

Anybus CompactCom BACnet/IP

*How to configure an Anybus CompactCom BACnet/IP module
with a WAGO 750-830*



More information about the network and products

The most recent manuals and files for the Anybus CompactCom BACnet/IP modules can be found on the HMS webpage www.anybus.com.

The BACnet International has a webpage on the Internet: www.bacnetinternational.org. Several technical guides are available in or via this page.

For information concerning the WAGO Controller system refer to the WAGO homepage www.wago.com.

History

Revision	Date	Description	Author
1.00	2011-07-04	Created	Jesper Håkansson
1.01	2011-08-02	Minor changes	LmA

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1. Applicable Anybus products

Description	Name / Type
Anybus CompactCom	BACnet/IP

2. Requirements

Description	Name / Type	Version
WAGO BACnet/IP programmable fieldbus controller	750-830	n.a.
PC with WAGO BACnet Configurator software	WAGO BACnet Configurator	1.3.9.0
Anybus CompactCom	BACnet/IP	n.a.
PC with software to setup and communicate with the Anybus CompactCom module	E.g. ABCC Development Tool II	1.00.02
Configuration cables	n.a.	n.a.
Ethernet TP cable	n.a.	n.a.
Power supply 24VDC	n.a.	n.a.

3. Solution overview

Below you find an overview of the system configuration that is described in this document. Other nodes may be attached to the network, but are not necessary. This application note describes the necessary steps to configure an Anybus CompactCom BACnet/IP module with a WAGO 750-830 controller.

Note: This document is only valid for Anybus CompactCom BACnet/IP modules.

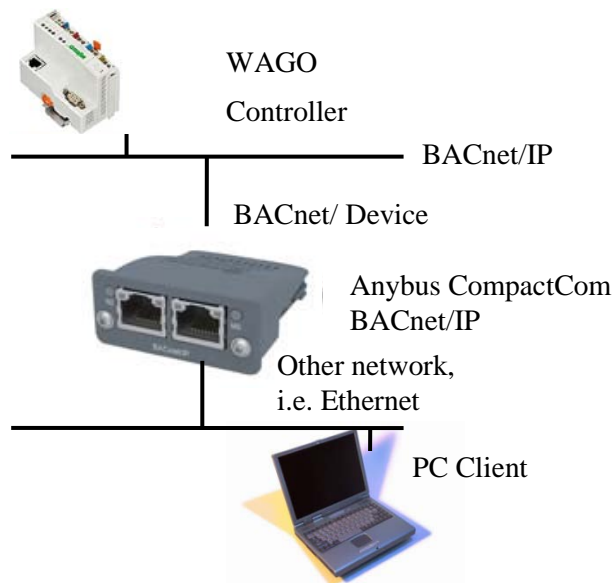


Figure 1 Hardware connection overview.

4. Anybus CompactCom BACnet/IP configuration

4.1. *Hardware*

Ensure that the Anybus CompactCom BACnet/IP module is connected and configured in accordance with its manual. (www.anybus.com) prior to performing the steps described in section 5 of this application note.

4.2. *Software*

Ensure that the Anybus CompactCom BACnet/IP module is implemented and configured in accordance with its manual. (www.anybus.com) prior performing the steps described in section 5 of this application note.

To be able to setup and communicate with the Anybus CompactCom BACnet/IP module on the application side, an internal ABCC Development Tool has been used.

In this application note, write data is set up to two Booleans.

5. WAGO configuration

5.1. Hardware

Ensure that the WAGO 750-830 is connected and configured in accordance with its manual (www.wago.com) prior to performing the steps described this section.

5.2. Software

Install and configure the WAGO BACnet Configurator software:

1. Start Windows *Control Panel*.
2. Navigate to *Network Connections*. (How this is done depends on which version of Windows that is used)
3. Right click on the network used for setting up this application and click on *Properties*.
4. Select *Cimetrics BACstac(TM) Standard Edition v4.3 Protocol* and click on the *Properties* button.
5. Click Edit and ensure that the correct network card is selected in the *Address->Adapter*: drop down menu.

5.3. WAGO BACnet Configurator configuration

Configure the WAGO BACnet Configurator:

1. Ensure that the program used for communicating with the Anybus CompactCom module is running.
2. Start the WAGO BACnet Configurator software.

