Application Note

Using AN-X-PBSLV with the InGear Modicon OPC Server

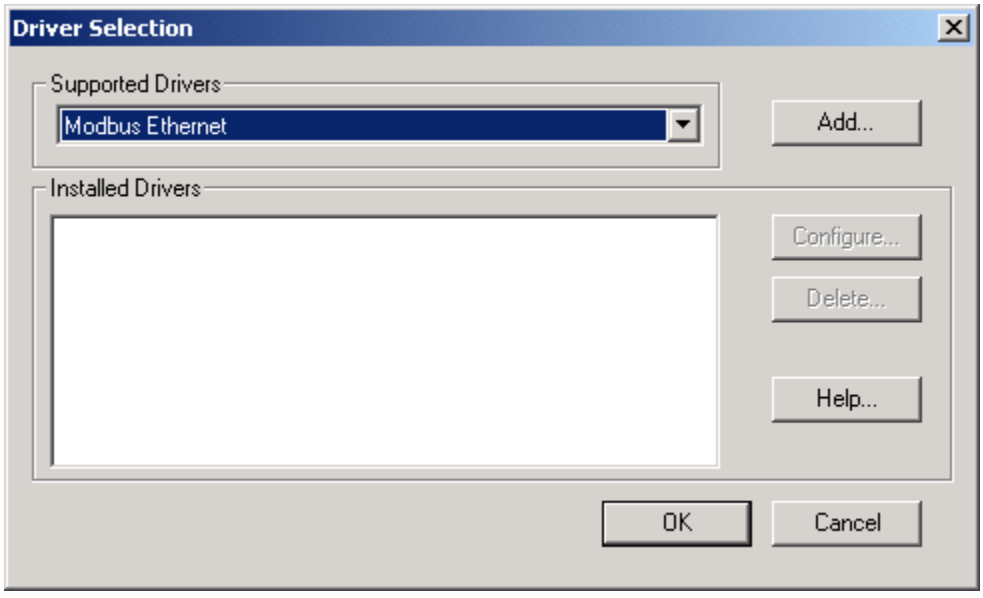
This application note describes how to configure the InGear Modicon OPC server to access Profibus data on the AN-X-PBSLV module.

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 InGear Modicon OPC server and use the following steps to configure it to access data on the AN-X-PBSLV.

