

Hotel Guest Room Management - Full Service and Luxury Solution

Application Specific Integration Guide

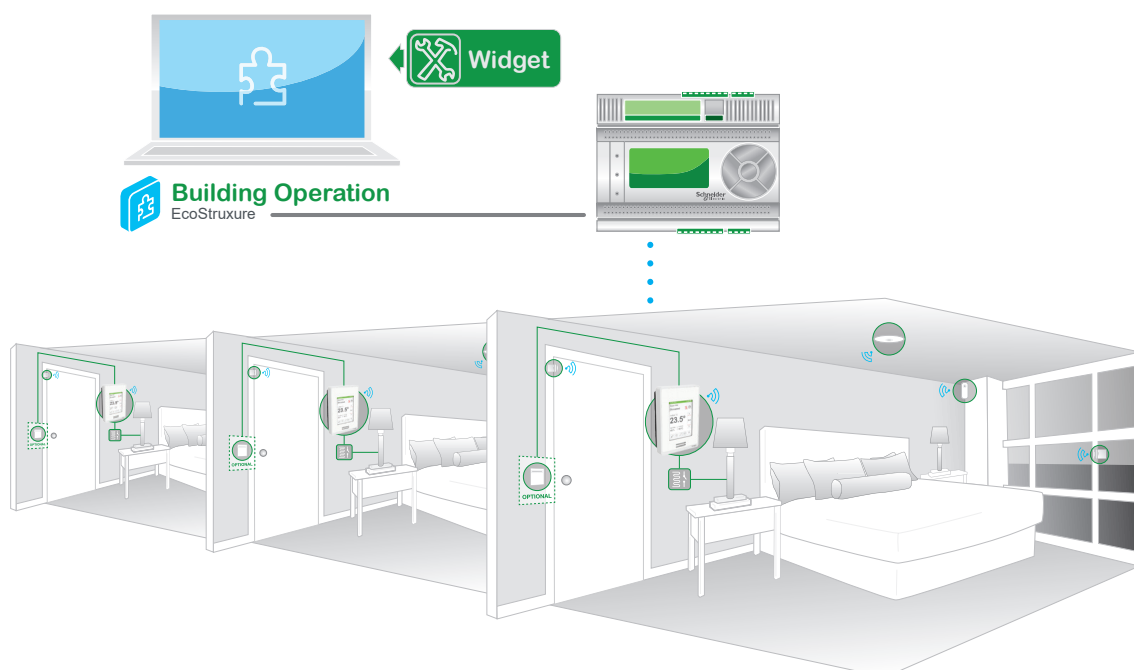


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Introduction

Our Guest Room Management suite of solutions range from simple limited service solutions, to feature-rich, fully integrated solutions.

GUEST ROOM MANAGEMENT VALUE

Good Limited Service Standalone

- Enhance Comfort
- Improve brand recognition
- Visual appeal
- Deliver intuitive experience
- Increased energy efficiency
- HVAC control with Occupancy management and window detection
- Master switch lighting control based on occupancy



Better Limited Service Integrated

- Lower maintenance costs
- Gain visibility of operations
- Remotely manage the hotel
- Boost staff productivity
- BMS integration with GRMS dashboard
- PMS integration with BMS and HVAC management
- Door Lock Integration
- Wired or Wireless integration



+

EcoStruxure™

Best Full Service and Luxury

- Enhance guest experience
- Increase asset value and differentiation
- Full lighting and blind control via BMS and bedside panel
- Light scenes
- Do-not-disturb
- Make-up room



+

EcoStruxure™

+



The [Limited Service Standalone Guest Room Management Solution \(GRMS\)](#) is covered in a separate guide.

This document covers the Integrated Solution and the Full Service and Luxury Solution. It also provides step-by-step integration of our guest room solutions to EcoStruxure™ Building Management Systems (BMS) including the GRMS dashboard, and 3rd party applications like Property Management System (PMS) and door lock integration.

When adding the Hotel Room Controller (HRC), the Full Service and Luxury Solution provides lighting, curtain, do not disturb (DND), make-up room (MUR), bedside panel and more. Each element of this solution can be selected “a la carte” to meet the needs of the specific hotel.

Guests enjoy a customized, intuitive digital experience along with exceptional comfort and convenience, while hotel operators are able to manage individual rooms, or the entire network of rooms, to drive energy efficiency, monitor alarms and events, and perform proactive maintenance.

PREREQUISITES

* This document assumes EBO is installed and licensed AND the System Integrator is a certified EBO user. Contact your local Schneider Electric representative if this is not the case.

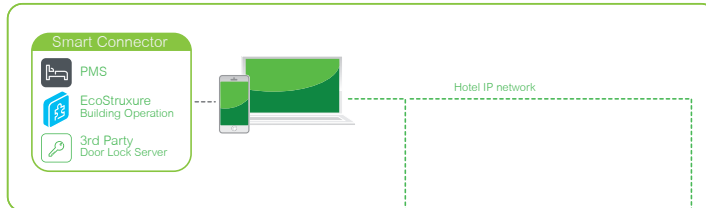
Section 1 - General Architecture

This section provides an overview of the general system architecture for integrating a network of multiple guest rooms using the HRCs and SER/SE8300 Series Room Controllers with a wired or wireless network infrastructure.

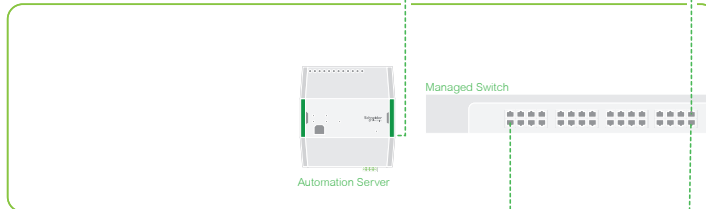
MULTIPLE CIRCUIT LIGHTING + OPTIONAL HMI TABLET

The below shows the architecture for the Full Service and Luxury GMRS for the Hotel level, Floor level, and Room level with optional HMI functionality.

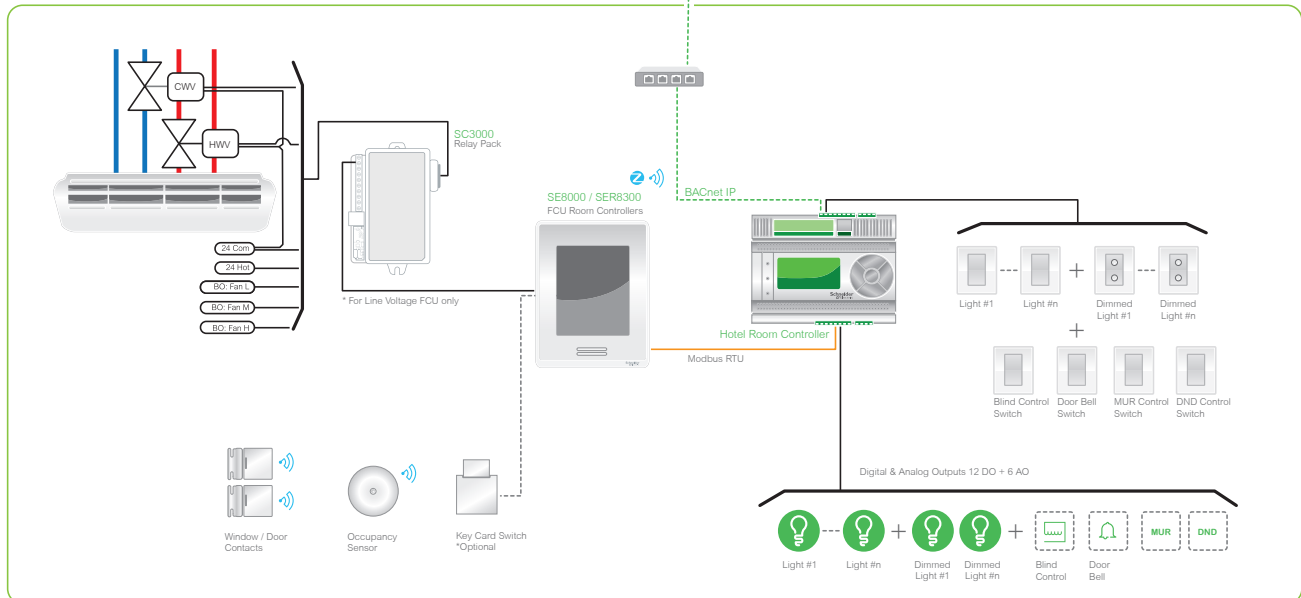
Hotel Level



Floor Level



Room Level



HARDWARE REQUIREMENTS

Qty	Part Number	Description
As required	SE8350U5BXX	Low Voltage FCU Room Controller
As required	SE8350U5BXXP	Low Voltage FCU Room Controller with built-in ZigBee
As required	SER8350A5BXX	Line Voltage FCU Room Controller (with relay pack)
As required	SER8350A5BXXP	Line Voltage FCU Room Controller (with relay pack) with built-in ZigBee
As required	SC3504E5045	Relay Pack (with SER8300)
As required	SED-DOR-P-5045	Wireless door switch
As required	SED-WIN-P-5045	Wireless window switch
As required	SED-WDS-P-5045	Wireless window and door switch
As required	SED-WDC-G-5045	Wireless window/door sensor
As required	SED-CMS-P-5045	Wireless ceiling mounted motion sensor
As required	SED-WMS-P-5045	Wireless wall mounted motion sensor
As required	SED-MTH-G-5045	Wireless motion/temperature/humidity sensor
As required	SED-WLS-G-5045	Wireless water leakage sensor
As required	HRCPDG42R	HRC 42 IO, Display
As required	HRCPBG28R	HRC 28 IO, No Display
As required	HRCEP14R	Expansion Module, 14 IO
As required	RSZE1S48M	RS Socket
As required	RSB1A160B7	RS Plug-in Relay, 1 Pole, 16A, 24 Vac, 50/60 Hz
As required	RSB1A160BD	RS Plug-in Relay, 1 Pole, 16A, 24 Vdc
As required	SXWADBUND10001	Advanced Display, 10-inch, Bundle Kit: Advanced Display tablet unit & mount
As required	ETA-U90JWE-1	USB Power adapter (optional for Bedside Panel)
As required	ET-UP900	Micro USB to RJ45 adapter (optional for Bedside Panel)
As required	SXWAUTSVR10001	AS Automation Server
As required	SXWTBASW110001	Terminal Base Automation Server
As required	SXWPS24VX10001	Power Supply, 24 Vac/21-30 Vdc
As required	SXWTBPSW110001	Terminal Base Power Supply

SOFTWARE REQUIREMENTS

Software	Version	Comment
EBO Enterprise Server	1.7.1	Download from Schneider Electric Exchange.
EBO Enterprise Server License	1.7.1	SXWSWESXX00001: Provided by Schneider Electric
EBO Work Station	1.7.1	Download from Schneider Electric Exchange.
EBO Work Station Pro License	1.7.1	SXWSWORK00002: Provided by Schneider Electric
EBO License Administrator	1.7.1	Download from Schneider Electric Exchange.
EBO SER/SE8300 Widget	1.0	Provided by Schneider Electric
MiddleWare Smart Connector	2.0.11	Provided by Schneider Electric
Micros Fidelio	N/A	IFC_SXU 5007-134: Provided by User

NOTES AND LIMITATIONS

The notes and limitations are configured to August 1, 2016.

HVAC

All low voltage applications must be controlled by the SE8300 Room Controller, and all line voltage applications must be controlled by the SER8300 Room Controller and SC3000 Relay Pack. For full service, a TC500 can be used as an alternative to the SER/SE8300 Room Controller.

Lighting

Lighting switches and lights must be wired to the Hotel Room Controller (HRC). Light scenes are enabled with the HRC and EcoStruxure™ Building Operation (EBO) via BACnet. Only HRC I/Os for HVAC, lights, curtain, scenes and DND/MUR are monitored and controlled through EBO.



The current limitation for the relays in the HRC is 3A/1A, with a maximum in-rush current of 12A. Always ensure these are compatible with the load, especially the in-rush current, which is several times larger than the operational current. It is highly recommended to add an extra relay between the on-board relay and the load, such as a 16A relay socket.

Dimming

For dimming, the current HRC only supports 0-10V. However, there may be cases of compatibility issues for certain dimming drivers, and therefore, it is recommended to test the compatibility in advance. In case of compatibility issues, adding a resistor (600Ω, 0.5W) in parallel with the dimming drive may solve the issue.

BMS/PMS

All wired integration for the SER/SE8300 Series Room Controller and HRC to EBO must be wired via BACnet IP according to the following:

- No Automation Server (AS) required for applications with less than 200 rooms
- Automation Server required for applications with greater than 200 rooms

The Enterprise Server (ES) is required for both scenarios.

Add-ons

Wired Key-card switch can be added if required.

Output Contacts

The current rating for the output contacts of the HRC is strictly valid when driving resistive loads (contactors or relays). The output relays of the HRC are not designed to withstand the high in-rush current generated by capacitive or inductive loads such as LED drivers and other devices using an electronic PCB. Using the HRC with such devices will result in failure of the HRC output contacts and may damage the connected equipment. In case such type of equipment must be used as a Controller, a pilot relay such as the Schneider Electric Zelio RSB series with the proper current rating should be used.

Section 2 - Configure Hotel Room Controller

To add functionality, such as lighting scenes and control, DND/MUR, and curtain control, the HRC must be integrated into the solution. The HRC is connected, via Modbus, to the SE8300 Series Room Controller and is connected to EBO via BACnet IP. Configuration of the HRC is accomplished via a web interface, allowing the User to configure the HRC according to specific requirements.

