Application Note

Using AN-X-DHP with the KEPware KEPServerEx
OPC Server to Connect to a PLC-5

This application note is provided for historical purposes only.

It was written for a much older version of the server and AN-X firmware and we cannot guarantee that it applies to the current versions.
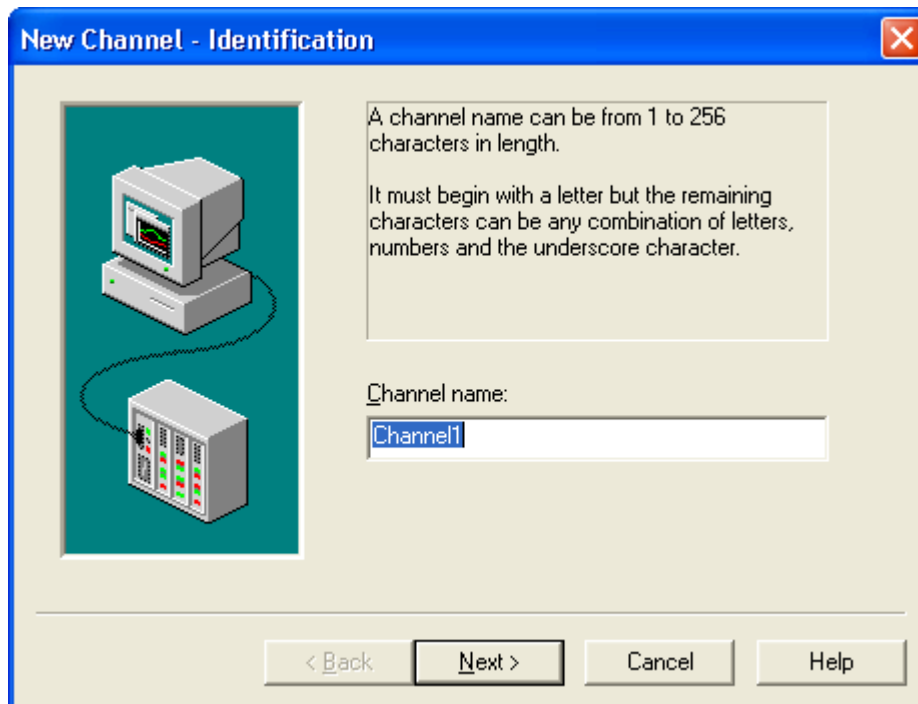

This application note describes how to configure the KEPware KEPServerEx OPC server to access data on a PLC-5 using the AN-X-DHP Data Highway Plus module.

The following instructions are intended to get the server communicating with AN-X. Refer to the OPC server documentation for detailed information about additional features of the server and about how best to use the specific server.
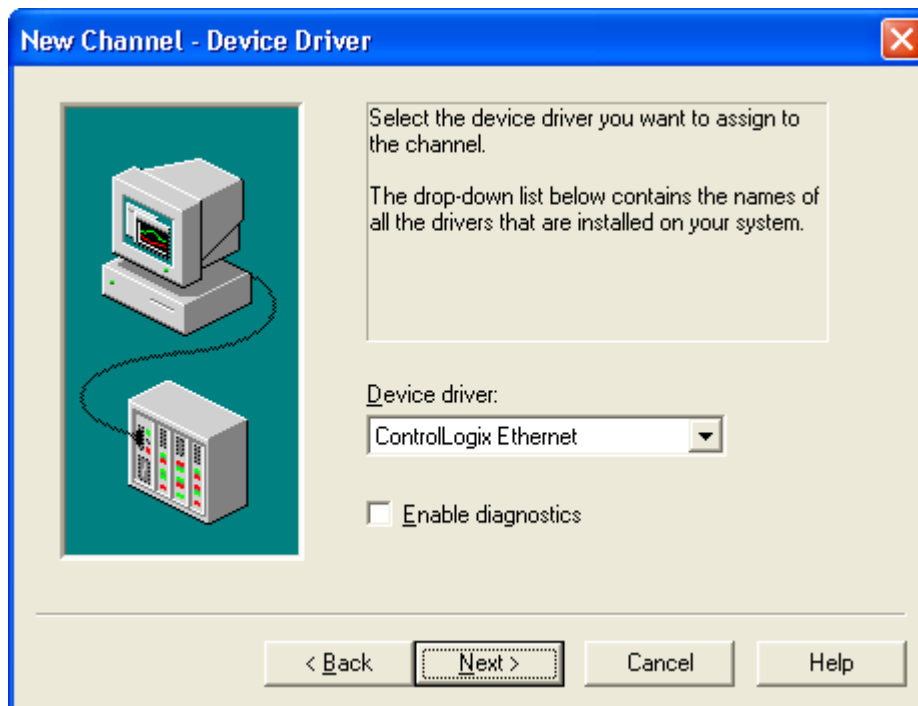
Before you begin, use the AN-X-DHP web interface to set the Data Highway Plus station address and baud rate and confirm that the module is online.

