

# Application Note

## Using AN-X-PBSLV with the KEPware Modicon OPC Server



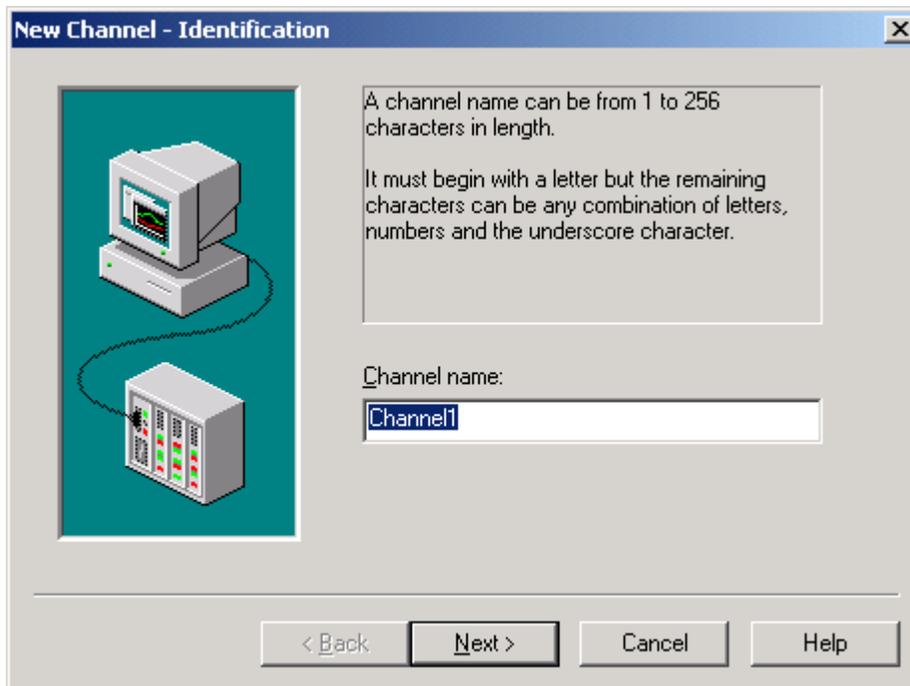
This application note describes how to configure the KEPware Modicon OPC server to access Profibus data on the AN-X-PBSLV module.

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-PBSLV web interface to obtain the mapping of Profibus slave data to Modicon addresses. Use your web browser to access the AN-X and select *Automation Network/View Active Configuration*.

Start the KEPware Modicon OPC server and create a new file. Use the following steps to configure it to access data on the AN-X-PBSLV.

1. Click to add a channel or select *Edit/New Channel...*



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

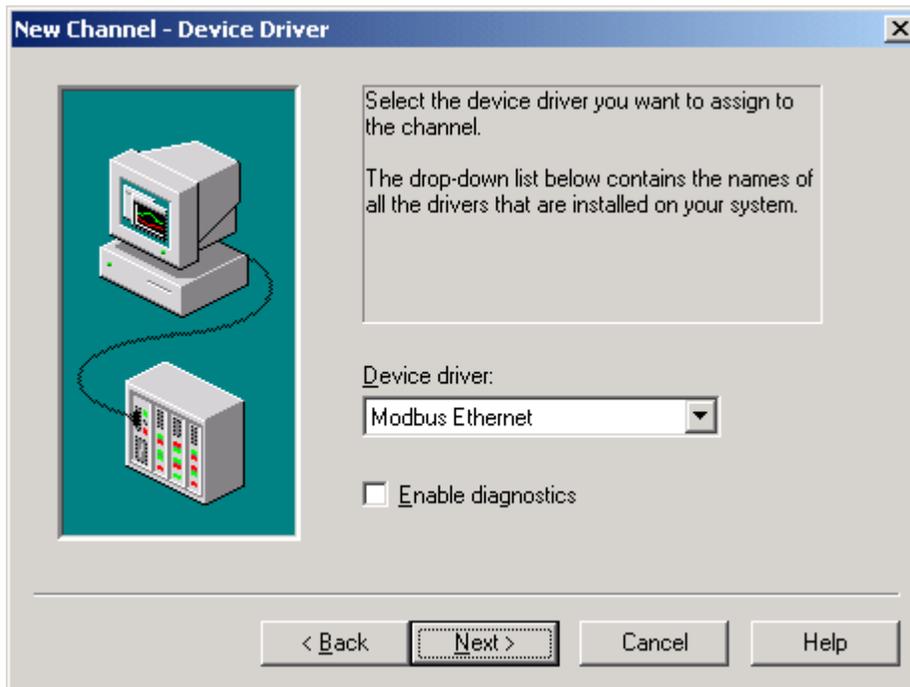
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4110 Mourning Dove Court  
Melbourne FL 32934  
321 757-8483  
www.qtsi.biz