There should now be at least one *Controller* and one *WAGO BACnet/IP Controller (or Device_...)* in the *Device Pool* field under *Scan*.

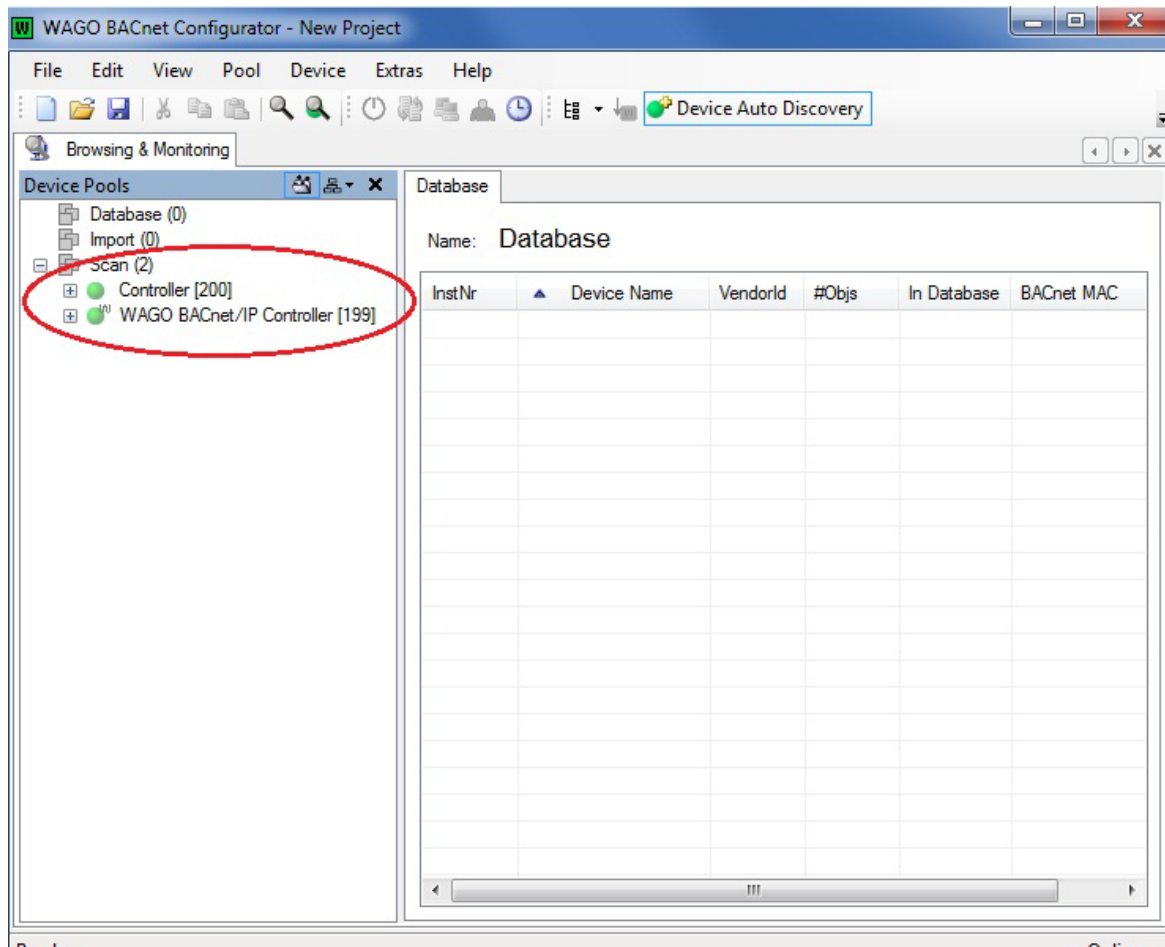


Figure 1 Controllers

3. Right click the *Controller* and then click on *Add to Database*.
4. Do the same for *WAGO BACnet/IP Controller* (it may take a while). If a *Task Status – Add to Database* window appears click on the *Continue Add to Database* button.