Start the KEPware KEPServerEx OPC server and create a new file. Use the following steps to configure it to access data on a PLC-5 using the AN-X-DHP.
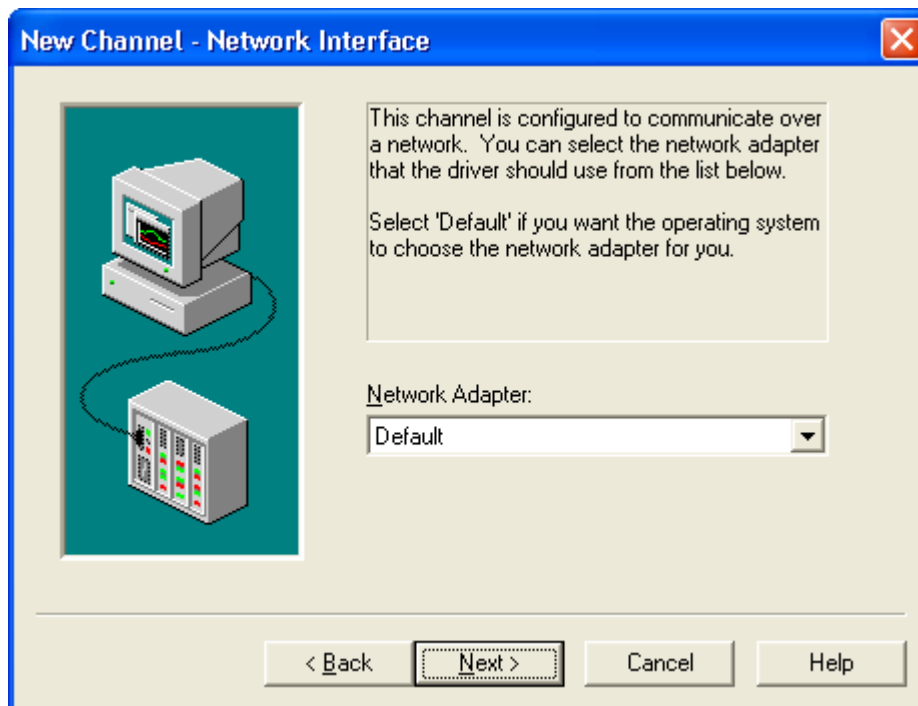
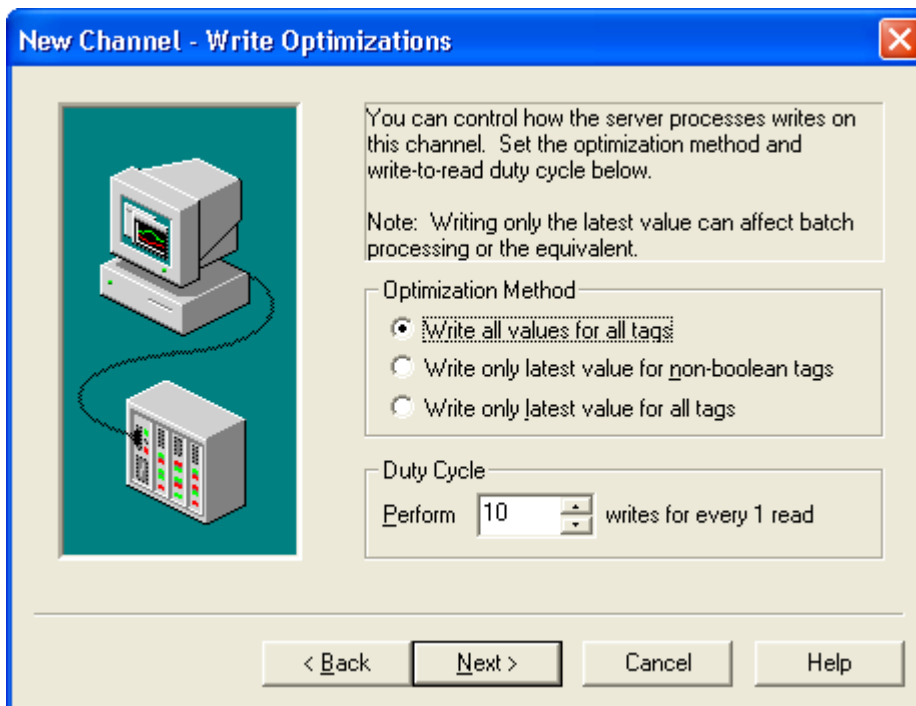1. Click to add a channel or select *Edit/New Channel...*

