

DECEMBER 2020

# ABB-free@home® – Integrations

Online Learning Session – Competence Center Europe – Smart Buildings

Thorsten Reibel, Jürgen Schilder, Stefan Grosse, Martin Wichary & Olaf Stutzenberger

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# Agenda

## ABB-free@home® – Integrations

Introduction

Philips Hue

Sonos

Amazon Alexa

Google Home

Miele & Home Connect



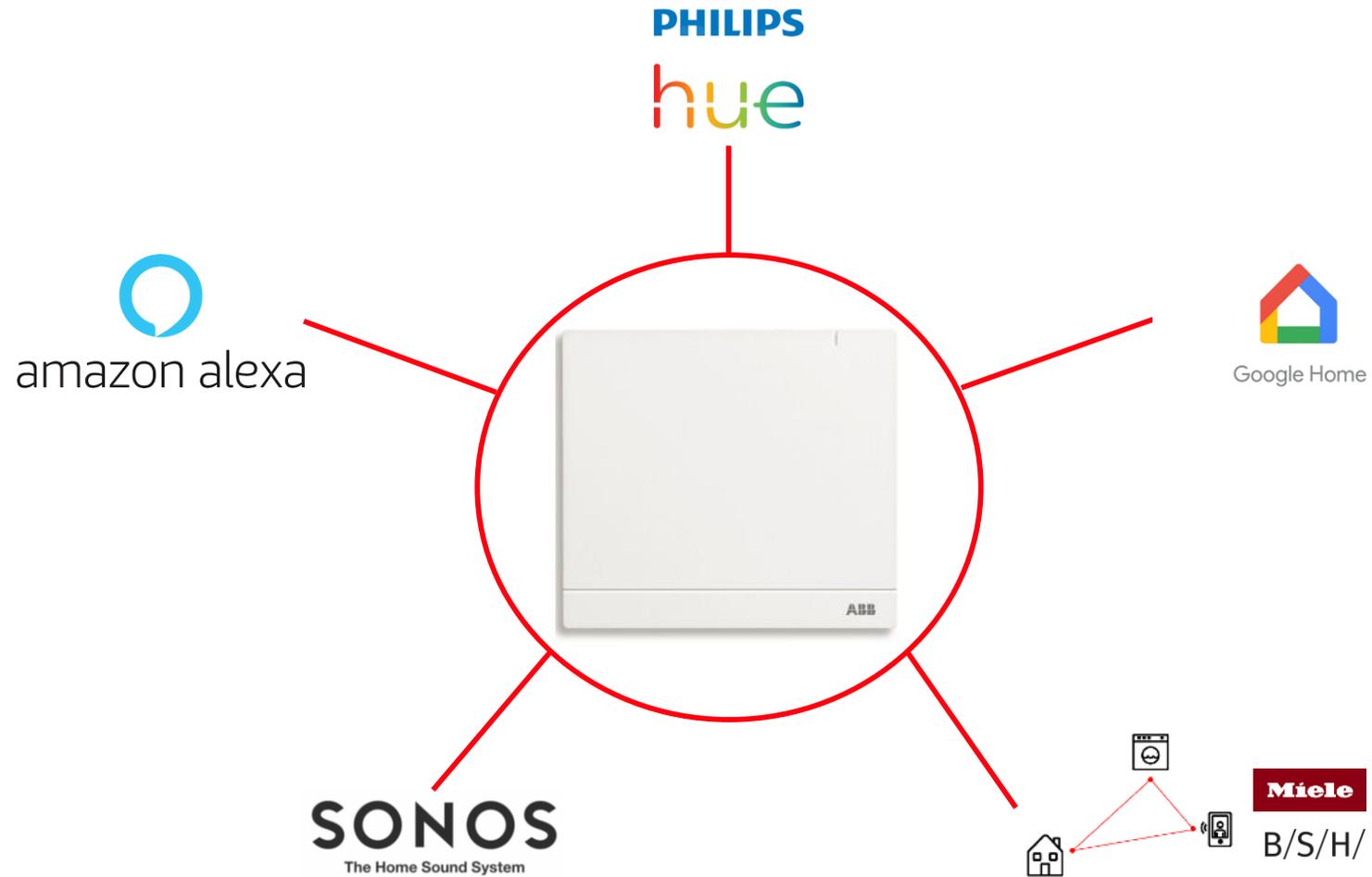
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# ABB-free@home<sup>®</sup> – Integrations

Overview

# ABB-free@home® – Integrations

## Overview



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# ABB-free@home<sup>®</sup> – Integrations

Philips Hue

# ABB-free@home® – Integrations

## Philips Hue

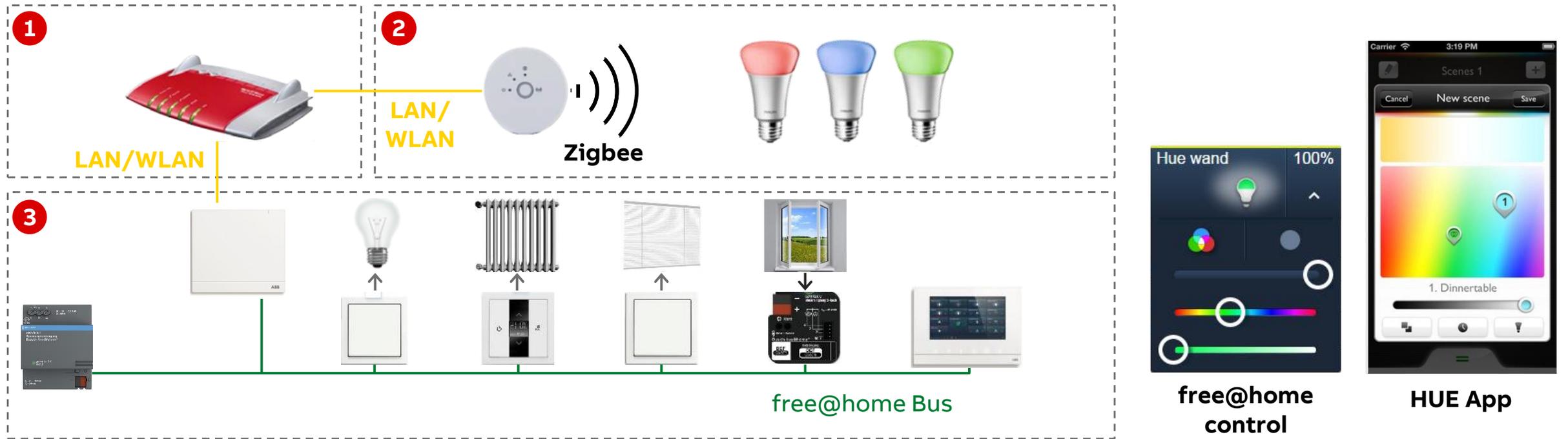
### Overview

- To integrate Philips Hue light bulbs the Hue bridge and some smart bulbs are needed
- The bulbs must be integrated into the Philips Hue app first
- The soft limit for Philips Hue bulbs is 50 (if you use more, you will start to have performance issues)



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## Philips Hue



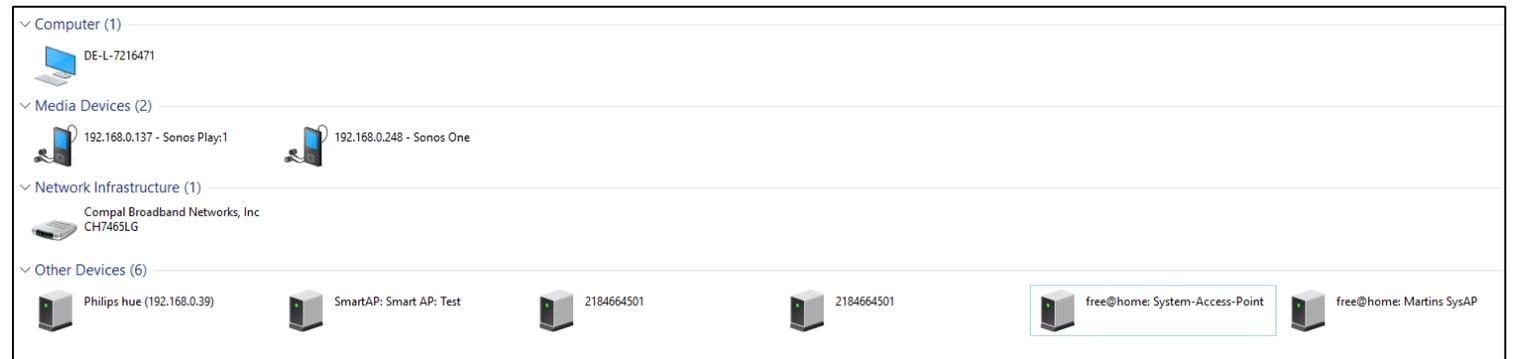
The integration of the Philips HUE system into free@home is carried out with the aid of the Philips HUE API. This means that the commands of the free@home system are “compiled” within the free@home system access point, transmitted from there via the IP protocol to the Philips HUE Bridge, which in turn controls the lamps via the Zigbee protocol

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## Philips Hue

### Commissioning

1. System Access Point and Hue bridge must be in the same network (both devices should be visible in the menu “network”)
2. free@home will automatically detect the bridge. A notification is displayed after login
3. Click on “Connect” to couple both systems
4. Press the button of the Hue bridge (if the button isn't pressed within 10 seconds, you will receive an error message)
5. The status will be displayed as “Connected” now
6. The Hue bridge and all integrated light bulbs will be visible in the device configuration now

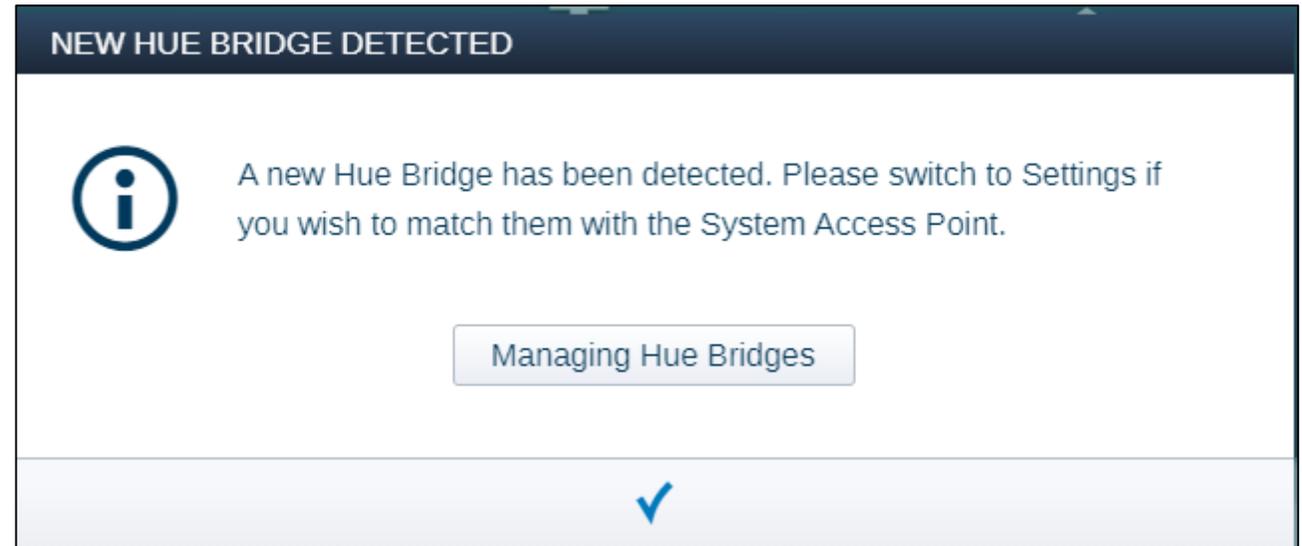


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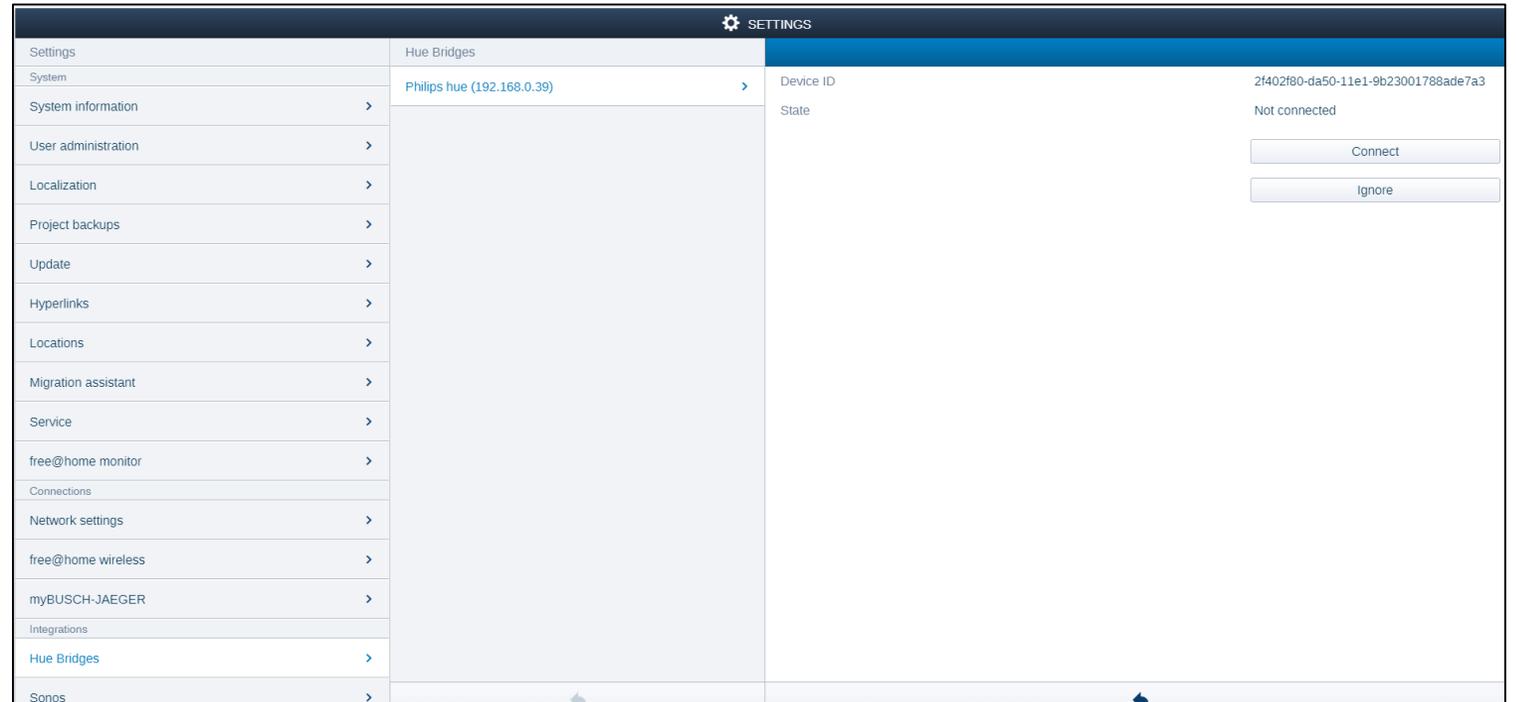