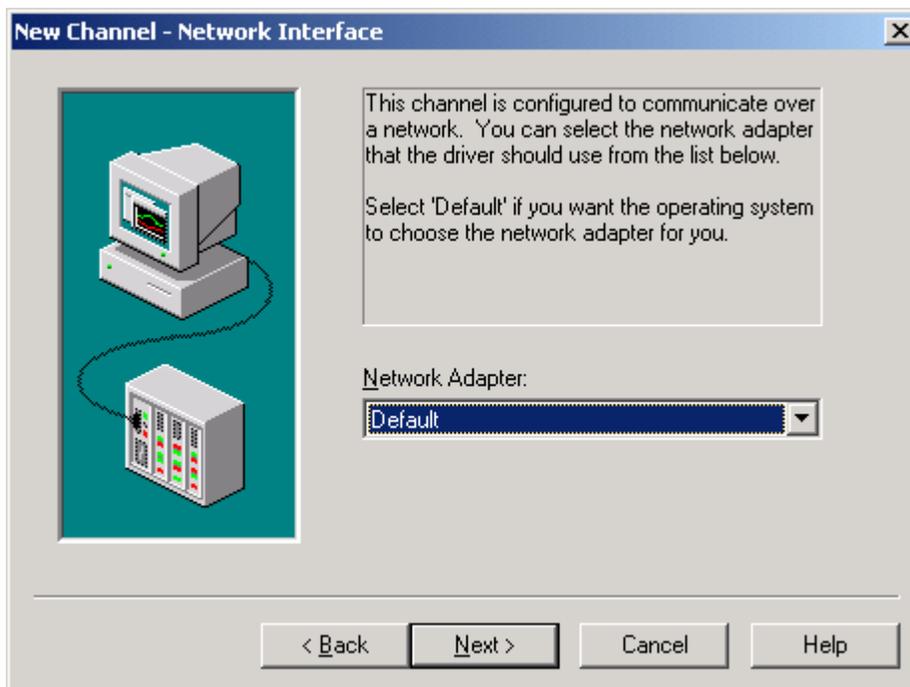


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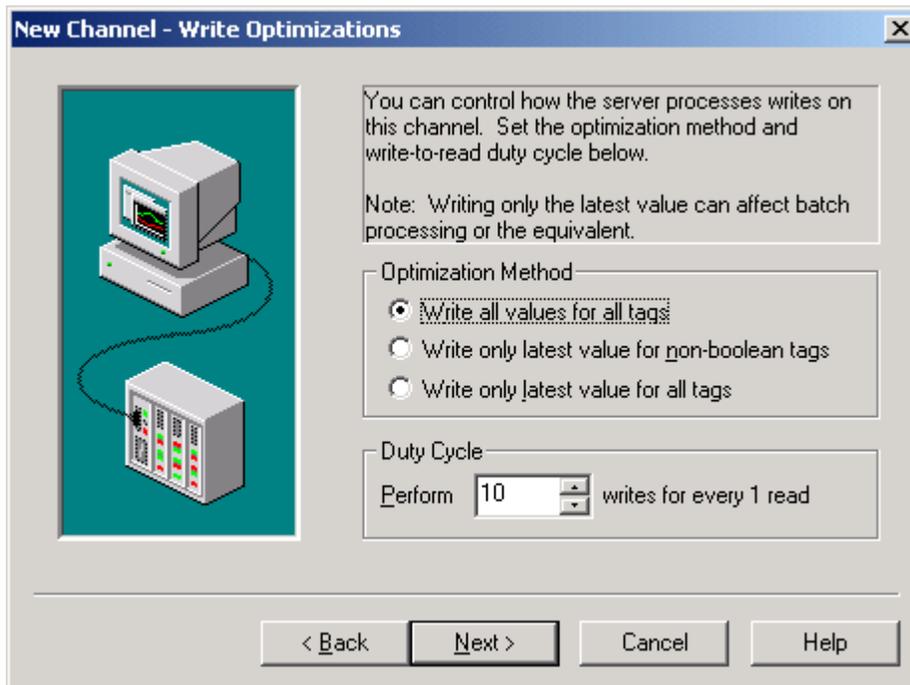
3. For the *Device Driver*, select the *Modbus Ethernet* driver and click *Next*