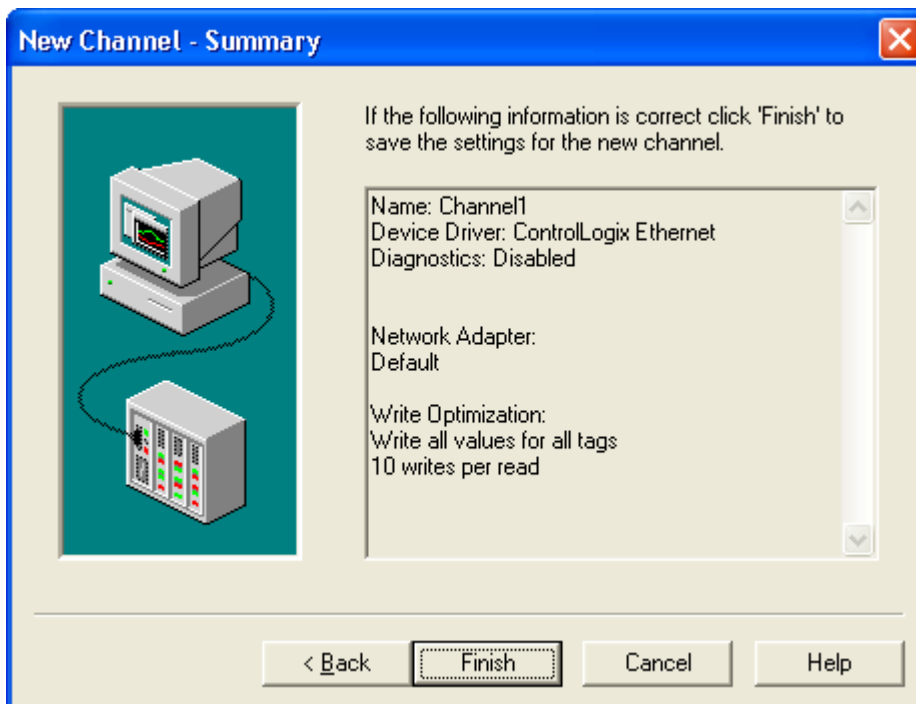2. Give the channel a *Channel name* and click *Next*.

New Channel - Device Driver

Select the device driver you want to assign to the channel.

The drop-down list below contains the names of all the drivers that are installed on your system.

Device driver:

ControlLogix Ethernet

☐ Enable diagnostics

< Back   Next >   Cancel   Help

3. For the *Device Driver*, select the *ControlLogix Ethernet* driver and click *Next*

New Channel - Network Interface

This channel is configured to communicate over a network. You can select the network adapter that the driver should use from the list below.

Select 'Default' if you want the operating system to choose the network adapter for you.