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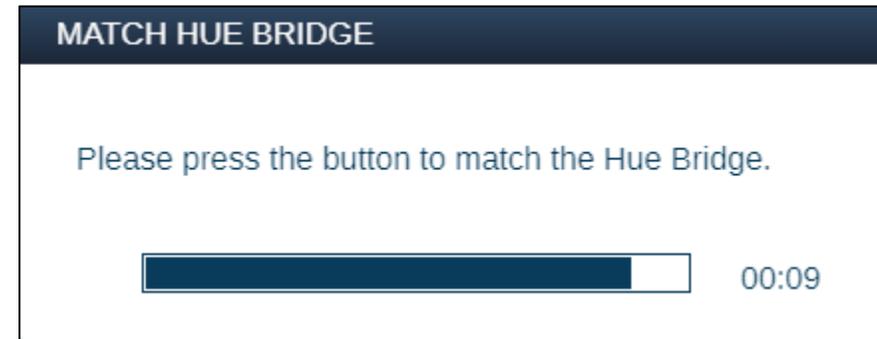


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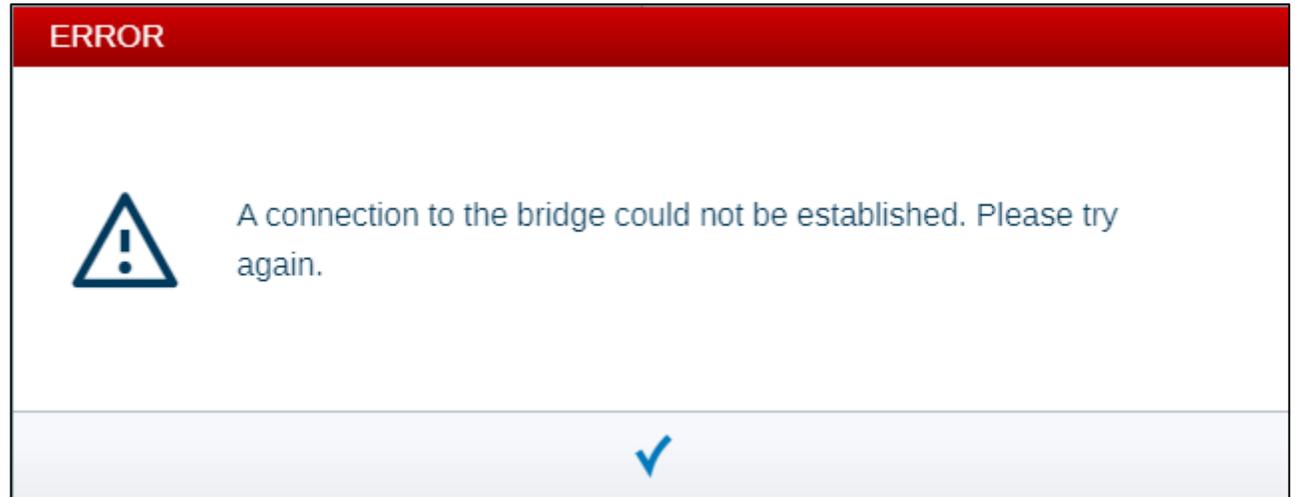


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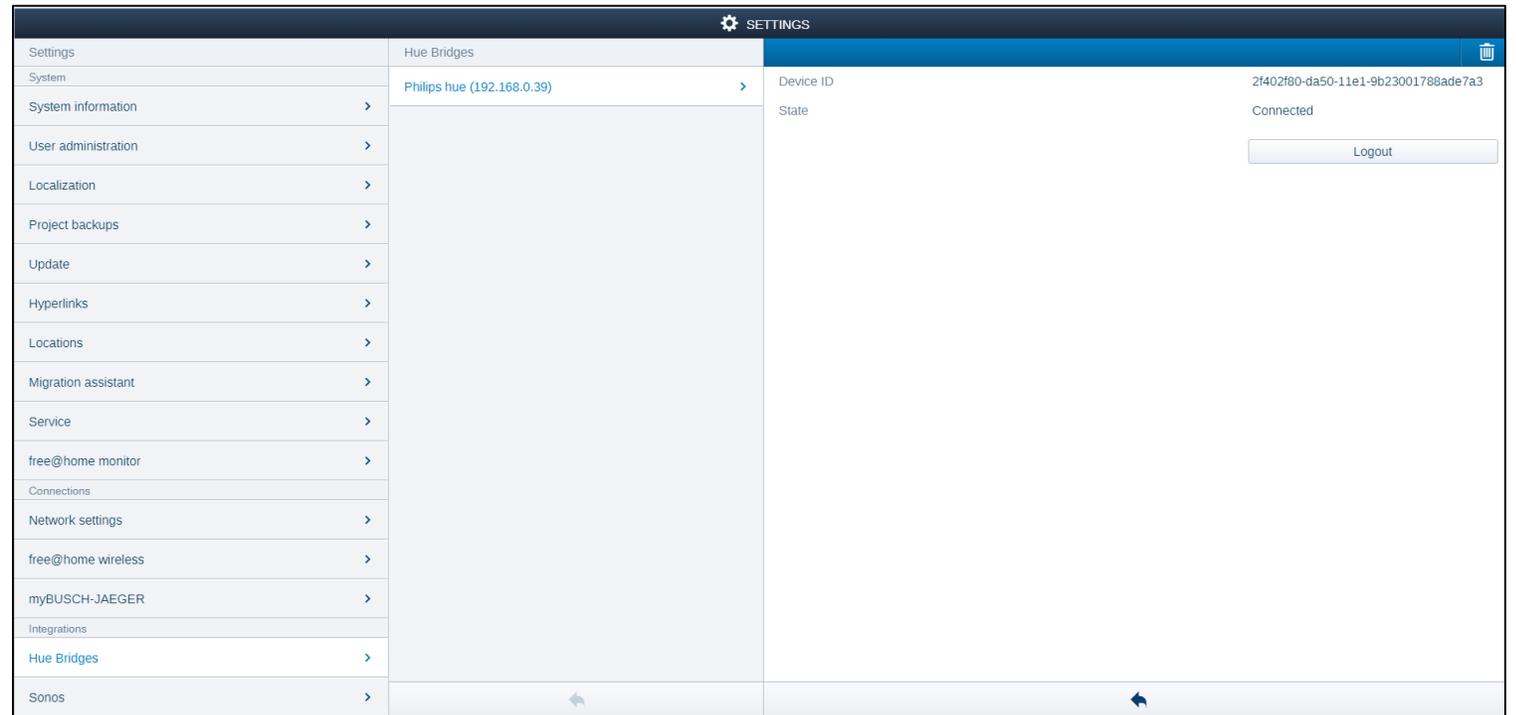


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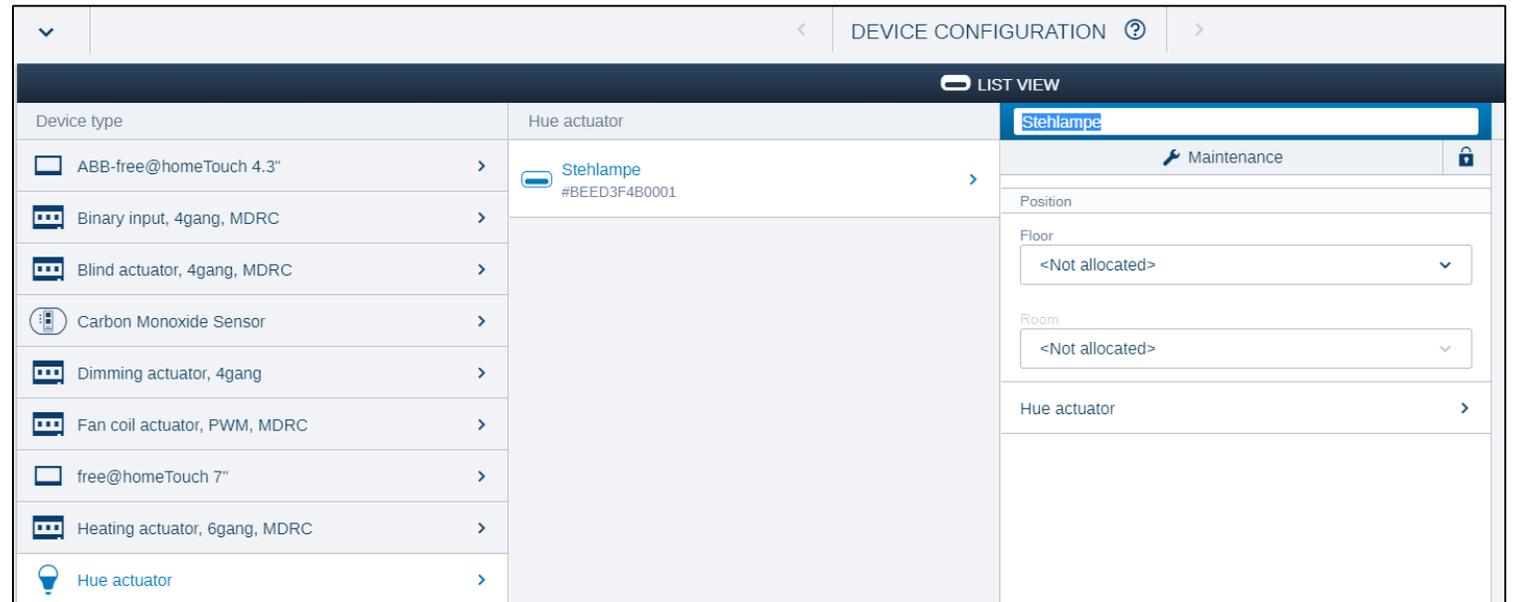


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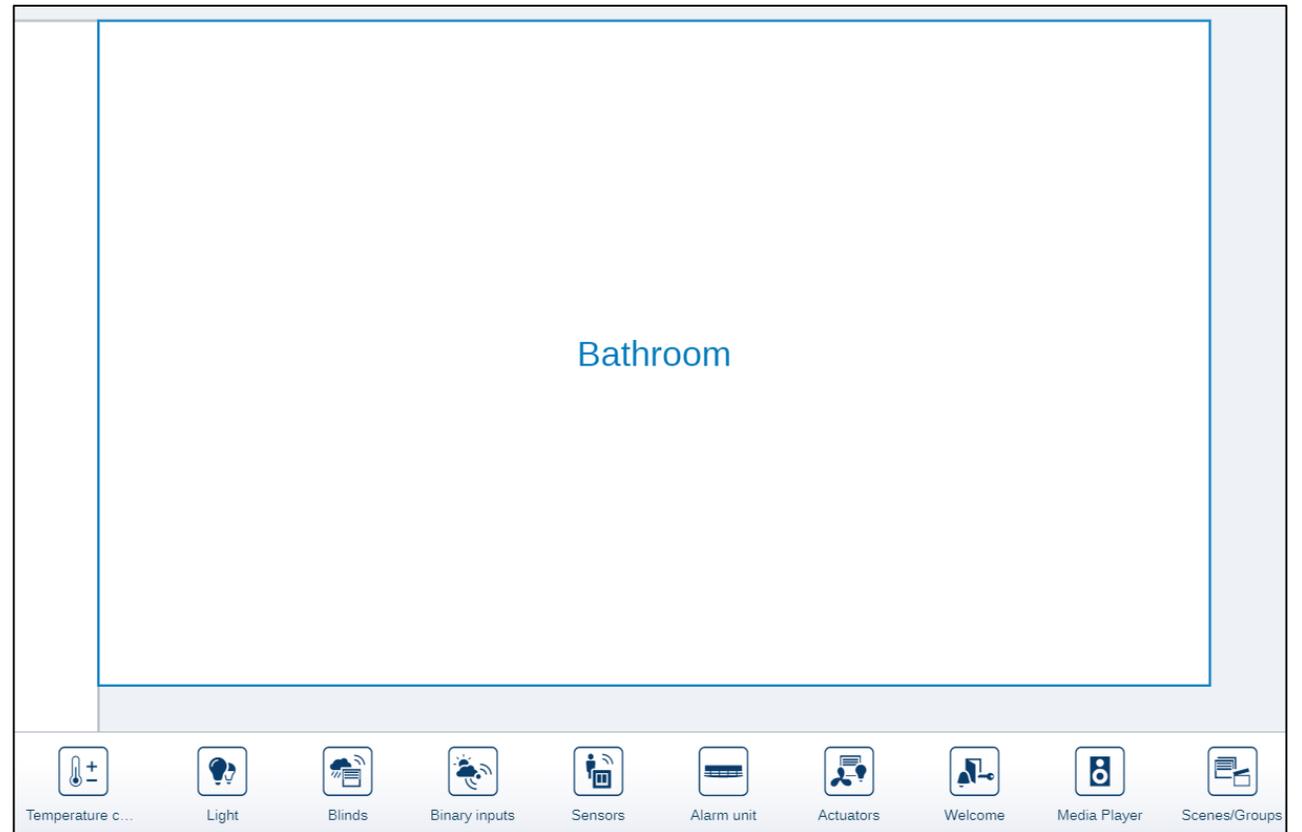


# ABB-free@home® – Integrations

## Philips Hue

### Placing, linking and functions

1. The Philips Hue light bulbs can be placed in the “Device” menu now
2. All bulbs are visible in the submenu “Light” and displayed as “Dim actuator” with a green bulb
3. Devices can be added and identified like any other free@home actuator
4. Now the bulbs can be linked with a sensor
5. In scenes the desired brightness and color must be adjusted
6. The control element can be added to all free@home panels