HOTEL ROOM CONTROLLER WIRING

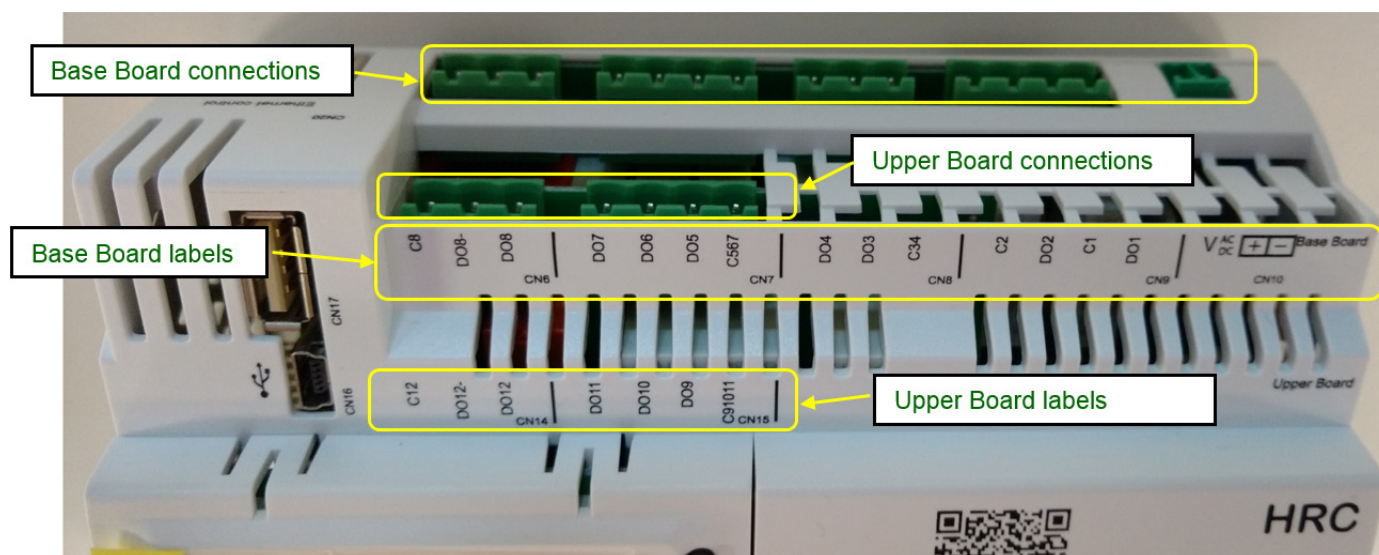


It is essential to wire the Hotel Room Controller correctly for this application. If a negative voltage is applied to any of the Outputs, the HRC will be damaged and none of the Outputs will operate anymore. Refer to the following best practices before wiring the HRC:

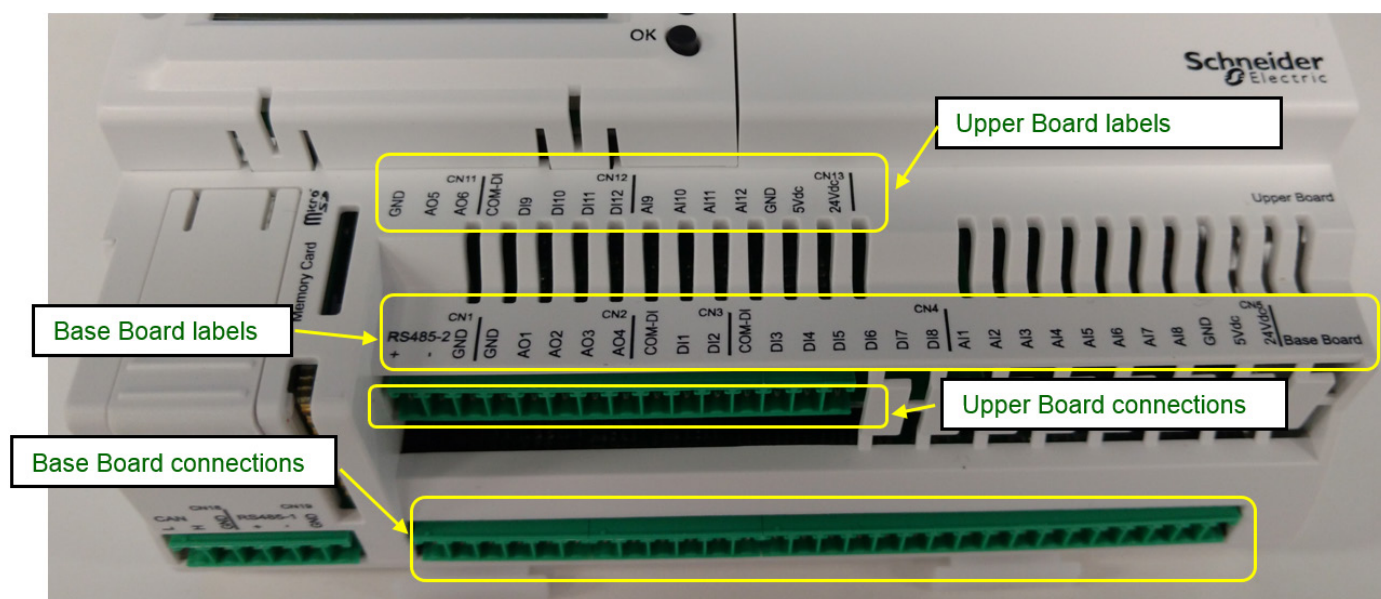
- Read all HRC labels carefully on the 42 I/O model so that **Upper board** connections are not confused with the **Base board** connections.
- Power the HRC before connecting any device to the HRC Inputs or Outputs.

Always use the terminal blocks as shown in the illustration below. Incorrect wiring of the HRC can cause permanent damage to the device.

Inputs



Outputs



ACCESS HOTEL ROOM CONTROLLER

The default IP address of the HRC is 10.0.0.100.

1. Using web browser, navigate to IP address of HRC.
2. For Username, enter **administrator (default)**.
3. For password, enter **password (default)**.
4. Click **System** tab.
5. Configure the following:
 - IP address (**NOTE:** IP address must be unique for each HRC on the network)
 - Subnet mask
 - Default gateway
6. Under BACnet settings, set device to unique setting.
NOTE: this must be a unique number between 1 - 65,535.
7. Name device HRC_xx_yy
NOTE: xx= floor number and yy=room number
8. Click **Save**. The HRC reboots and comes back online with the new IP address.

Schneider Electric Monitor Configure System Help

Network

IO Module

DateTime

User Account

Reboot

Factory Default

System Info

IP Network

IP address:	10.50.111.190
Subnet mask:	255.255.0.0
Default gateway:	10.0.0.1

BACNet Setting

Device ID	1
Device Name	HRC_01_01

Save

9. On SER/SE8300 Series Room Controller, navigate to Modbus screen 1/1 and enter the following:

- COM address: 80
- Network units: Imperial
- Baud rate: 9600
- Parity: Odd

1/1 Modbus Network

Com address	80
Network units	Imperial
Baud rate	9600
Parity	Odd

Navigation icons: Left arrow, Right arrow, Home icon, Down arrow, Up arrow

10. Using the new IP address, log back into HRC and use the various configuration screens to configure device according to necessary requirements.

NOTE: the following pages can be used as reference pages when configuring the Hotel Room.

MONITOR PAGE

The Monitor Page shows the User the actual state of any inputs, outputs and scenes, as well as the SER/SE8300 Series Room Controller status. Verify Room Controller (thermostat) is online.

Schneider Electric | **Monitor** | **Configure** | **System** | **Help**

Digital Outputs:

DO1	DO2	DO3	DO4	DO5	DO6
DO7	DO8	DO9	DO10	DO11	DO12
Ext4-DO1	Ext4-DO2	Ext4-DO3	Ext4-DO4	DND	MUR

Digital Inputs:

DI1	DI2	DI3	DI4	DI5	DI6
DI7	DI8	DI9	DI10	DI11	DI12
AI1	AI2	AI3	AI4	AI5	AI6
AI7	AI8	AI9	AI10	AI11	AI12
Ext4-DI1	Ext4-DI2	Ext4-DI3	Ext4-DI4	Ext4-AI1	Ext4-AI2
Ext4-AI3	Ext4-AI4				

Analogue Outputs:

AO1 (0-10v)	AO2 (0-10v)
AO3 (0-10v)	AO4 (0-10v)
AO5 (0-10v)	AO6 (0-10v)
Ext4-AO1 (0-10v)	Ext4-AO2 (0-10v)

Scene Control:

Scene 1 | Scene 2 | Scene 3 | Scene 4 | Scene 5 | Scene 6 | Scene 7 | Scene 8

Room Status:

CLOSE | NONE | LOCALDEC | **ONLINE**

Door | Motion | Occupancy | Thermostat

IO Modules:

IO1 | IO2 | IO3 | **IO4** | **IO5** | IO6

CONFIGURATION PAGE

The Device tab lets the User define and associate physical devices (lights, curtain) to the HRC configuration table. Additionally, this page is used to set the room numbers as shown below.

Monitor
Configure
System
Help

Device

Scene

Input

HVAC

Keycard-less

Others

Room

Save

Import

Export

Light

NO	Name	Output
1	corridor emergency C1	DO1
2	corridor spot C2	DO2
3	bathroom mirror light C5	DO5
4	bathroom LEDs C7	DO6
5	Hallway C18	DO7
6	KT	DO8
7	bedroom spot C13	DO9
8	bedroom windows LEDs C15	DO10
9	Night light C6 C16	DO11
10	bedroom fan and spot C4	Ext4-DO1
11	Package C3	Ext4-DO2
12	TV background C17	Ext4-DO3
13		
14		
15		
16		

Dimmer

NO	Name	Output	Power Off Relay (option)	Min Voltage(0-10v)	Max Voltage(0-10v)	Dimming Cycle(s)
1	bedroom spot C8	AO1		3	10	7
2	bedroom lamp C9	AO2		3	10	7
3	left reading C11	AO3		3	10	7
4						
5						
6						
7						
8						

Curtain

NO	Name	Run Time (s)	Output (Open)	Output (Close)
1	19 bedroom	10	DO3	DO4
2		10		
3		10		
4		0		
5		0		
6		0		
7		0		
8		0		

DND MUR

Name	Output	Light Level (0-10V)
DND	AO4	10
MUR	AO5	10

BELL

Name	Output
BELL	DO12

Schneider
Electric

MonitorConfigureSystemHelp

Room801

SaveImportExport

Master On

Device	Value
corridor emergency C1	On
corridor spot C2	On
Package C3	On
bedroom spot C8	100
bedroom lamp C9	100
left reading C11	100
right reading C12	100

Master Off

Device	Value
corridor emergency C1	Off
corridor spot C2	Off
Package C3	Off
bedroom spot C8	0
bedroom lamp C9	0
left reading C11	0
right reading C12	0

Welcome

Device	Value
corridor emergency C1	On
corridor spot C2	On
Package C3	On
bedroom fan and spot C4	On
TV background C17	On
bathroom mirror light C5	On
bathroom LEDs C7	On
bedroom spot C8	100
bedroom lamp C9	100
Table lamp C10	100
left reading C11	35
right reading C12	100
bedroom spot C13	On
bedroom light C14	40
bedroom windows LEDs C1	On
Night light C6 C16	Off
Hallway C18	On

Welcome Night

Device	Value

TV


Device	Value
corridor emergency C1	Off
corridor spot C2	Off
Package C3	Off
bedroom fan and spot C4	Off
TV background C17	Off
bathroom mirror light C5	Off
bathroom LEDs C7	Off
bedroom spot C8	0
bedroom lamp C9	0
Table lamp C10	0
left reading C11	0
right reading C12	0
bedroom spot C13	Off
bedroom light C14	50

SPA

Device	Value
corridor emergency C1	Off
corridor spot C2	On
Package C3	Off
bedroom fan and spot C4	On
TV background C17	Off
bathroom mirror light C5	On
bathroom LEDs C7	On
bedroom spot C8	20
bedroom lamp C9	20
Table lamp C10	20
left reading C11	20
right reading C12	20
bedroom spot C13	Off
bedroom light C14	40

INPUT

The Input tab lets the User define the behavior of the different inputs such as toggle a light, dimming, curtain control, toggle scene, and setpoint.


Monitor
Configure
System
Help

Room

Device

Scene

Input

HVAC

Keycard-less

Others

Save

Import

Export

Input Mapping

No.	Function	Physical Input	Target
1	Dimming (2 Gang) ▼	<div> <div>+</div> <div>DI5 ▼</div> </div> <div> <div>-</div> <div>DI6 ▼</div> </div>	Dimmer ▼
2	Toggle Light ▼	DI2 ▼	Living 1 ▼
3	Toggle Light ▼	DI3 ▼	Living 2 ▼
4	Toggle Light ▼	DI4 ▼	Bedroom1 ▼
5	Toggle Light ▼	DI1 ▼	Main ▼
6	Night Light ▼	DI7 ▼	<div> <div>Light</div> <div>Off delay(s[0-255])</div> </div> <div> <div>Living 2 ▼</div> <div>120</div> </div>
7	Toggle Light with On/Off but ▼	DI9 ▼	Living 1 ▼
8	Toggle Scene with On/Off bu ▼	DI8 ▼	<div> <div>scene 1</div> <div>Master On ▼</div> </div> <div> <div>scene 2</div> <div>Master Off ▼</div> </div>
9	▼		
10	▼		
11	▼		
12	▼		
13	▼		
14	▼		
15	▼		
16	▼		
17	▼		
18	▼		
19	▼		
20	▼		

KEYCARD-LESS

The Keycard-less tab lets the User define the behaviour of the HRC based on occupancy status of the SER/SE8300 Series Room Controller. It also allows for the use of various scenes such as Welcome, Welcome-day and Welcome-night.

[Monitor](#)
[Configure](#)
[System](#)
[Help](#)

Device

Scene

Input

HVAC

Keycard-less

Others

Room

Save

Import

Export

☒ Enable Keycard-less function

Door status :

Door status from Kaba

Occupancy status :

Occupancy from SE8000

Delay when room goes to **UnOccupied mode**

min

☒ Enable **Restore** mode

☐ use **Day Welcome** and **Night Welcome** instead of Welcome

Scene	Start Time
Welcome Day	<input type="text" value="08 : 00 AM"/>
Welcome Night	<input type="text" value="06 : 00 PM"/>

Staff Scene

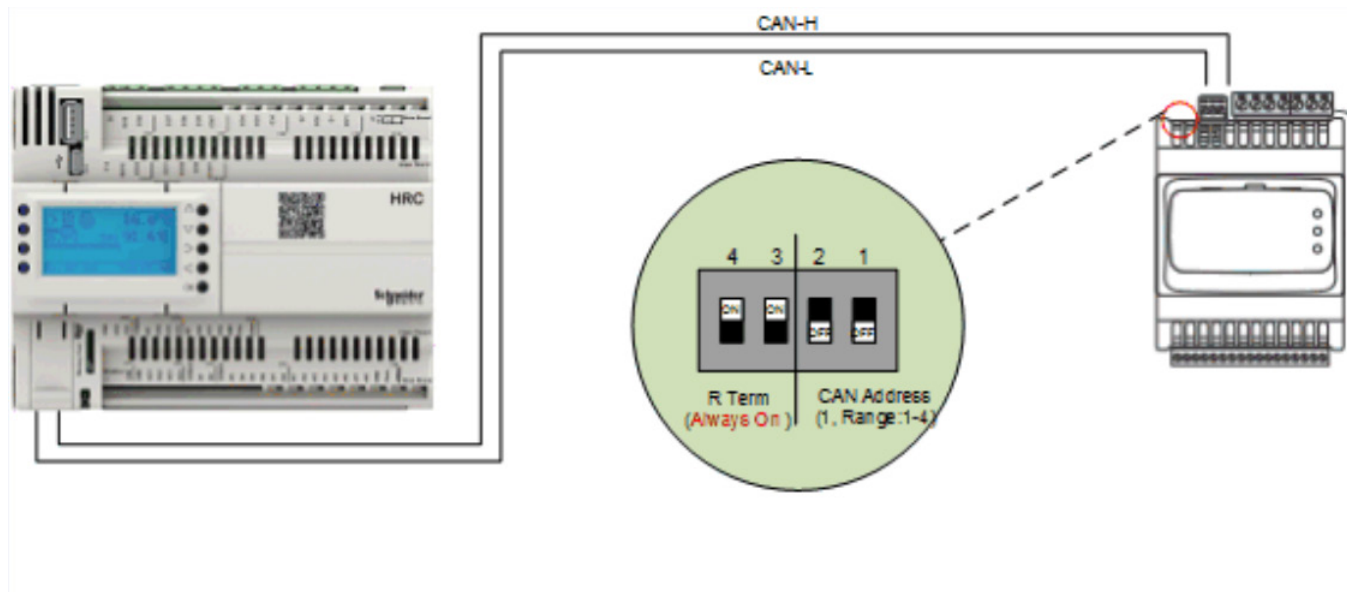
Master On

I/O EXTENSION

Wiring

The I/O Extension is connected to the HRC over CANbus. Make sure to configure the dip switches as shown below. The HRC and I/O Extension must be rebooted (power cycled) after configuring the dip switches.

Ensure the I/O Extension displays “Online” in the HRC configuration webpage.