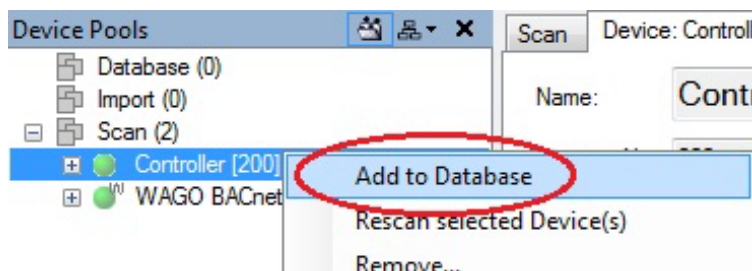


Figure 2 Add to database

The two controllers should now also be under *Database (2)* in the *Browsing & Monitoring->Device Pools* tab.

5. Right click *WAGO BACnet/IP Controller* under *Database (2)* and click on *Configure*.
6. Double click *BINARY_OUTPUT_0*.

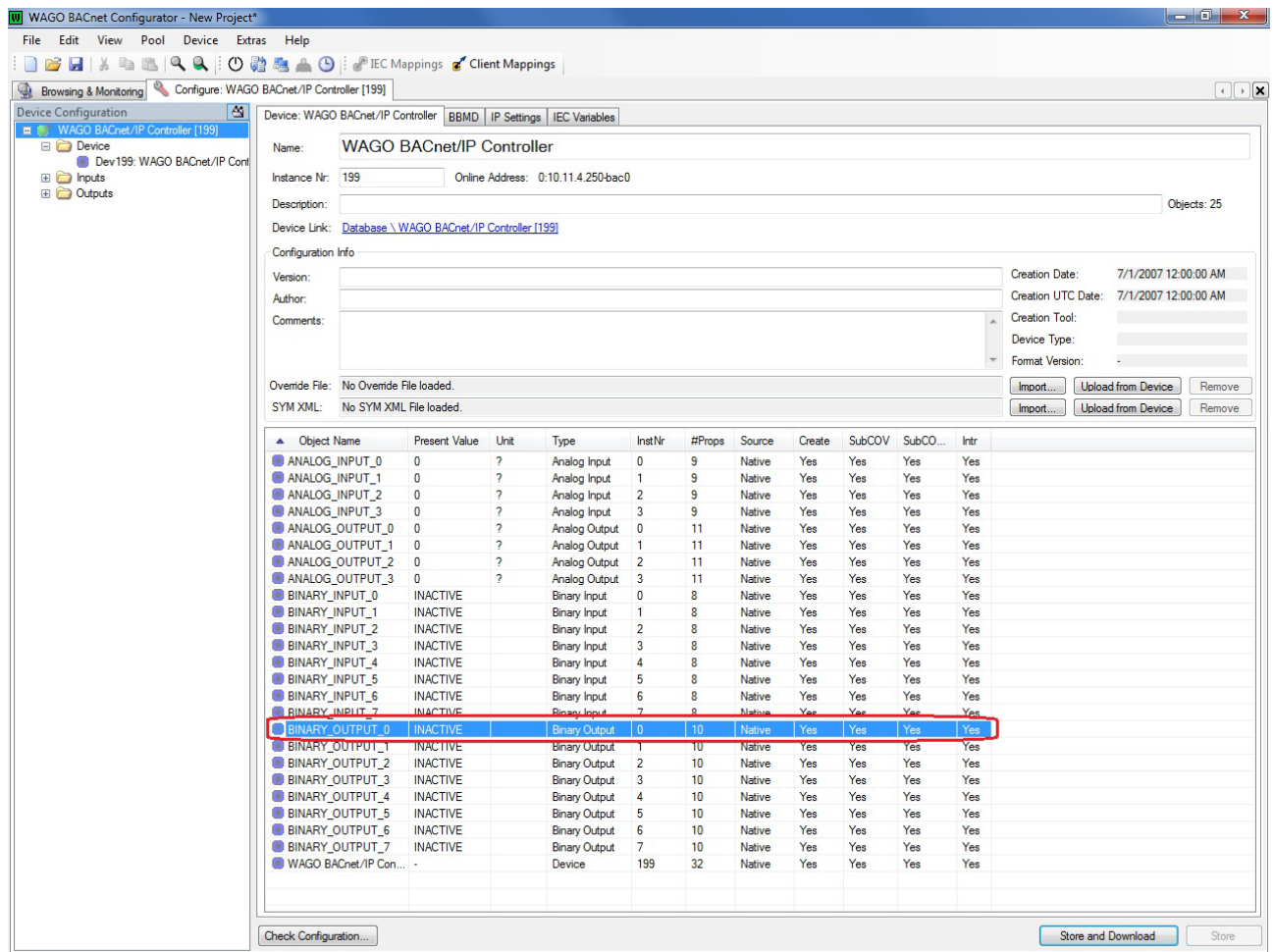


Figure 3 Double click BINARY_OUTPUT_0