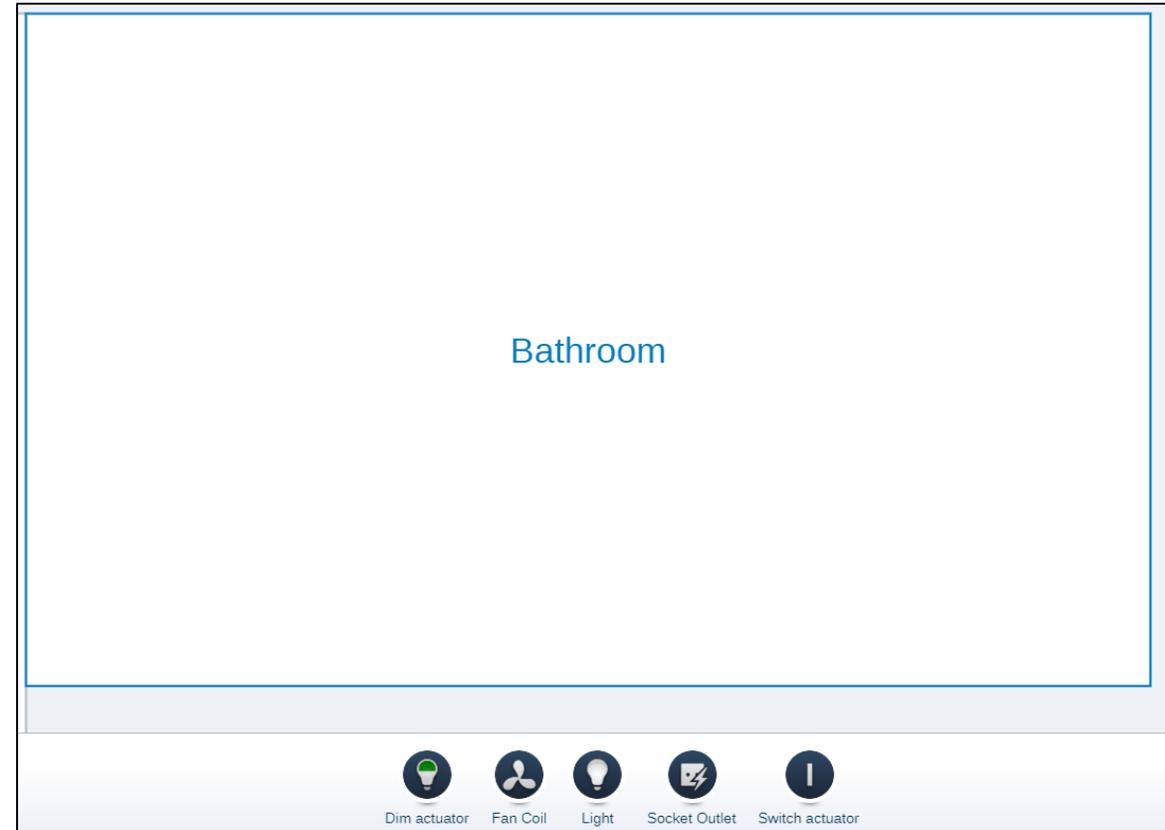


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The screenshot shows the configuration interface for an "ALLOCATION DIM ACTUATOR". On the left, a list of devices includes "Hue actuator" with a sub-entry for "#BEED3F4B0001 Stehlampe". The main area displays the configuration for this device:

<b>Actuator</b>	
Floor	Ground floor
Room	Bathroom
Name	Stehlampe
Serialnumber	BEED3F4B0001

Below the configuration table, there is a control element for the actuator, showing "Stehlampe" and "0%" with a light bulb icon and a dropdown arrow. The name "Stehlampe" is also shown in a text input field below.

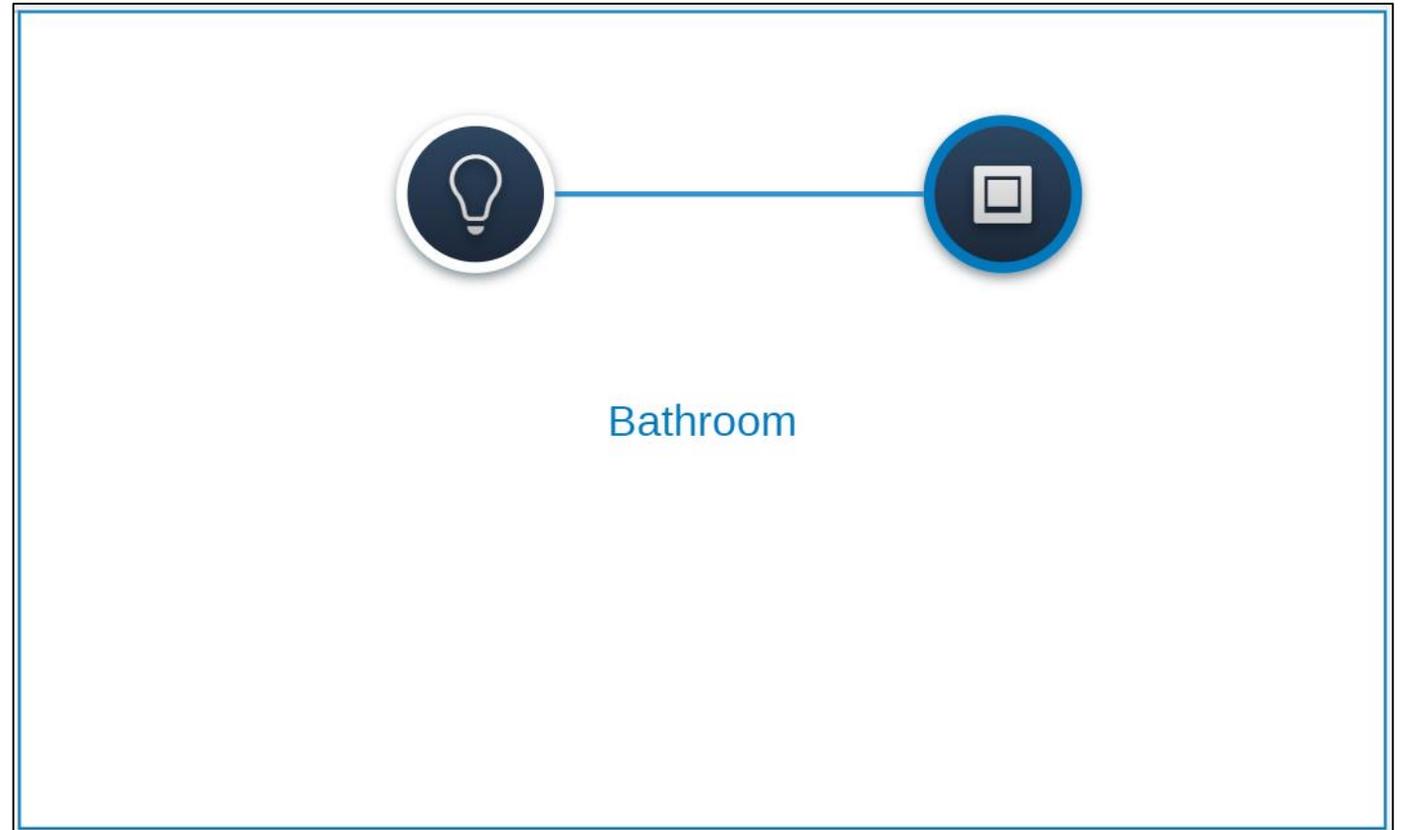
At the bottom of the interface, there are two buttons: a red "X" (cancel) and a green checkmark (confirm).

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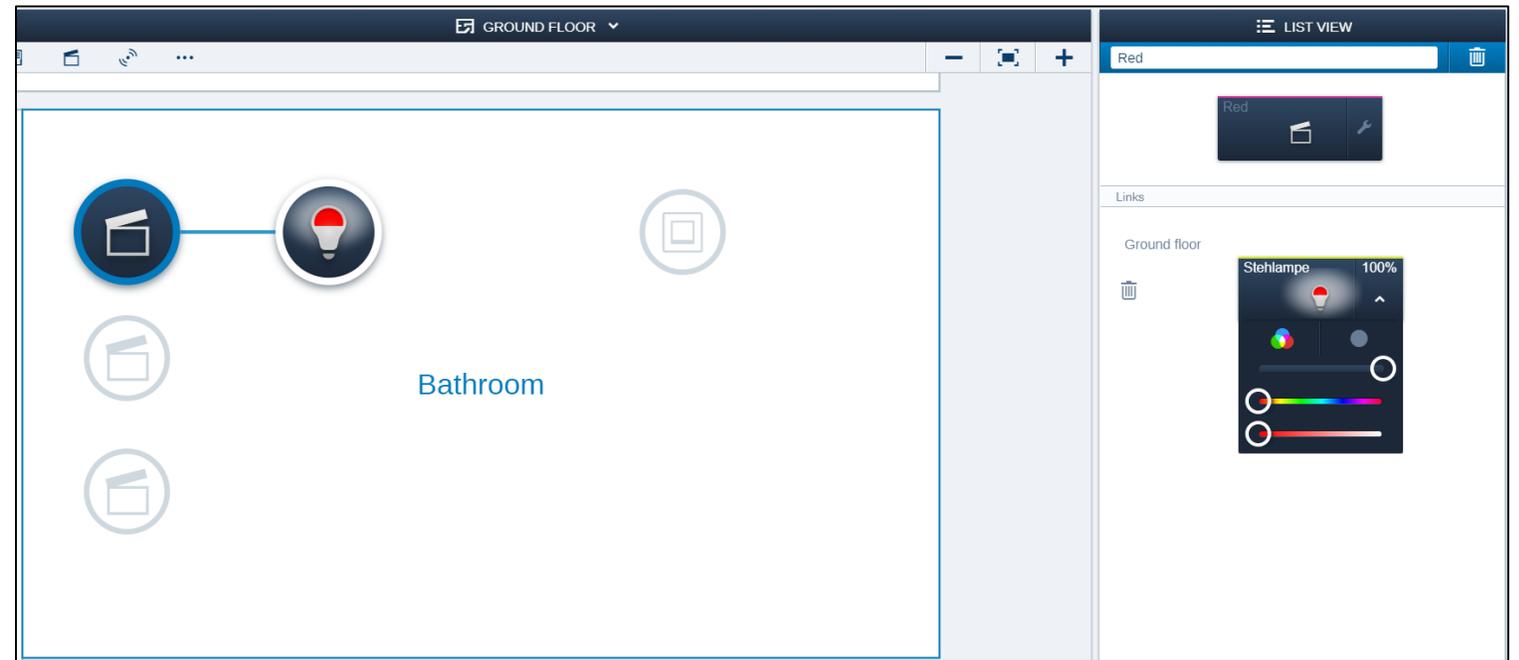


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# ABB-free@home<sup>®</sup> – Integrations

Sonos

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# ABB-free@home® – Integrations

## Sonos

### Overview

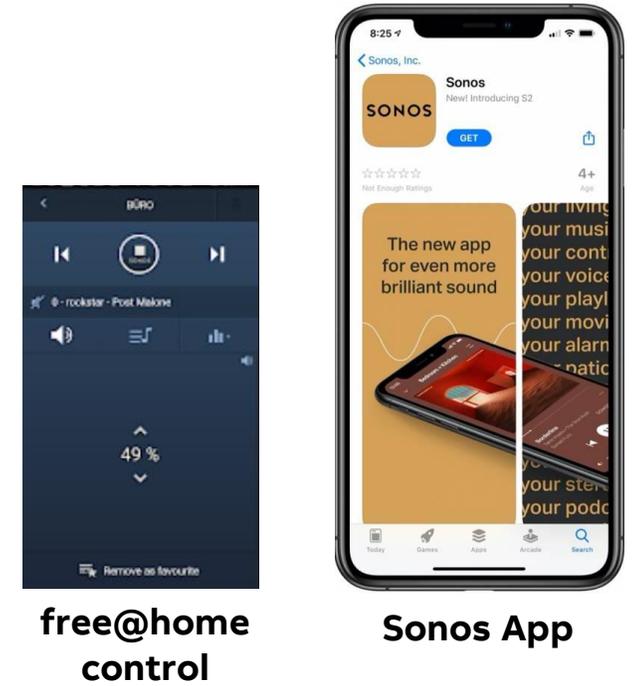
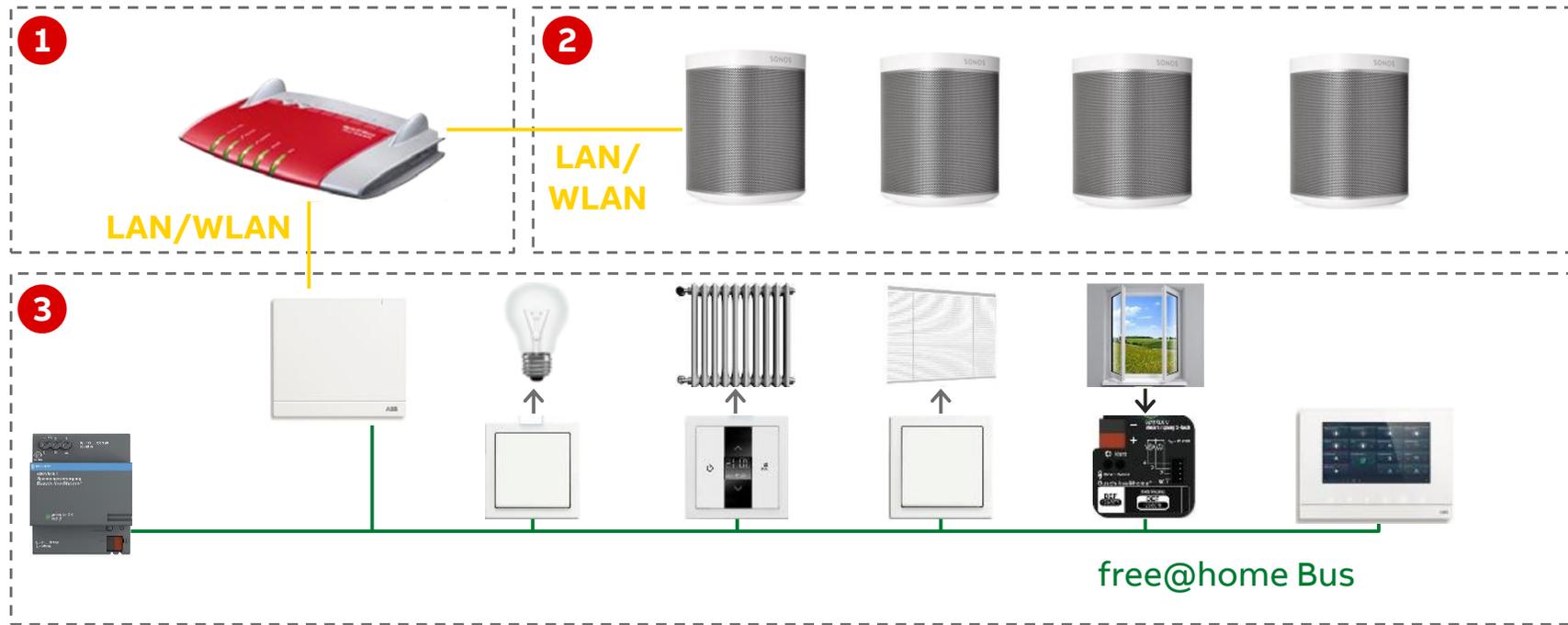
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- Sonos speakers can be added to free@home, if they are in the same network
- All Sonos speakers must be connected to the same network as free@home
- Up to 32 speakers can be added to one Sonos system