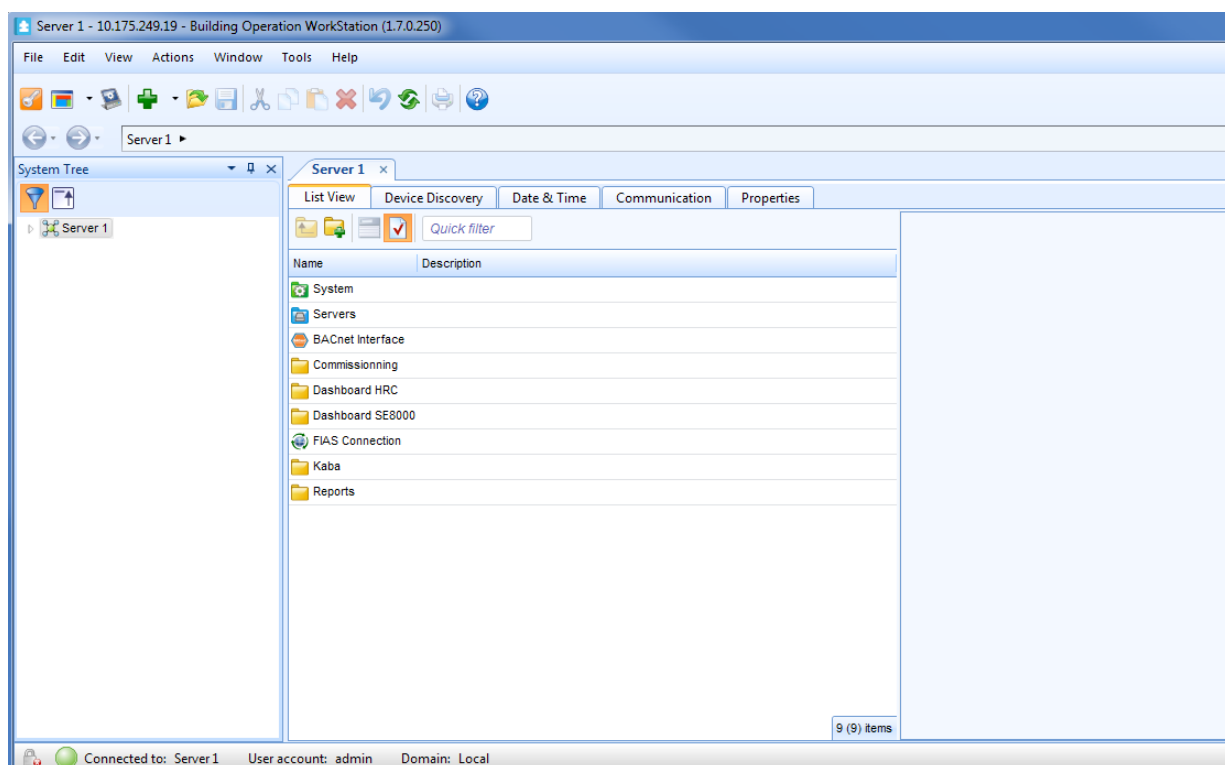


Section 3 - Integration to EBO

The HRC communicates to EBO using BACnet IP. All points must be discovered in EBO before they can be bound to the various widgets in the GRMS.

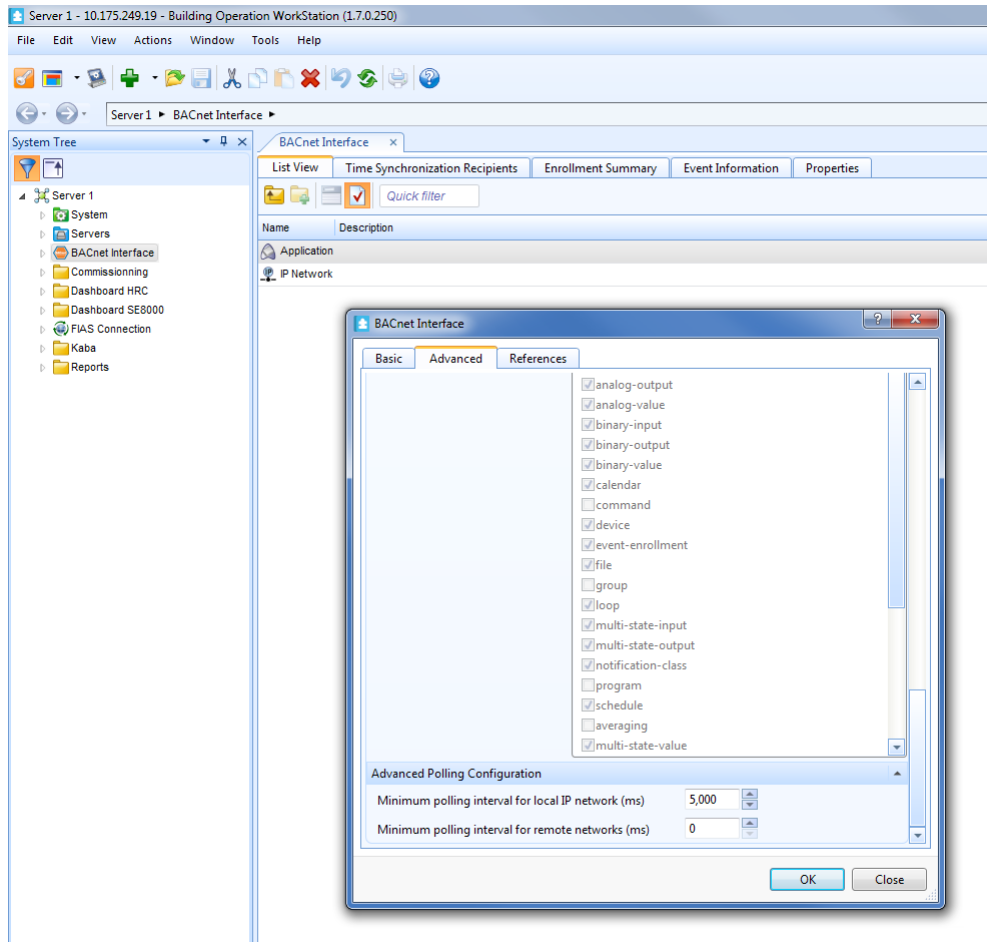
BACNET NETWORK DEVICE DISCOVERY

1. Start Building Operation Work Station session.



EBO Configuration

1. Create new BACnet interface.
2. Configure polling interval to 5000 milliseconds.
3. Right click in enterprise server and do a cold start.



4. On System Tree, click **Automation Server**.
5. On right pane, click **Device Discovery** tab.
6. In drop-down menu, select **BACnet devices**.
Note: this launches discovery of BACnet devices accessible from this automation server.
Note: when devices list appears, make sure HRC to be integrated shows.
7. Click HRC to integrate and drag it to left pane in **IP Network** under **BACnet Interface**.
Note: a message shows that reads "Upload is required to host objects in device".
8. Click **OK**.
Note: the HRC is now part of the IP network of the BACnet interface of the Automation Server. This shows in the left pane.
9. Right click on HRC and select **Device > Upload all Objects**.

10. Upload Objects for all devices.
11. Right-click on device and navigate to **Note1** field.
12. In **Note1** field, enter room number.
NOTE: this room number will be displayed on the dashboard for each room.
13. Click **OK**.

The screenshot shows a configuration window titled "HRC_01_01" with three tabs: "Basic", "Advanced", and "References". The "Basic" tab is active and contains two sections: "General Information" and "Status Information".

General Information

Name	HRC_01_01
Description	
Type	BACnet device
Modified	03/06/2016 9:24:10 AM
Note 1	101
Note 2	
Validation	None

Status Information

System status	Operational
Database revision	0
Status	Online
Device changed	False
Local time	04/06/2015 5:18:48 PM

At the bottom right of the window are "OK" and "Close" buttons.

Section 4 - PMS Integration

MICROS FIDELIO INTERFACE

Through Integration with Micros FIAS-based PMS, Schneider Electric has integrated the most widely used PMS in the industry employing Micros Fidelio and Micros Opera. Micros, a subsidiary of Oracle, is the developer of the Opera PMS and Fidelio PMS software suites. Both suites offer the Fidelio Interface Application Specification (FIAS) which allows integration to third-party systems.

EBO integrates with a FIAS PMS solution and extracts specific critical information from the PMS, and uses it to help manage the occupancy status of the guest rooms. Full integration is done using EBO SmartConnector. Also, processors have been configured to operate with the SmartConnector Service build 2.0.11. Use with any other version of the SmartConnector Service will cause errors.

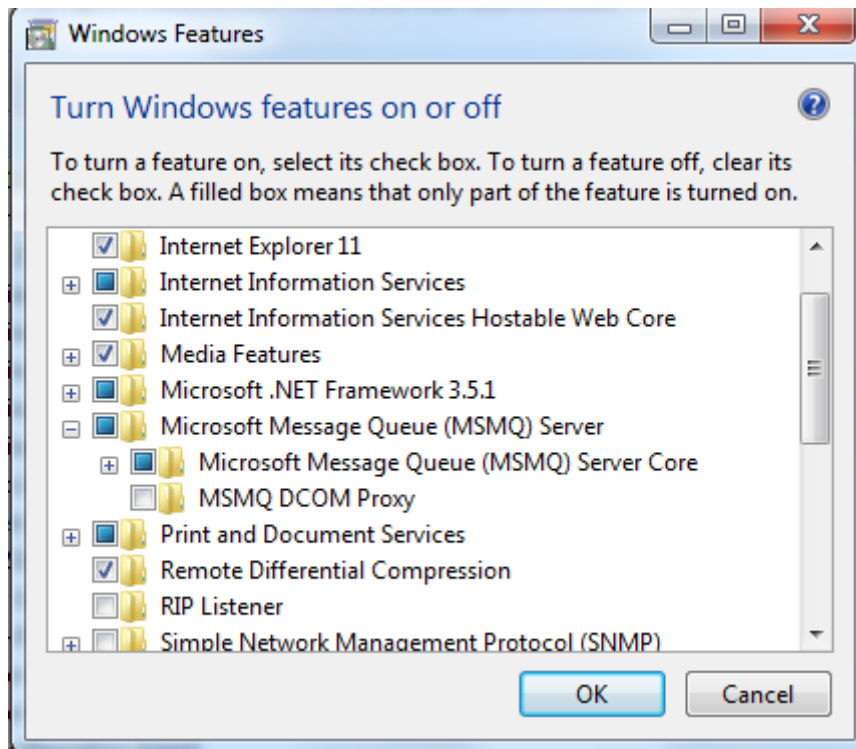
Pre-Requisites

The following must be completed before starting this procedure:

- Smart Connector is installed.
- Before running any of the Processors, make sure MSMQ is enabled on the workstation as it is required for collecting messages from the FIAS PMS.

Enable MSMQ

1. Navigate to Control Panel and click **Program and Features**.
2. On left side, click **Turn Windows** features ON or OFF (on the left hand side).
3. In pop-up window, search for **Microsoft Message Queue (MSMQ) Server** and expand.
4. Expand MSMQ Server Core and check the following boxes if they are not already checked:
 - MSMQ Active Directory Domain Services Integration.
 - MSMQ HTTP Support.

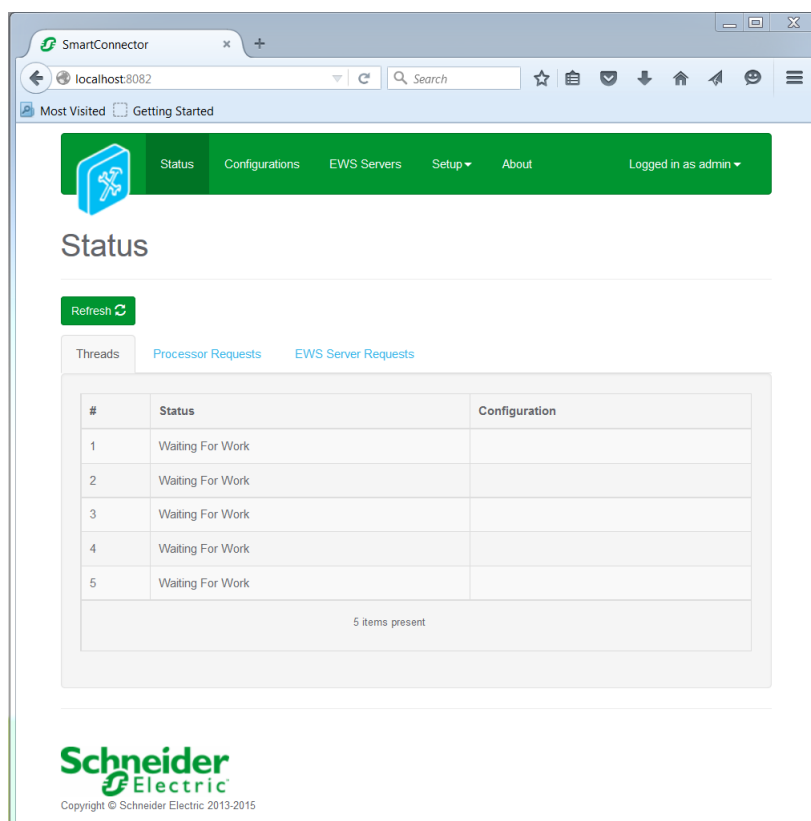


MICROS FIAS CONFIGURATION

The Smart Connector configuration tool is packaged in a Windows Installer file. To deploy the custom processor copy the file "ISCUK.MicrosFIAS.dll" into the service installation directory. The directory is normally "C:\ProgramFiles(x86)\Schneider Electric\SmartConnector"

NOTE: For this example, the configuration page is accessed locally and uses default port 8082.

1. Open Browser and enter **http://localhost:8082** in address bar to access SmartConnector Management portal.



2. Scroll over **Configurations** tab and select **Add New+**.
3. Select **ISCUK.MicrosFIAS**.

4. Complete all fields with necessary information.

SmartConnector

localhost:8082/AddConfiguration

Most Visited Getting Started

Status Configurations EWS Servers Setup About Logged in as admin

Add Configuration

Back Next Cancel

Step 1 - Pick an assembly

ISCUK.MicrosFIAS	2 candidates
Mongoose.Process	3 candidates

Assembly Description

Assembly Company

Schneider Electric

Assembly Copyright

Copyright © Schneider-Electric 2015

Assembly Version

2.3.0.0

Schneider Electric

Copyright © Schneider Electric 2013-2015

5. Click **Next** to proceed to Step 2 and ensure class **ISCUK.MicrosFIAS.FiasProcessor** is selected.

ISCUK.MicrosFIAS.FiasProcessor

6. Click **Next** to proceed to Step 3 (refer to below screen).
7. Enter meaningful name and description for Processor.
8. Click **Finish** and proceed to Configuration screen.

The screenshot shows a web browser window with the address bar displaying 'localhost:8082/AddConfiguration#'. The browser's address bar also contains a search icon and a search input field. The page title is 'SmartConnector'. The main navigation bar is green and contains the following links: Status, Configurations, EWS Servers, Setup, and About. The user is logged in as 'admin'. The main content area is titled 'Add Configuration' and features a 'Back' button, a 'Finish' button, and a 'Cancel' button. Below the buttons, the page is divided into sections for 'Name', 'Description', 'Assembly File', and 'Class Name'. The 'Name' field contains the text 'FIAS Connection to receive data'. The 'Description' field contains the text 'Establish connection with the Server to collect data'. The 'Assembly File' field contains the path 'C:\Program Files (x86)\Schneider Electric\SmartConnector\ISCUK.MicrosFIAS.dll'. The 'Class Name' field contains the text 'ISCUK.MicrosFIAS.FiasProcessor'. At the bottom of the page, the Schneider Electric logo is displayed, along with the copyright notice 'Copyright © Schneider Electric 2013-2015'.

