ANC-100e and ANC-120e Ethernet and USB to DH+ Adapters

Automation Networks

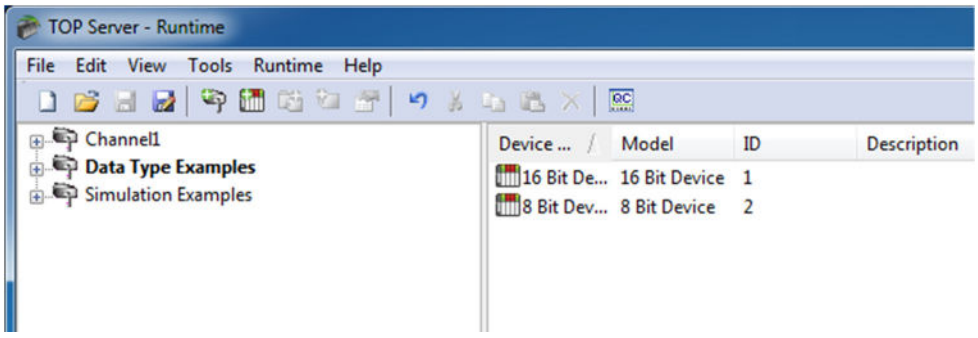
TopServer application note

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.

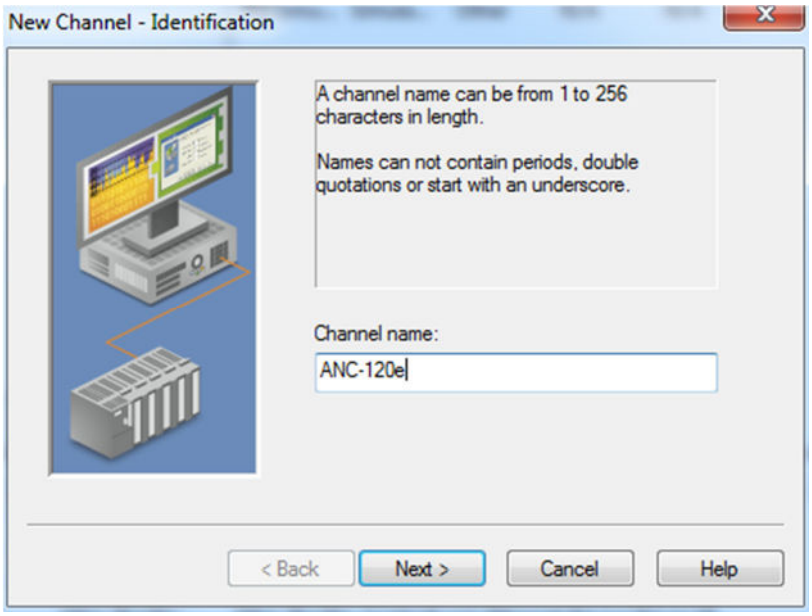
Note: Before proceeding, make sure

- ✓ 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.

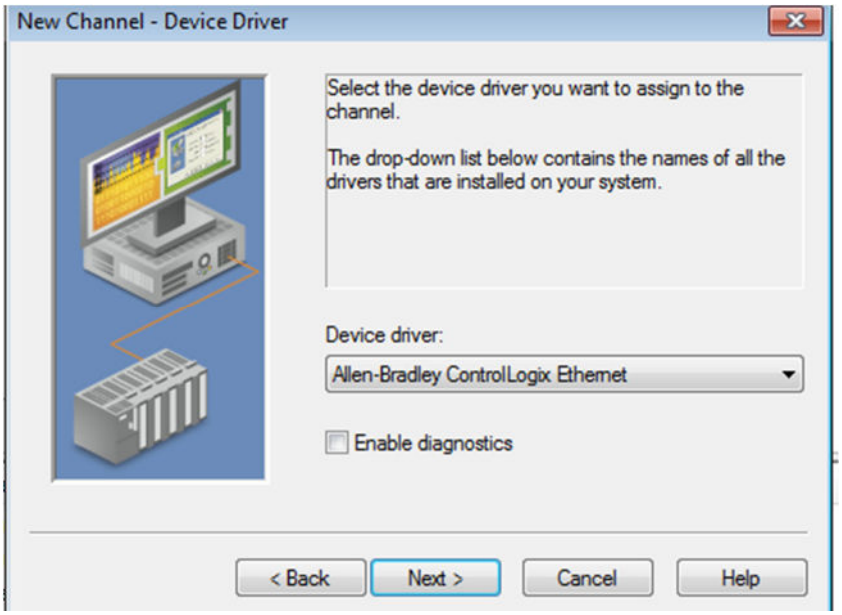
1. Open "*TopServer*"
2. Right Click on the empty space on the left side of the window to create a new channel