# ABB-free@home® – Integrations

Sonos



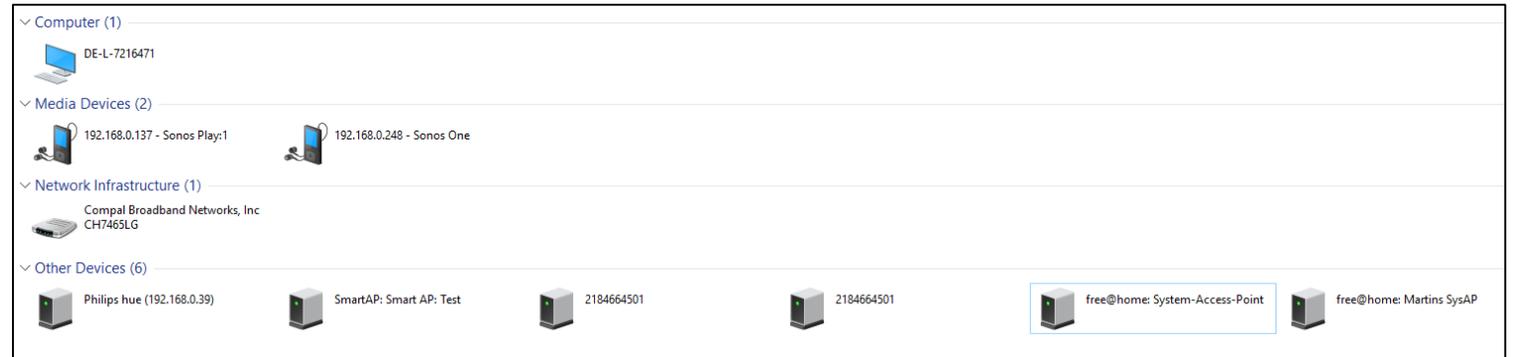
The integration of the Sonos system into free@home is carried out with the aid of the Sonos API. This means that the commands of the free@home system are “compiled” within the free@home system access point, transmitted from there via the IP protocol to the Sonos speaker to control the music in your house

# ABB-free@home® – Integrations

## Sonos

### Commissioning

1. System Access Point and all Sonos speaker must be connected to the same network
2. free@home will automatically detect the Sonos system (visible via 'Settings')

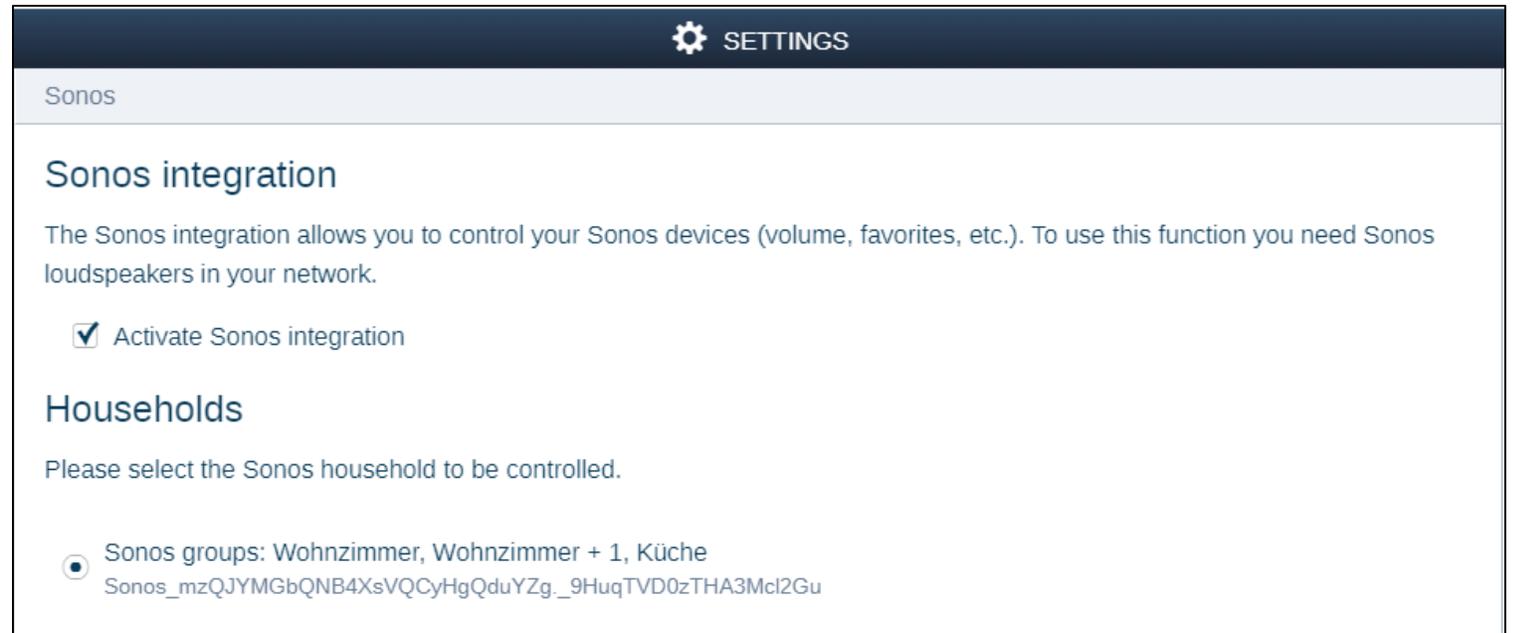


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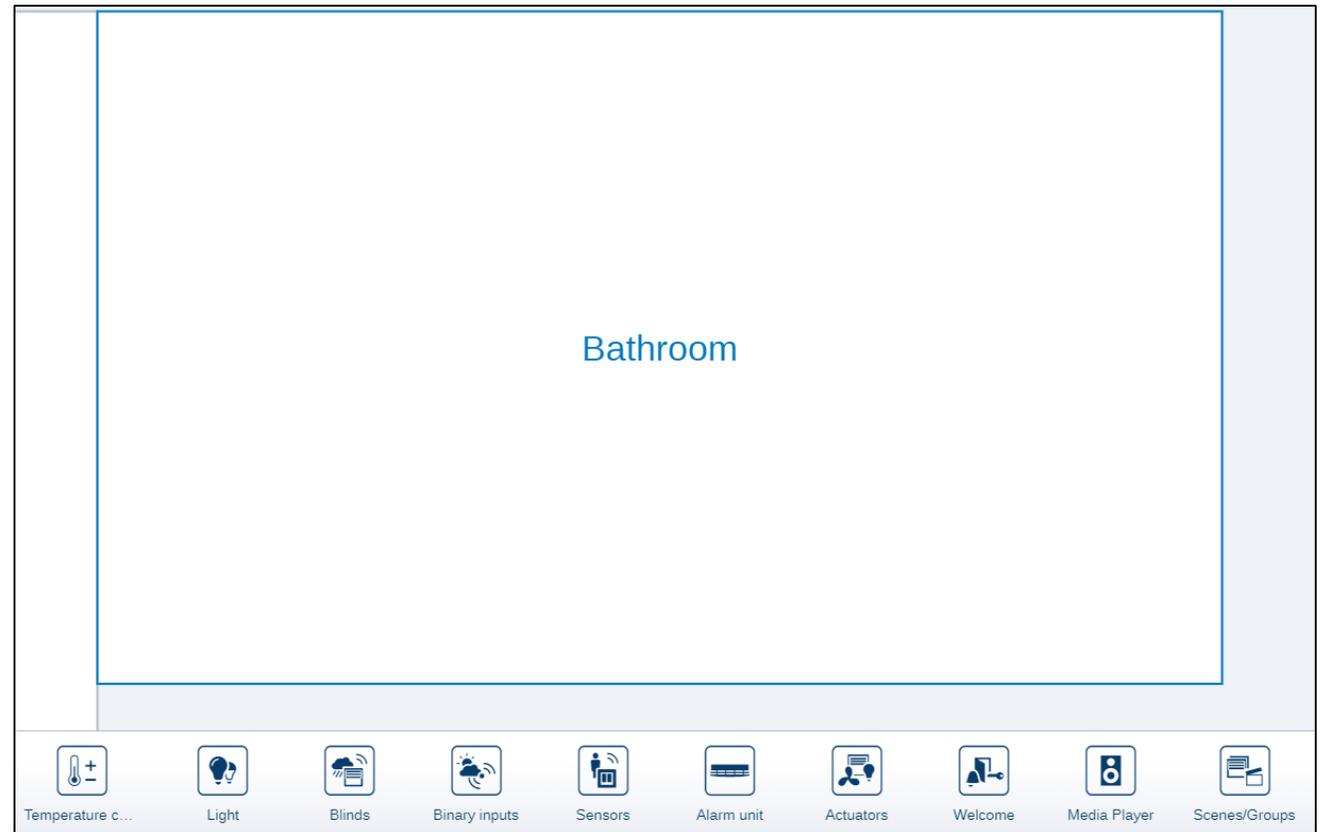


# ABB-free@home® – Integrations

## Sonos

### Placing, linking and functions

1. The Sonos speaker can be placed in the “Device” menu now
2. All speakers are visible in the submenu “Media Player” and displayed as “Sonos”
3. Devices can be added and identified like any other free@home actuator
4. Now the speakers can be linked with a sensor
5. Both sides of the sensor must be linked to have full control (play/pause/volume)
6. The settings for the right side of the rocker can be adjusted

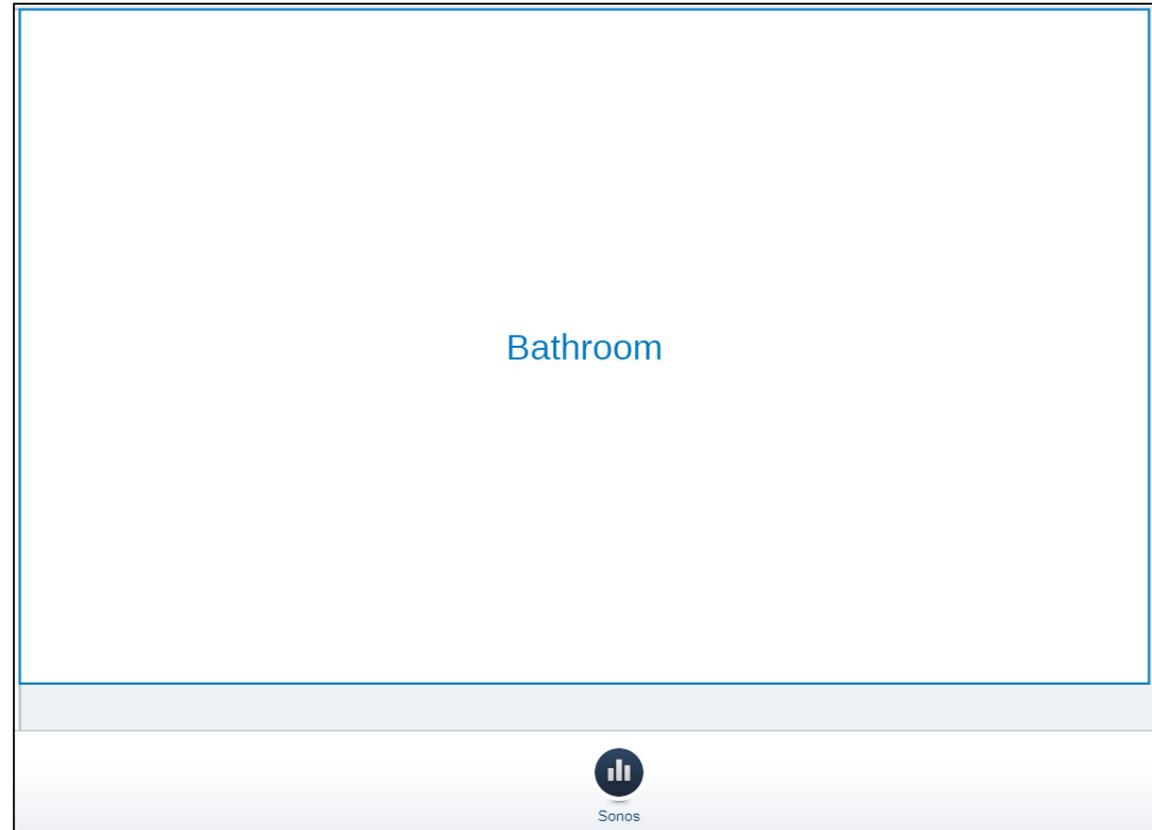


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The screenshot shows a mobile application interface titled "ALLOCATION SONOS". On the left, there is a list of media players under the heading "Media Player". The list contains two entries: "#A000CFA66C46 Küche +1" and "#A000EA738144 Wohnzimmer +1", each with a right-pointing chevron. On the right side, there is a large grey area with an information icon (a lowercase 'i' in a circle) and the text "Please allocate a channel". Below this, it says "Finding the correct channel depends on the device that has been identified." and "For most sensors, the sensor can be either switched directly or triggered. In the case of actuators, an element can be selected from the list on the left side. Here, the button in the detailed view of the device can then be used, for example, to identify a connected lamp." At the bottom, there are two buttons: a blue 'x' on the left and a grey checkmark on the right.

ALLOCATION SONOS	
Media Player	
#A000CFA66C46 Küche +1	>
#A000EA738144 Wohnzimmer +1	>

**Please allocate a channel**

Finding the correct channel depends on the device that has been identified.

For most sensors, the sensor can be either switched directly or triggered. In the case of actuators, an element can be selected from the list on the left side. Here, the button in the detailed view of the device can then be used, for example, to identify a connected lamp.