SmartConnector

localhost:8082/AddConfiguration#

Most Visited Getting Started

Status Configurations EWS Servers Setup About Logged in as admin

Add Configuration

Back Finish Cancel

Step 3 - Name Configuration

Name

FIAS Connection to receive data

Description

Establish connection with the Server to collect data

Assembly File

C:\Program Files (x86)\Schneider Electric\SmartConnector\ISCUK.MicrosFIAS.dll

Class Name

ISCUK.MicrosFIAS.FiasProcessor

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9. In Configuration window select **Details Tab**.
10. Set **IP Address** and **Port Number**.
NOTE: set these properties to Server's IP Address and Port Number respectively to establish connection to FIAS server.
11. Set **Heartbeat** and **Read Write Time Out**.
NOTE: set these properties to a non decimal number.
12. Click **Save**.

Processor Details Control History Schedule

Expand All Collapse All

Details

IP Address *

Port Number *

5040


Heartbeat Mins *

1

Read Write Time Out *

2000




13. Navigate to **Control** tab.
14. Set **Runs on Start** to YES.





StatusConfigurationsEWS ServersSetup ▾About


Logged in as admin ▾

Configuration


Edit All Stop Validate 


NameFIAS Processor 


Is ActiveYes ▾ 


DescriptionEstablish connection with FIAS PMS server to collect data 


ProcessorDetailsControlHistorySchedule

Runs On StartYes ▾ 

Runs On ScheduleNo ▾ 

Manually StartableYes ▾ 

Manually StoppableYes ▾ 



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www.schneider-electric.com/buildings

August 2018

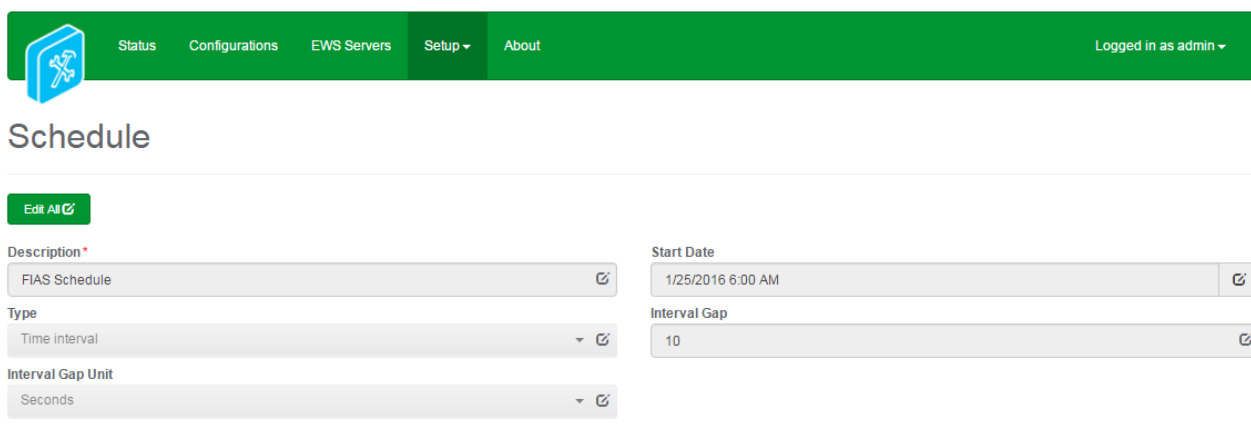
15. Repeat Steps 2 - 16 for second processor.
NOTE: ensure class ISCUK.MicrosFIAS.FIASManager is selected.
16. Click **Finish** and proceed to Configuration screen.
17. Enter necessary information in required fields.

ISCUK.MicrosFIAS.FIASManager

18. Scroll over **Configurations** and select **Details**.

19. Set User Name.
NOTE: this property is required to allow the EWS server connection to be authenticated. It is recommended to use a specifically generated User credential in the EcoStruxure Building Operation system for this interface.
20. Set Password.
NOTE: related to User credentials.
21. Set End Point Address.
NOTE: set property to the full address required to access EWS interface. This is normally the case of a EcoStruxure ES or AS device as http://[SERVERNAME]:[PORT(57625)DEFAULT]/DataExchangeFias. **Note the address is case sensitive.**
22. Click **Save**.

23. Navigate to top Setup tab and click Schedule.
24. Create Schedule for Manager to run at 10 seconds intervals.



Schedule

[Edit All](#)

Description*

FIAS Schedule

Start Date

1/25/2016 6:00 AM

Type

Time interval

Interval Gap

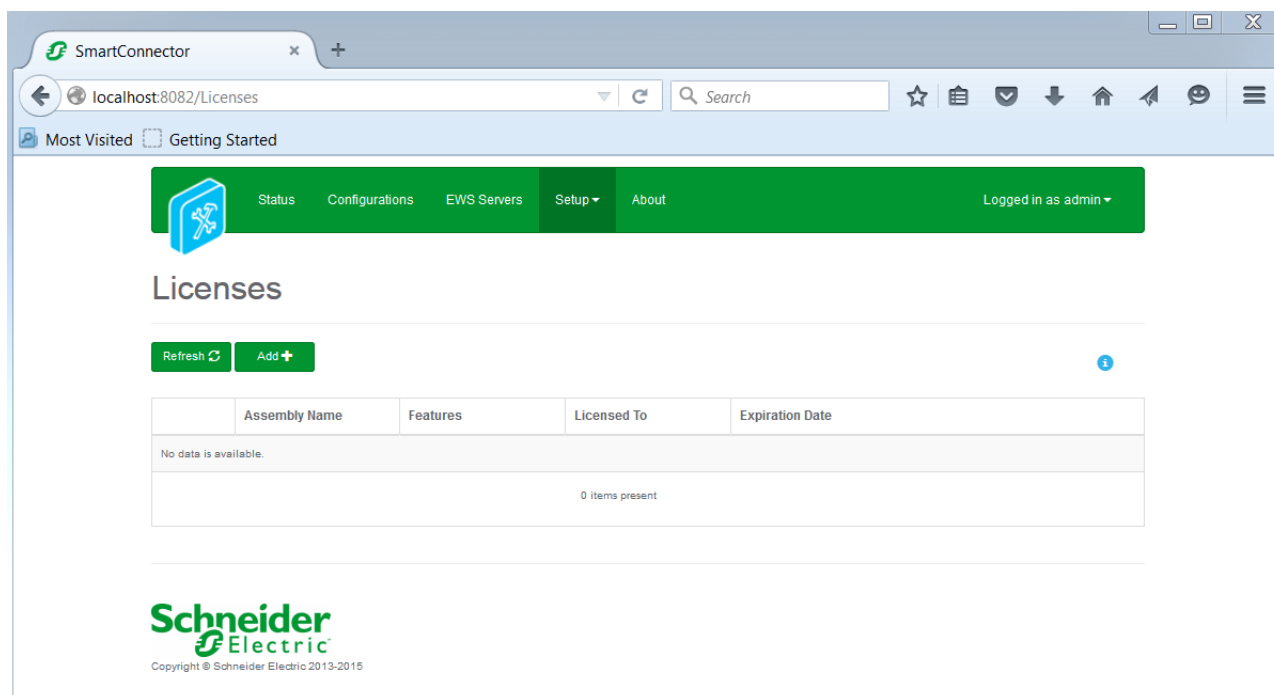
10

Interval Gap Unit

Seconds



25. Navigate to **Setup** tab and select **Licenses**.
 26. Click **Add** and import License file.
- NOTE:** License shows as a new entry. Once added to SmartConnector, license files are not longer needed. However, they should be stored in a safe place for backup purposes.



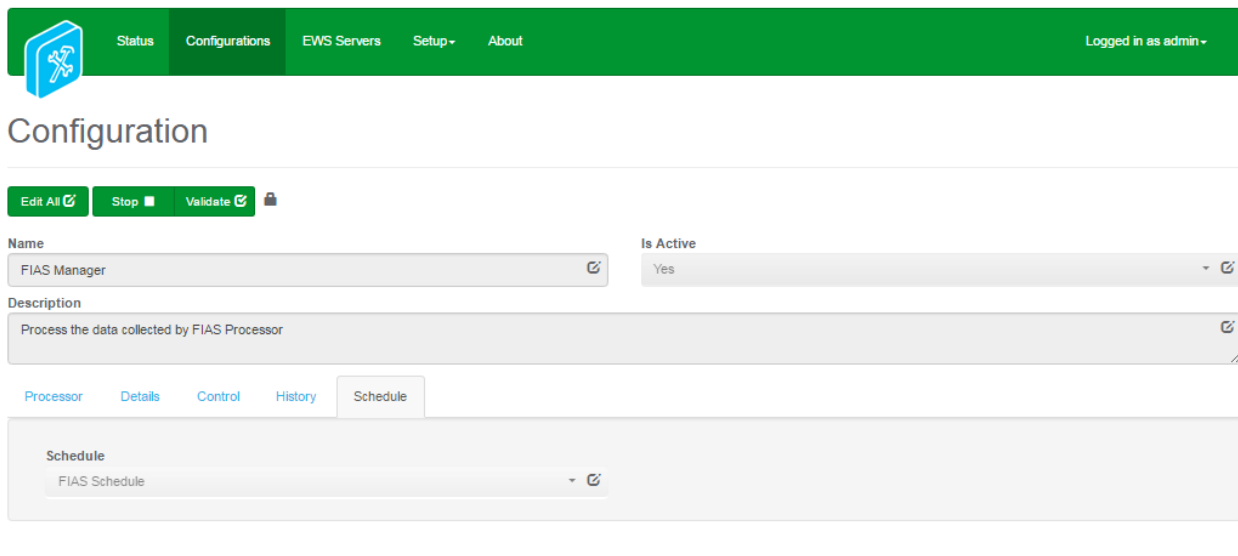
Licenses

[Refresh](#) [Add](#)

Assembly Name	Features	Licensed To	Expiration Date
No data is available.			
0 items present			

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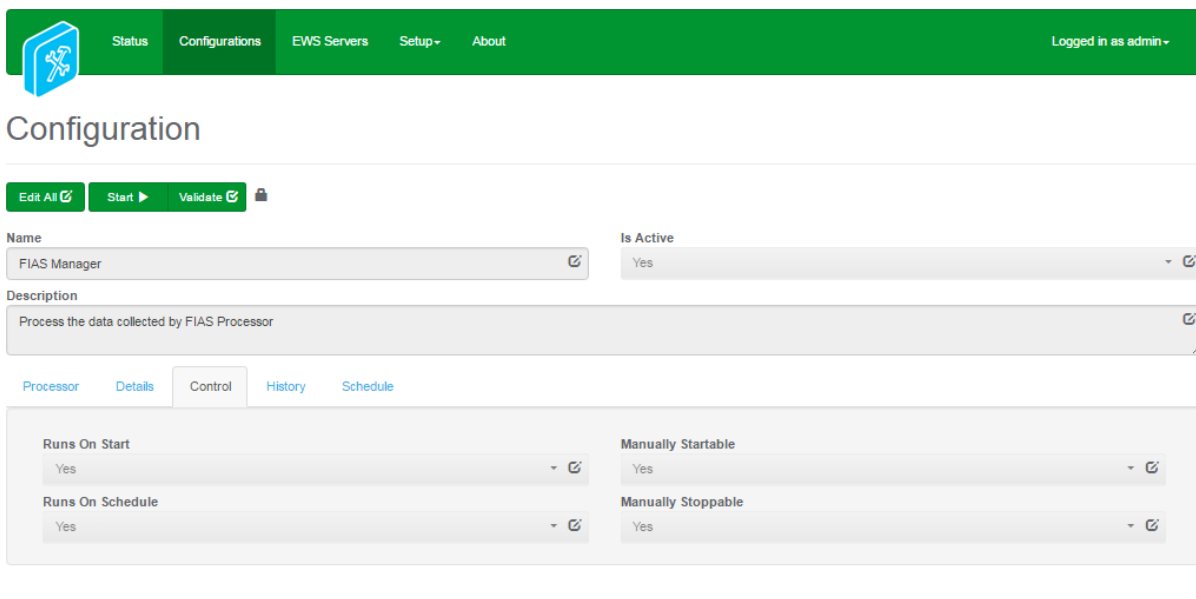
27. Navigate to **FIAS Manager** configuration.
28. Navigate to **Schedule** tab.
29. Select **FIAS Schedule**.



The screenshot shows the FIAS Manager configuration interface. At the top is a green navigation bar with a logo and links: Status, Configurations, EWS Servers, Setup, and About. The user is logged in as admin. Below the navigation bar is the 'Configuration' section. It features a toolbar with 'Edit All', 'Stop', and 'Validate' buttons. The main content area has a 'Name' field set to 'FIAS Manager' and an 'Is Active' dropdown set to 'Yes'. The 'Description' field contains 'Process the data collected by FIAS Processor'. Below these fields are tabs for 'Processor', 'Details', 'Control', 'History', and 'Schedule'. The 'Schedule' tab is selected, showing a 'Schedule' dropdown set to 'FIAS Schedule'.



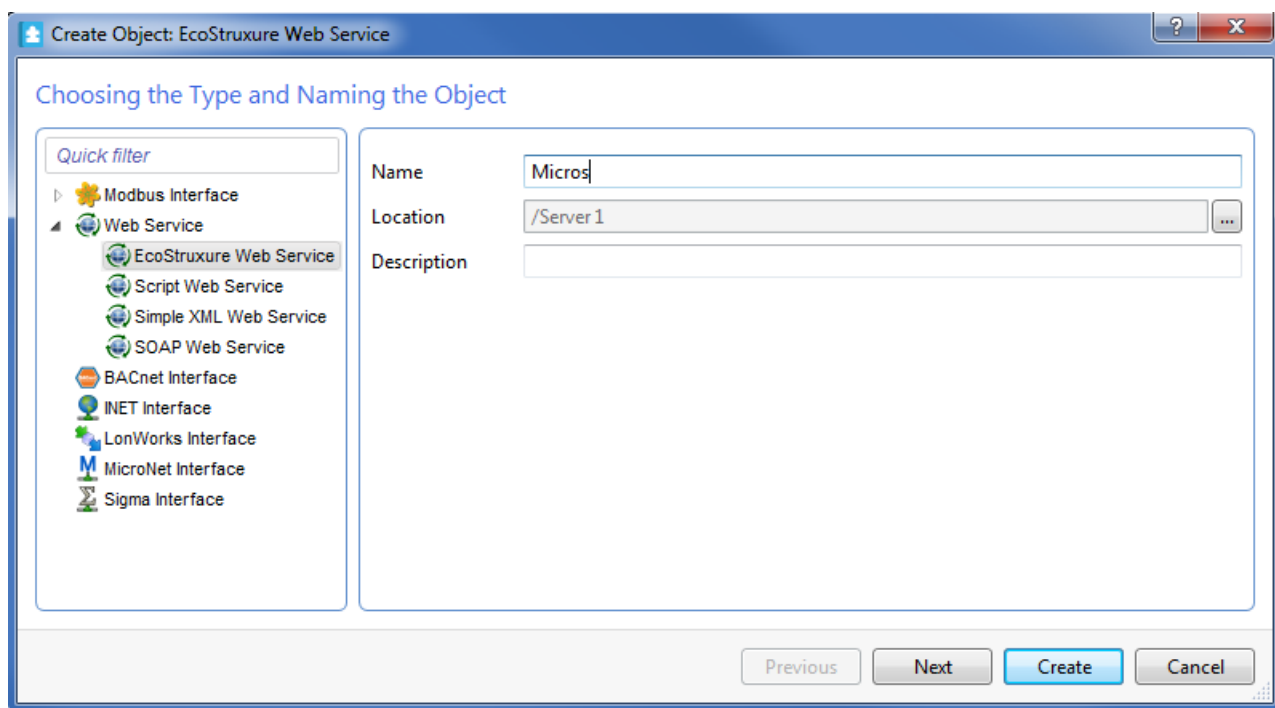
30. Navigate to **Control** tab.
31. Configure FIAS Manager to **Runs on Start** and **Runs on Schedule**.



