

Application Note

Using AN-X-PBSLV with the Automated Solutions Modicon OPC Server



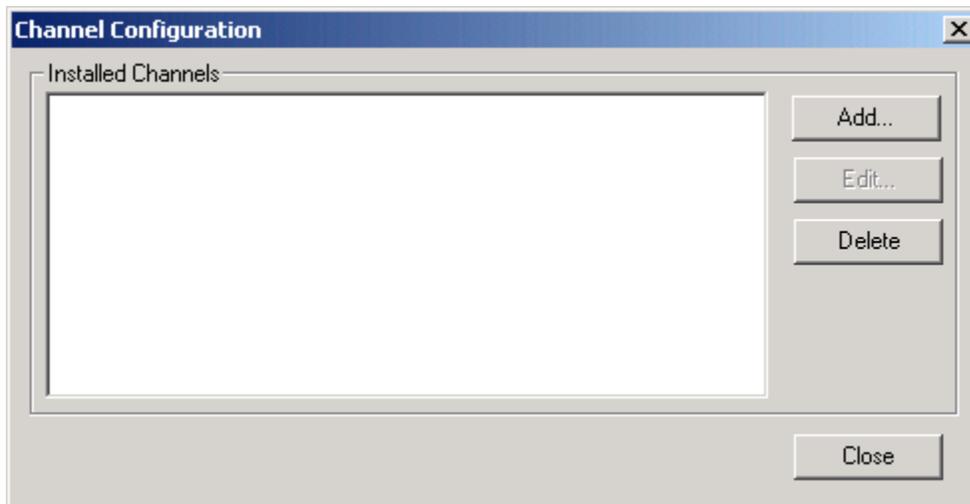
This application note describes how to configure the Automated Solutions Modicon OPC server to access Profibus data on the AN-X-PBSLV module.

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

1. Click the *Channel* button or select *OPC/Channels...*



2. Click *Add...*

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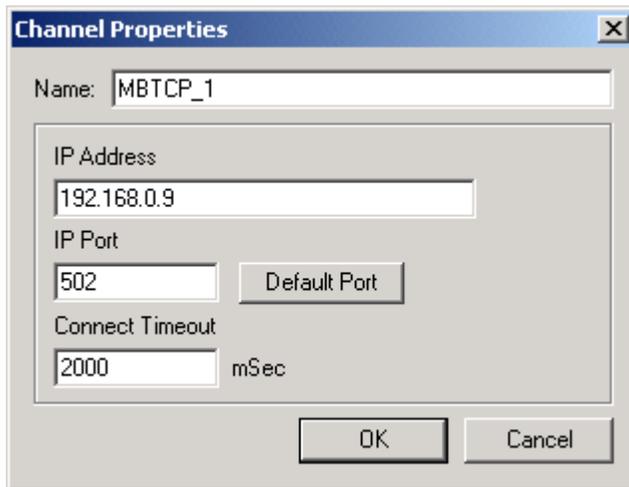
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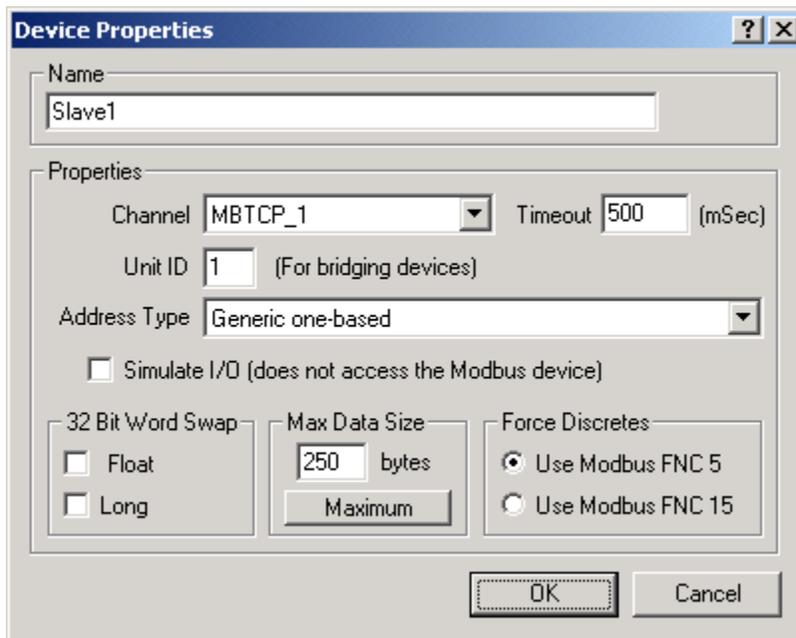
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3. Give the channel a *Name*.
4. For the *IP Address*, enter the AN-X-PBSLV IP address. Leave the *IP Port* and *Connection Timeout* at their default values. Click *OK* to accept the channel properties, then click *Close*.
5. Click the *Add Device* button or select *OPC/Add Device...*



