



BACnet Modbus Gateway Description of the BACnet export





Application

In this application example, there are two ventilation links that are to be controlled with position accuracy via BACnet.

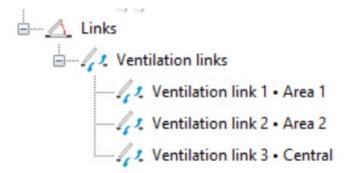
The actual positions of the drives in the zones and the respective open and close messages are to be returned to BACnet as feedback.

Two digital Modbus inputs are to be used to send a central open and a central close signal from BACnet.



Links

There is one ventilation link per zone. A higher-level ventilation link is responsible for the central commands.



Modbus Inputs and outputs



2. Settings		
Designation:	Zone 1 Target-Pos.	(max. 20 characters)
Functionality s	election: Target position \checkmark	
Apply	Cancel	
3. Links to whi	ch the data Modbus input is allocated	

For the feedback of the actual position, data Modbus outputs are used per zone.





These are also assigned to the ventilation links and the "Actual position" functionality is selected.

1. Designation	
Data Modbus output 1 (Input	Register 4096) • Zone 1 Actual-Pos.
2. Settings	
Designation: Zone 1 Actual-Pos.	(max. 20 characters)
Functionality selection: Actual position	\sim
Apply Cancel	
3. Links to which the data Modbus output	t is allocated
I Ventilation link 1 • Zone 1	

The open and close messages are passed on to BACnet via digital Modbus outputs.

🖕 斗 Digi	ital outputs
	Digital Modbus output 1 (Input Discrete 1024) • Zone 1 open
	Digital Modbus output 2 (Input Discrete 1025) • Zone 1 closed
	Digital Modbus output 3 (Input Discrete 1026) • Zone 2 open
	Digital Modbus output 4 (Input Discrete 1027) • Zone 2 closed

These are also assigned to the respective ventilation links. "Open message" or "Close message" is selected as the functionality.

2. Settir	ngs			
Name:	Zone 1 open		(Max. 20 charad	cters)
Function	nality selection:	End position OPEN signal	~	
Timer fu	nction selection:	None	v 0 🔹	h 0 🚖 min 0 🚖 s
Арр	ly Cance			



The central open and central close control is realized via two digital Modbus inputs.

🖕 🕹 Digi	tal inputs
	Digital Modbus input 1 (Coil 0) • Central open
<u>1</u>	Digital Modbus input 2 (Coil 1) • Central close

These are assigned to the higher-level ventilation link and set to the "LT-Open" or "LT-Closed" functionality.

2. Settings							
Name: Centra	l open		(Max. 20	character	s)		
unctionality sel	ection:	VB Open	~				
limer function s	election:	None	~ 0	÷ h	0	min)
Apply	Cancel						



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Export

In order to be able to connect the BACnet gateway as easily as possible, an export of the data points can be carried out with the SCS.

To do this, the configuration tab of the Modbus gateway is called up. There, the button "ACM/Intesis-MAPS BACnet Export" can be used to create two files that can be imported into the Intesis configuration software. A configuration file (.ibmaps) and a data point file (.xlsx) must be created for the respective manufacturer (Intesis/Anybus).

📰 D+H Service & Configuration Suite G2 21.5.1 RC 1

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BACnet configuration software Intesis MAPS

In order to use the BACnet Modbus gateway, it must be configured with the Intesis MAPS software (with ACM MAPS for Anybus). For this purpose, the created project file (.ibmaps file) is loaded via the "Load Project" button.



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Connection with the Intesis Gateway

Under the "Connection" tab, the interface and the connection must be selected. After that, the connection is established with the "Connect" button. In this case the connection was established via USB.

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BMS Protocol: BACnet Server I Device Protocol: Modbus Master I 11:17:02 2021/06/16



Import of the datapoints with Intesis MAPS

To import the data points, the "Import" button must be pressed under the "Signals" tab.

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Now the data point file (.xlsx) must be selected. After another click on "Import" the data points are loaded into the configuration.



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With the import, the General and the Modbus settings as well as the data points matching the AdComNet configuration are automatically taken over correctly.

Digital Modbus inputs and outputs are bit variables and data Modbus inputs and outputs configured to setpoint or actual position are automatically created in BACnet with the matching "Unit" in percent. The conversion BACnet value 100% to Modbus value 1000 is also already set correctly.



Upload the configuration

To upload the configuration to the gateway, the "Send" button must be pressed in the "Receive / Send" tab while the connection is active.

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			Send			

Connected to: Serial Port COM15

BMS Protocol: BACnet Server I Device Protocol: Modbus Master I 08:14:38 2021/06/16



Example for scanning the data points from BACnet

As a connection example, a Loytec LINX-202 was used as a BACnet controller and connected to the gateway. The following shows how the data points are "scanned" using the Loytec software.

Using the network scan the Intesis gateway is found.

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BACnet Netzwerk-Scan

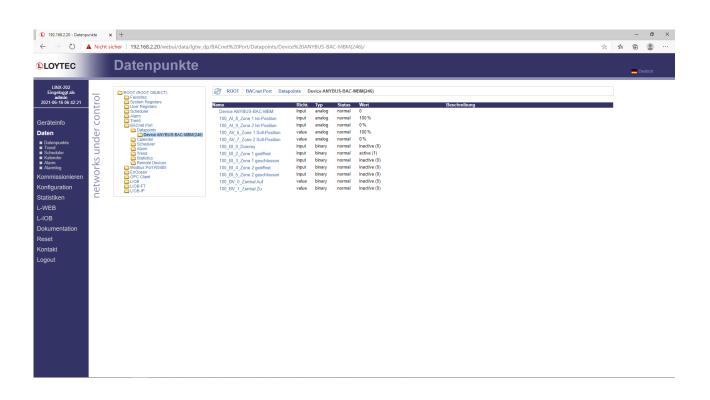
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Now the individual data points are displayed in the device.

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Contact

D+H Mechatronic AG Georg-Sasse-Str. 28-32 22949 Ammersbek www.dh-partner.com