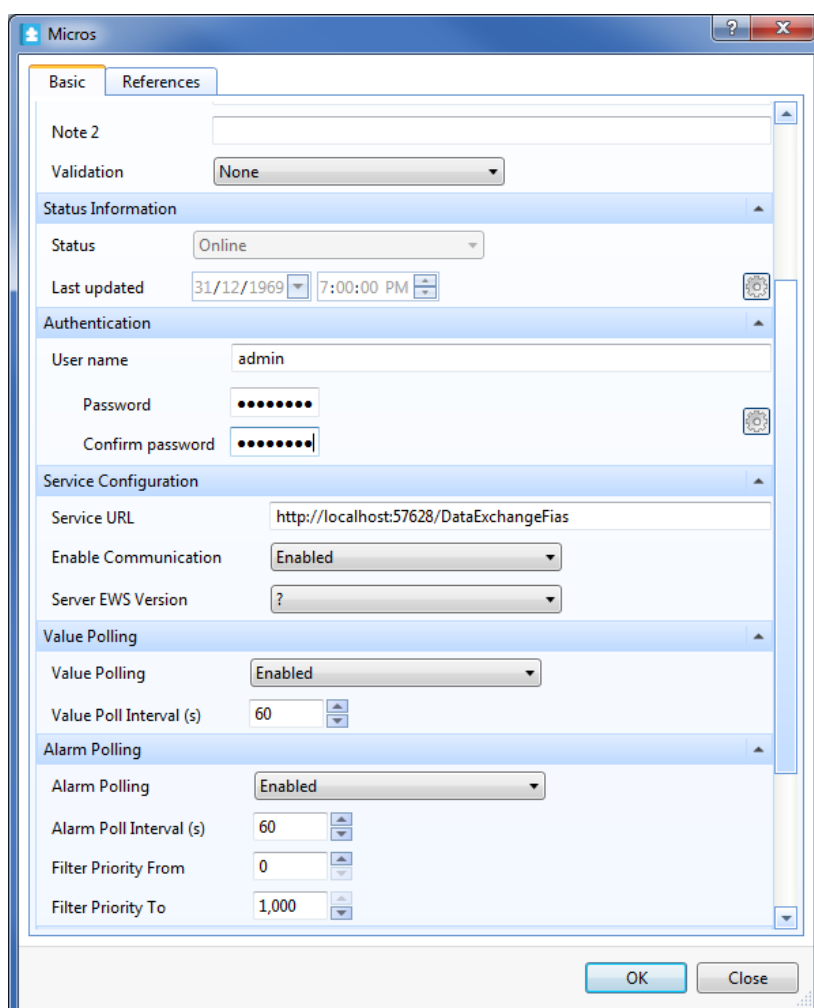
The screenshot shows the FIAS Manager configuration interface, now with the 'Control' tab selected. The navigation bar and top section are identical to the previous screenshot. The 'Control' tab is active, showing four configuration options: 'Runs On Start' (Yes), 'Runs On Schedule' (Yes), 'Manually Startable' (Yes), and 'Manually Stoppable' (Yes). Each option has a dropdown menu and an edit icon.



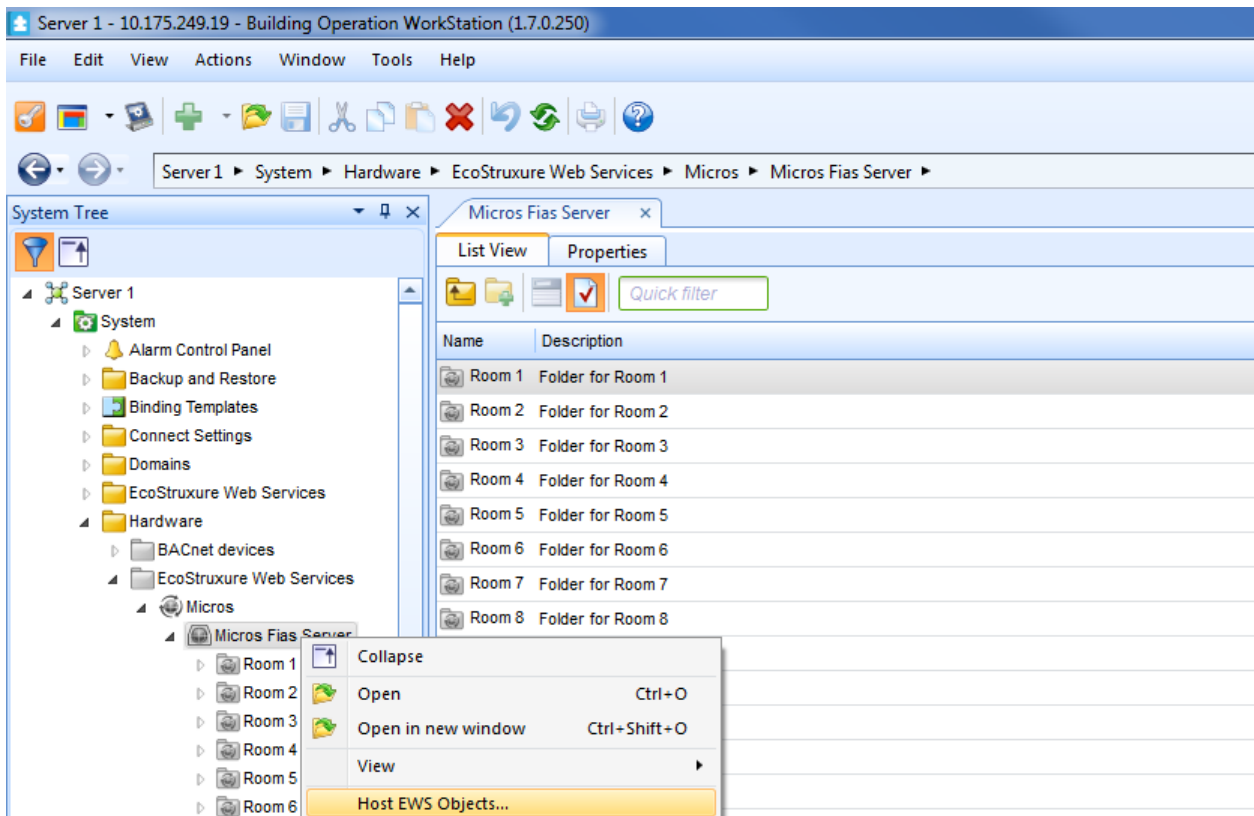
32. In the Enterprise Server, select **EcoStruxure Web Service** to create a new interface.
33. Enter logical name and click **Create**.



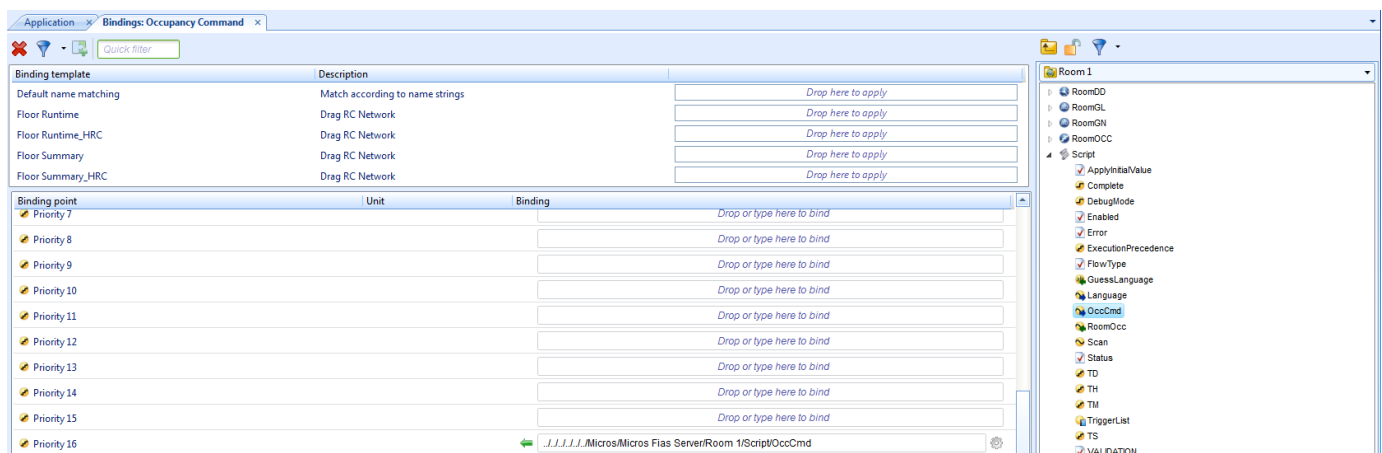
34. In **Server 1** tree, right-click **EcoStruxure Web Service** and navigate to **Properties**.
35. Set **Service URL** using the **End Point Address** from step 19.
36. Configure Username and Password from steps 17-18 and click **OK**.



37. Browse to **Server 1/System/Hardware/EcoStruxure Web Services**.
38. Ensure **Micros Fias Server** shows in tree.
39. Right-click **Micros Fias Server** and select **Host EWS Objects**.



40. Select correct EcoStruxure Web Service.
41. Verify complete Guest Room list from Micros Fias database is displayed.
42. Browse to each room and import Micros PMS script.xml.
43. Navigate to each HRC device in BACnet IP network.
44. Navigate to **Occupancy Command** Object and Edit Bindings.
45. In right side window, navigate to Micros PMS script associated for necessary Guest Room.
46. Drag-and-drop **OccCmd** to Occupancy Command/Priority16 Binding point and click **Save**.



47. Navigate to **Display Language** Object and repeat step 37 using **Language** Object from Micros PMS script.
48. Repeat steps 31 - 38 for each HRC device on BACnet IP network.

Section 6 - Door Lock Integration

DOOR LOCK

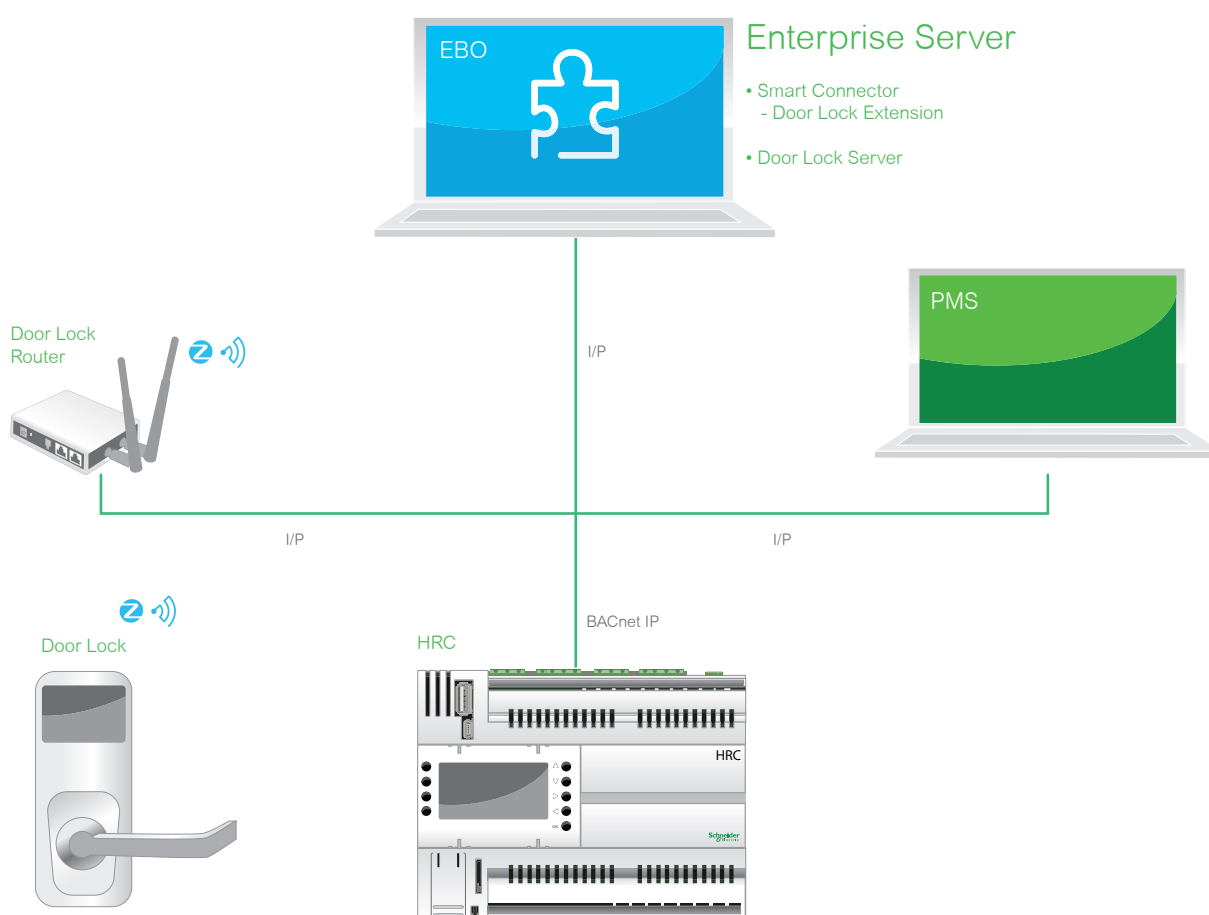
Integration with Door Lock provides the following:

- Triggers welcome scene when the door is opened by the guest for the first time.
- Triggers restore scene when the door is opened by guest for the second time, and subsequent times.
- Triggers “Maid Service” scene when room is accessed by cleaning staff.
- Sets DND to ON when door is dead-bolted.
- Reports door lock online status and triggers alarm in EBO when door lock is offline.
- Reports door lock status at any time.
- Reports door battery status and triggers alarm in EBO when door lock battery is low.

ARCHITECTURE

The solution is based on the Smart Connector framework. By installing a Door Lock extension in Smart connector, it enables communication between the Door Lock server and EBO.

Since the solution is performed on the server side, it is not applicable if the Door Lock is not online nor connected to the central management system. All paths involved in the event communication are based on the Change of Value (COV).