Network Adapter:

Default

< Back   Next >   Cancel   Help

4. Select the *Network Adapter* that is connected to the AN-X-DHP. If there is only one network adapter in your computer, leave it set to *Default*. Click *Next*.
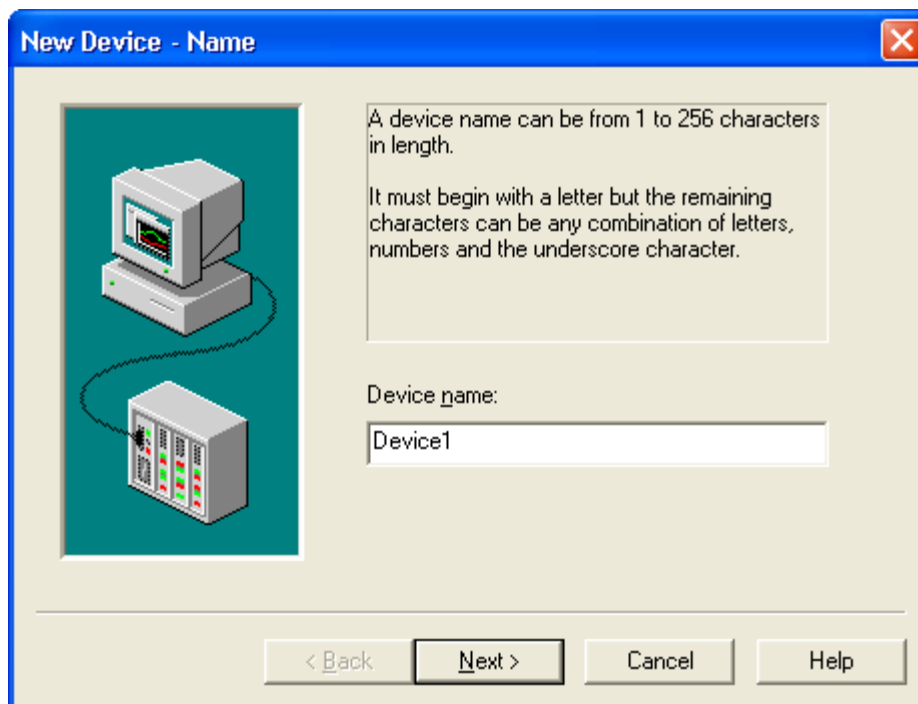
5. Leave the *Write Optimizations* set to their default values. Click *Next*.
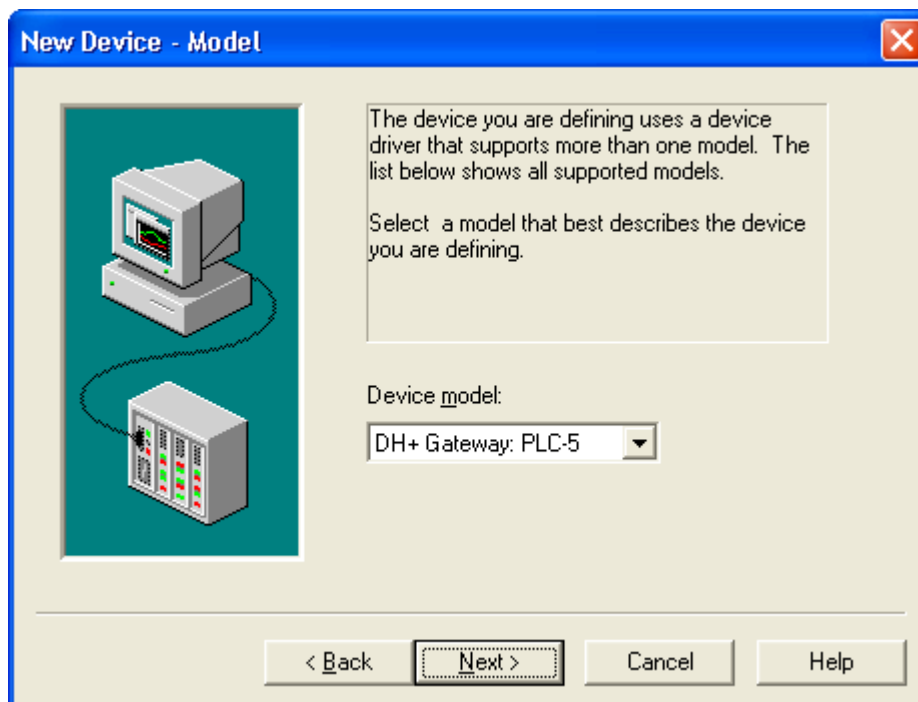