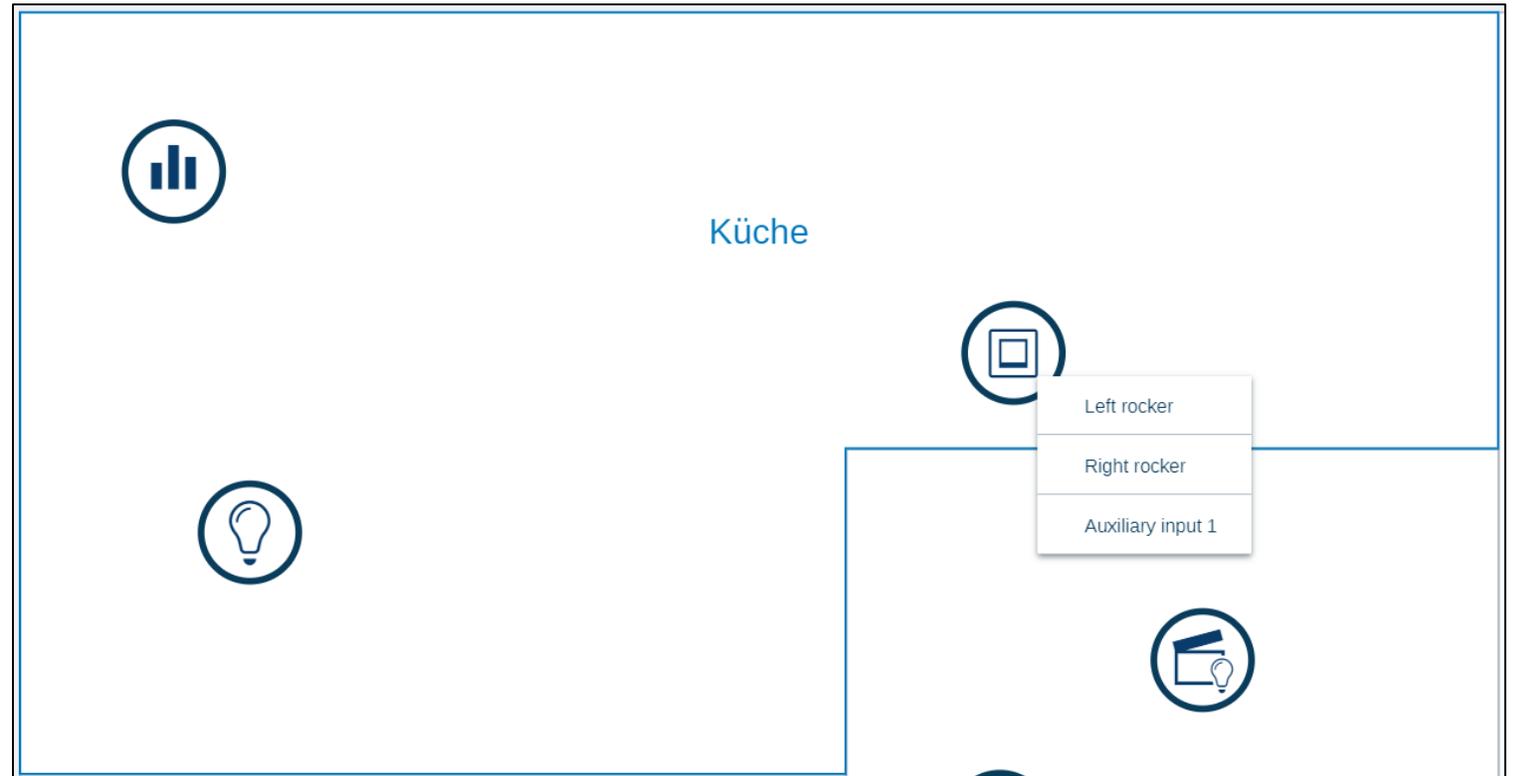
Use the serial number printed on the device to find the corresponding device.

# ABB-free@home® – Integrations

## Sonos

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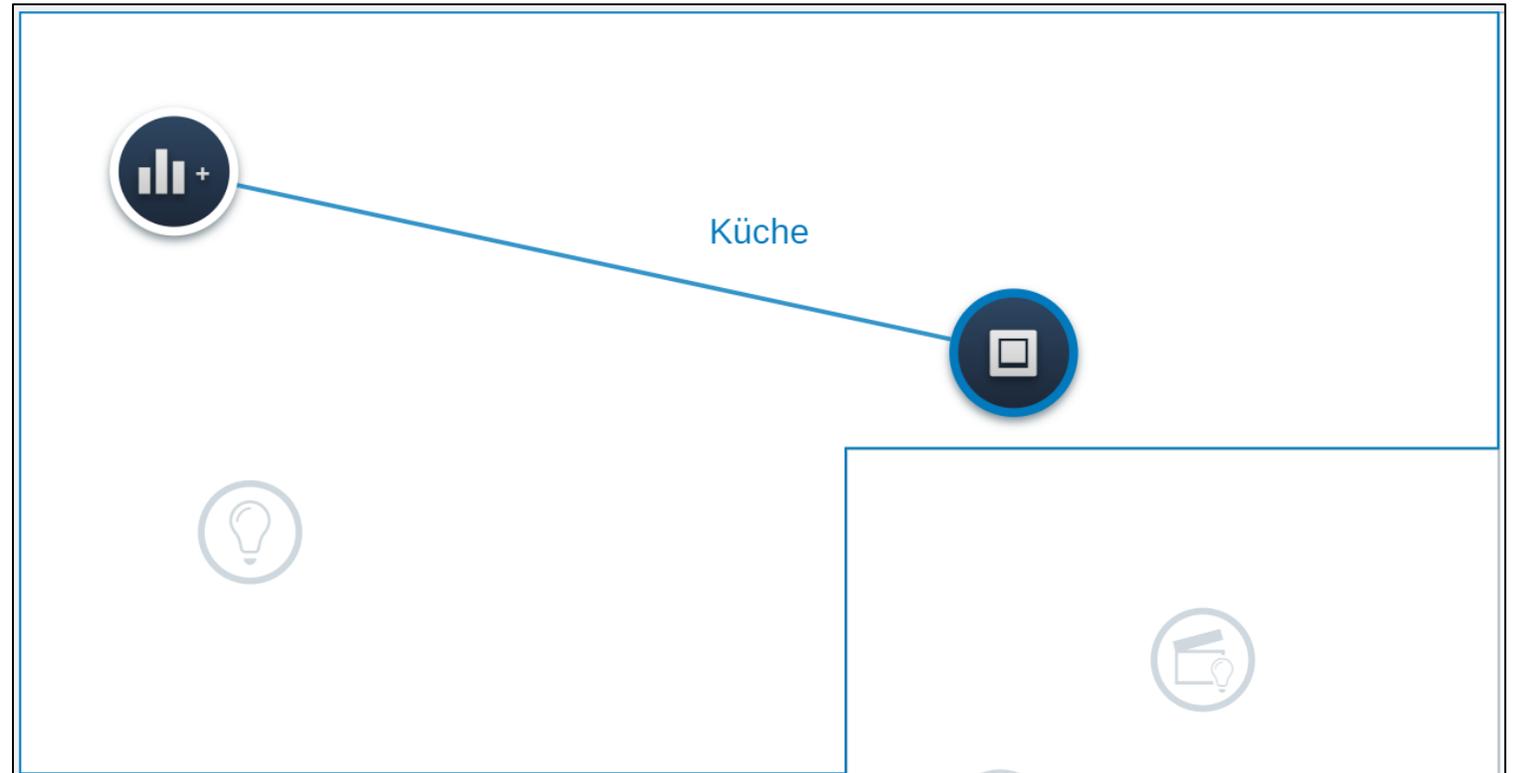


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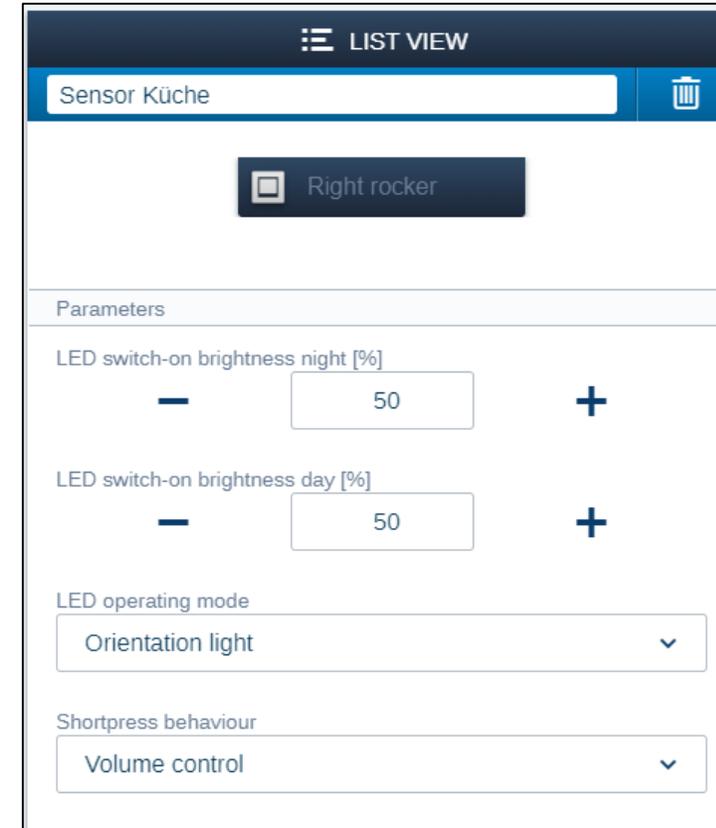


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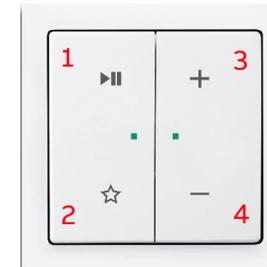


# ABB-free@home® – Integrations

## Sonos

### Control

- Sonos can be controlled with
  - free@home 2-fold sensor
  - Panel
  - Scenes



2-fold f@h - sensor:

1: short press: plays/pause

long press: next title

2: short press: next favorite

long press: previous title

3/4: turn up and down

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# ABB-free@home<sup>®</sup> – Integrations

Amazon Alexa

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# ABB-free@home® – Integrations

## Amazon Alexa

### Overview

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- Alexa is an intelligent personal assistant developed by Amazon
- The integration enables voice control of up to 65 functions within the free@home system

### Requirements:

- Amazon Alexa personal assistant (for example Amazon Echo or Amazon Echo Dot)
- Amazon user account
- A set up free@home system
- ABB MyBuildings account
- Internet connection

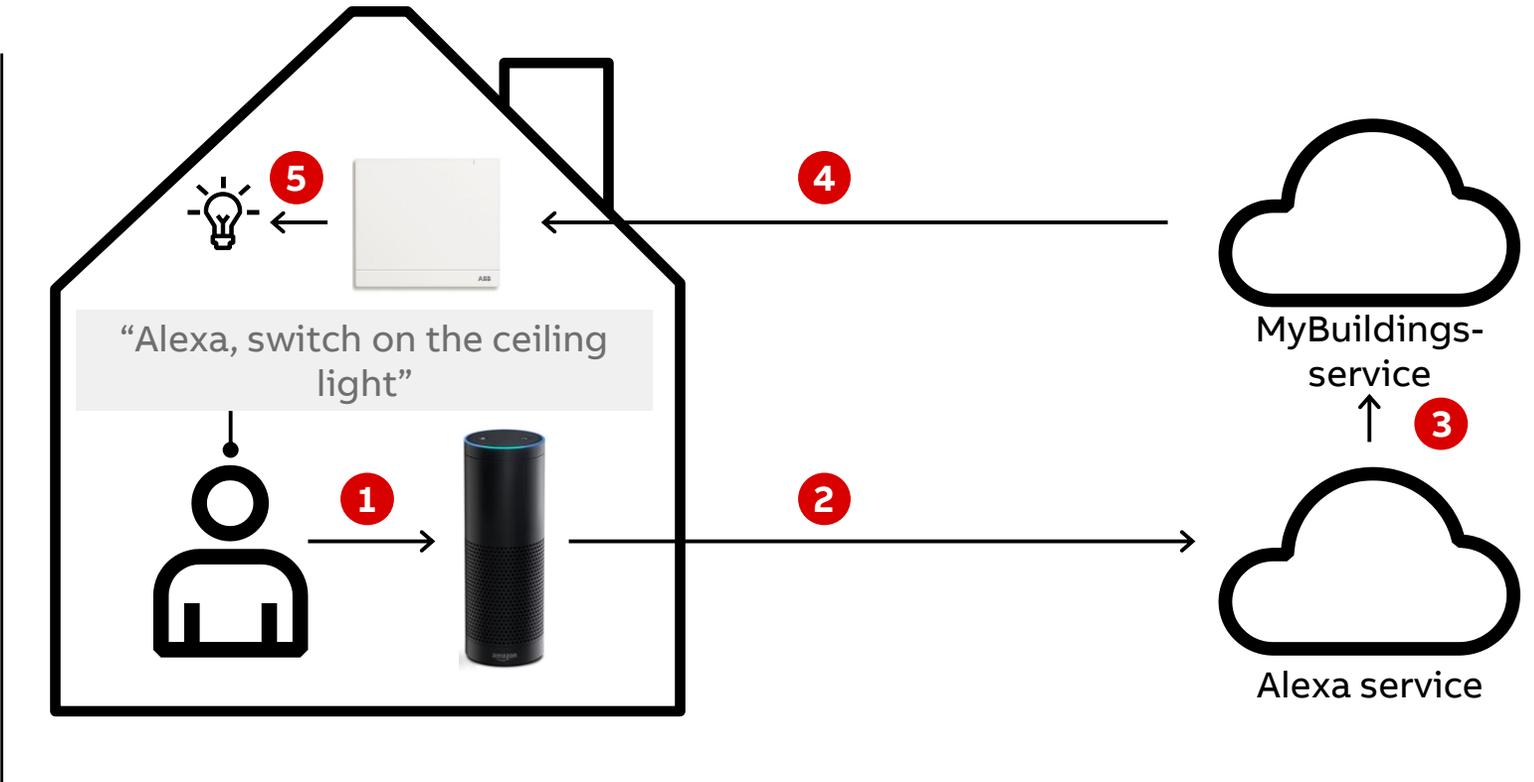


# ABB-free@home® – Integrations

## Amazon Alexa

### Overview

1. The user starts the speech assistant with the keyword “Alexa,...”
2. The spoken sentence “Turn on the lights” will be transferred to Alexa Services and interpreted
3. The extracted command “Lights on” will now be transferred to the ABB MyBuildings service...
4. ...and forwarded to the local installation
5. The command is realized by an installed switching actuator