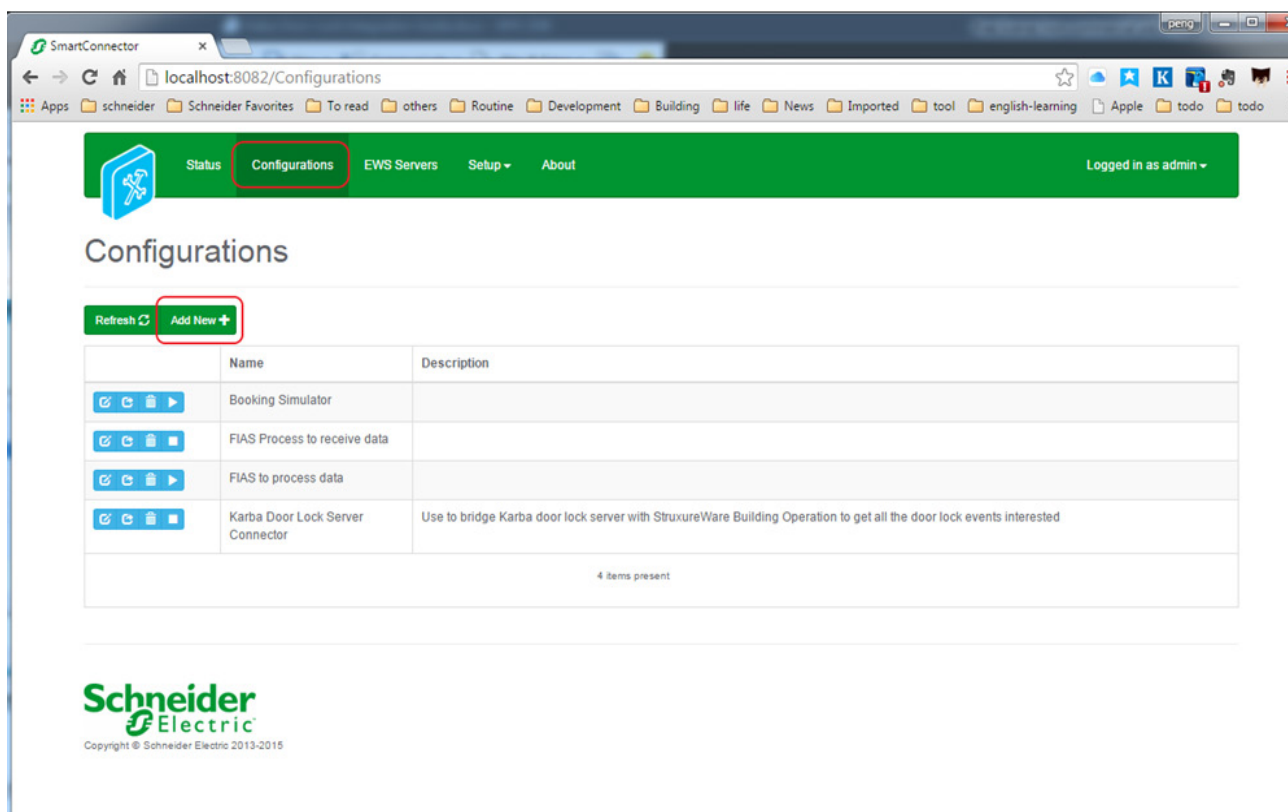


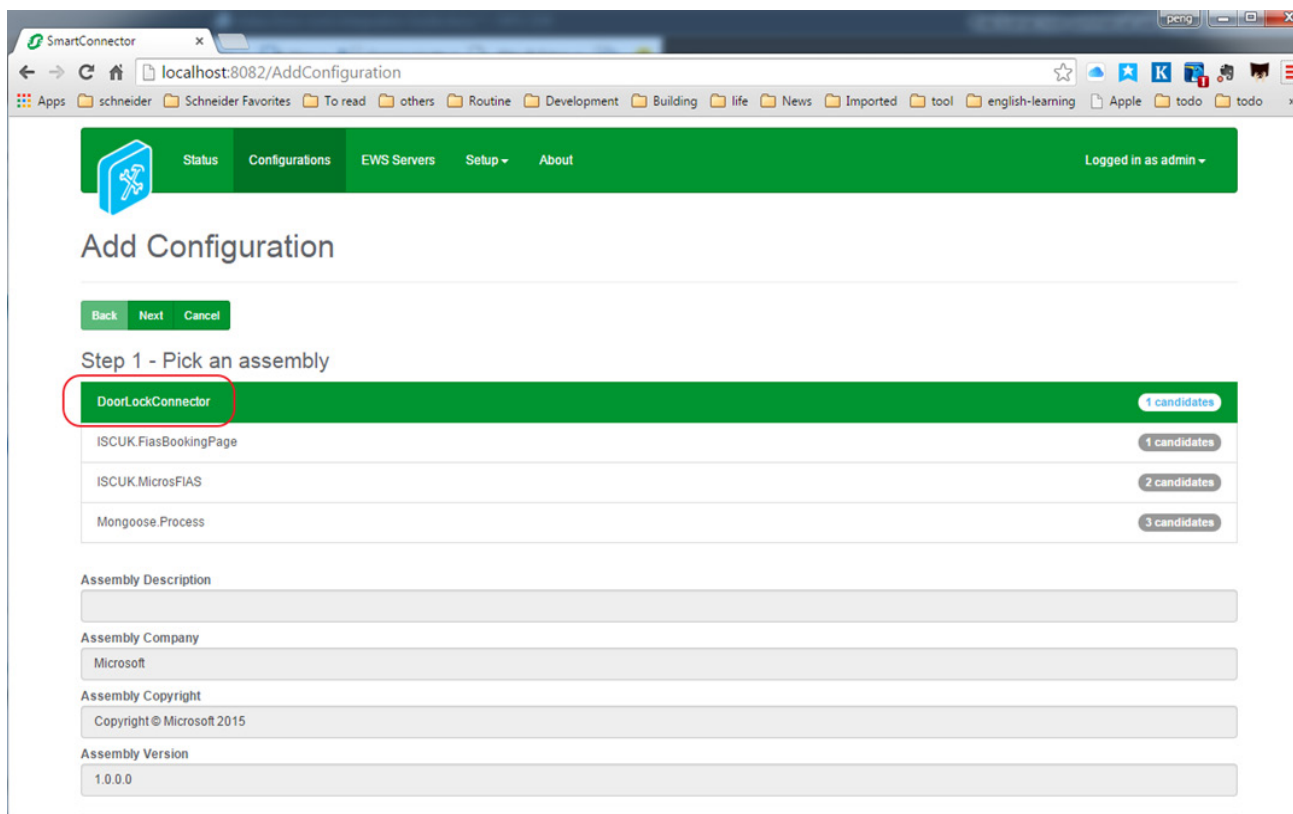
IMPORT TO EBO

This procedure shows how to install, configure and integrate the Door Lock.

Configure Smart Connector and Door Lock Extension

1. Log on the web page for smart connector.
NOTE: this example uses URL: `http://localhost:8082/`
2. Enter **Username** (default admin).
3. Enter **Password** (default Admin!23).
4. Copy door lock library into install folder of SmartConnector.
 - if windows is 32 bit, use folder `C:\Program Files\Schneider Electric\SmartConnector`.
 - if windows is 64 bit, use folder `C:\Program Files (x86)\Schneider Electric\SmartConnector`.





SmartConnector

localhost:8082/AddConfiguration

Status Configurations EWS Servers Setup About

Logged in as admin

Add Configuration

Back Next Cancel

Step 1 - Pick an assembly

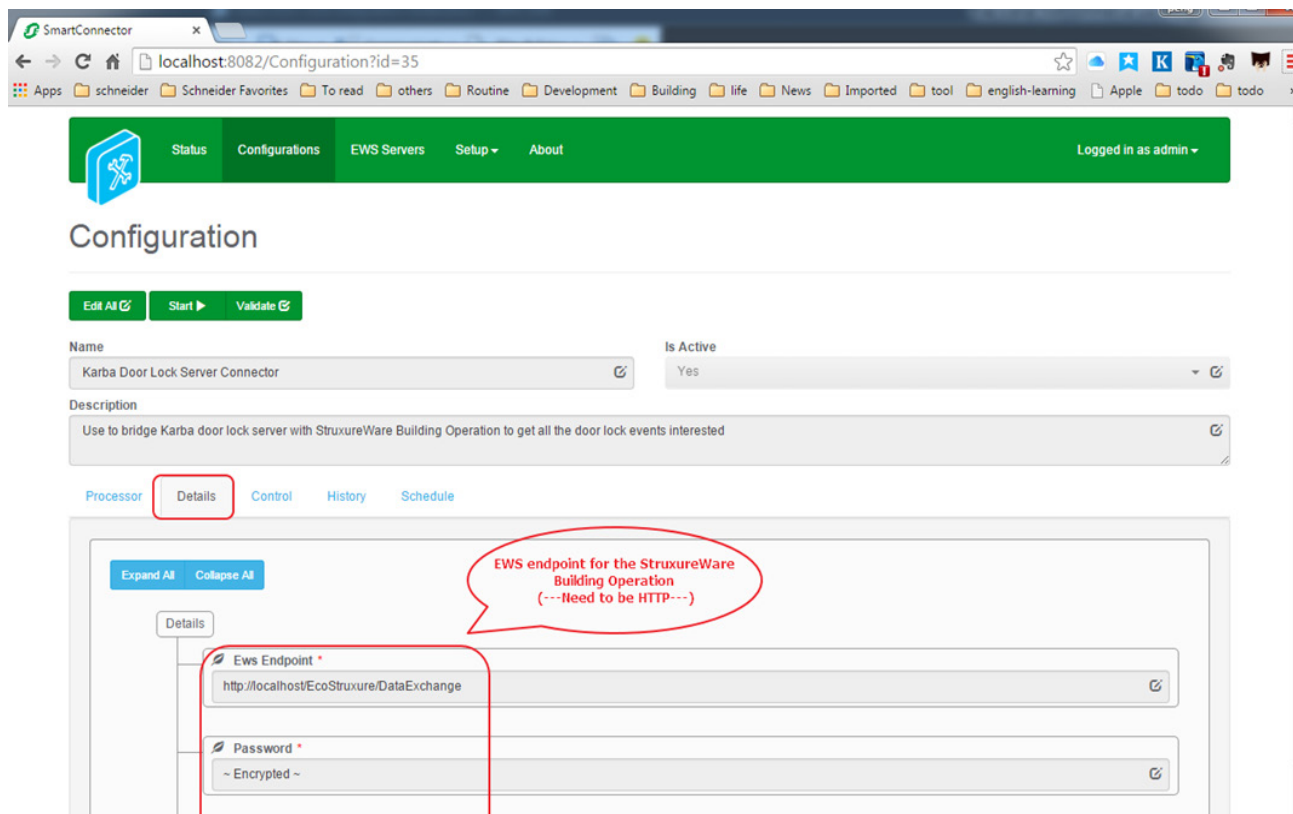
DoorLockConnector	1 candidates
ISCUK.FiasBookingPage	1 candidates
ISCUK.MicrosFIAS	2 candidates
Mongoose.Process	3 candidates

Assembly Description

Assembly Company
Microsoft

Assembly Copyright
Copyright © Microsoft 2015

Assembly Version
1.0.0.0



SmartConnector

localhost:8082/Configuration?id=35

Status Configurations EWS Servers Setup About

Logged in as admin

Configuration

Edit All Start Validate

Name
Karba Door Lock Server Connector

Is Active
Yes

Description
Use to bridge Karba door lock server with StruxureWare Building Operation to get all the door lock events interested

Processor Details Control History Schedule

Expand All Collapse All

Ews Endpoint *
http://localhost:EcoStruxure/DataExchange

Password *
~ Encrypted ~

EWS endpoint for the StruxureWare Building Operation (---Need to be HTTP---)

The screenshot shows the SmartConnector web application running on a browser at `localhost:8082/Configuration?id=35`. The interface has a green header bar with navigation links: Status, Configurations, EWS Servers, Setup, and About. The user is logged in as 'admin'. The main section is titled 'Configuration' and contains three buttons: 'Edit All', 'Save', and 'Cancel'. A red circle highlights the 'Save' button, with a red speech bubble pointing to it containing the text 'Save and Start the process'. Below the buttons, the configuration details for 'Karba Door Lock Server Connector' are shown. The 'Name' field is 'Karba Door Lock Server Connector' and 'Is Active' is 'Yes'. The 'Description' is 'Use to bridge Karba door lock server with StruxureWare Building Operation to get all the door lock events interested'. Below this, there are tabs for 'Processor', 'Details', 'Control', 'History', and 'Schedule'. The 'Control' tab is selected, showing settings for 'Runs On Start' (Yes), 'Runs On Schedule' (No), 'Manually Startable' (Yes), and 'Manually Stoppable' (Yes). A red circle highlights the 'Runs On Start' dropdown menu. The Schneider Electric logo is at the bottom left.

SmartConnector

localhost:8082/Configuration?id=35

Apps schneider Schneider Favorites To read others Routine Development Building life News Imported tool english-learning Apple todo todo

Status Configurations EWS Servers Setup About Logged in as admin

Configuration

Edit All Save Cancel

Save and Start the process

Name Karba Door Lock Server Connector Is Active Yes

Description Use to bridge Karba door lock server with StruxureWare Building Operation to get all the door lock events interested

Processor Details Control History Schedule

Runs On Start Yes

Manually Startable Yes

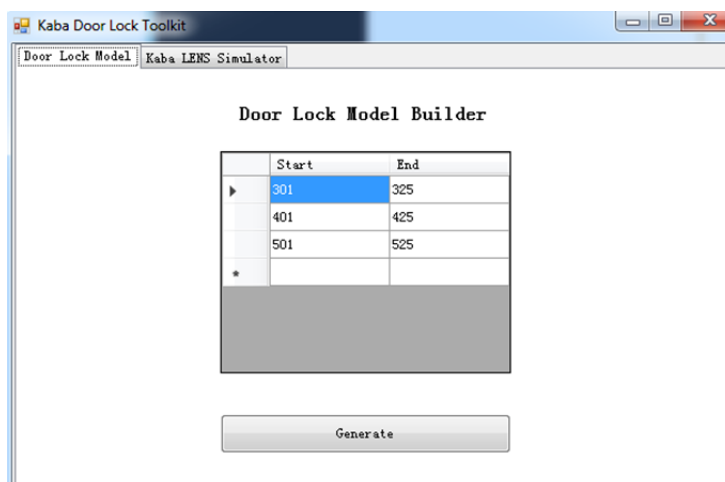
Runs On Schedule No

Manually Stoppable Yes

Schneider Electric


Generate Door Lock Model and Import to EBO

1. Open Door Lock Toolkit.
2. Enter door lock name according to Kaba server and generate door lock model.
NOTE: Door Lock names are obtained from Kaba Lens Server.
3. Click **Generate**.