1. Select *Edit/Comm Settings*…
2. For the *Driver*, select the *Modbus Ethernet* driver and click *Add*…



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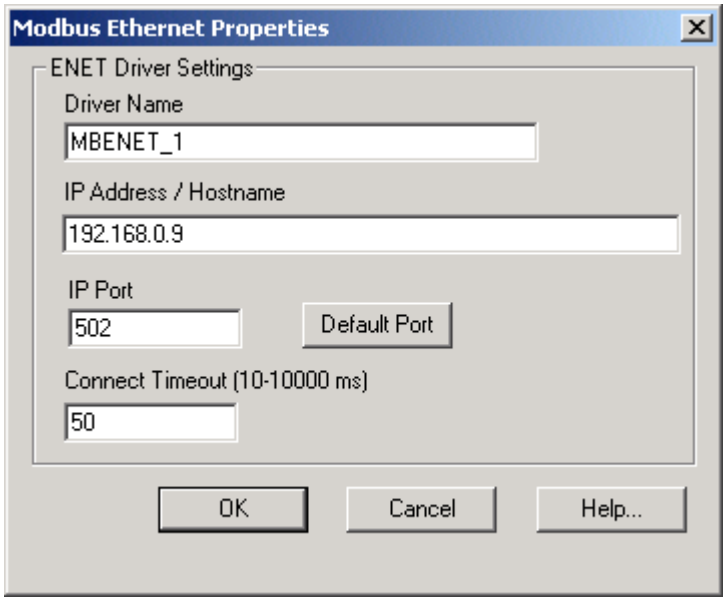
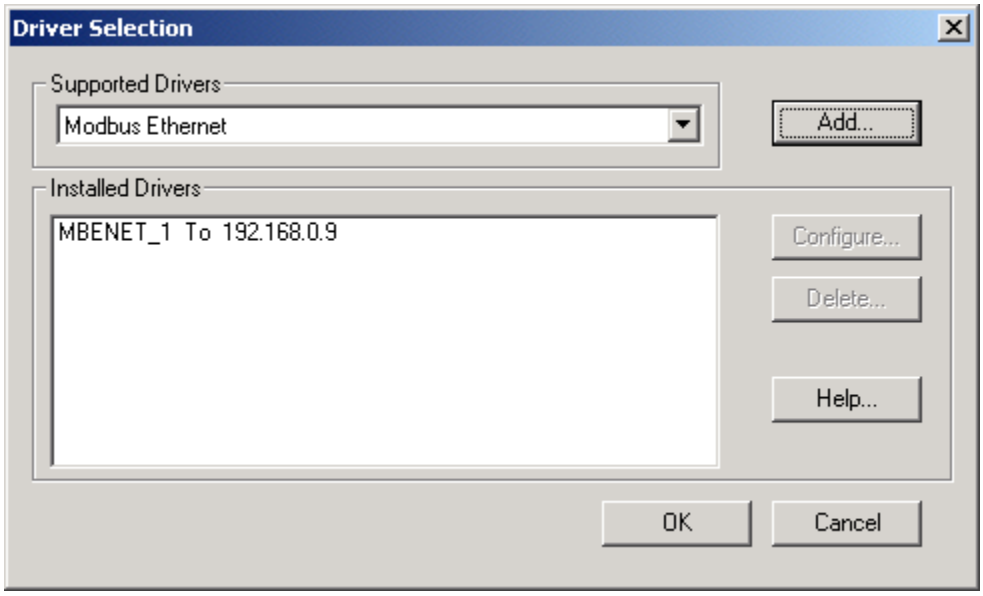
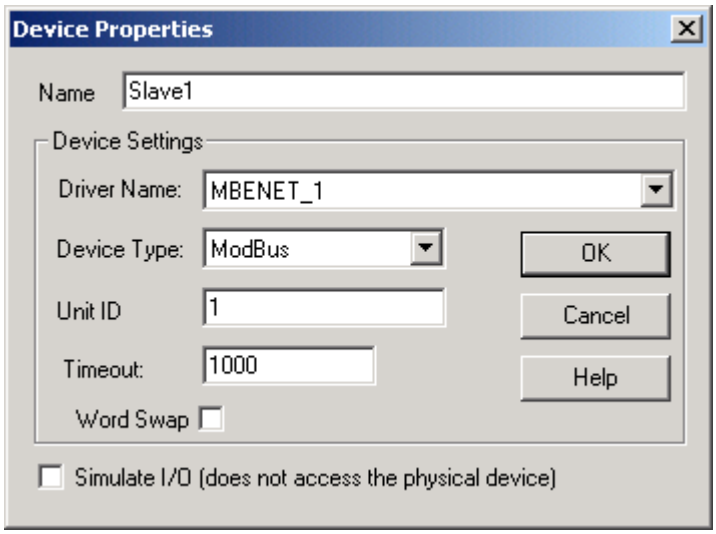
3. For the *IP Address/Hostname*, enter the AN-X-PBSLV IP address. Leave the *IP Port* and *Connection Timeout* at their default values. Click *OK*