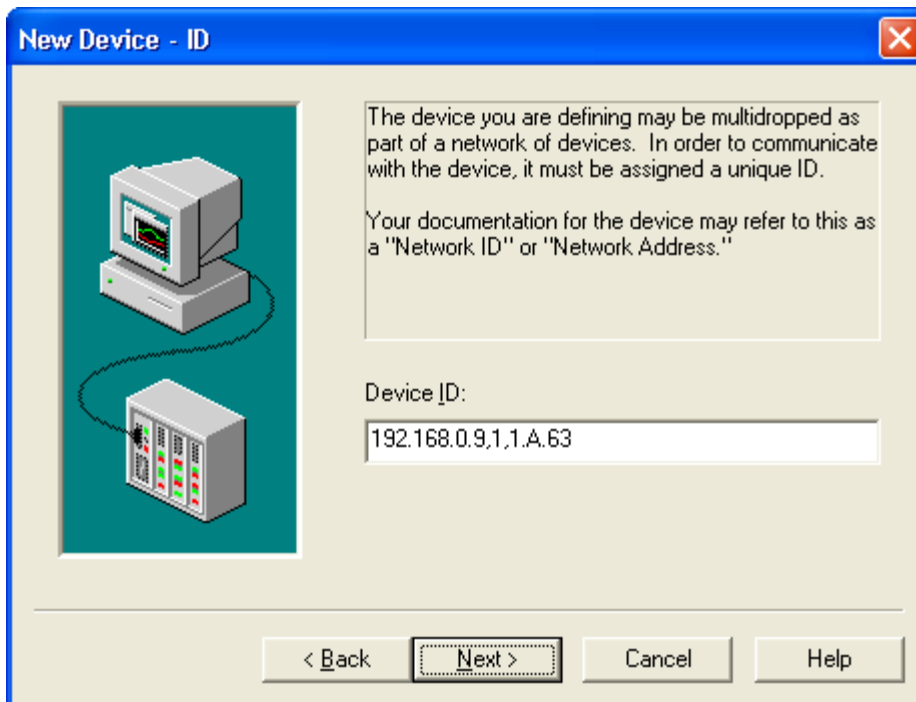6. The server displays a summary of the channel configuration. Click *Finish* to accept the settings.

