



## Introduction

The xxter controller can act as a BACnet server (sometimes also called “slave”) so a BACnet client (sometimes also called “master”) can connect to it. This means you can use the xxter controller to make the KNX components available to BACnet for visualization and control.

To enable BACnet in xxter, an additional license is required. For more information, contact xxter sales via [sales@xxter.com](mailto:sales@xxter.com).

As a BACnet server, you can use xxter to provide BACnet with **binary inputs, outputs** and **values**, as well as **analog inputs, outputs** and **values**. You can add up to 1000 endpoints of each type.

## Overview

This manual contains the following sections:

- 1) Setting up BACnet elements in the xxter project
- 2) Enabling BACnet on the xxter controller

## Setting up BACnet elements in the xxter project

To use BACnet, the BACnet license should be enabled for the device first, see above.

To set up BACnet elements, log in to *My xxter* as a professional, open the project that is linked to the device with a license and open the *Components* tab. By clicking on the three dots on the right, you can enable the BACnet columns that are required to set up BACnet.

The screenshot shows the 'Components' tab in the xxter web interface. A table lists various components with columns for Type, Name, Group name, Sending Group, and Status Group(s). A dropdown menu is open on the right side of the table, showing options to enable BACnet columns: Value, Bridge, Scenario /Scheduler, via API, BACnet Type, BACnet ID, and Read. The 'BACnet Type' and 'BACnet ID' options are checked and highlighted with a red box. A red box also highlights the three-dot menu icon that triggered the dropdown.

Type	Name	Group name	Sending Group	Status Group(s)	
+	Shutters				<input checked="" type="checkbox"/> Value
+	Sonos KNX				<input type="checkbox"/> Bridge
+	Irrigation				<input checked="" type="checkbox"/> Scenario /Scheduler
-	Climate				<input type="checkbox"/> via API
-	Thermostat				<input checked="" type="checkbox"/> BACnet Type
					<input checked="" type="checkbox"/> BACnet ID
					<input type="checkbox"/> Read
	HVAC mode	Thermostat mode	3/0/1	3/0/1	

If the BACnet columns are not shown, the project is not connected to a device with the BACnet license.

Click *Edit* to modify the project. Under *BACnet Type* you can select whether it concerns an input (write to KNX), output (read from KNX) or value (read/write). You can also manually choose an ID or leave it 0 for xxter to assign IDs automatically. Based on the datapoint type, xxter will always automatically decide if it is a binary or analog (number) value.

The screenshot shows the 'Add component' form in the xxter web interface. The form has fields for Type, Name, Group name, Sending Group, Status Group(s), DPT, Value, Scenario / Scheduler, BACnet Type, BACnet ID, and Delete. A dropdown menu is open for the 'BACnet Type' field, showing options: Input, Output, and Value. The 'Input' option is selected and highlighted with a blue box.



Editing the BACnet values for a project could look like this:

Filter:

[CANCEL](#) [SAVE](#)

Type	Name	Group name	Sending Group	Status Group(s)	DPT	Value	Scenario / Scheduler	BACnet Type	BACnet ID	Delete
<b>Add component</b>										
Switch					1.001			-	0	X
<b>Climate</b>										
<b>Thermostat</b>										
HVAC mode	Thermostat mode		3/0/1	3/0/1	20.102			-	0	X
Temperature	Current temperature			3/0/0	9.001			Output	0	X
Temperature	Temperature set		3/0/2	3/0/2	9.001			Value	0	X
<b>System values</b>										
<b>Lighting</b>										
<b>Controls</b>										
Bit value	Presence detection corridor			1/1/3	1.001			Output	0	X
Bit value	Presence detection main hall			1/1/2	1.001			Output	0	X
Dimmer	Conference room		2/0/101	2/0/101, 2/1/101	5.001			Value	0	X
	Switching (optional)		1/0/101	1/0/101, 1/1/101	1.001			Value	0	X
	Color temperature (K) (optional)				7.600			-	0	X
Scenario	Default lights scenario			3/3/0	5.100	1		Input	0	X
Switch	Lights corridor		1/0/1	0/0/1, 0/2/1, 1/0/1, 1	1.001			Value	0	X
Switch	Lights main hall		1/0/0	0/0/1, 0/2/0, 1/0/0,	1.001			Value	0	X

Once you have completed the configuration, press *Save*. To create an overview of all the elements that you have made available through xxtter, press the *BACnet overview* button.

[BACnet overview](#)

This will provide an overview like this, which you can use to configure the BACnet client:

Nr	Name	Unit
<b>Binary output</b>		
1	Presence detection main hall	
2	Presence detection corridor	
<b>Binary value</b>		
1	Lights main hall	
2	Lights corridor	
3	Conference room - Switching	
<b>Analoge input</b>		
1	Default lights scenario	
<b>Analoge output</b>		
1	Current temperature	°C
<b>Analoge value</b>		
1	Conference room	%
2	Temperature set	°C



## Enabling BACnet on the xxter controller

Now the xxter project configuration is complete, all that remains is to enable BACnet on the device.

Log into the xxter controller to load the BACnet license and the BACnet enabled project on the device, by pressing on the *Load configuration* button



Then, go to the *Protocols* menu and enable the BACnet protocol:

### BACnet protocol:

BACnet settings	Enabled
BACnet device ID	21090
BACnet description	xxter BACnet server
BACnet location	Office
<input type="button" value="Apply"/>	

If you do not see the BACnet protocol on the *Protocols* page, the device has no BACnet license, or the license is not yet loaded on the device via the *Load configuration* button.

For the BACnet protocol, you can also set up the BACnet device ID and add a description and location for the xxter controller.

With BACnet enabled and the project loaded, the xxter controller will now respond to your BACnet client to control and visualize the KNX installation.