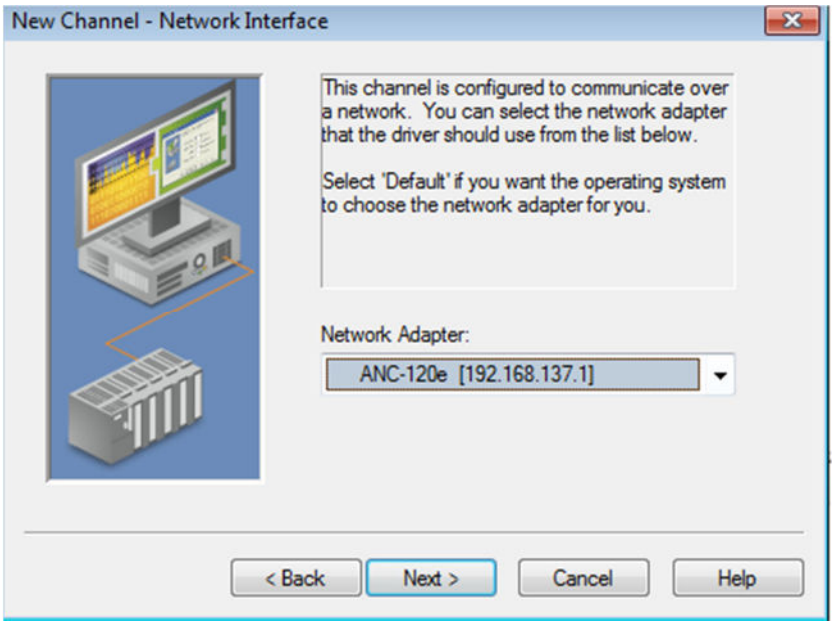
3. Name the new channel as you prefer (ANC-120e in this example) and click "*Next*"



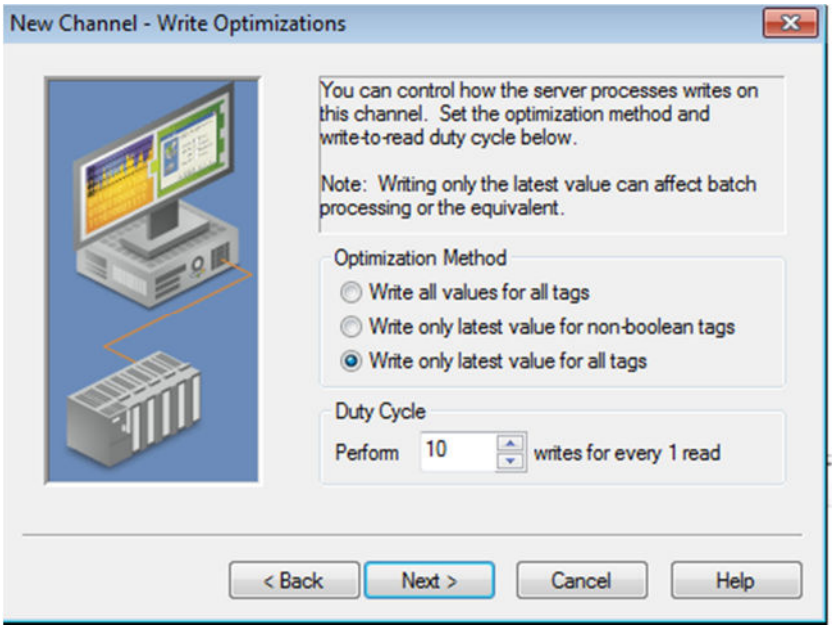
4. From the "*Device driver*" dropdown list select "Allen-Bradley ControlLogix Ethernet" and click "*Next*"



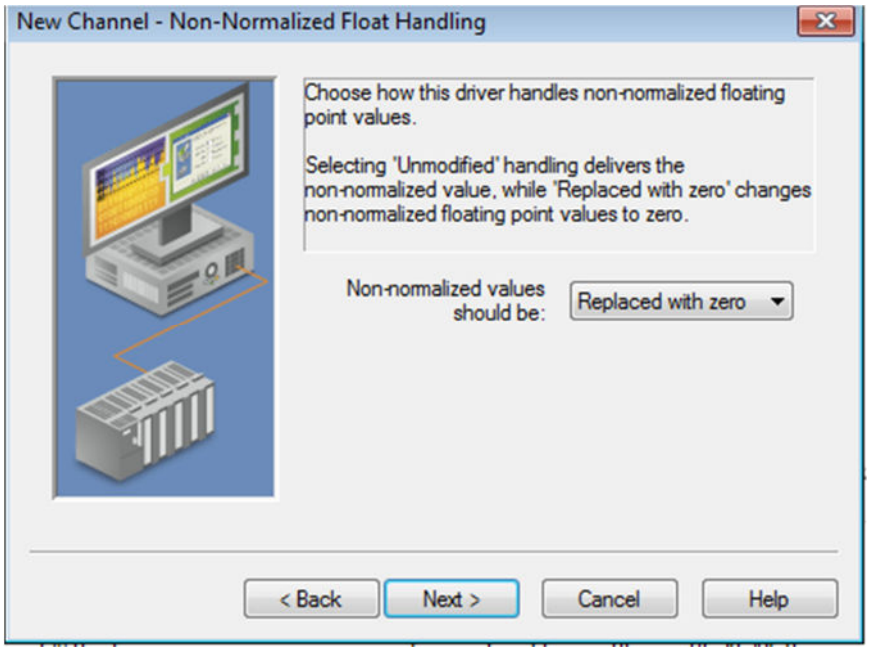
5. From the "*Network Adapter:*" dropdown list select the ANC-120e or the Network adapter connected to the same Ethernet network than ANC-100e and click "*Next*"