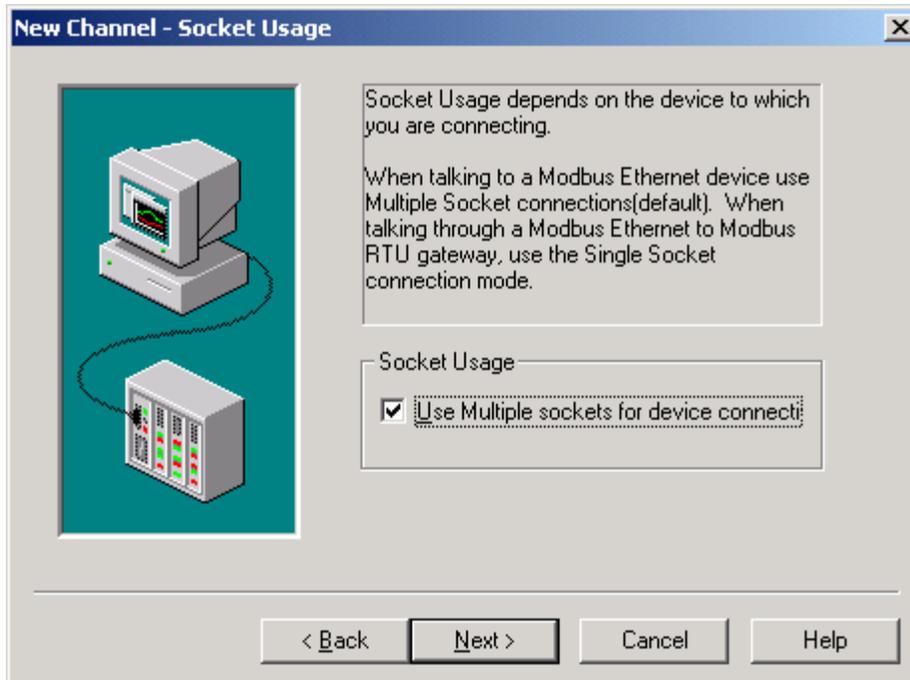
4. Select the *Network Adapter* that is connected to the AN-X-PBSLV. If there is only one network adapter in your computer, leave it set to *Default*. Click *Next*.

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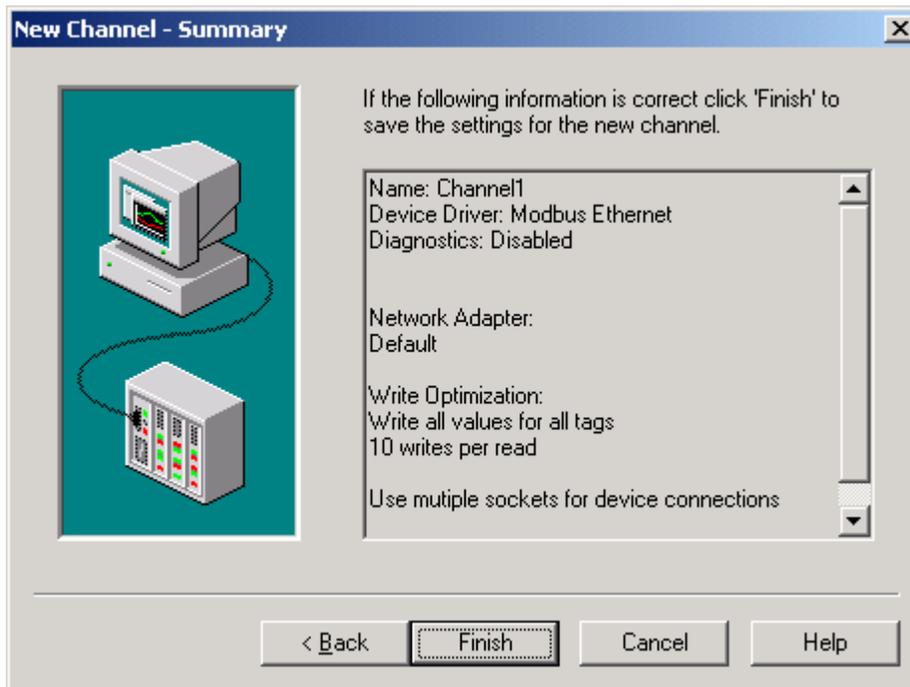
5. Leave the *Write Optimizations* set to their default values. Click *Next*.



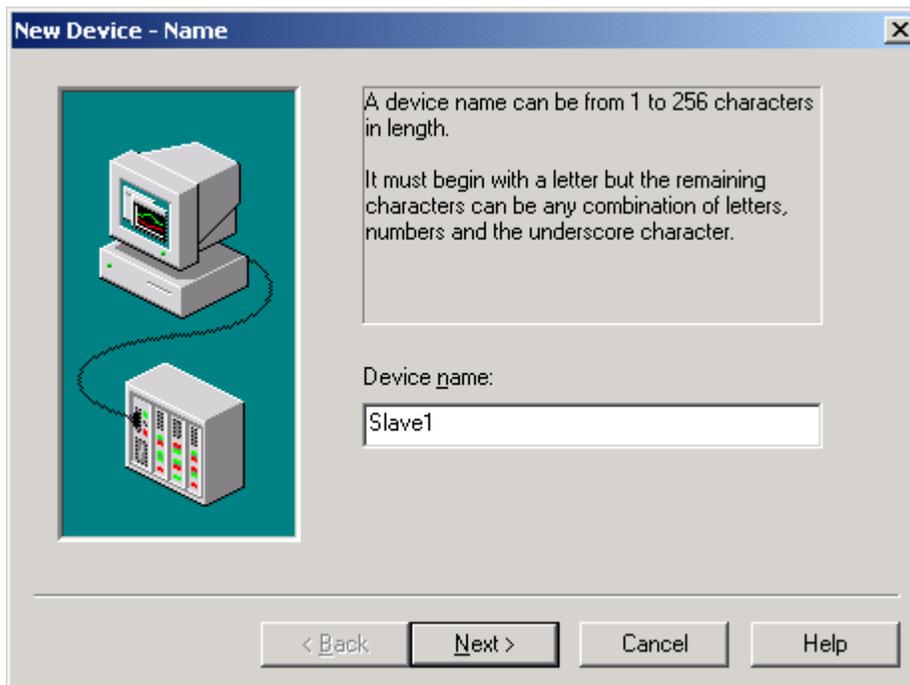
6. Leave the *Socket Usage* at its default value. Click *Next*.