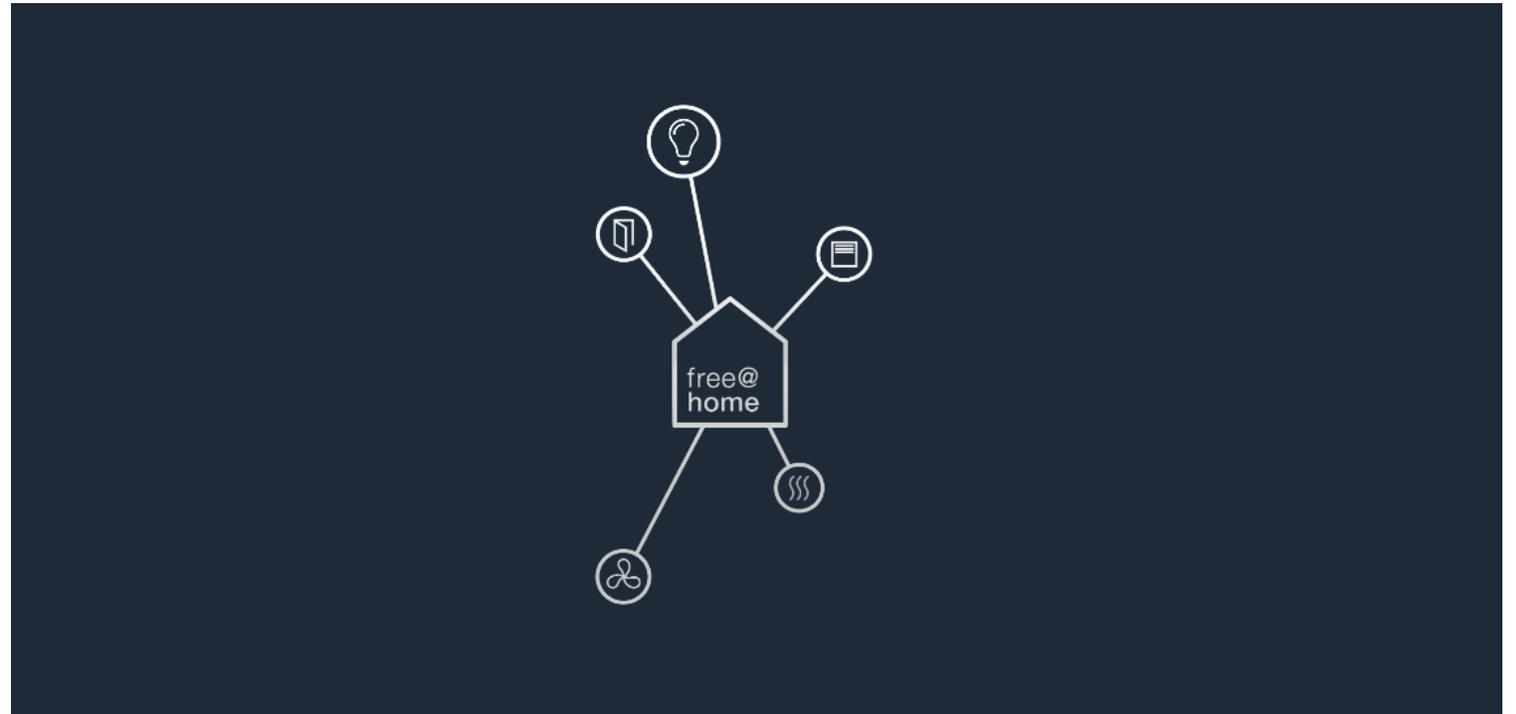


# ABB-free@home® – Integrations

## Amazon Alexa

### Installation

1. Log in to the free@home user interface
2. Select under “Settings” → “MyBuildings Portal” → “Connection” and enter your user data for the MyBuildings Portal there
3. Activate free@home API
4. Open the Amazon Alexa App on your Smartphone or Tablet



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The screenshot displays the 'SETTINGS' interface for 'myBUSCH-JAEGER'. The left sidebar lists various settings categories, with 'myBUSCH-JAEGER' selected at the bottom. The main content area shows the 'Connection' settings for the selected system. The 'Connection' section includes a 'Logout' button, a user profile icon, and several configuration options:

- SysAP UUID:** fd56e95d-6a1b-417e-b573-42b5b1ac6cf0
- Username:** KNX-Training
- State:** Connected
- Activate the remote access to myBUSCH-JAEGER
- Enable sending of push notifications on updates and device events
- Activate the free@home API

Below these options, a disclaimer states: "By activating this option you agree that your free@home system is allowed to communicate with 3rd party cloud services via the myBusch-Jaeger cloud. Your data are shared only with services that have been actively authorised by you."

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Connection Logout

 myBUSCH-JAEGER

SysAP UUID	fd56e95d-6a1b-417e-b573-42b5b1ac6cf0
Username	KNX-Training
State	Connected

Activate the remote access to myBUSCH-JAEGER

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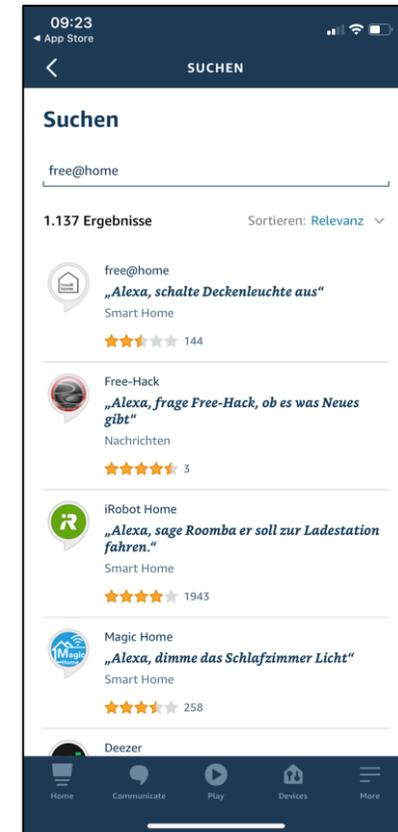
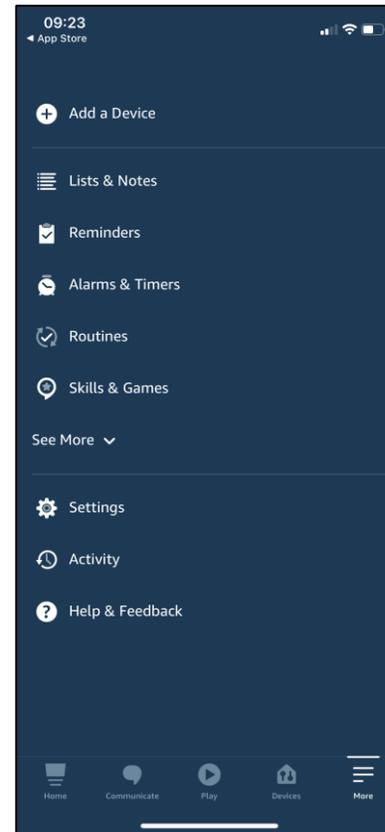


# ABB-free@home® – Integrations

## Amazon Alexa

### App settings

1. Open your profile page
2. Go to menu entry “Skills” and search for the Smart Home Skill “free@home”
3. Select “Activate”
4. You are redirected to the MyBuildings portal Login screen. Login with your credentials and confirm with “OK”
5. The successful registration is confirmed by an according notification
6. Click on “Done” to proceed to the next step
7. Click on “find devices“. All configured free@home devices and scenes are now being ingested in to the Alexa App
8. Your free@home devices can now be controlled by Alexa

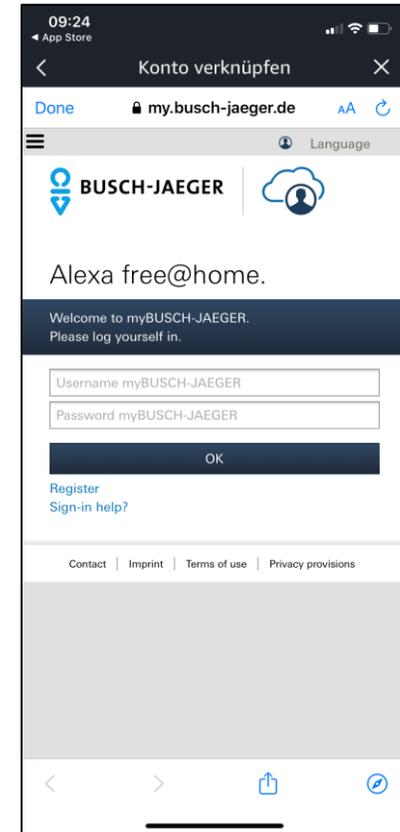


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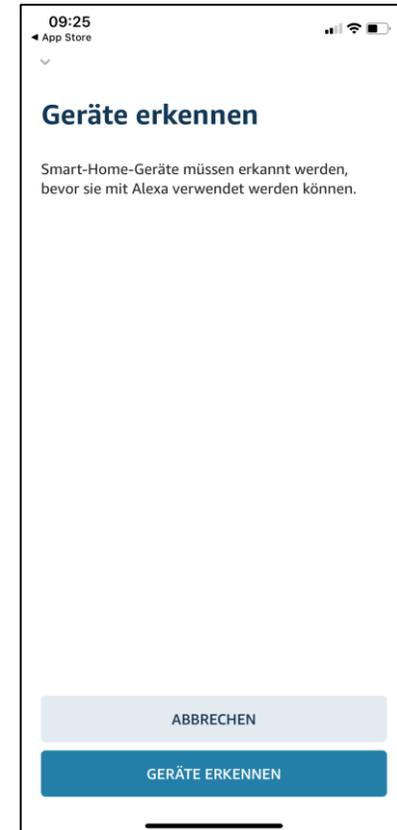


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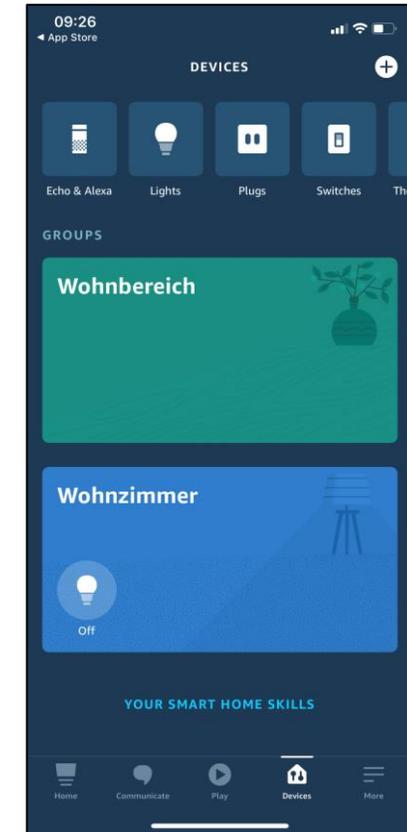
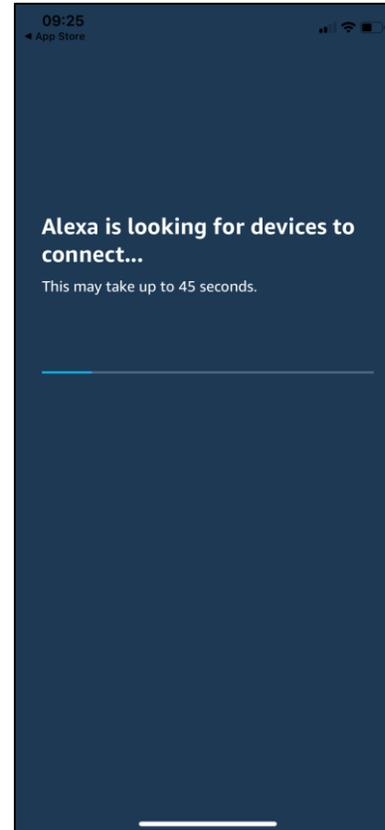


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# ABB-free@home® – Integrations

Amazon Alexa

## General Information

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### 1. Naming of Devices

The names of your devices are initially set in the free@home app. These are transferred to Alexa. If it turns out that the names turn out to be impractical for the voice use case, they can also be changed within the Alexa app. The names are changed only in the Alexa app, the names in the free@home system are retained

### 2. Delete Devices

All actuators, room temperature controllers and scenes that are set up in free@home will be transferred to Alexa. If there are devices or scenes that should not be controlled by Alexa, you can disable or delete these devices within the Alexa app

### 3. Door Entry

For security reasons, door openers created in free@home will not be transferred to Alexa

### 4. Philips Hue Devices

Philips Hue devices that have been integrated into free@home will not be transferred to Alexa. To control Philips Hue devices via Alexa use the Philips Hue skill

### 5. Sonos Devices

Sonos devices that have been integrated into free@home will not be transferred to Alexa. To control Sonos via Alexa use the Sonos skill

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# ABB-free@home<sup>®</sup> – Integrations

Google Home

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# ABB-free@home® – Integrations

## Google Home

### Overview

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- The free@home action for the Google Assistant allows easy control of free@home smart home devices using the Google voice assistant

### Requirements:

- A set up Google voice assistant (e.g. Google Home, Google Nest Mini, Sonos One, Sonos Beam, Sonos Arc)
- A Google Account
- A set up free@home system
- Internet connectivity
- ABB MyBuildings account

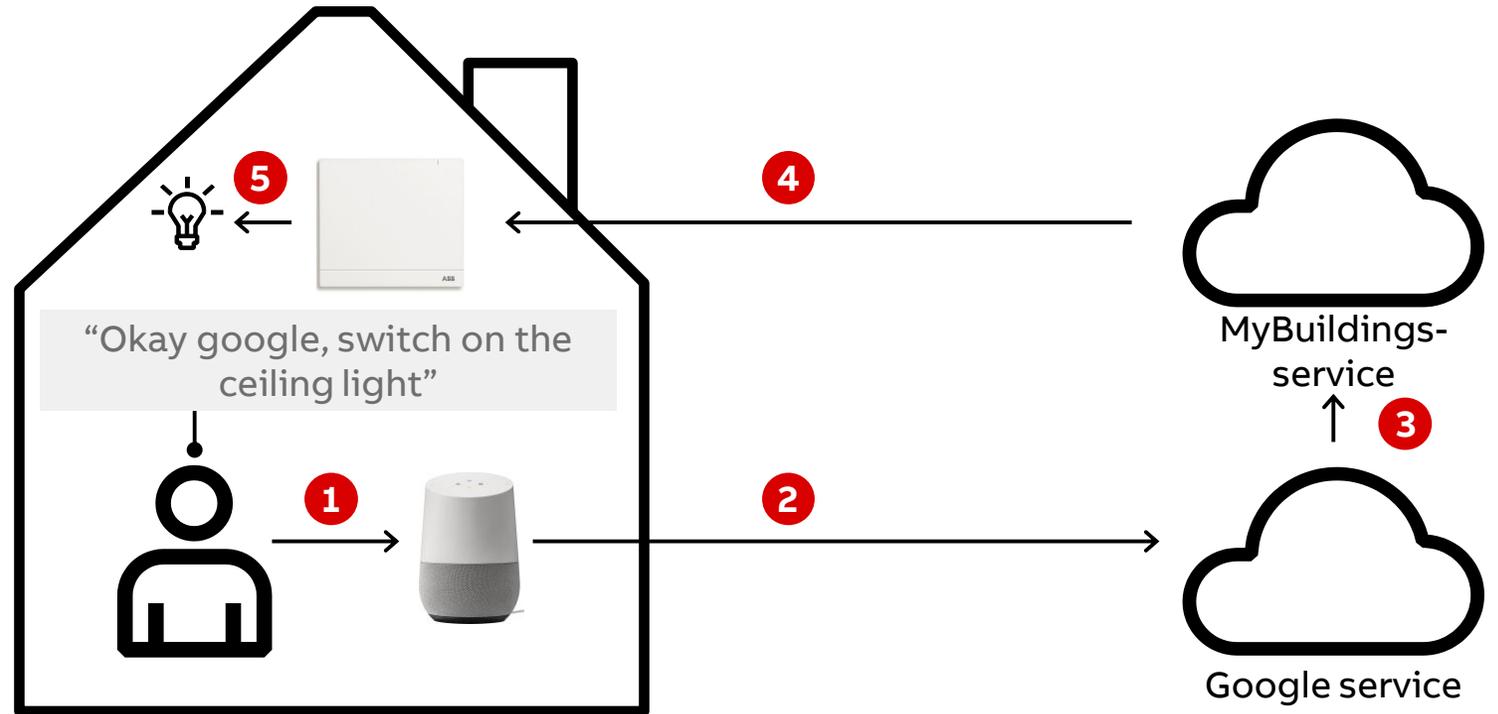


# ABB-free@home® – Integrations

## Google Home

### Overview

1. The user starts the speech assistant with the keyword “Alexa,...”
2. The spoken sentence “Turn on the lights” will be transferred to Alexa Services and interpreted
3. The extracted command “Lights on” will now be transferred to the MyBuildings service...
4. ...and forwarded to the local installation
5. The command is realized by an installed switching actuator