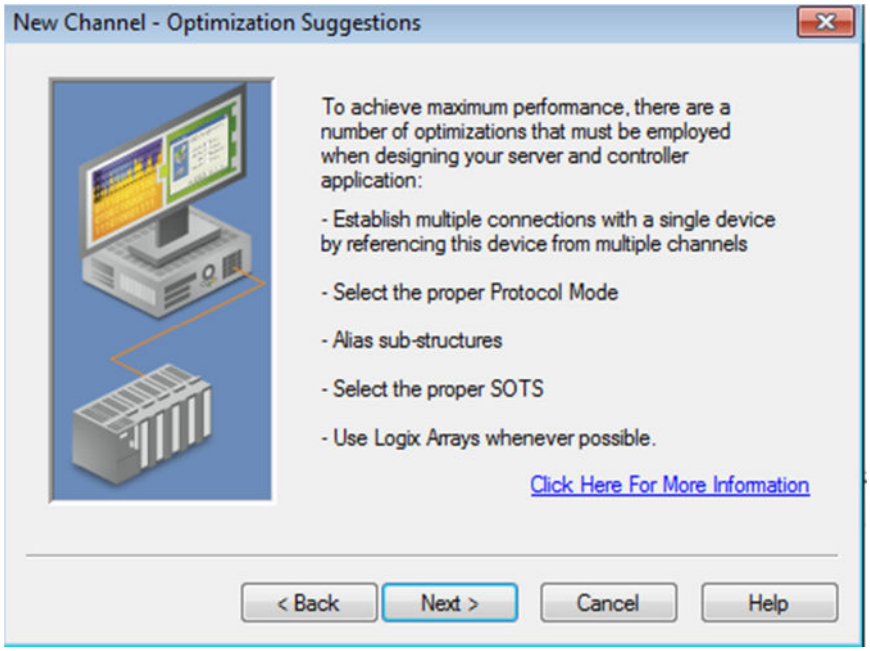
6. Use the default settings for "*Write Optimizations*" options and click "*Next*"



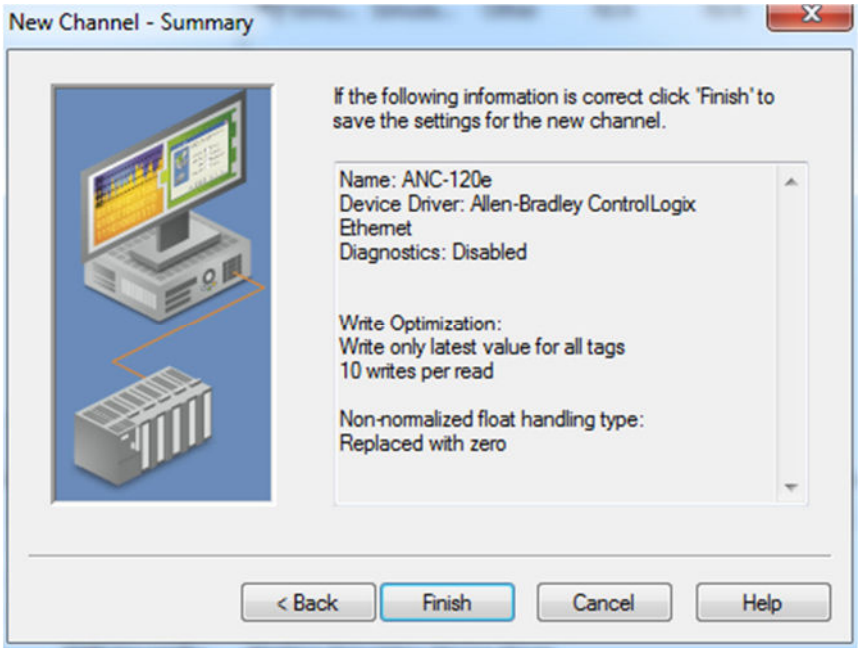
7. Use the default settings for "*Non- Normalized Float Handling*" and click "*Next*"