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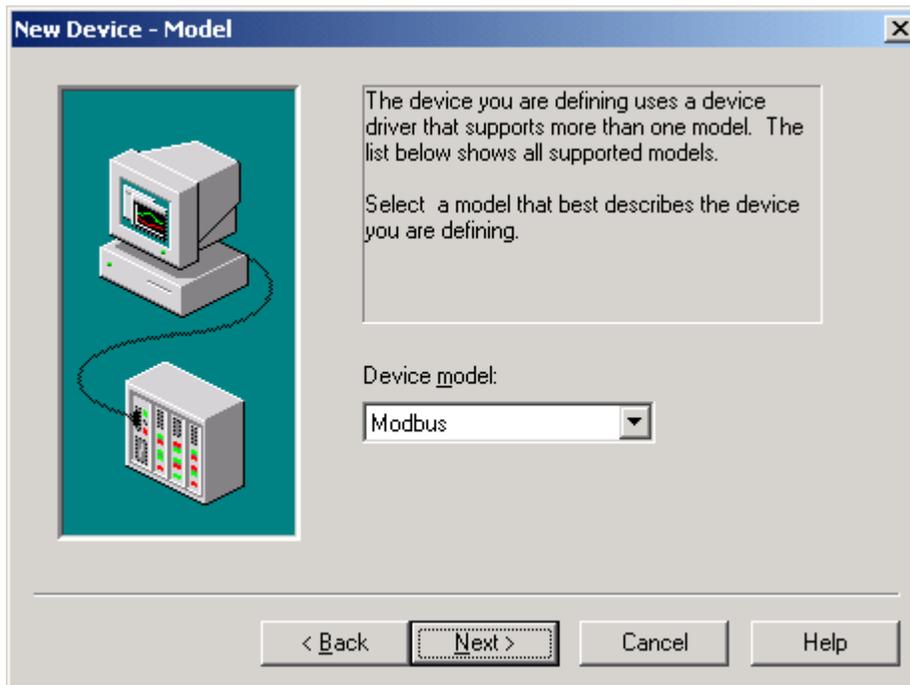


7. The server displays a summary of the channel configuration. Click *Finish* to accept the settings.
8. Click to add a device or select *Edit/New Device...*