7. Click to add a device or select *Edit/New Device…*

8. Give the device a *Device name*. Click *Next*.

9. For the *Device model*, select *DH+ Gateway: PLC-5*. Click *Next*.

10. *Enter the Device ID.* This is the path to the destination PLC-5. The first four
    numbers are the IP address of the AN-X-DHP. This is followed by a comma, a 1 (to
    indicate the backplane, another comma, then 1.A. and finally the PLC-5 station
    address in decimal. The AN-X-DHP emulates a 1756-ENET module communicating
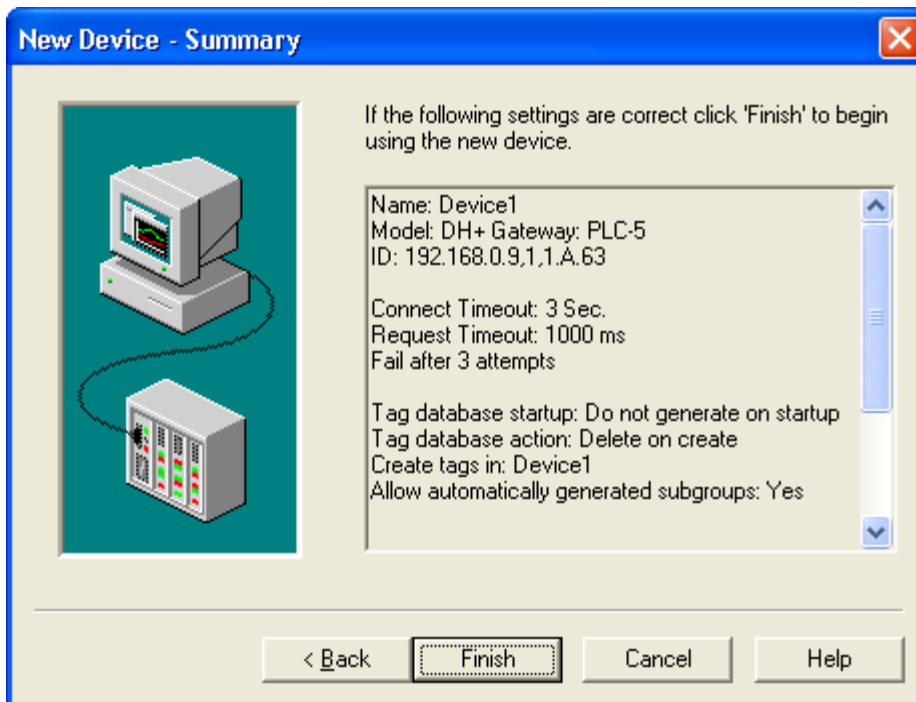   through a 1756-DHRIO module in slot 1. Click *Next.*
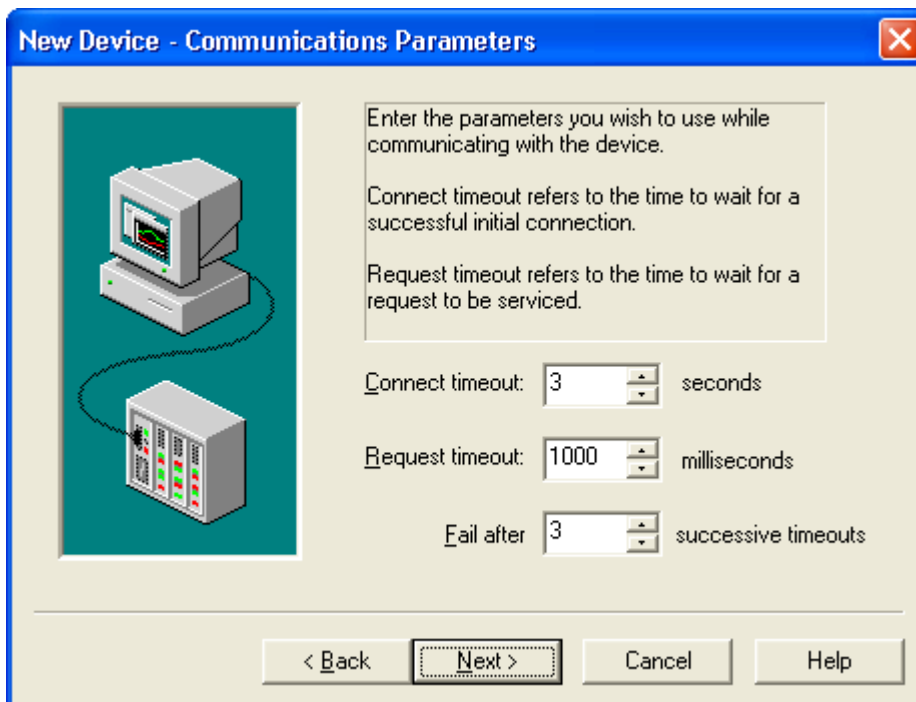
11. Leave the *Communication Parameters* at their default values. Click *Next.*
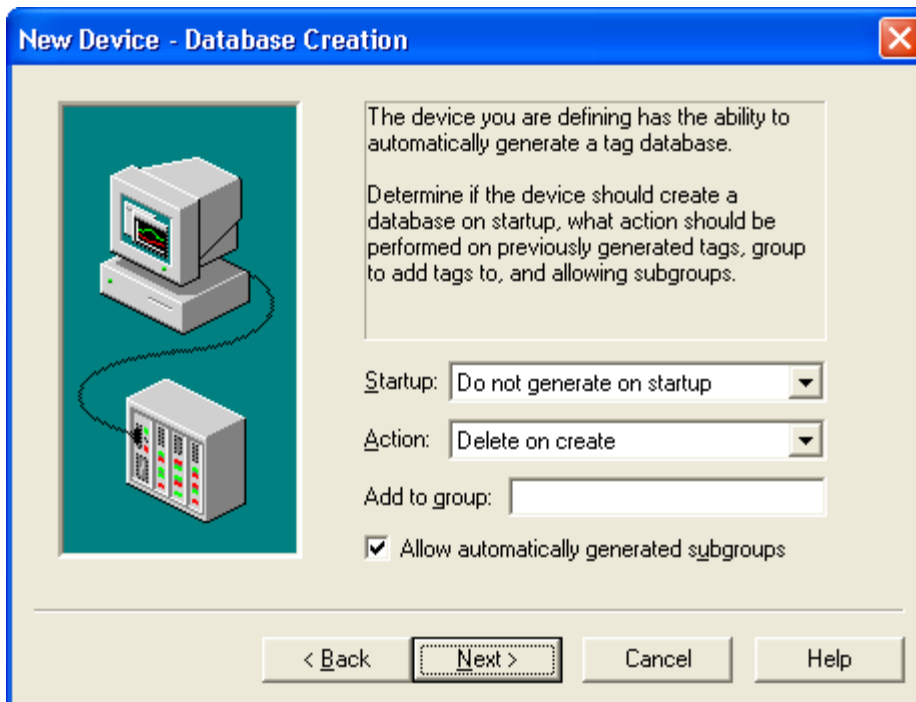
12. Leave the *Database Creation* settings at their default values. Click *Next*.
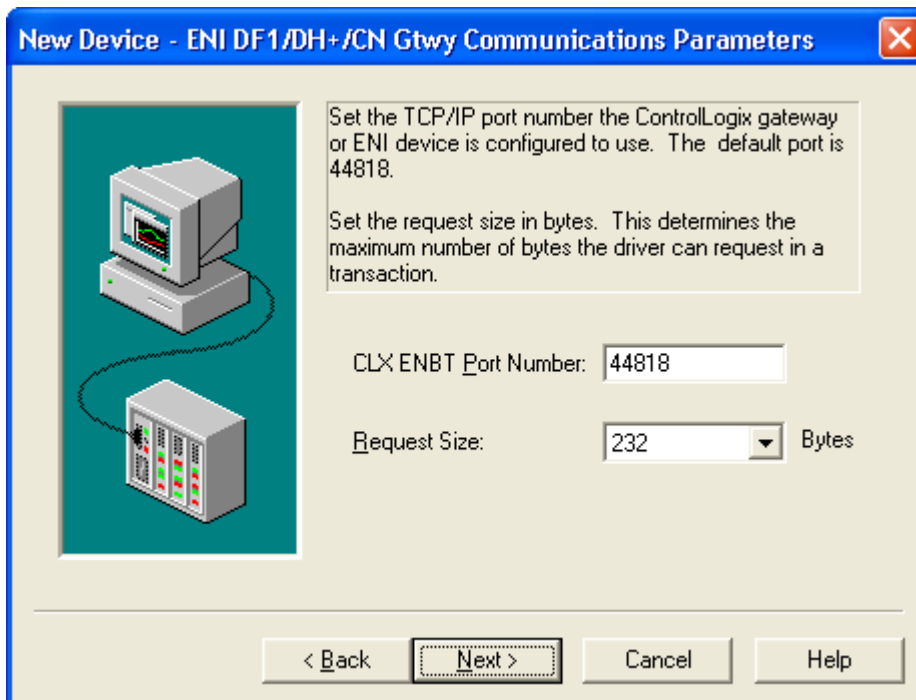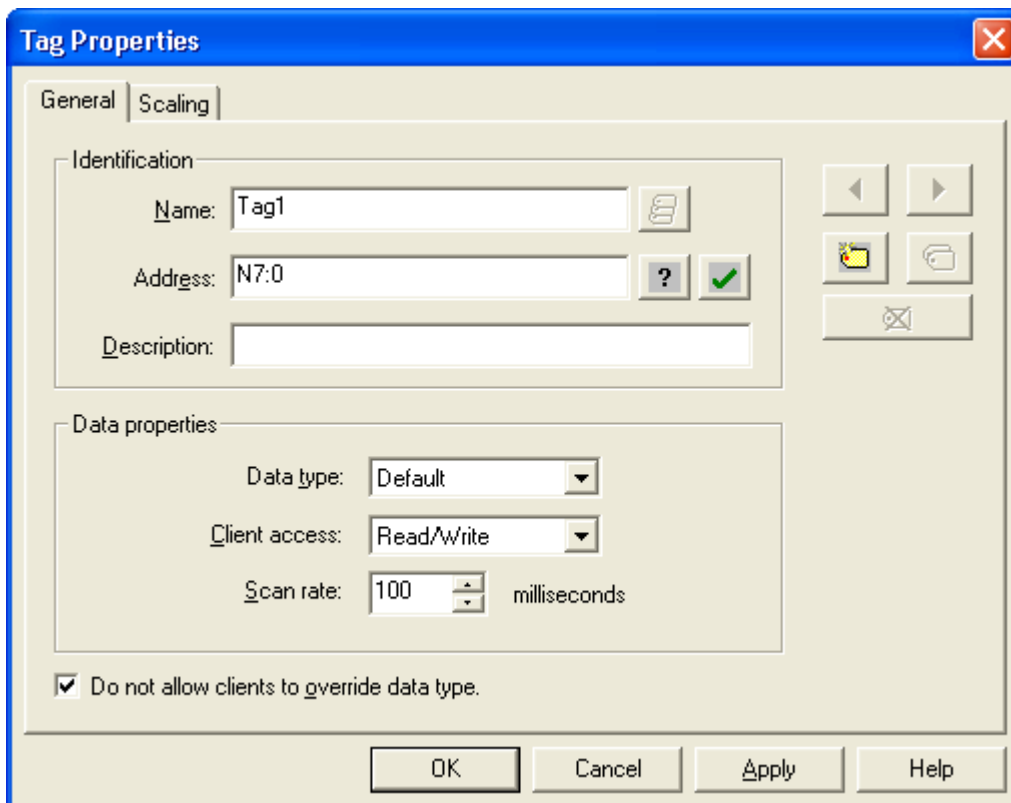