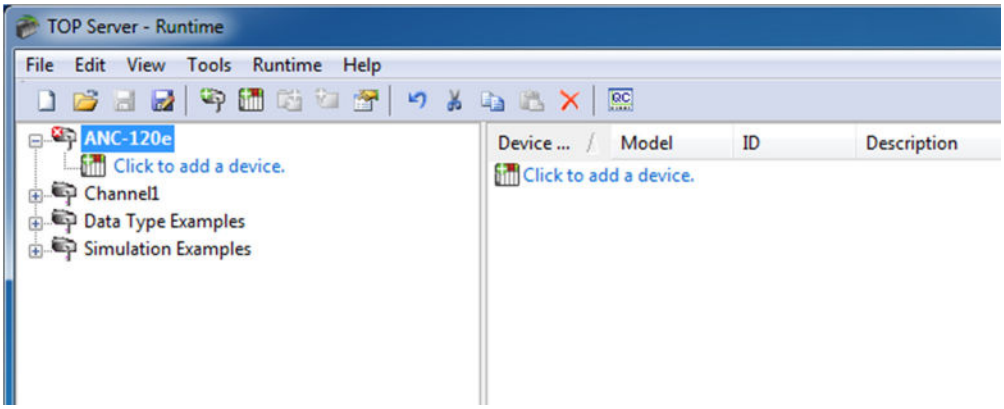
8. Click "*Next"*



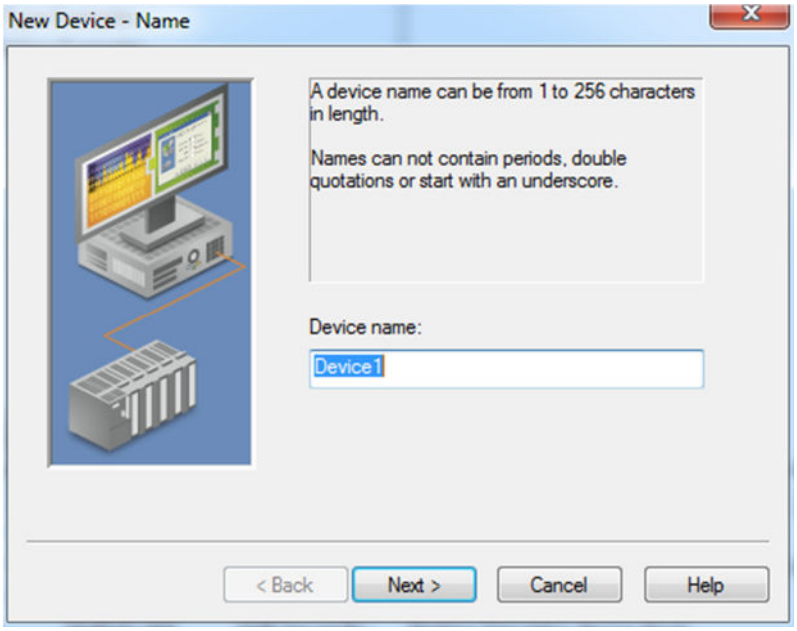
9. Review the "*Summary*" and click "*Finish*"



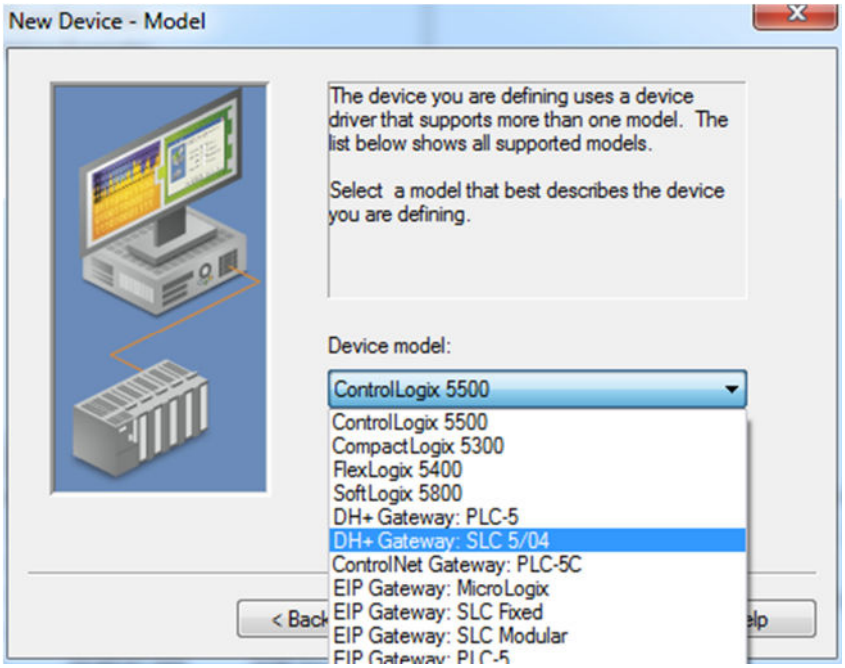
10. Click on the new ANC-120e Channel to select it and then click on "*Click to add a device*"