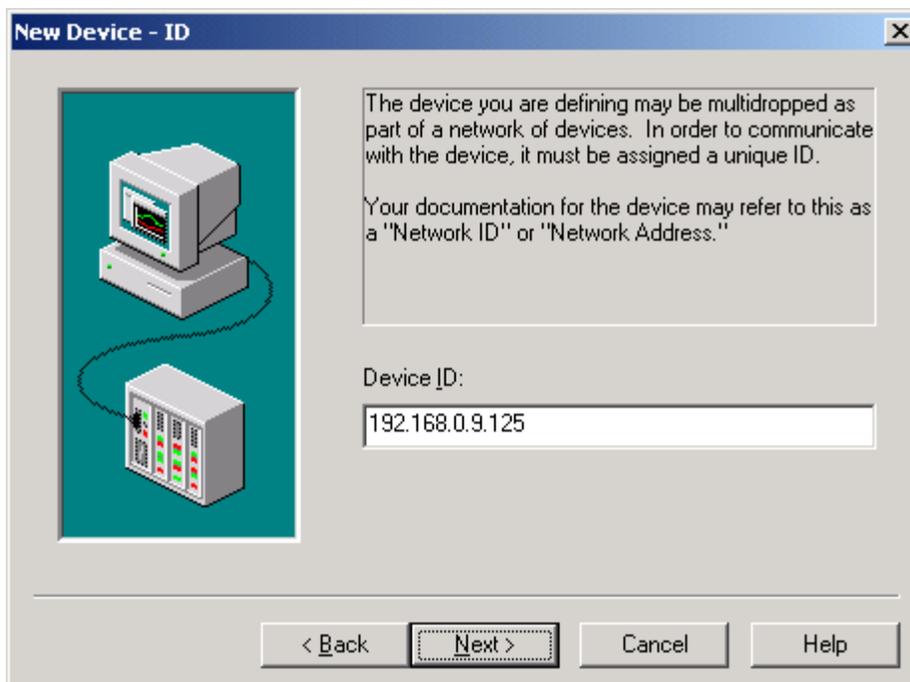


9. Give the device a *Device name*. Click *Next*.

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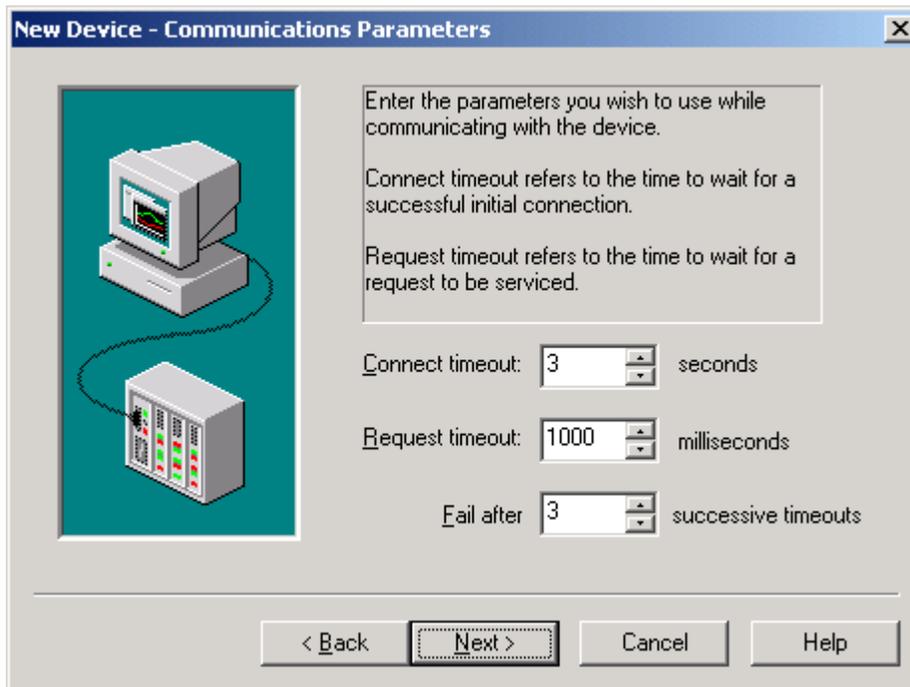
10. For the *Device model*, select *Modbus*. Click *Next*.



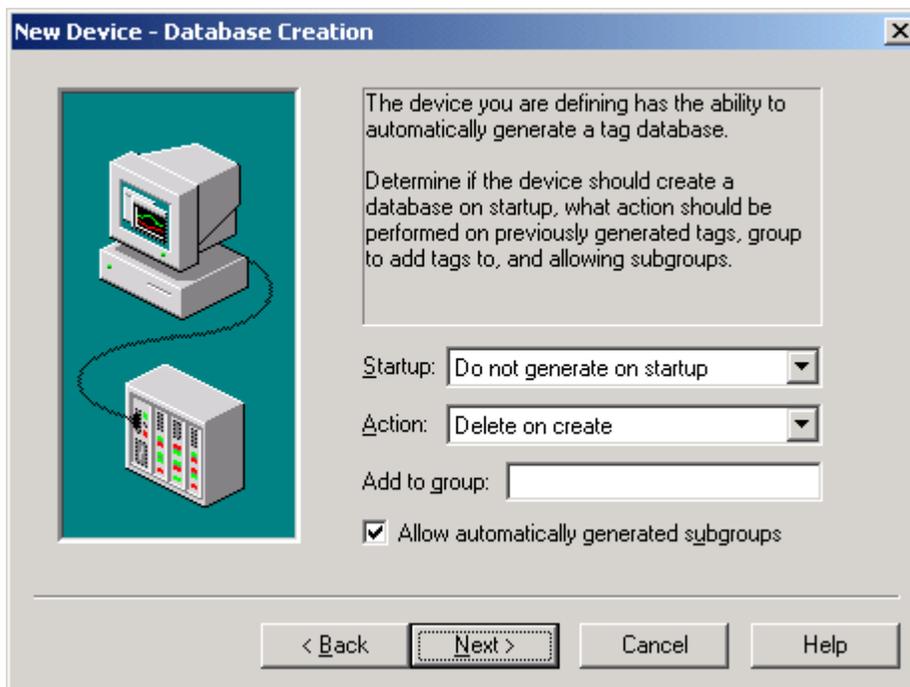
11. Enter the *Device ID*. This is a set of five decimal numbers separated by periods. The first four numbers are the IP address of the AN-X-PBSLV. The fifth number is the Profibus node number for the slave whose data you wish to read and write. Click *Next*.