7. Right click *Present Value* and select *Client Mappings*.

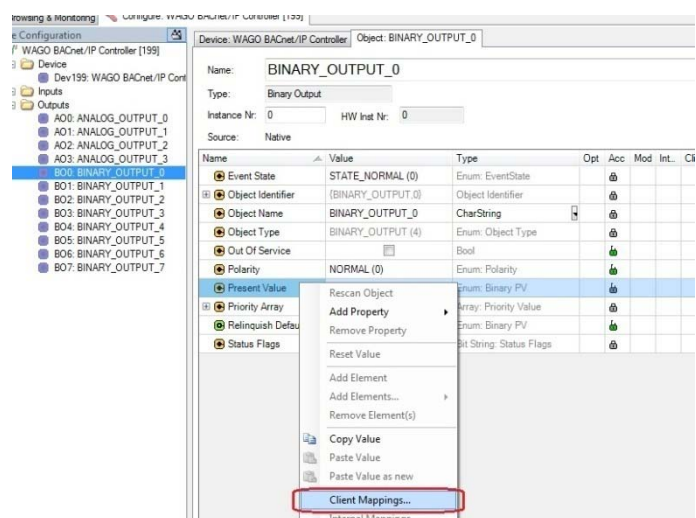


Figure 1 Client Mappings

8. If there is anything mapped, select this and click on *Delete Map*.

9. Under the *Database* field select *Database (2) -> Controller [200] -> Values -> BV1: Binary_Value_1 -> Present Value*
10. Click on *Add Read Map*
11. Click on *Close*.