11. Under "*Device Name*", enter a name meaningful for you and click "*Next*"

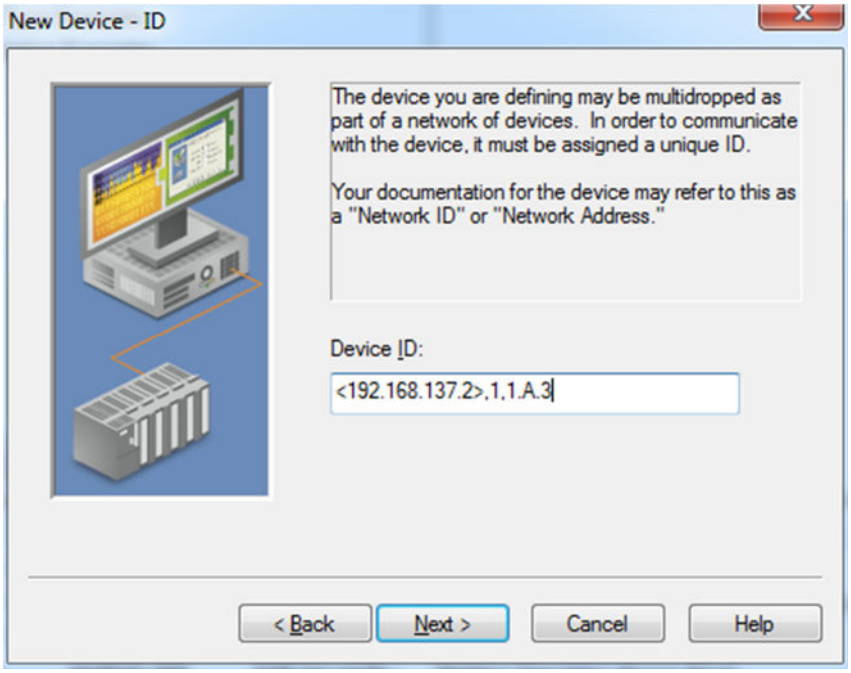


12. From the "*Device Model:"* dropdown list, select "*DH+ Gateway: SLC 5/04*" and click "*Next*"

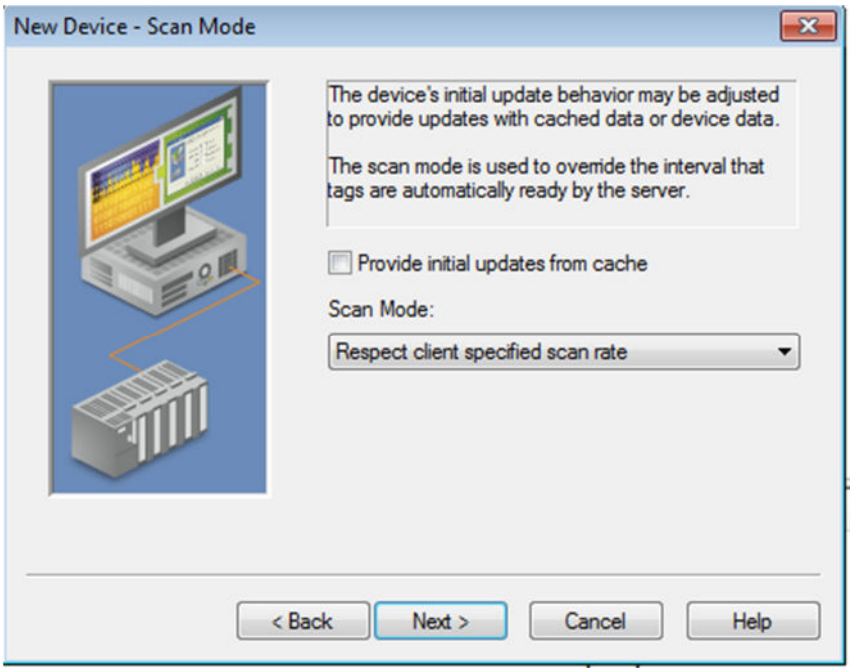


13. Under "*Device ID*", enter the following path:
    <IP of ANC adapter>, 1, 1. A. Target_DH+_Node_number

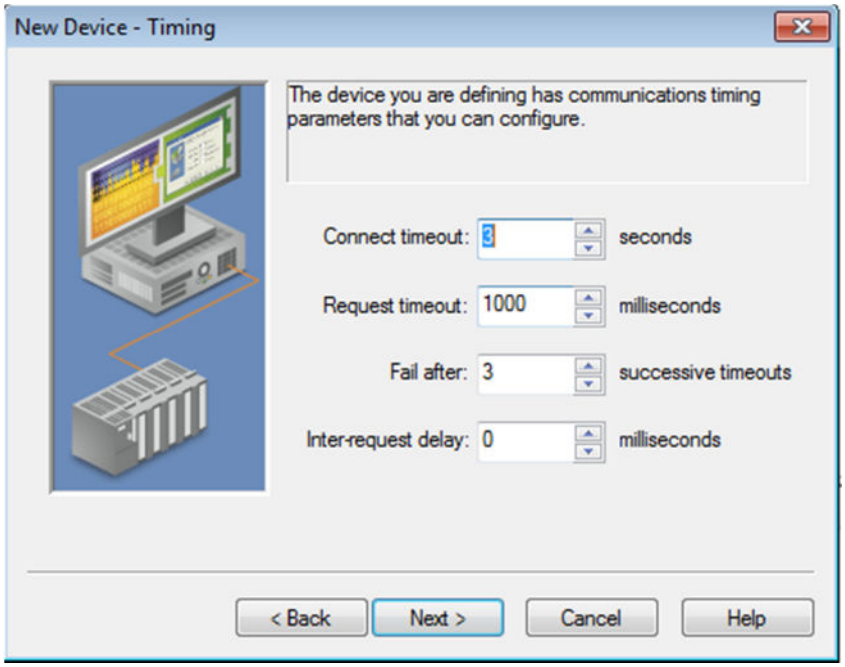
    Please notice that there are "**,**" and "**.**" in the path
    When you are finished with the path, click "*Next*"



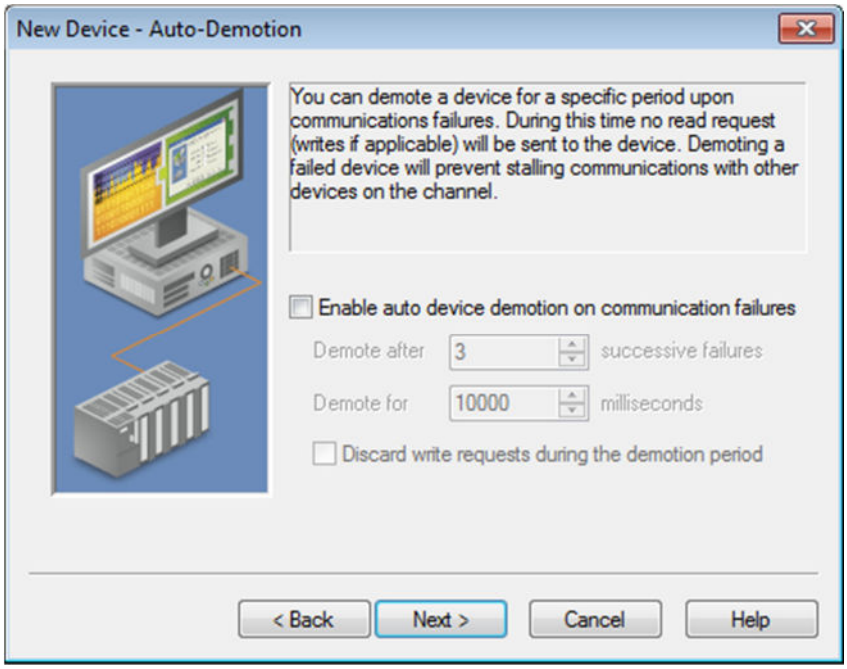
14. Use default values for "*Scan Mode*" and click "*Next*"