13. Leave the CLX ENBT Port Number and Request Size at their default values. Click *Next*.

14. The server displays a summary of the device settings. Click *Finish* to accept the settings and create the device.

15. Click to add a tag or select *Edit/New Tag…*

16. Give the tag a *Name* and optionally a *Description*.

17. Enter the *Address*.

18. Set the *Data Type* and *Client access*. Set the *Scan rate*.

19. Click *OK* to accept the tag.

You should now be able to access the tag from any client capable of communicating with the OPC server.

Select *Tools/Launch OPC Quick Client* to go online. The tag value should be displayed.
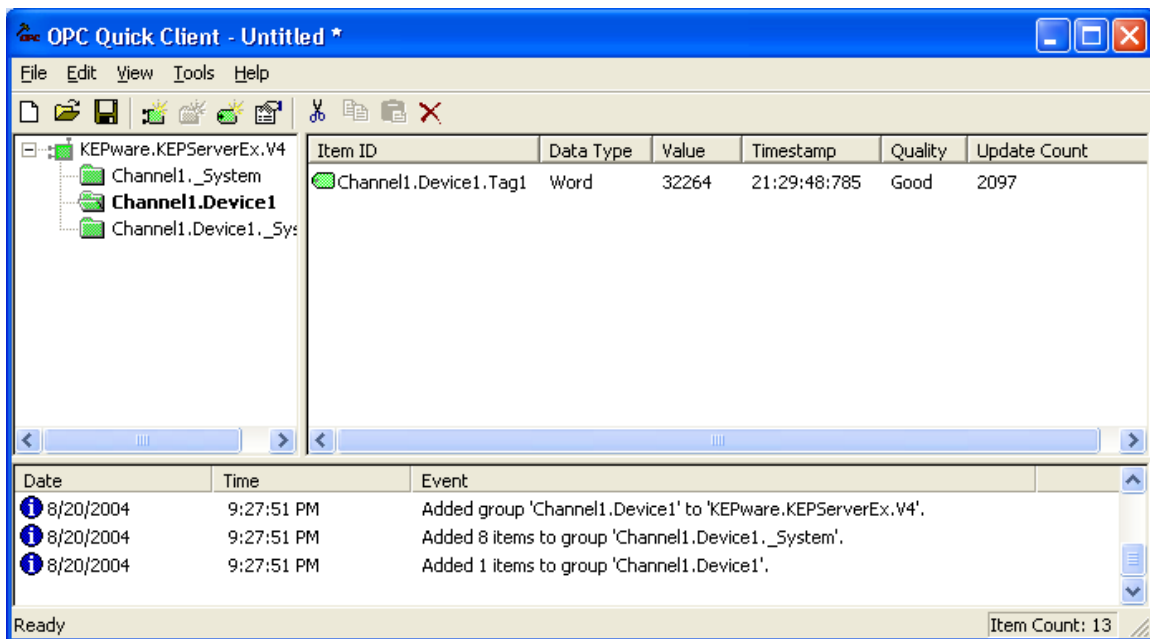
A product of Quest Technical Solutions

Sold and Supported by
ProSoft Technology Inc.
www.prosoft-technology.com