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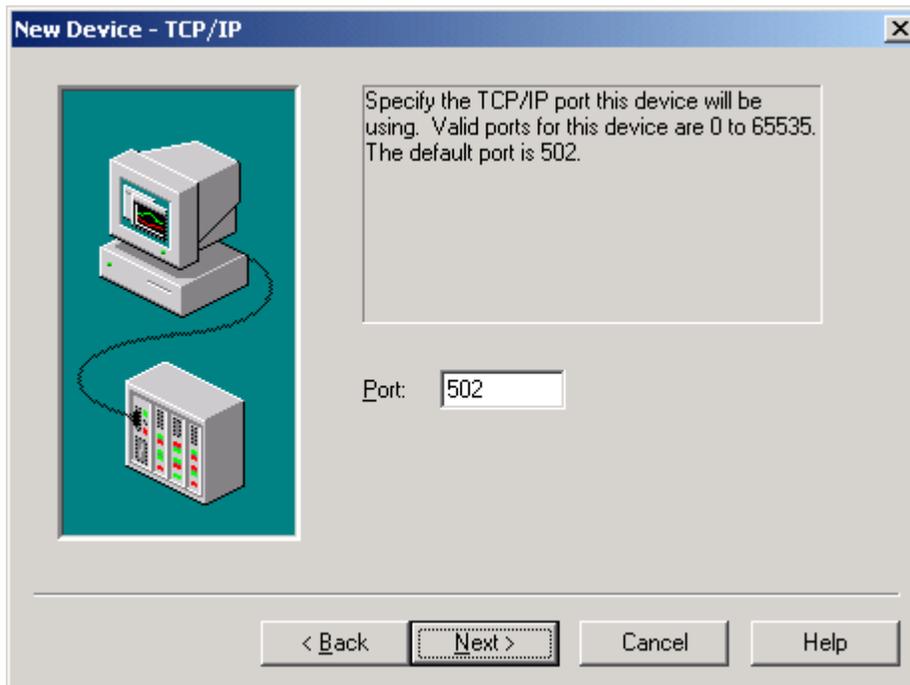
12. Leave the Communication Parameters at their default values. Click *Next*.



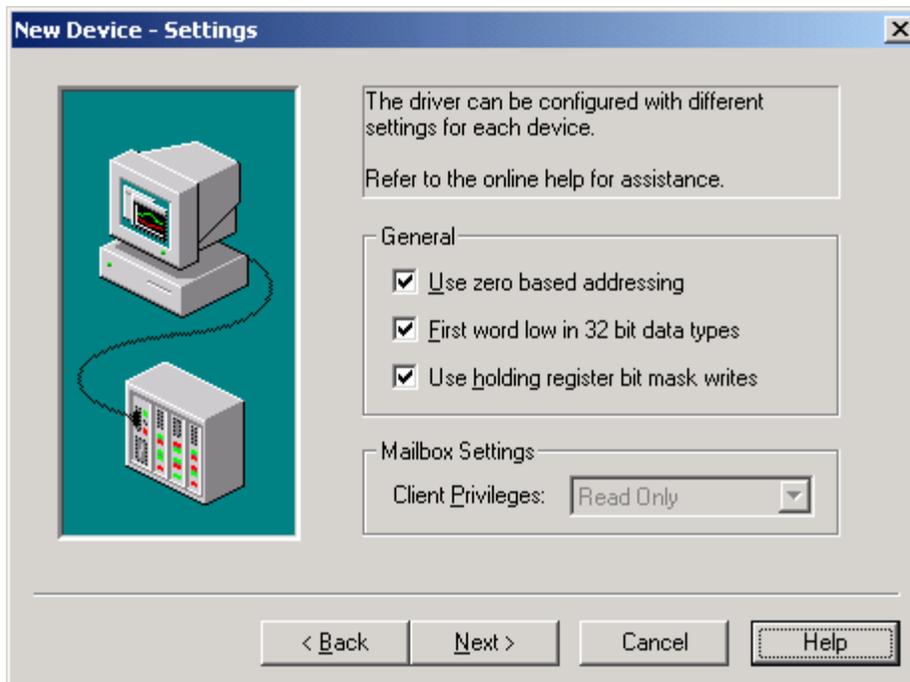
13. Leave the *Database Creation* settings at their default values. Click *Next*.

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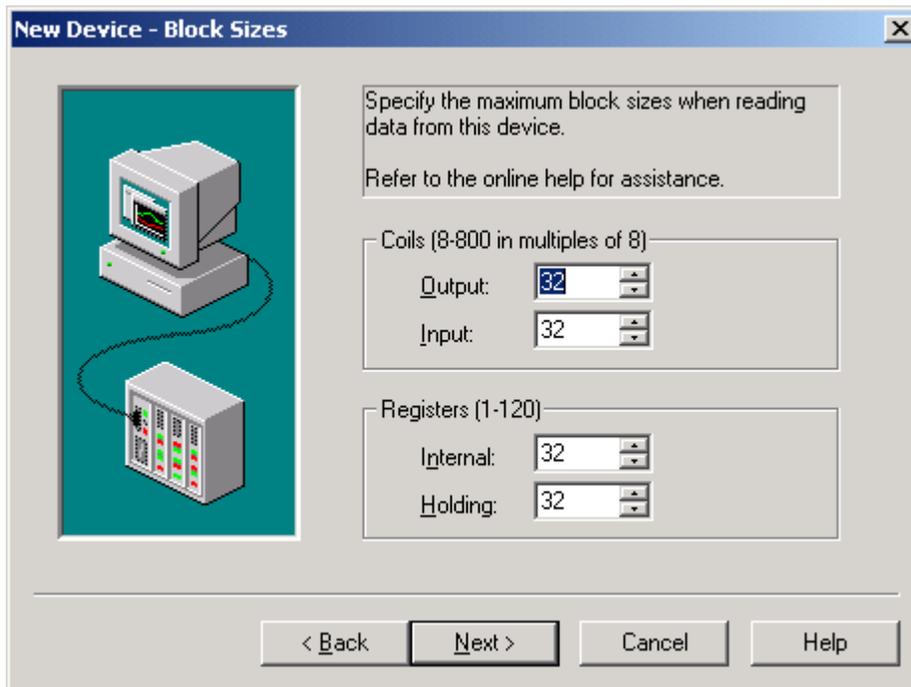
14. Leave the TCP/IP *Port* at its default value. Click *Next*.