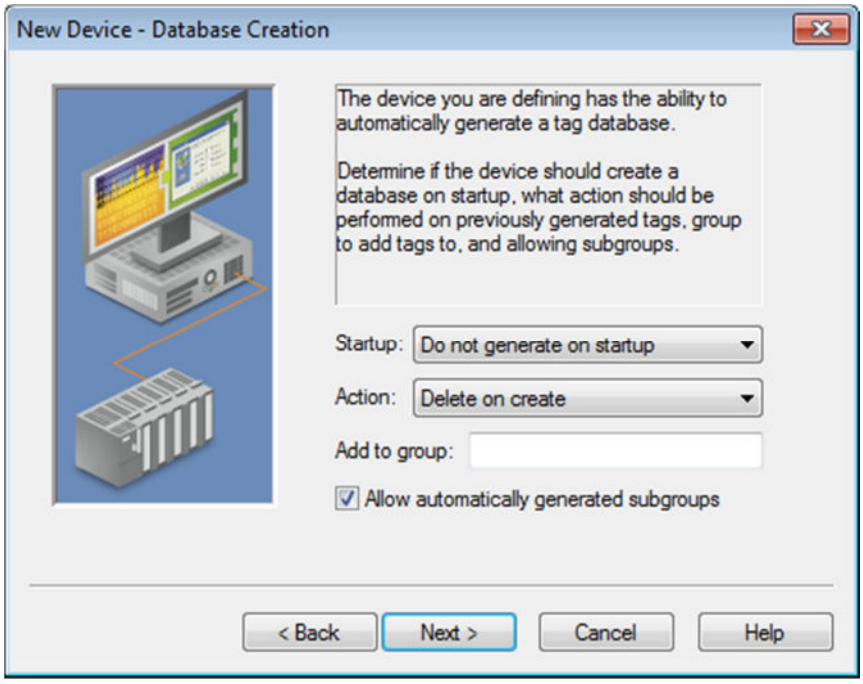
15. Use defaults values for "*Timing*" and click "*Next*"



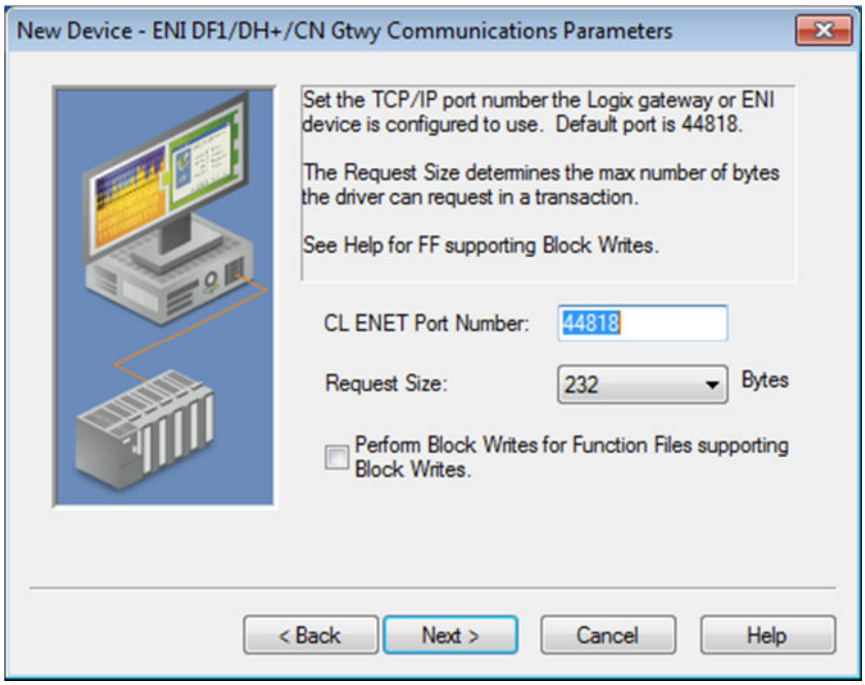
16. Use defaults values for "*Auto-Demotion*" and click "*Next*"



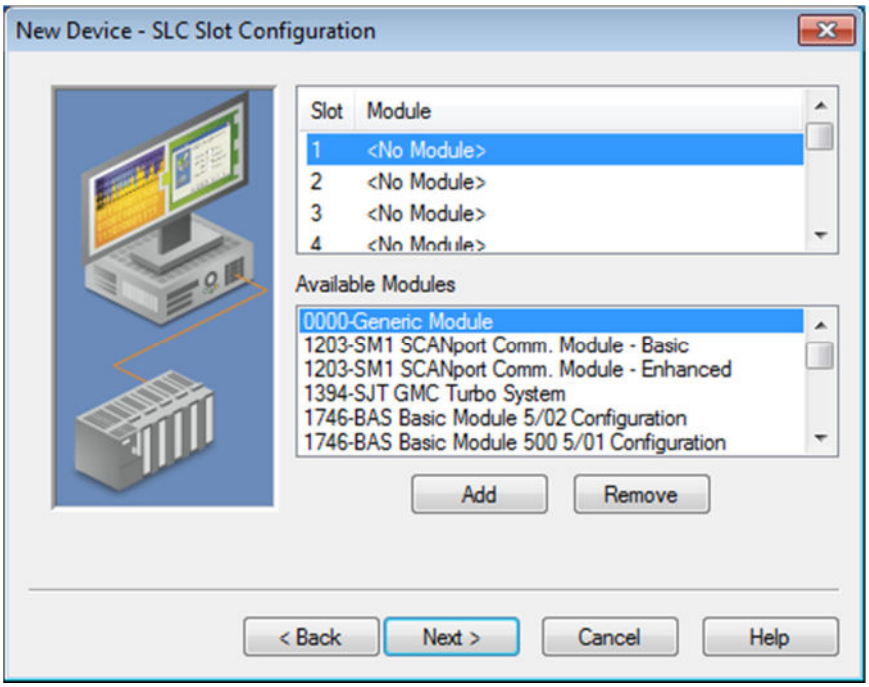
17. Use default values for "*Database Creation*" and click "*Next*"