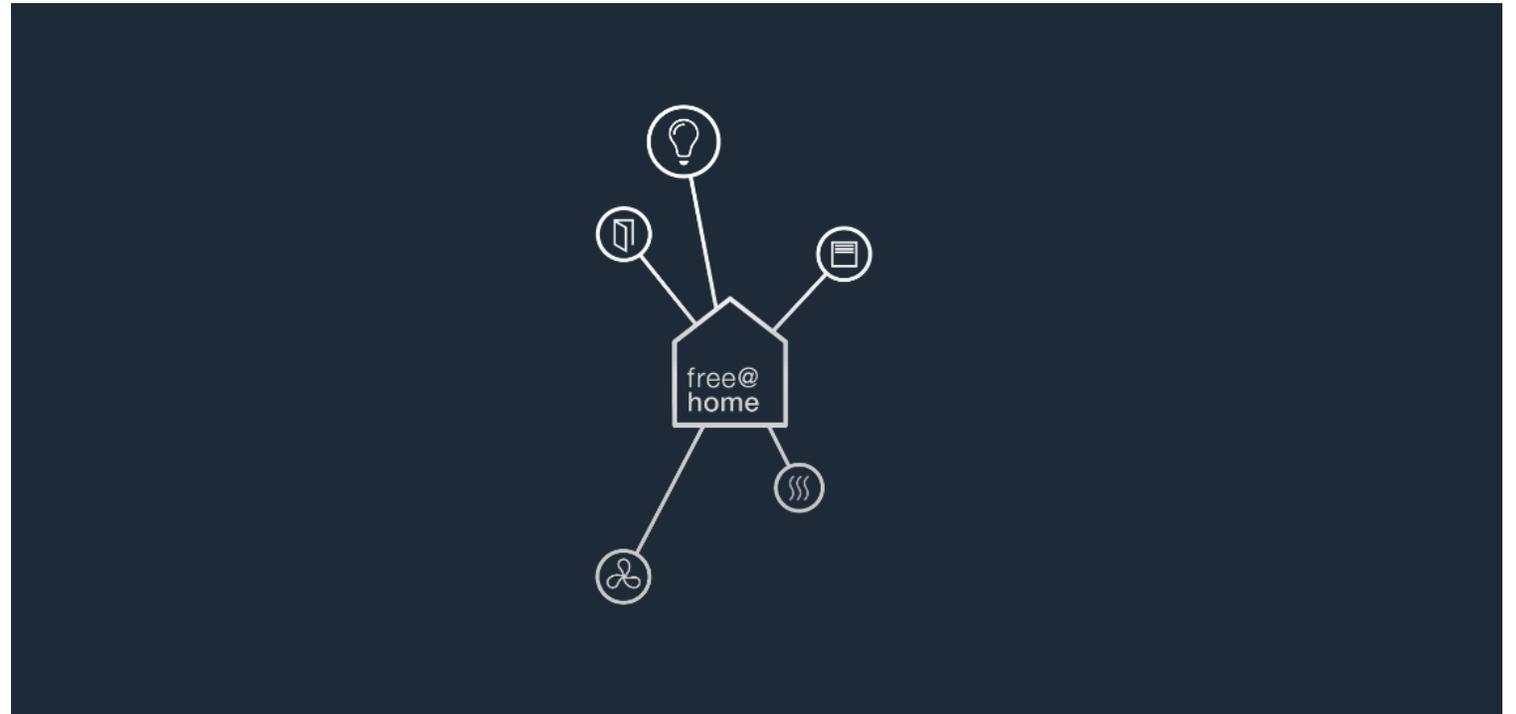


# ABB-free@home® – Integrations

## Google Home

### Installation

1. Log in to the free@home user interface
2. Select under "Settings" → "MyBuildings Portal" → "Connection" and enter your user data for the MyBuildings Portal there
3. Activate free@home API
4. Open the Google Assistant app on your smartphone or tablet



# ABB-free@home® – Integrations

## Google Home

### Installation

1. Log in to the free@home user interface
2. Select under “Settings” → “MyBuildings Portal” → “Connection” and enter your user data for the MyBuildings Portal there
3. Activate free@home API
4. Open the Google Assistant app on your smartphone or tablet

The screenshot displays the 'SETTINGS' interface for 'myBUSCH-JAEGER'. The left sidebar lists various settings categories, with 'myBUSCH-JAEGER' selected at the bottom. The main content area shows the 'Connection' tab, which includes a 'Logout' button, a user profile icon, and several configuration options. The 'Activate the free@home API' option is currently unchecked. Below this, a disclaimer states: 'By activating this option you agree that your free@home system is allowed to communicate with 3rd party cloud services via the myBusch-Jaeger cloud. Your data are shared only with services that have been actively authorised by you.'

Settings	myBUSCH-JAEGER	Connection	Logout
System		Connection	
System information	>	Cloud devices	
User administration	>	Cloud services	
Localization	>	3a273e56-c214-4d39-a1e8-31e0052162ba	
Project backups	>	fhapl_FU329X20CIOBF243	
Update	>	b49d532d-f17a-4b55-bb23-973ff2cc0002	
Hyperlinks	>	Galaxy S8 [DEV,BJE]	
Locations	>	7eae3a95-b396-4faf-82ad-177dc95f5fcf	
Migration assistant	>	iPad von Martin	
Service	>	a6056e22-49aa-4239-8652-dcb2b6d722ea	
free@home monitor	>	iPhone von Martin [BJE]	
Connections		2c072331-57e8-4e8d-a74c-18602ef343ed	
Network settings	>	Samsung Galaxy S7 [DEV,BJE]	
free@home wireless	>	3e32e896-b780-4814-a27f-2089af028e5	
myBUSCH-JAEGER	>	SM-G930F	
		16030ad1-908e-4285-9d25-e1878cf2e87	
		SM-G930F	
		89cada2c-e9c3-4f9e-8da1-015bec4c07e5	
		SM-G950F	
		7e48a26c-976b-4476-a91e-ae8c09bb25c	

# ABB-free@home® – Integrations

## Google Home

### Installation

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2. Select under “Settings” → “MyBuildings Portal” → “Connection” and enter your user data for the MyBuildings Portal there
3. Activate free@home API
4. Open the Google Assistant app on your smartphone or tablet

Connection Logout

 myBUSCH-JAEGER

SysAP UUID	fd56e95d-6a1b-417e-b573-42b5b1ac6cf0
Username	KNX-Training
State	Connected

Activate the remote access to myBUSCH-JAEGER

Enable sending of push notifications on updates and device events

---

Activate the free@home API

By activating this option you agree that your free@home system is allowed to communicate with 3rd party cloud services via the myBusch-Jaeger cloud.  
Your data are shared only with services that have been actively authorised by you.

---

# ABB-free@home® – Integrations

## Google Home

### Installation

---

1. Log in to the free@home user interface
2. Select under “Settings” → “MyBuildings Portal” → “Connection” and enter your user data for the MyBuildings Portal there
3. Activate free@home API
4. Open the Google Assistant app on your smartphone or tablet

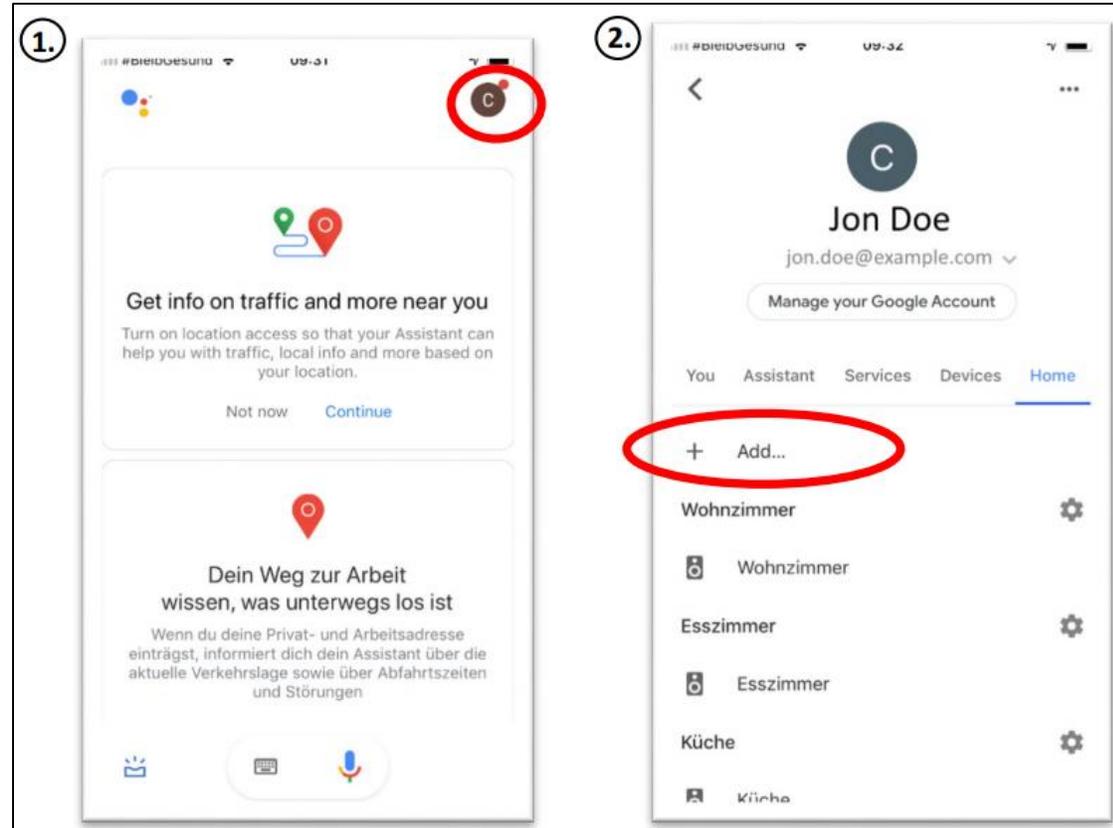


# ABB-free@home® – Integrations

## Google Home

### App settings

1. Open your profile page
2. Select “Home” -> “Add”
3. Select “Link a smart home device”
4. Select the "free@home" service and add it
5. You will now be forwarded to the myBusch-Jaeger portal. Enter your MyBuildings Portal access data here
6. If the connection has been successfully established, you will be returned to the Assistant app. Your free@home devices are added automatically

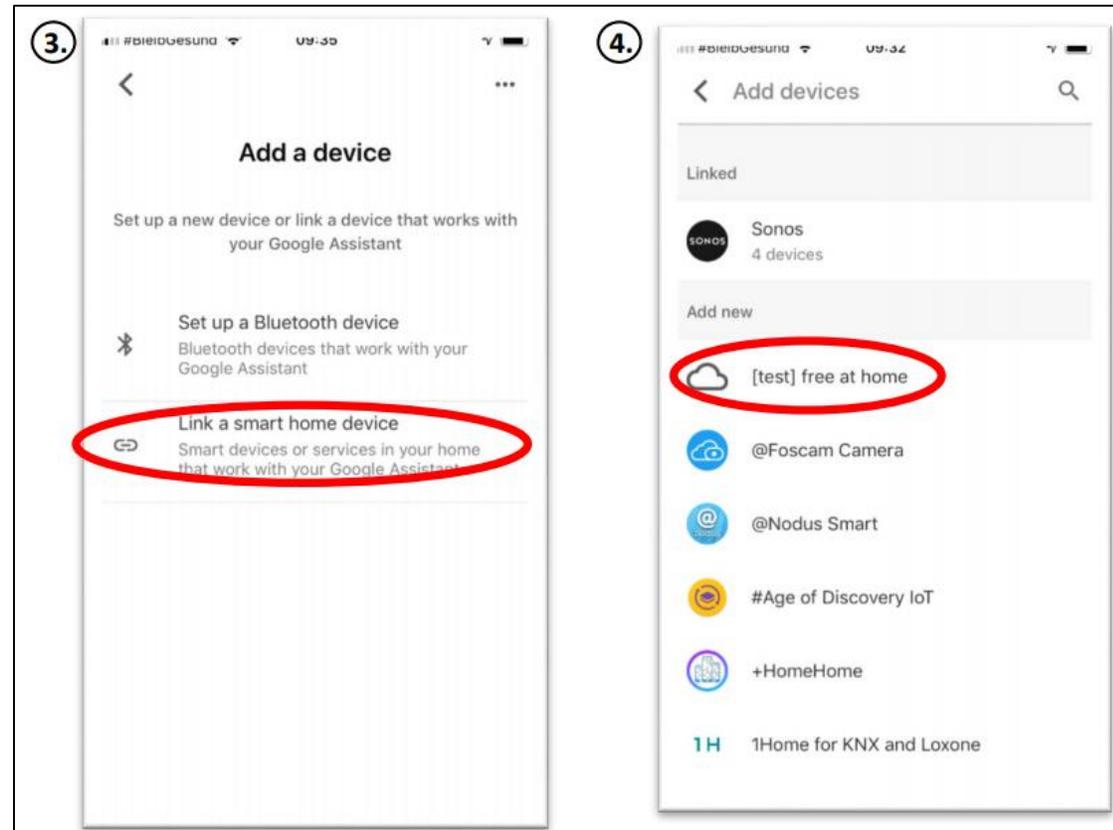


# ABB-free@home® – Integrations

## Google Home

### App settings

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2. Select “Home” -> “Add”
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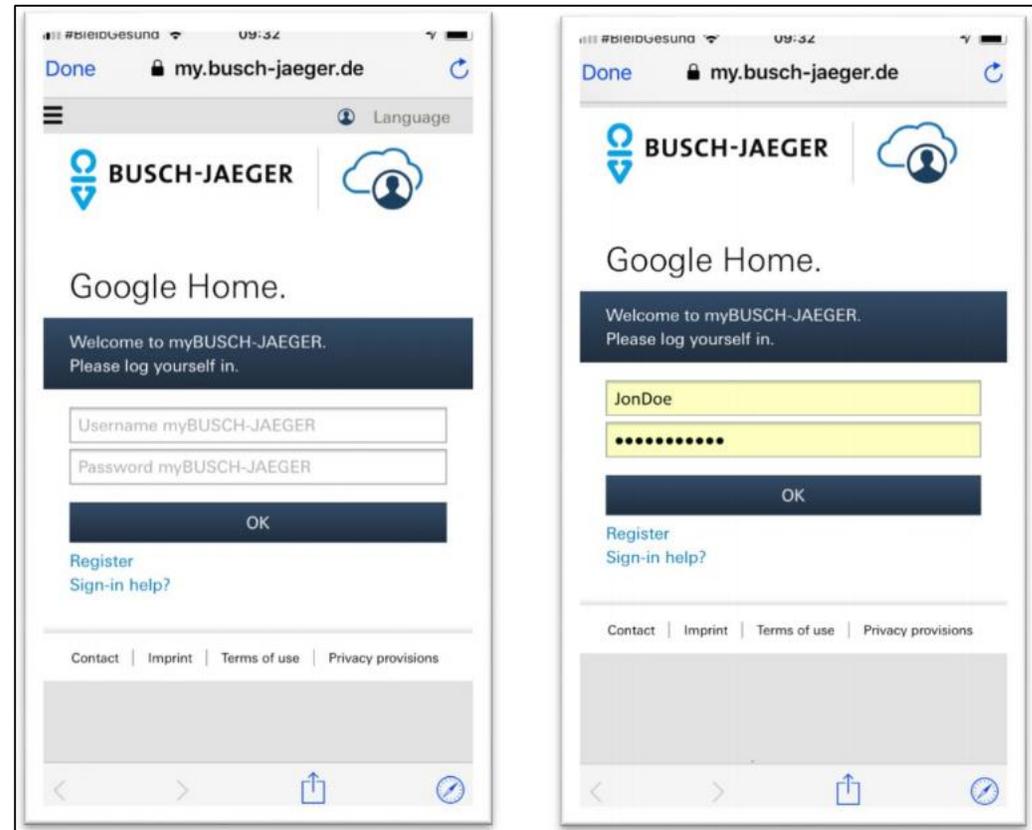