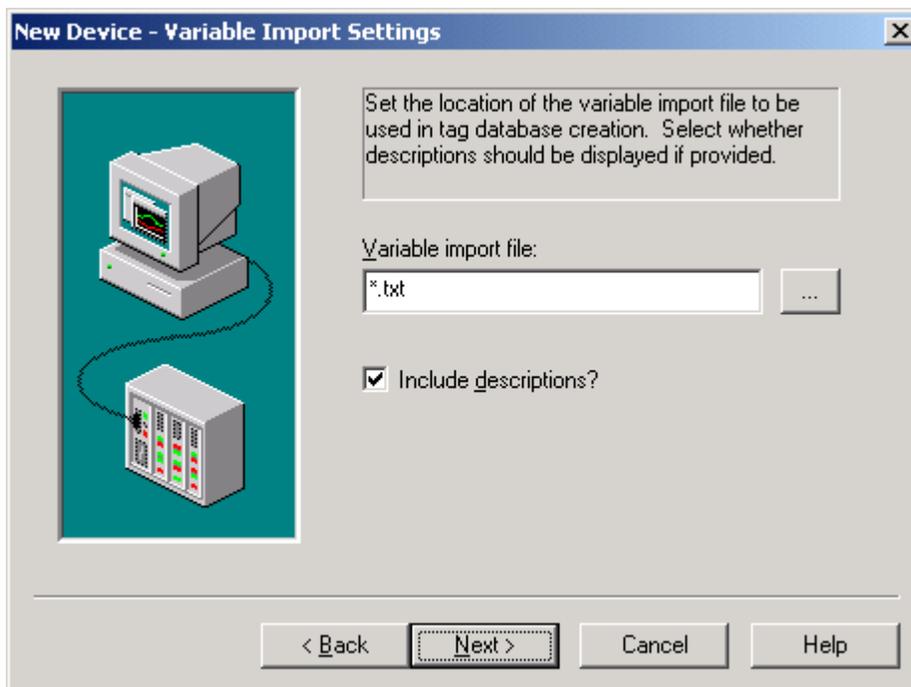
15. Leave the device settings at their default values. Click *Next*.

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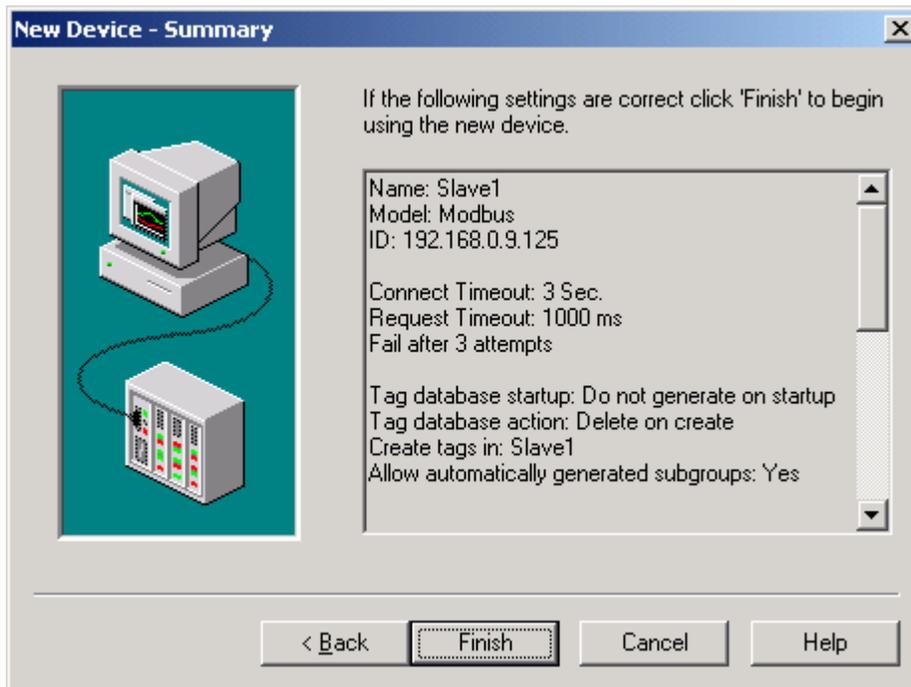