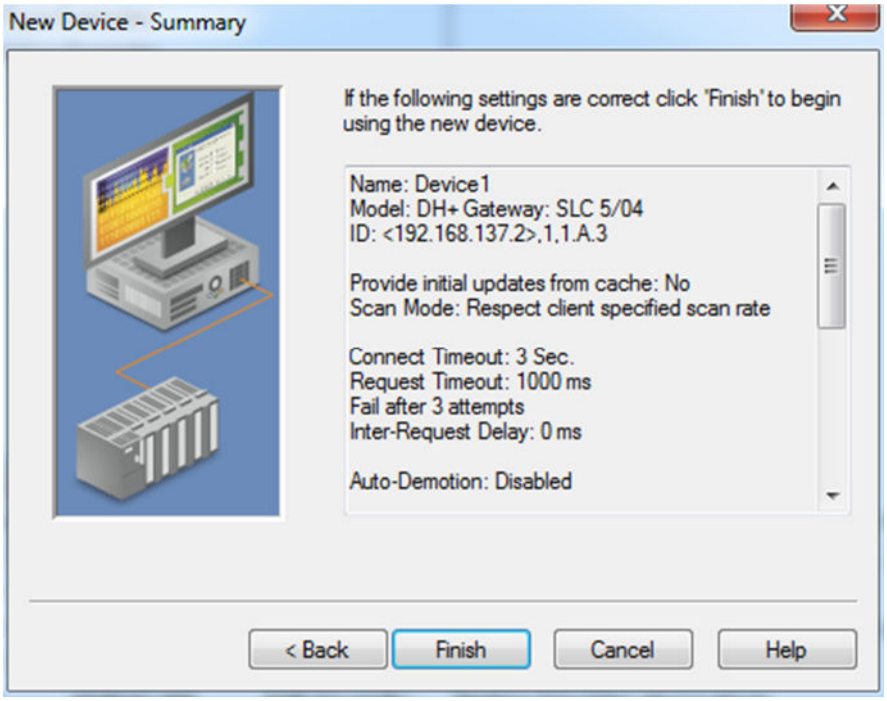
18. Use default values for "*ENI DF1/DH+/CN Gtwy Communications Parameters*" and click "*Next*"



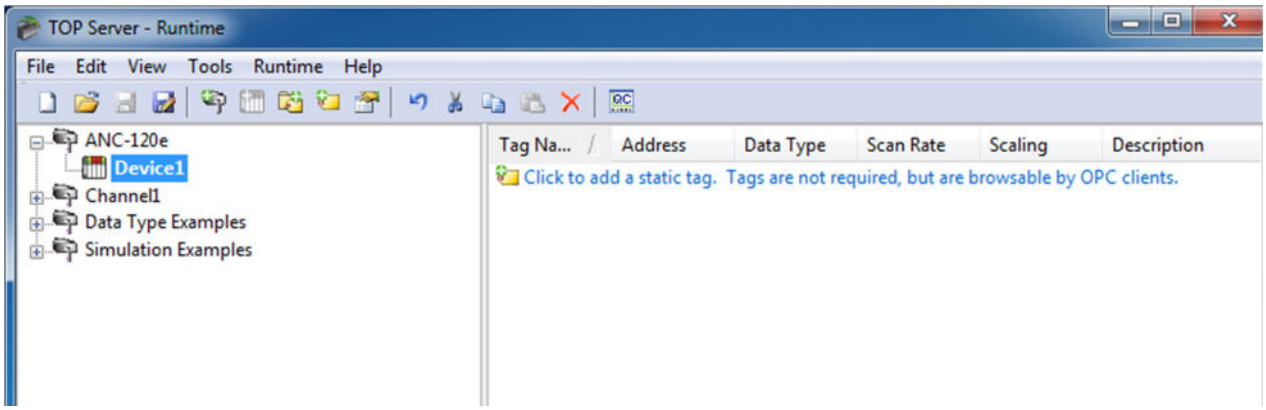
19. Use default values for "*SLC Slot Configuration*" and click "*Next*"