6. Give the device a *Name*, select the *Channel* you just added, 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. Click the *Add Tag* button or select *OPC/Add Tag...*

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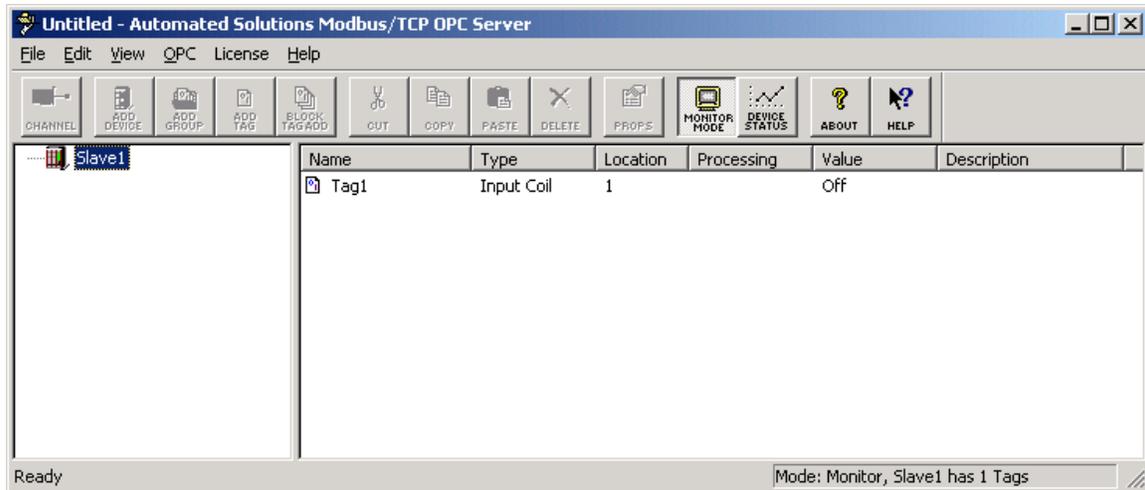
The screenshot shows the 'Tag Properties' dialog box. The 'Name' field contains 'Tag1'. The 'Description' field is empty. The 'Type' dropdown menu is set to 'Input Coil'. The 'Location' field contains '1'. The 'Range' field contains '<1...XXXXX>'. The 'Data Type' dropdown menu is set to 'VT_BOOL'. The 'Number of Bytes' field contains '1'. The 'BCD Format' checkbox is unchecked. The 'Access Rights' section has three radio buttons: 'Read + Write' (unchecked), 'Read Only' (checked), and 'Write Only' (unchecked). The 'Scaling and Alarming' section has an 'Enable' checkbox (unchecked) and a 'Settings...' button. The 'Simulation signal' dropdown menu is set to 'Ramp'.

8. Give the tag a *Name* and optionally a *Description*.
9. Select the *Type*.
10. Select the *Location*. For example, to access 100001, set the *Type* to Input Coil and the location to 1.
11. For the *Data Type* select VT_BOOL for registers 0xxxxx and 1xxxxx or VT_I2 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 Automated Solutions Modicon OPC server.

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Click the *Monitor Mode* button or 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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