block Writes for Function Files supporting Block Writes.

< Back Next > Cancel Help

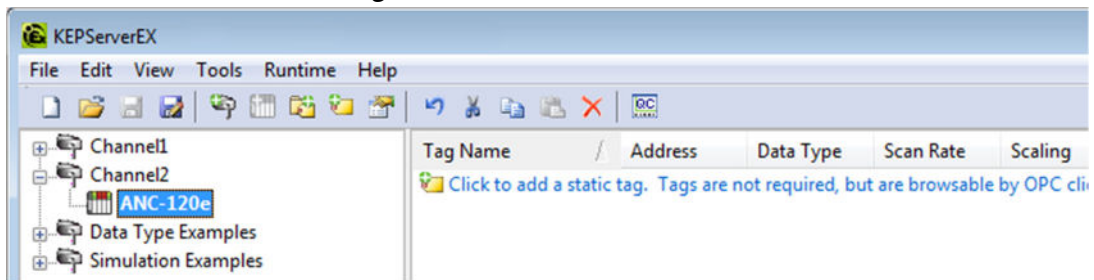
19. Use default values for “*SLC Slot Configuration*” and click “*Next*”



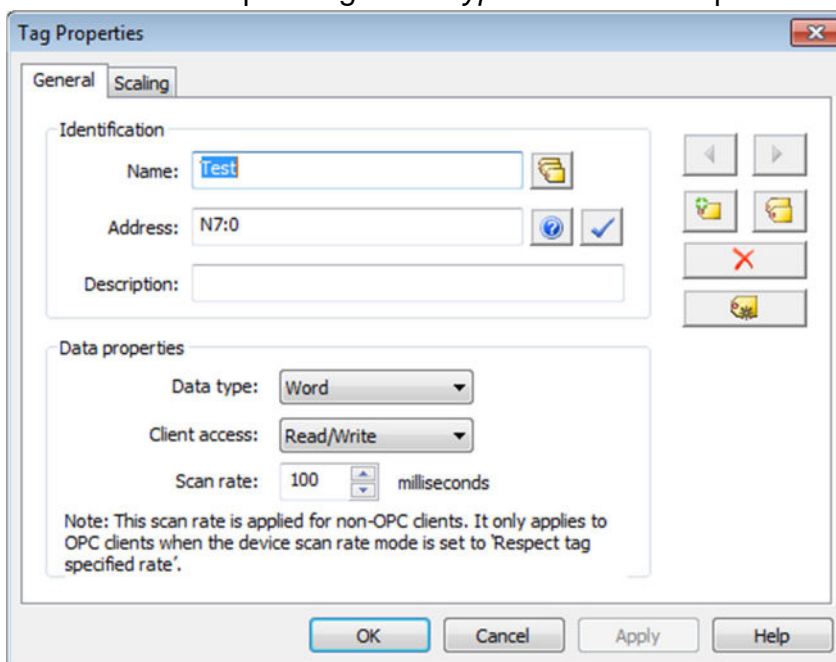
20. Read the “*Summary*” and click “*Finish*”



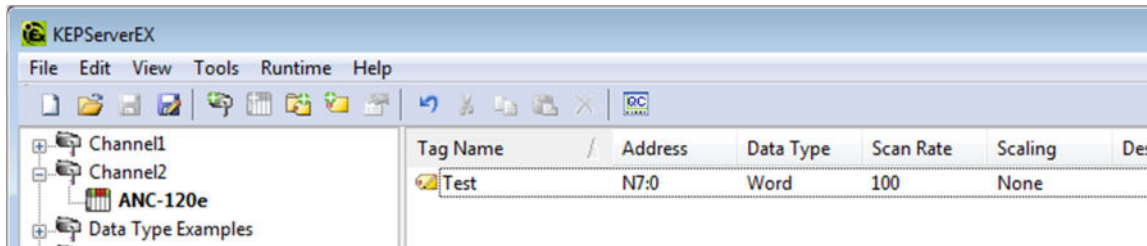
21. Click on the recently created device under our channel to select it and then click on *“Click to add a static tag”*



22. Enter a meaningful name for the tag in the *“Name:”* field  
23. Enter a known address of your PLC in the *“Address:”* field (N7:0 for our example)  
24. Select the corresponding *“Data type:”* from the dropdown list and click *“OK”*



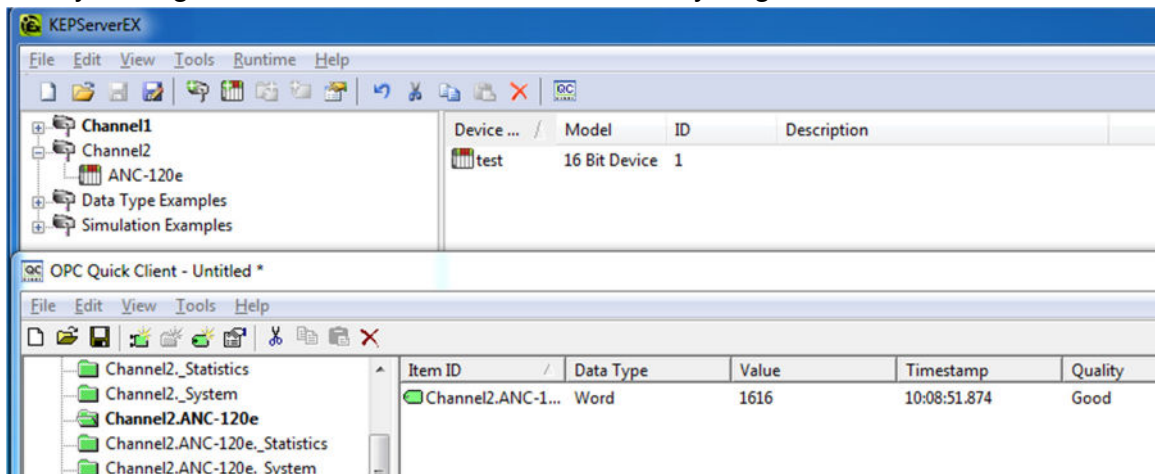
25. With this, you can test the connection to your PLC on DH+ using the Quick OPC Client



26. In our example, N7:0 is known to hold the value 1616

Use Tools -> OPC Quick Client

Find your tag in the list of items and confirm that you get the correct value.



This concludes this application note.