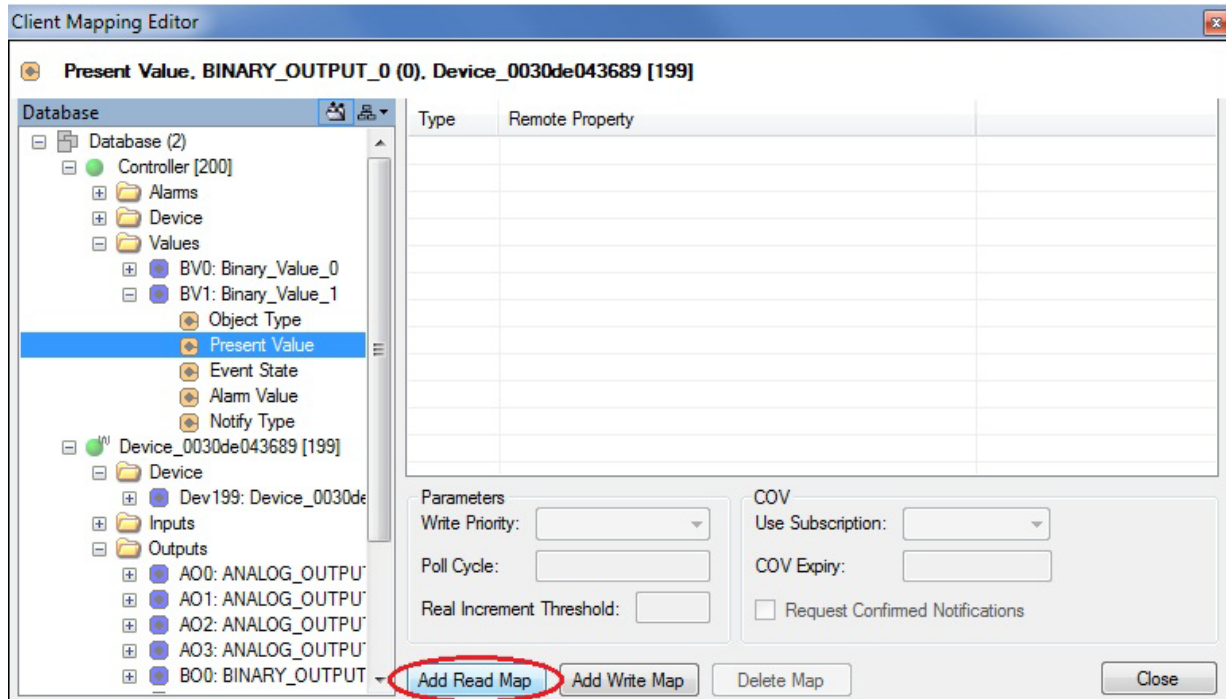


Figure 4 Add Read Map

12. Click on the *Store and Download* button.

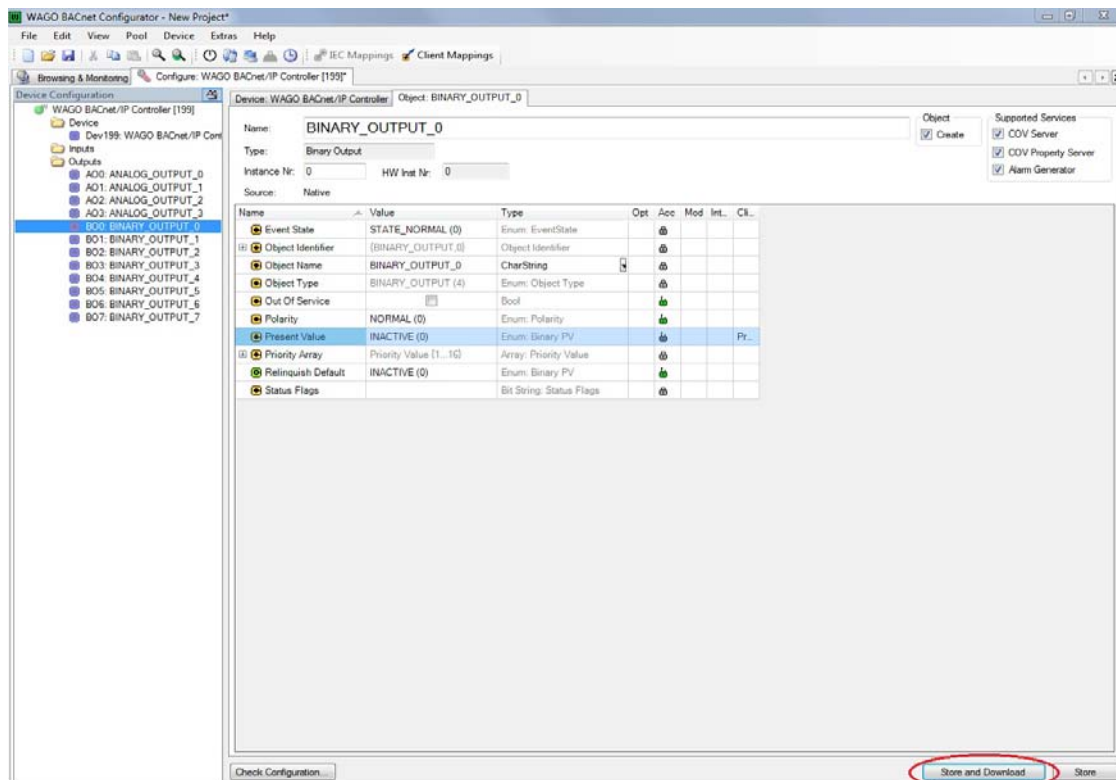


Figure 2 Store and Download

13. A *Download Configuration* window appears. Click on the *Download Configuration* button.
14. Select the *Browsing & Monitoring* tab.
15. Select, in the *Device Pools* field, *Scan -> WAGO BACnet/IP Controller -> Outputs -> BINARY_OUTPUT_0 -> Present Value*. The value should be *INACTIVE (0)*.

5.4. Update value

Change the value of the second data instance the program used for communicating with the Anybus CompactCom module to 1.

The *Present Value* field in *WAGO BACnet Configurator* is now set to *ACTIVE (1)*.