

1 SAG Mortise Door Lock



This document describes the use of the SAG Smart Line Door Lock together with our gateways. The gateway used in the example is EO-BAC-IP.


References:

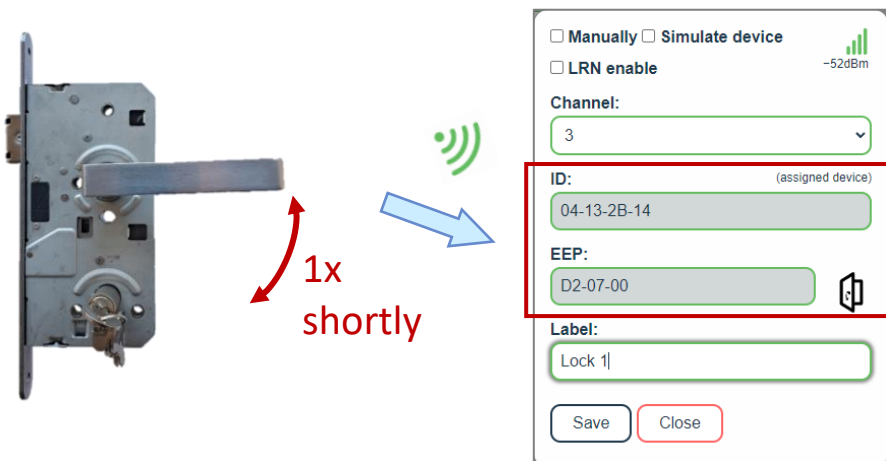
- [1] Technical specifications: <https://sag-schlagbaum.com/einlernen-smart-access/>
- [2] EEP description: <http://tools.enocean-alliance.org/EEPViewer/profiles/D2/07/00/D2-07-00.pdf>

1.1 Pairing with gateway

The lock does not send any teach-in telegram, but the gateway can detect its EEP from a specific sequence of data messages. The teach-in sequence is: handle down => handle release within 2 seconds; the locking bolt must be retracted.

In the web interface of the gateway:

1. Click the “Add new”  icon, a dialog box appears.
2. Teach-in sequence: handle down => handle release within 2 seconds
3. Optionally add a label (e.g. a short description of door location)
4. Save



1.2 View data

Web interface:

The web interface shows 'Lock 1' on 'Ch 3' with a status indicator showing '0' and '1'. A hand icon points to a signal strength indicator. To the right, a physical lock is shown with arrows pointing to 'Catch state' and 'Bolt state'.

Object ID	Value Name	Range	Value
AI 300	Bolt State	0:Non-blocking;1:Blo...	0:Non-blocking
AI 301	Catch State	0:Non-blocking;1:Blo...	1:Blocking
AI 390	Telegram counter	0...65535	2
AI 391	Telegram age	0..65000 s	122s
MSV 399	CONFIG	1:FREE;2:ASSIGNED	2:ASSIGNED

BACnet:

The Yabe BACnet client tool was used.

The lock is linked to **Channel 3**, therefore the incoming data are translated to Analog Input objects with Object ID starting from 300 (AI300, AI301):

The BACnet client tool shows a device 'EO-BAC-IP_1001 [1001]' with an address space of 55 objects. The 'Properties' window for 'RX_CH3_V0_Bolt State (Analog_Input:300)' is shown below.

Property Name	Value
Object Identifier	OBJECT_ANALOG_INPUT:300
Object Name	RX_CH3_V0_Bolt State
Object Type	0 : Object Analog Input
Property List	Object[] Array
Present Value	1
Status Flags	0000
Event State	0 : Normal
Out Of Service	False
Units	95 : No Units
Description	Bolt State [enum] 0:Non-blocking;1:Blocking;
Reliability	0 : No Fault Detected
Min Pres Value	-16777216
Max Pres Value	16777216
Cov Increment	65535

The Label is in the Description property of the object **MSV399**:

The BACnet client tool shows the 'Properties' window for 'CH3_CONFIG (Multi_State_Value:399)'. The 'Description' property is highlighted.

Property Name	Value
Object Identifier	OBJECT_MULTI_STATE_VALUE:399
Object Name	CH3_CONFIG
Object Type	19 : Object Multi State Value
Property List	Object[] Array
Present Value	2
Status Flags	0000
Event State	0 : Normal
Out Of Service	False
Number Of States	5
Description	Lock 1
State Text	Object[] Array