4. Follow next set of screens.







Hotel LENS
 Building View




[Configuration](#)
[Operations](#)
[Monitoring](#)
[Logout](#)
[About](#)



This page will display all doors, which are associated by floor. Highlight the floor on the left pane to view the doors. The door status will change as events are received by Messenger LENS


Hotel Test


 Unknown Building

Search Room

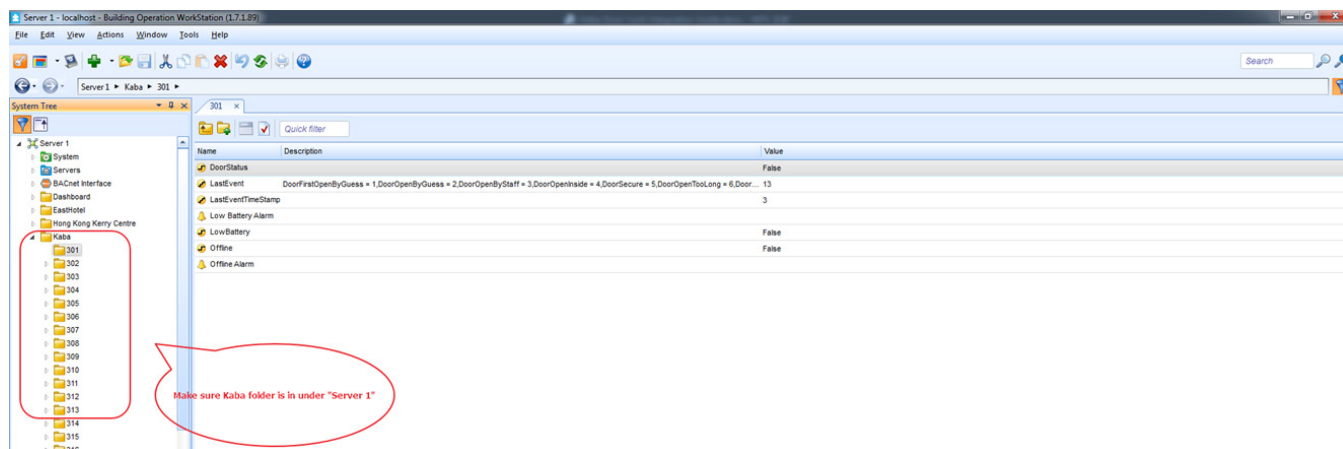
Filtered by:

Lock	Door Ajar	Low Battery	Privacy	Last In	Unlatched	Last Status Update	
101	Ajar					11/04/2016 04:13 AM	
102	Ajar					11/04/2016 04:13 AM	
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							

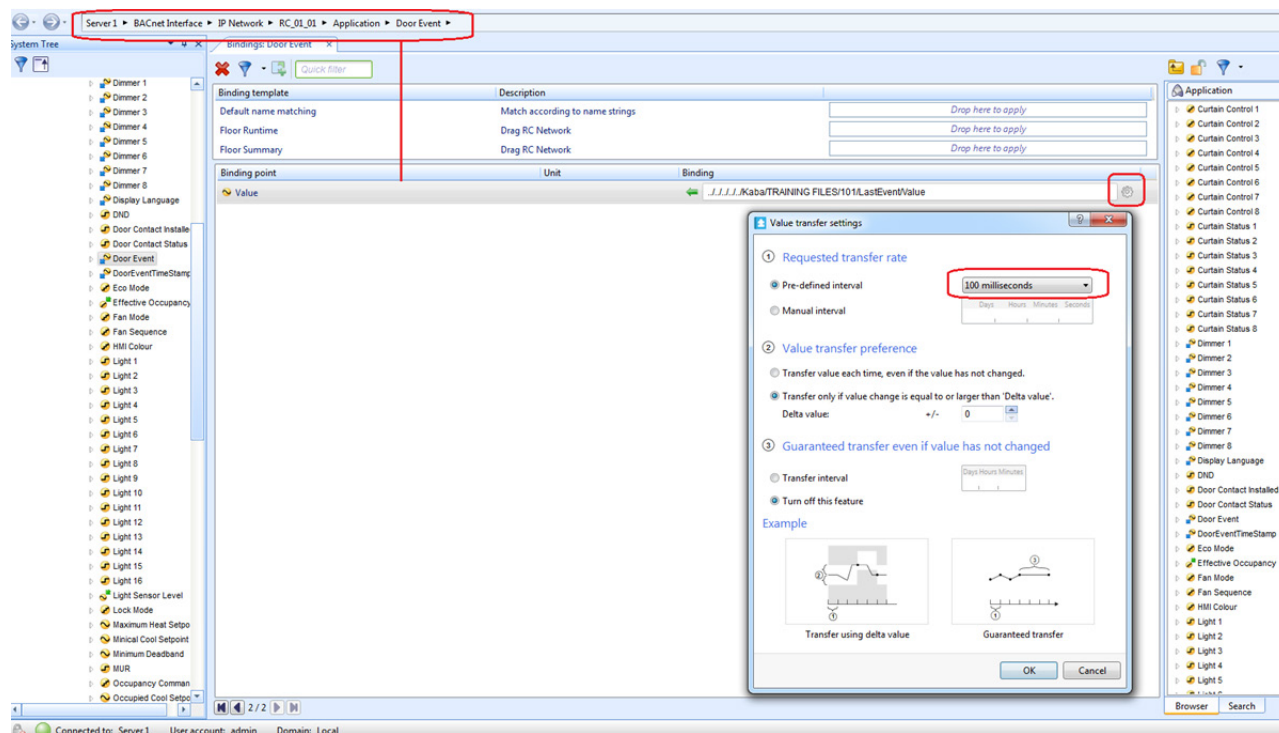
Import Door Lock File to EBO

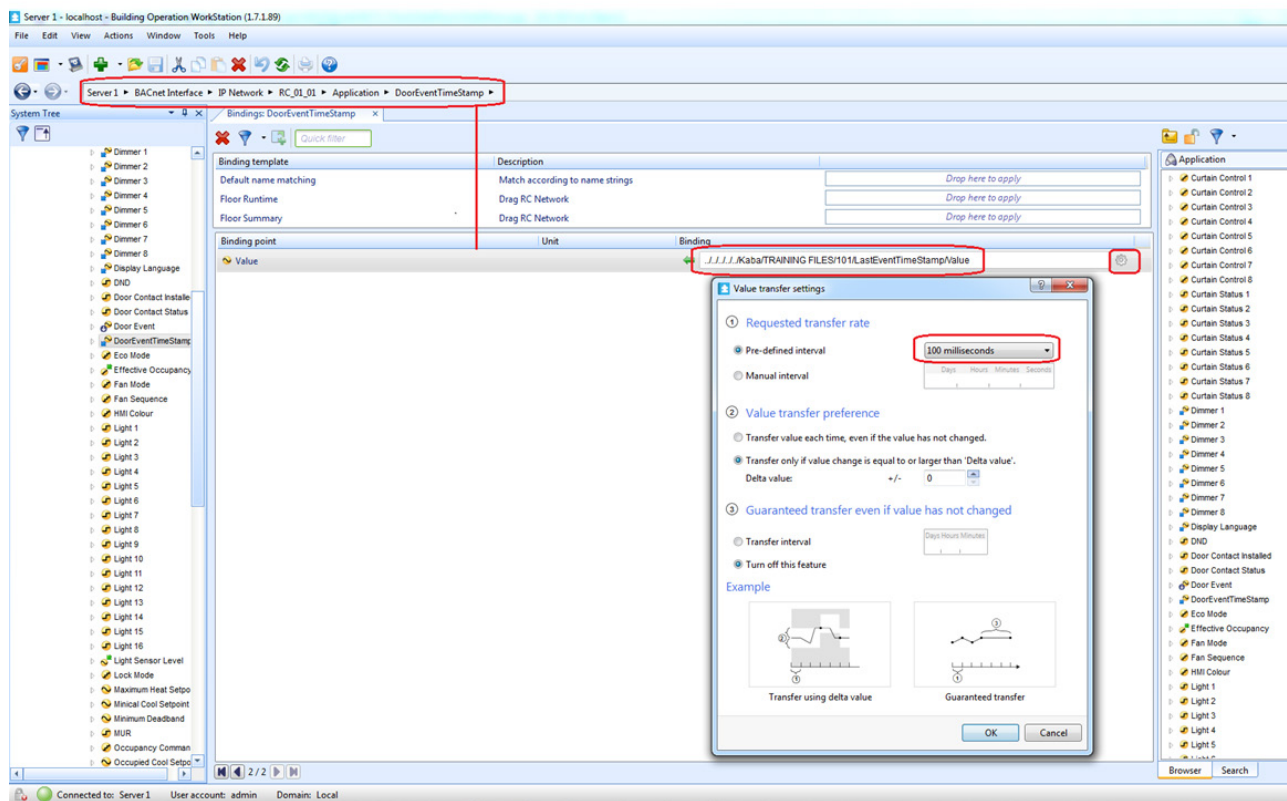
This procedure shows how to import the necessary file into EBO.

1. Ensure Kaba folder is under **Server 1**.
2. Import **DoorLockModel.xml** file into EBO.



3. Bind **LastEvent** and **LastEventTimeStamp** to HRC variables **Door Event** and **DoorEventTimeStamp**.





Configure HRC for Door Event

This procedure shows how to configure the HRC to acknowledge the door status from a Kaba door event.

1. In Door status, set to **Door status from Kaba**.

Schneider Electric Monitor Configure System Help

Save Import Export

☒ Enable Keycard-less function

Door status **Door status from Kaba** ▼

Delay when room goes to **UnOccupied mode** 0.25 min

☒ Enable **Restore** mode

☒ use **Day Welcome** and **Night Welcome** instead of Welcome

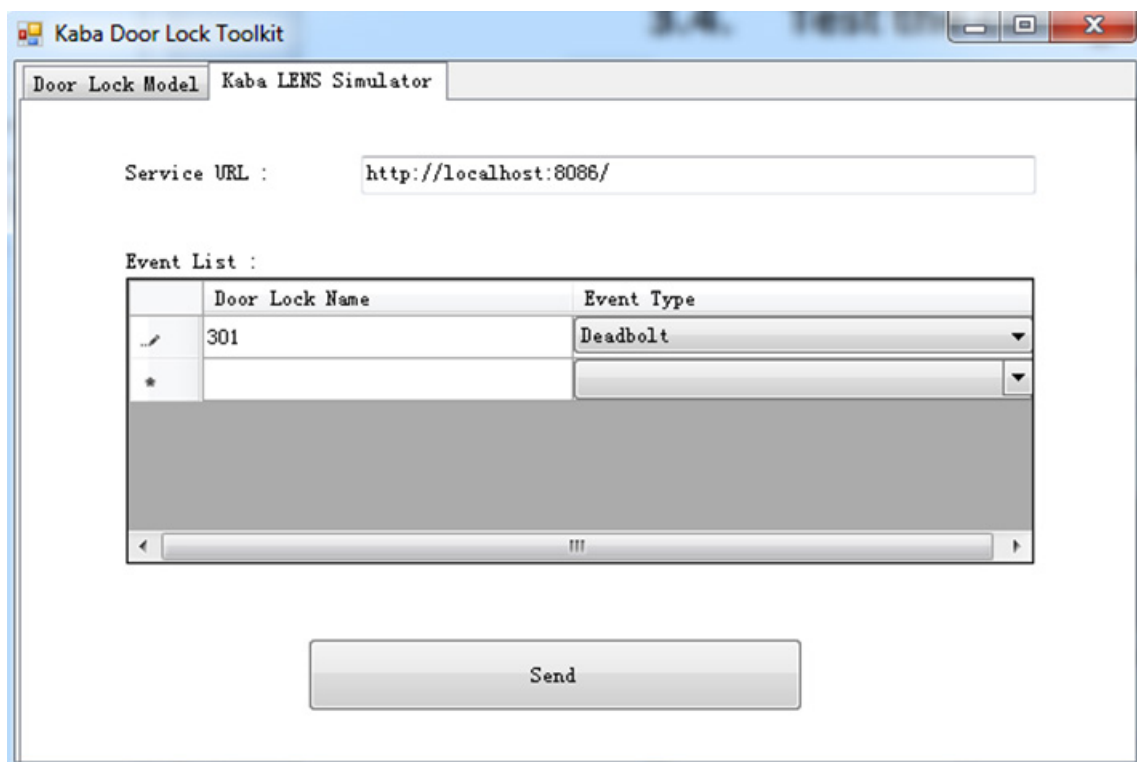
Scene	Start Time
Welcome Day	08 : 00 AM
Welcome Night	06 : 00 PM

Staff Scene Other 2 ▼

Test Configuration with Kaba LENS Simulator

This procedure shows how to configure the HRC to acknowledge the door status from a Kaba door event.

1. Click **Send** Deadbolt message to ensure event Object in EBO is updated.
2. Ensure DND status in HRC is updated.



The screenshot shows the 'Kaba Door Lock Toolkit' window with the 'Kaba LENS Simulator' tab selected. The 'Service URL' is set to 'http://localhost:8086/'. Below this is an 'Event List' table with two columns: 'Door Lock Name' and 'Event Type'. The first row shows '301' and 'Deadbolt'. A 'Send' button is located at the bottom of the window.

	Door Lock Name	Event Type
✎	301	Deadbolt
*		

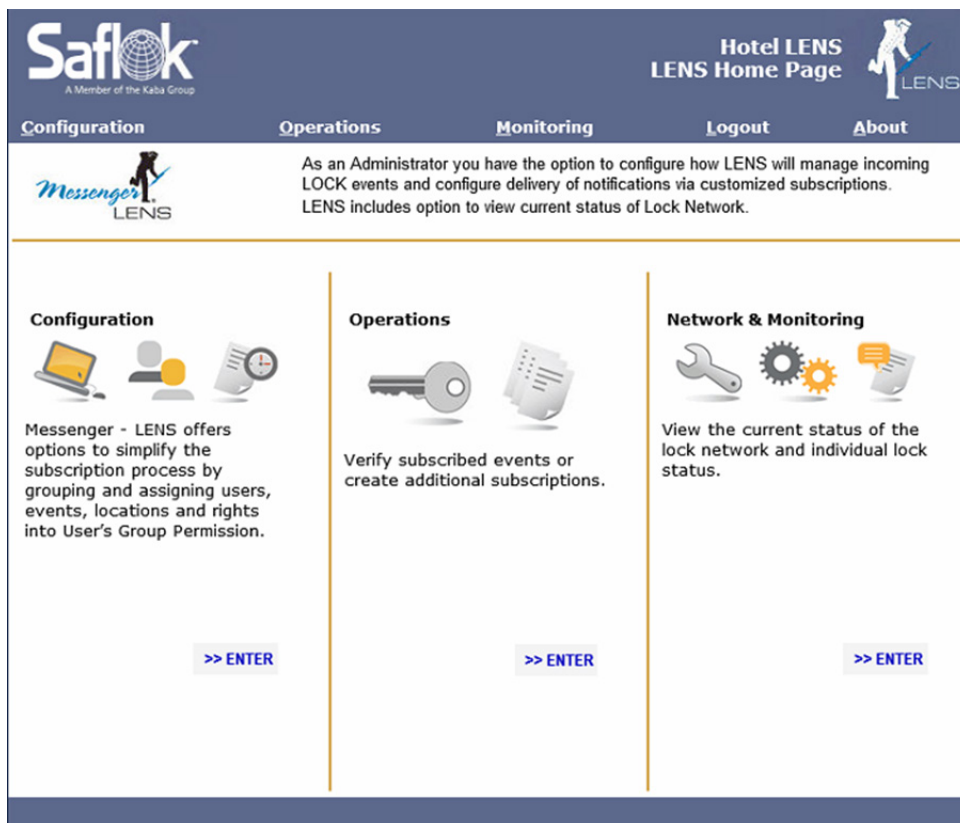
Send



Configure Kaba LENS Server

This procedure shows how to test the Kaba LENS server configuration.




1. Click **Admin Main Page** icon to launch Kaba LENS application.
2. Create group permissions according to the following set of screen shots.







[Configuration](#)
[Operations](#)
[Monitoring](#)
[Logout](#)
[About](#)



As an Administrator you have the option to configure how LENS will manage incoming LOCK events and configure delivery of notifications via customized subscriptions. LENS includes option to view current status of Lock Network.


Configuration



Messenger - LENS offers options to simplify the subscription process by grouping and assigning users, events, locations and rights into User's Group Permission.

>> ENTER


Operations



Verify subscribed events or create additional subscriptions.

>> ENTER

Network & Monitoring



View the current status of the lock network and individual lock status.

>> ENTER




[Configuration](#)
[Operations](#)
[Monitoring](#)
[Logout](#)
[About](#)



As an Administrator you have the option of Setting up your LENS user Group Permissions.

Configuration



Group Permissions
Manage Group Permissions

>> ENTER



Hubs Configuration
Manage hubs configuration, commissioning, ...