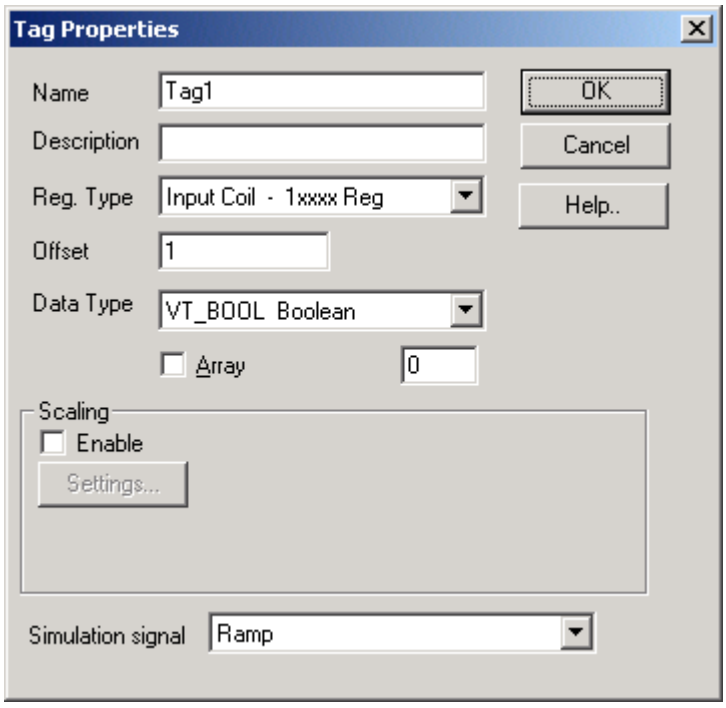




4. Click *OK* to accept the driver configuration
5. Select *Add/New Device*…
6. Give the device a *Name*, select the *Driver* you just added, select *Modbus* as the Device Type and set the *Unit ID* to the address of the Profibus slave whose data you wish to access. Click *OK* to accept the device

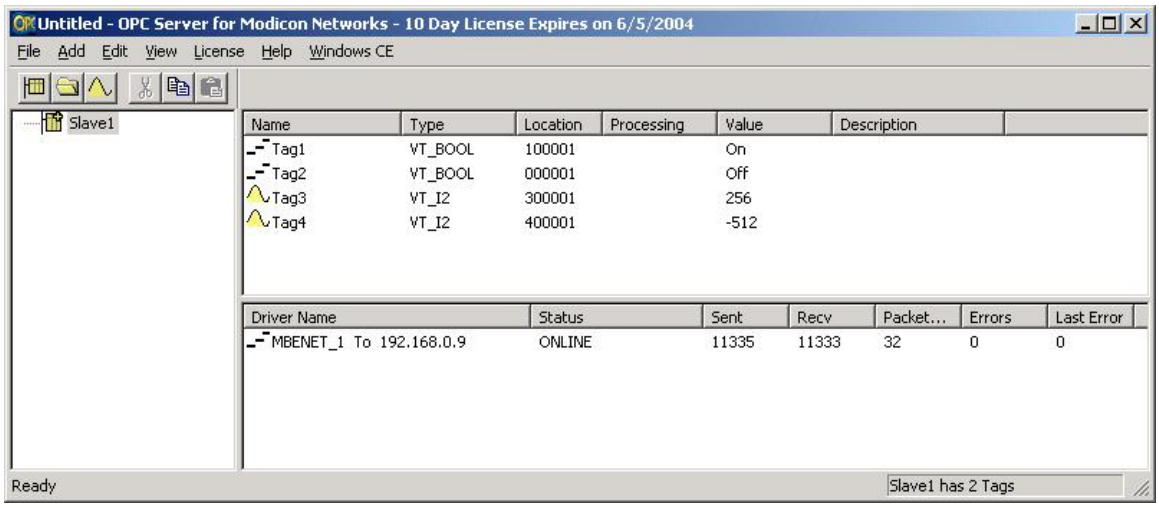


7. Select *Add/New Tag…*
8. Give the tag a *Name* and optionally a *Description*.
9. Select the Reg. Type.
10. Select the Offset. For example, to access 100001, set the Reg. Type to Input Coil – 1xxxx Reg and the offset to 1.
11. For the *Data Type* select VT_BOOL Boolean for registers 0xxxxx and 1xxxxx or *VT_I2 – (INT/Word)* for registers 3xxxxx and 4xxxxx.
12. Click *OK* to accept the tag.



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

Select *View/Monitor* 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 Unit ID equal to the Profibus slave node number.

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