16. Leave the *Block Sizes* at their default values. Click *Next*.



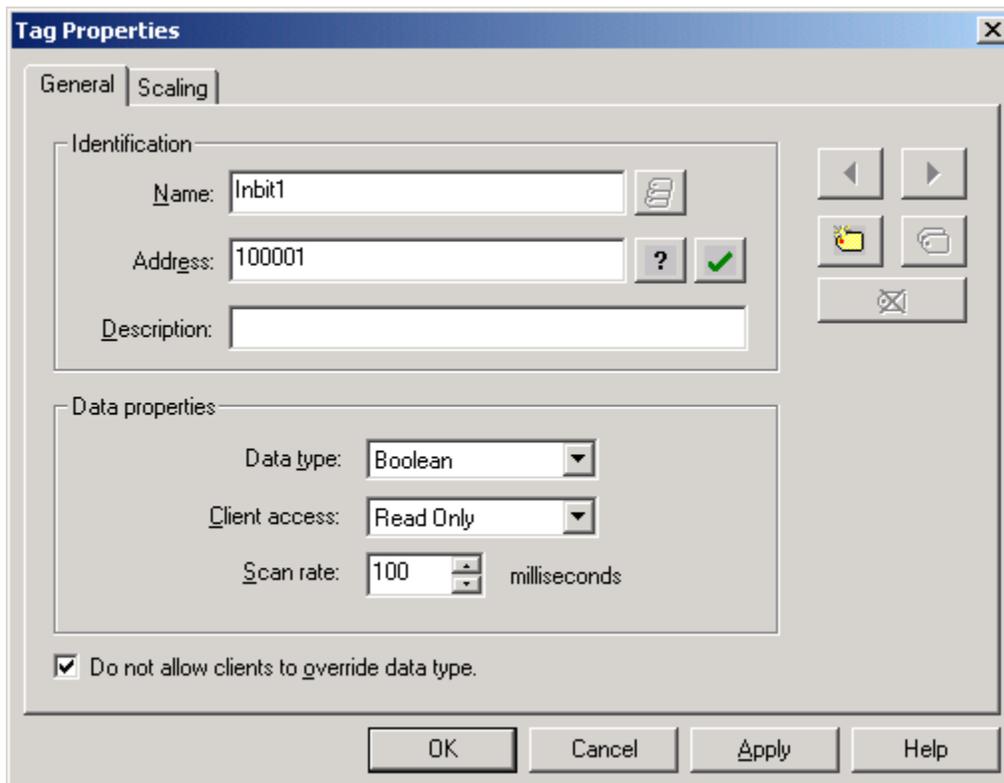
17. Leave the *Variable Import Settings* at their default values. Click *Next*.

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

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



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

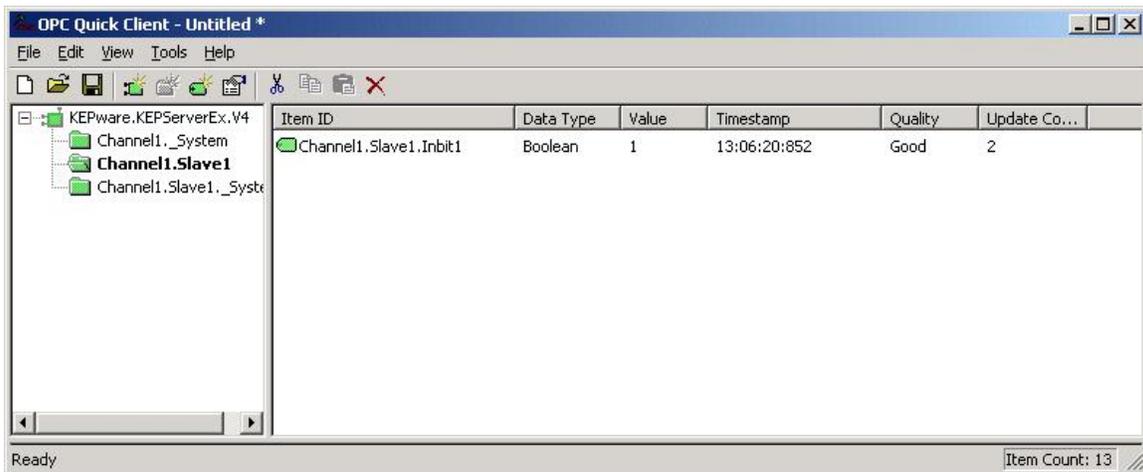
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21. Enter the *Address*.
22. For the *Data Type* select *Boolean* for registers 0xxxxx and 1xxxxx or *Word* for registers 3xxxxx and 4xxxxx.
23. Set the Client access to Read Only for registers 1xxxxx and 3xxxxx or Read/Write for registers 0xxxxx and 4xxxxx.
24. 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.



### Notes:

1. In 3xxxxx and 4xxxxx registers, the Profibus data is mapped to Modicon registers with byte order of high byte-low byte.
2. To access data on each Profibus slave, create a separate device with the Device ID built from the AN-X-PBSLV IP address and the Profibus slave node number.

Quest Technical Solutions

4110 Mourning Dove Court

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321 757-8483

[www.qtsi.biz](http://www.qtsi.biz)