>> ENTER




Users
Manage Users' subscriptions and reassign user's Group Permission.

>> ENTER





Saflok
A Member of the Kaba Group






Hotel LENS
View Group Permissions

[Configuration](#) [Operations](#) [Monitoring](#) [Logout](#) [About](#)

 This section allows you to view existing Group Permissions, add new one and remove old ones.

[Delete Selected](#) [Add New Group Permission](#)


Select	Group Permission	Activation Date	Subscription Duration	Web Service URL	
<input type="checkbox"/>	Kaba	02/02/2016	5 Years	http://10.50.111.98:8...	   

 Client Web Session  Email  Web Service  View Details  Editable column

Saflok
A Member of the Kaba Group

Hotel LENS
View Group Permissions

[Configuration](#) [Operations](#) [Monitoring](#) [Logout](#) [About](#)

 This wizard helps you to group events, locks, users and delivery method together.

Welcome to the Group Permission Wizard

Follow the steps 1 to 7 to create a new Group Permission.

1. Enter Group Permission
[2. Select Events](#)
[3. Select Locks](#)
[4. Select Notification Methods](#)
[5. Select Operation Policies](#)
[6. Assign Users](#)
[7. Confirm](#)

Create Group Permission Wizard

Group Permission Name is a unique name for identification.

Group Permission Name:

Group Permission activation date is the 1st valid day for doing a subscription.

Group Permission activation date:

Subscription Duration is a valid period for each subscription.


Subscription Duration:




[Cancel](#) [Next](#)






Saflok
A Member of the Kaba Group

Hotel LENS
View Group Permissions


Configuration **Operations** **Monitoring** **Logout** **About**

 This section allows you to view existing Group Permissions, add new one and remove old ones.

Select	Group Permission	Activation Date	Subscription Duration	Web Service URL	
<input type="checkbox"/>	Kaba	02/02/2016	5 Years	http://10.50.111.98:8...	  

 Client Web Session  Email  Web Service  View Details  Editable column

Configuration **Operations** **Monitoring** **Logout** **About**

 This wizard helps you to group events, locks, users and delivery method together.

Welcome to the Group Permission Wizard

Follow the steps 1 to 7 to create a new Group Permission.

1. Enter Group Permission
2. Select Events
3. Select Locks
4. Select Notification Methods
5. Select Operation Policies
6. Assign Users
7. Confirm

Step 2 of 7

Select events to be included in this Group Permission. Subscribers assigned to this Group Permission will have the right to subscribe to the event in this Group Permission only.

☒ Select All

- ☒ Battery Door Close
- ☒ Battery Door Open
- ☒ Date time Error
- ☒ Date time OK
- ☒ Deadbolt reset (retracted)
- ☒ Deadbolt / Privacy
- ☒ Digital Existing Guest Key Used
- ☒ Digital Key error - Access denied
- ☒ Digital Key error - Cancel
- ☒ Digital Key error - Others
- ☒ Digital Key error - Wrong Room
- ☒ Digital Key Error Expired
- ☒ Digital Key Standing Intruder
- ☒ Digital Key Wandering Intruder
- ☒ Digital Key error - Low Battery

Configuration **Operations** **Monitoring** **Logout** **About**

This wizard helps you to group events, locks, users and delivery method together.

Welcome to the Group Permission Wizard

Follow the steps 1 to 7 to create a new Group Permission.

1. Enter Group Permission
2. **Select Events**
3. Select Locks
4. Select Notification Methods
5. Select Operation Policies
6. Assign Users
7. Confirm

Step 2 of 7

Select events to be included in this Group Permission. Subscribers assigned to this Group Permission will have the right to subscribe to the event in this Group Permission only.

☒ Select All

- ☒ Battery Door Close
- ☒ Battery Door Open
- ☒ Date time Error
- ☒ Date time OK
- ☒ Deadbolt reset (retracted)
- ☒ Deadbolt / Privacy
- ☒ Digital Existing Guest Key Used
- ☒ Digital Key error - Access denied
- ☒ Digital Key error - Cancel
- ☒ Digital Key error - Others
- ☒ Digital Key error - Wrong Room
- ☒ Digital Key Error Expired
- ☒ Digital Key Standing Intruder
- ☒ Digital Key Wandering Intruder
- ☒ Digital Key error - Low Battery

Cancel Previous **Next**

Salto **View Group Permissions** **LENS**
A Member of the Kaba Group

Configuration **Operations** **Monitoring** **Logout** **About**

This wizard helps you to group events, locks, users and delivery method together.

Welcome to the Group Permission Wizard

Follow the steps 1 to 7 to create a new Group Permission.

1. Enter Group Permission
2. Select Events
3. **Select Locks**
4. Select Notification Methods
5. Select Operation Policies
6. Assign Users
7. Confirm

Step 3 of 7

Select Locks to be included in this Group Permission. Subscriber will only have the right to subscribe for the Locks in their Group Permission.

- ☒ Hotel Test
- ☒ Unknown Building

Select all the door lock

Cancel Previous **Next**

Configuration **Operations** **Monitoring** **Logout** **About**

This wizard helps you to group events, locks, users and delivery method together.

Welcome to the Group Permission Wizard

Follow the steps 1 to 7 to create a new Group Permission.

1. Enter Group Permission
2. Select Events
3. Select Locks
- 4. Select Notification Methods**
5. Select Operation Policies
6. Assign Users
7. Confirm

Step 4 of 7

Select one or more of the delivery mechanism described below:

Email address of the user assigned to this Group Permission, email can be set in the step 6 of this wizard.

☐ Allow User's Email

Web Service of the user willing to have notification by web method.

☒ Allow User's Web Service

Web Service URL:

User's web session once the user is logged on to Messenger Website.

☐ Allow User's session on Messenger Website

Need to align with the setting in Kaba door lock extension in Smart Connector

Cancel Previous **Next**

Configuration **Operations** **Monitoring** **Logout** **About**

This wizard helps you to group events, locks, users and delivery method together.

Welcome to the Group Permission Wizard

Follow the steps 1 to 7 to create a new Group Permission.

1. Enter Group Permission
2. Select Events
3. Select Locks
4. Select Notification Methods
- 5. Select Operation Policies**
6. Assign Users
7. Confirm

Step 5 of 7

Select Operation Policy for this Group Permission.

Cancel Previous **Next**

Configuration **Operations** **Monitoring** **Logout** **About**

This wizard helps you to group events, locks, users and delivery method together.

Welcome to the Group Permission Wizard

Follow the steps 1 to 7 to create a new Group Permission.

1. Enter Group Permission
2. Select Events
3. Select Locks
4. Select Notification Methods
5. Select Operation Policies
6. Assign Users
7. Confirm

Step 6 of 7

Select which users will be using this Group Permission. A user can belong to only one Group Permission at a time. Once the Group Permission is created, the selected users will belong to this Group Permission.

Available Users

Select	Login Name	E-Mail	Group Permission
<input type="checkbox"/>	7		
<input type="checkbox"/>	8		
<input type="checkbox"/>	9		
<input type="checkbox"/>	DANA		
<input type="checkbox"/>	DEAD		
<input type="checkbox"/>	DTEFEND		
<input type="checkbox"/>	FRONT		
<input type="checkbox"/>	GARY		
<input type="checkbox"/>	GARY		
<input checked="" type="checkbox"/>	SAFLOK		Kaba
<input type="checkbox"/>	SETUP		

Editable column

Assign the group permission to the used currently in use

Cancel Previous Next

Saflok **Hotel LENS** **View Group Permissions**

Configuration **Operations** **Monitoring** **Logout** **About**

This wizard helps you to group events, locks, users and delivery method together.

Welcome to the Group Permission Wizard

Follow the steps 1 to 7 to create a new Group Permission.

1. Enter Group Permission
2. Select Events
3. Select Locks
4. Select Notification Methods
5. Select Operation Policies
6. Assign Users
7. Confirm

Step 7 of 7

Please verify the information provided in all the steps and click on the 'Confirm' button on this step to save the Group Permission in the system.

Group Permission to be saved

Group Permission Name: Schneider_GRM_Integration

Group Permission activation date: 4/11/2016 2:01:11 AM

Subscription Duration: 5 Years

Total Selected Events: 75

Total Selected Buildings: 2

Total Selected Floors: 0

Total Selected Devices: 0

Selected Notification Methods: Web Service

Selected Operation Policies:

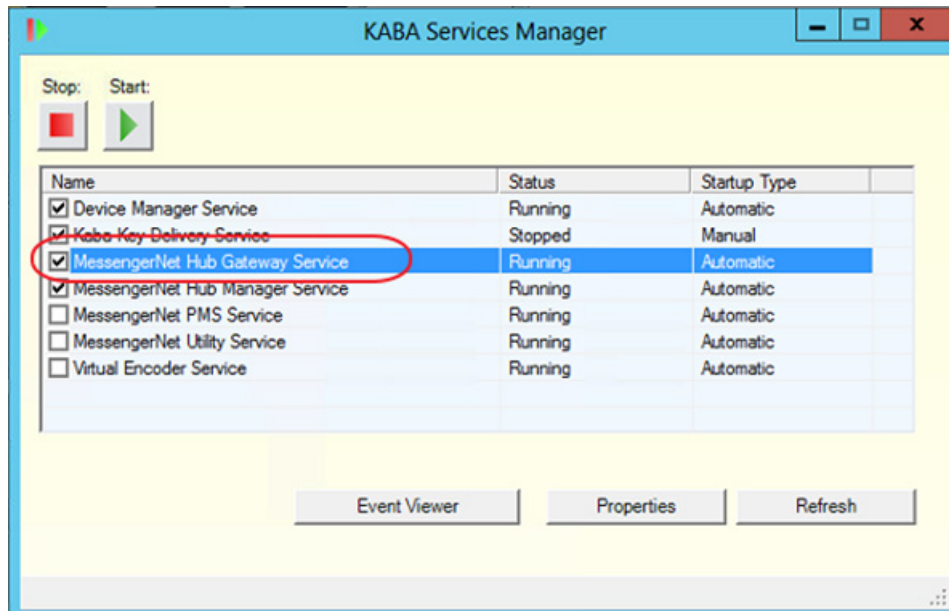
Total Assigned Users: 1

Cancel Previous **Complete**

Validate Configuration


This procedure validates the Kaba LENS server configuration.

1. Log out from any active application.
2. Restart **LENS** Gateway service.
3. Wait for service to reconnect to translator service.
4. Create **Group Permissions**.




5. Create a subscription for the web service.





Hotel LENS
 Events Subscription Wizard



[Configuration](#)
[Operations](#)
[Monitoring](#)
[Logout](#)
[About](#)

This wizard helps you easily subscribe to an event that you want to be notified for.

Welcome to the Subscriptions Builder Wizard
Follow the steps 1 to 3 to create a new Subscription.


1. Select Events
[2. Select User](#)
[3. Select Locks](#)
[4. Subscribe](#)

Step 1 of 4


Select the Events that you want to subscribe to. Based on your Group Permission the Events below are available for subscription.

☒ Select All

☒ Battery Door Close
☒ Battery Door Open
☒ Date time Error
☒ Date time OK
☒ Deadbolt reset (retracted)
☒ Deadbolt / Privacy
☒ Digital Existing Guest Key Used
☒ Digital Key error - Access denied
☒ Digital Key error - Cancel
☒ Digital Key error - Others
☒ Digital Key error - Wrong Room
☒ Digital Key Error Expired
☒ Digital Key Standing Intruder
☒ Digital Key Wandering Intruder



Hotel LENS
 Events Subscription Wizard



[Configuration](#)
[Operations](#)
[Monitoring](#)
[Logout](#)
[About](#)

This wizard helps you easily subscribe to an event that you want to be notified for.

Welcome to the Subscriptions Builder Wizard
Follow the steps 1 to 3 to create a new Subscription.


1. Select Events
2. Select User
[3. Select Locks](#)
[4. Subscribe](#)

Step 2 of 4


Select the user that you want to assign the subscription. Only the users with a Group Permission can be selected for the subscription.

Select	Login Name	E-Mail	Group Permission
<input type="checkbox"/>	8		
<input type="checkbox"/>	9		
<input type="checkbox"/>	DANA		
<input type="checkbox"/>	DEAD		
<input type="checkbox"/>	DTEFEND		
<input type="checkbox"/>	FRONT		
<input type="checkbox"/>	GARY		
<input type="checkbox"/>	GARY		
<input checked="" type="checkbox"/>	SAFLOK		Kaba
<input type="checkbox"/>	SETUP		

Select the same user which assigned to the newly created group permission



Hotel LENS
 Events Subscription Wizard



[Configuration](#)
[Operations](#)
[Monitoring](#)
[Logout](#)
[About](#)

This wizard helps you easily subscribe to an event that you want to be notified for.

Welcome to the Subscriptions Builder Wizard
Follow the steps 1 to 3 to create a new Subscription.


[1. Select Events](#)
[2. Select User](#)
[3. Select Locks](#)
[4. Subscribe](#)

Step 3 of 4


Select Locks for which you want to be notified. Based on your Group Permission the Locks below are available for subscription. You can select up to 250 individual Locks per subscription. For selecting more than 250 Locks, select entire Floor or entire Building.

☒ Hotel Test
☒ Unknown Building

Select all the locks



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[3. Select Locks](#)
[4. Subscribe](#)

Step 4 of 4

Please verify the information provided in all the steps and click on the "Subscribe" button on this step to create the Subscription.

Subscription Name: ☐ Overwrite if Exists

Subscription Details:

Total Selected Events:	75
Total Selected Users:	1
Total Selected Buildings:	2
Total Selected Floors:	0
Total Selected Locks:	0
Expires on:	4/11/2021 2:26:44 AM

Based on your Group Permission you are allowed to get notification by method(s) below. Please select one of the method by which you want to be notified.

☐ Notify by Email.

☒ Notify me on my Web service

Web Service Details

☒ Use Native Web Service
 ☐ Use Extended Web Service

☐ SOAP Protocol
 ☒ Rest Protocol

Technical Support

For any issues with EcoStruxure Solution contact Schneider Electric Technical Support according to your region.

Level 1

- In-country support via SE Branches or SI Partners
- CCC / SRC / CSS

Level 2 - For product support, open ticket in BFO

- For Building Expert related issues*: PSS Advanced and Experts
- For EcoStruxure BMS issues: PSS Advanced

Level 2 - For solutions/application support

- Country Champion / Solution Architects / App Center

Level 3

- For Building Expert related issues*: SBS Support team
- For EcoStruxure BMS issues: PSS Experts

Level 4 - For solutions/application support

- For Building Expert related issues*: SBS Solutions, Offer Management and R&D
- For EcoStruxure BMS issues: Global Sustain Team

*Only for P1 issues (high impact, urgent and complex), country champion have the option of opening a ticket in Jira to escalate directly to Level 3

About Schneider Electric

Schneider Electric is leading the Digital Transformation of Energy Management and Automation in Homes, Buildings, Data Centers, Infrastructure and Industries.

With global presence in over 100 countries, Schneider is the undisputable leader in Power Management – Medium Voltage, Low Voltage and Secure Power, and in Automation Systems. We provide integrated efficiency solutions, combining energy, automation and software.

In our global Ecosystem, we collaborate with the largest Partner, Integrator and Developer Community on our Open Platform to deliver real-time control and operational efficiency.

We believe that great people and partners make Schneider a great company and that our commitment to Innovation, Diversity and Sustainability ensures that Life Is On everywhere, for everyone and at every moment.

www.schneider-electric.com