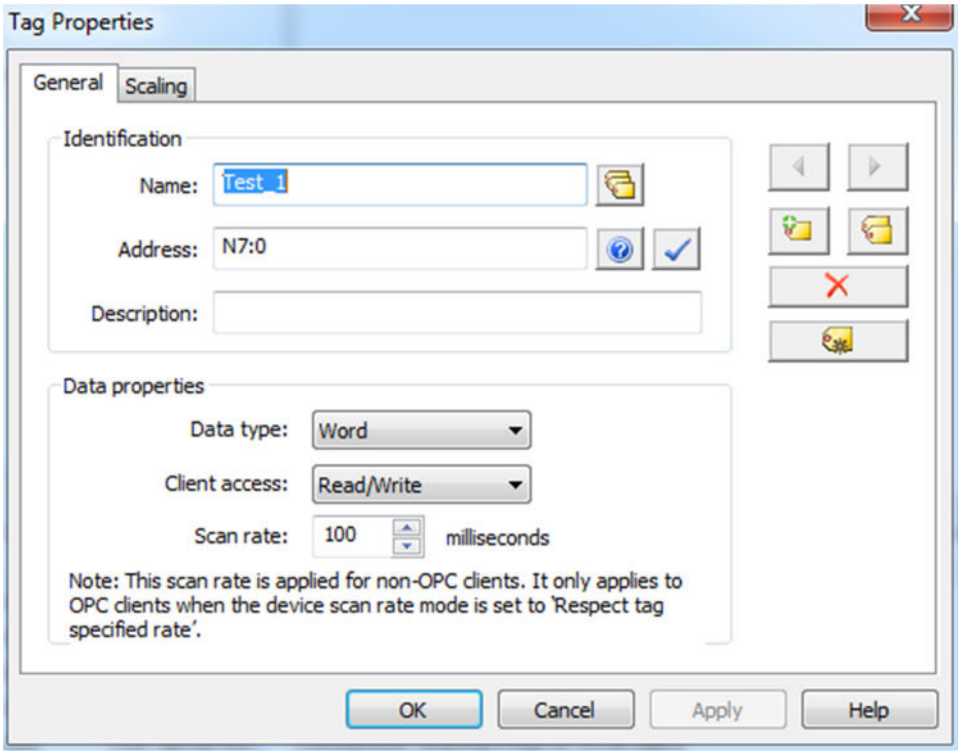
20. Read the "*Summary*" and click "*Finish*"



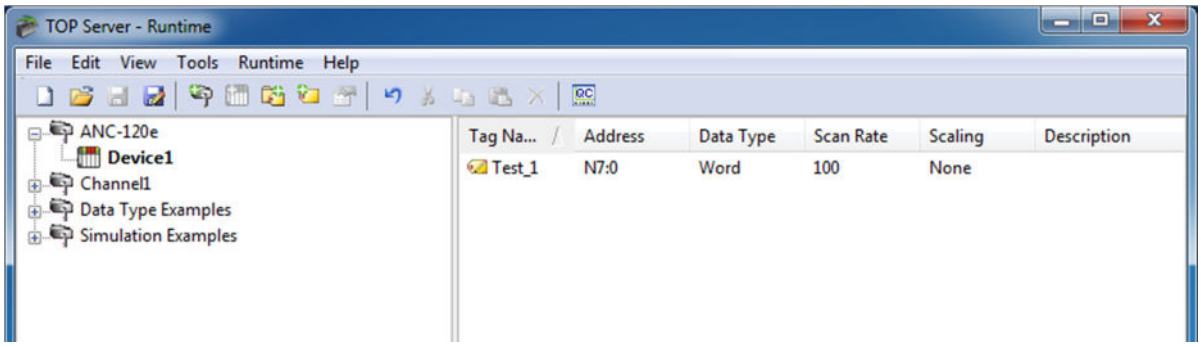
21. Click on the recently created device under our channel to select it and then click on "*Click to add a static tag*"



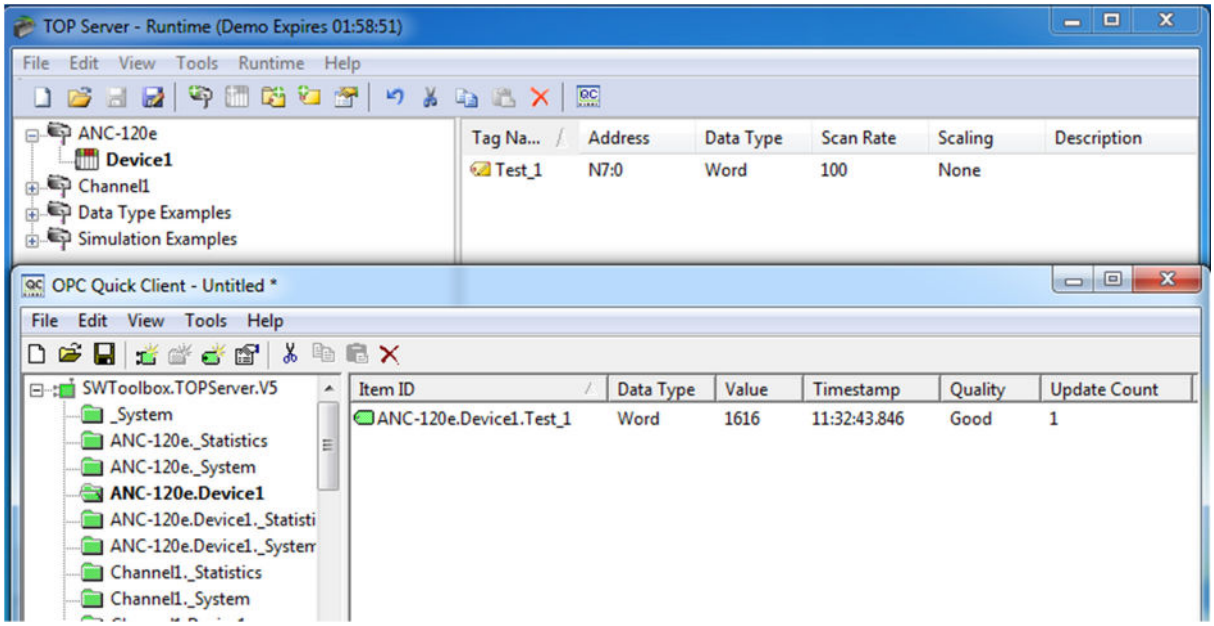
22. Enter a meaningful name for the tag in the "*Name:*" field
23. Enter a known address of your PLC in the "*Address:*" field (N7:0 for our example)
24. Select the corresponding "*Data type:*" from the dropdown list and click "*OK*"



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.