# ABB-free@home® – Integrations

## Google Home

### App settings

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4. Select the “free@home” service and add it
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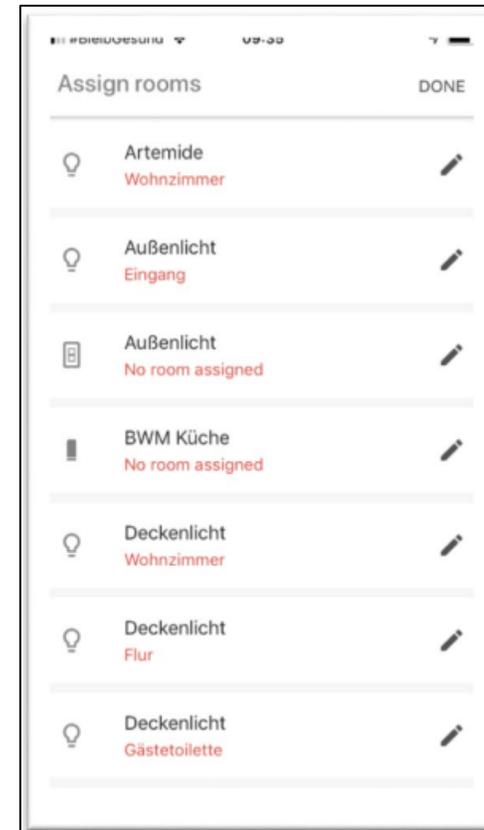


# ABB-free@home® – Integrations

## Google Home

### App settings

1. Open your profile page.
2. Select “Home” -> “Add”
3. Select “Link a smart home device”
4. Select the “free@home” service and add it
5. You will now be forwarded to the myBusch-Jaeger portal. Enter your MyBuildings Portal access data here
6. If the connection has been successfully established, you will be returned to the Assistant app. Your free@home devices are added automatically



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# ABB-free@home® – Integrations

## Google Home

### General Information

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#### 1. Naming of devices

You enter the names of your devices in the free@home app. These are then transferred to the Google Assistant. If the names turn out to be impractical to be called out by voice, they can also be changed within the Assistant app. The names are only changed for the voice control, the names in the free@home system are retained

#### 2. Door communication

For security reasons, door openers in free@home system are not transferred to the Google Assistant

#### 3. Philips Hue devices

Philips Hue devices that were integrated in free@home are not transferred to the assistant. To control Philips Hue devices via the Assistant, use the Philips Hue service

#### 4. Sonos devices

Sonos devices that were integrated in free@home are not transferred to the Assistant. To control Sonos devices via Google, the Sonos service is to be used

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# ABB-free@home<sup>®</sup> – Integrations

Miele & Home Connect

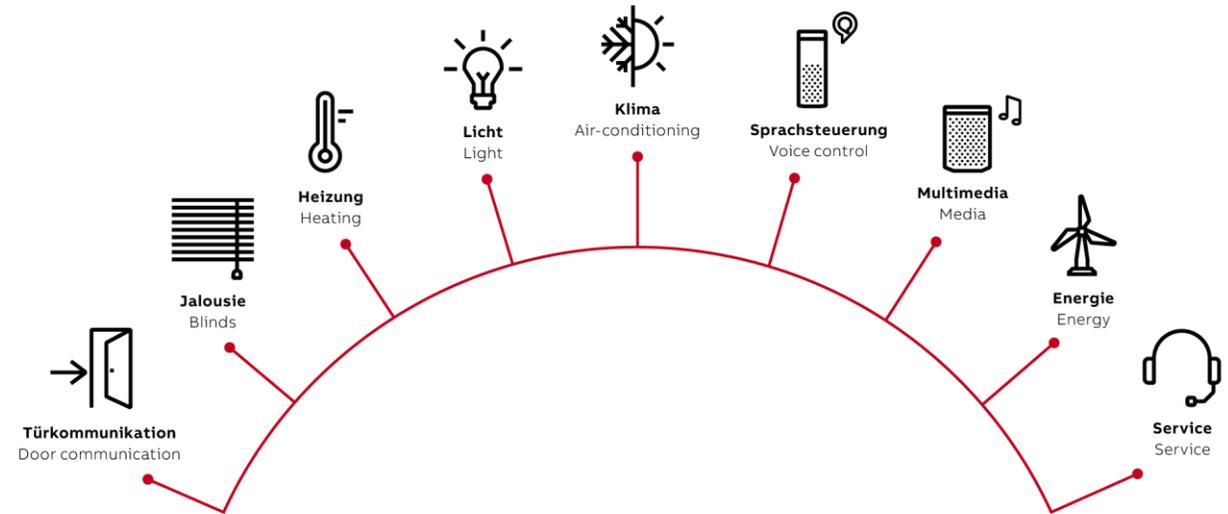
# ABB-free@home® – Integrations

Miele & Home Connect

## Goals

- Customers are able to integrate home appliances from major brands into free@home and to use them like any other native free@home device
- Connected Home Appliances appear with dedicated icons in the free@home
- Full interaction as known from free@home is possible: controlling, getting status, adding to scenes (e.g. all-off switch), usage inside conditions or actions

**Giving our customers the feeling of one overall smart home regardless of source and matter**





### Use Cases:

Early Bird Switch -> Dims up the Light, raises the temperature and preheats the coffee machine

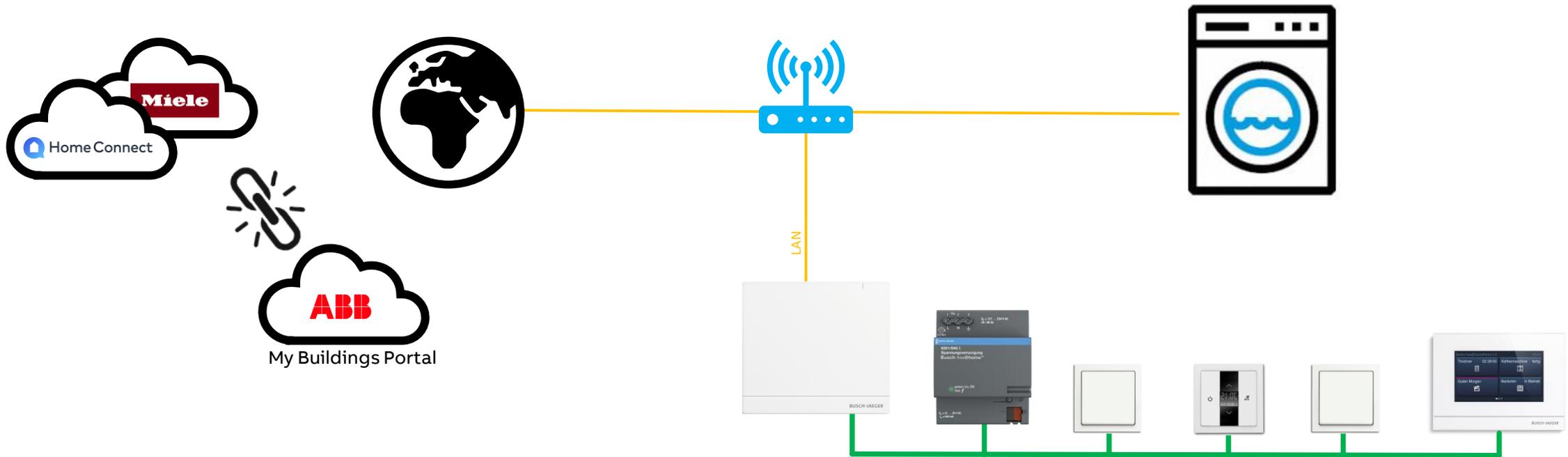
Fridge Alarm -> An inadvertently left open door of the fridge by flashing a light

Occupancy Sensor -> The kitchen cabinet lighting turns on as soon as the Dish Washer is opened

# ABB-free@home® – Integrations

Miele & Home Connect

## Solution



# ABB-free@home® – Integrations

## Miele & Home Connect

### Check-Out of Home Appliances Service

The service will be available on both, the myBuschJaeger Portal and the ABB myBuildings Portal. On the following slides only the myBuschJaeger workflow is described which is the same as on ABB myBuildings Portal.

1. Log in on my.busch-jaeger.de
2. Navigating to “my Home” -> Busch-free@home -> extensions
3. Checking out the “Home Appliance Service” as known from other already existing services

#### Prerequisite:

1. myBuschJaeger Account is created
2. free@home sysAP is registered to myBuschJaeger Account
3. free@home API is activated
4. 3<sup>rd</sup> party Account (Miele / B/S/H/) is created and devices are added there

ABB-free@home®



Advice:

The ABB-free@home® remote access requires the updated ABB-free@home® app (from iOS app version 2.0 / from Android app version 3.0).

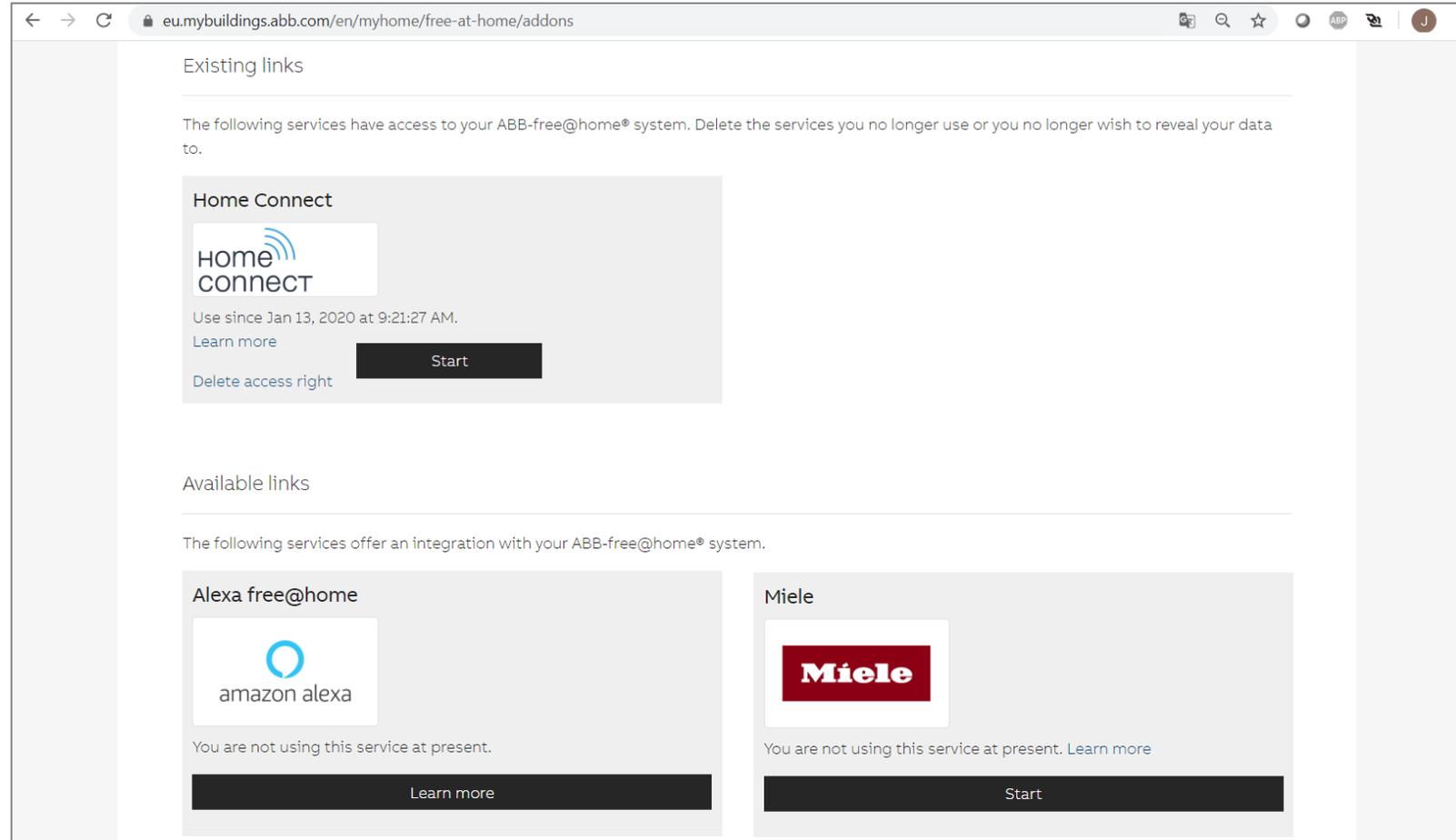
The remote access via MyBuildings portal offers you a convenient and secure cloud solution, with point-to-point encryption. Therefore no changes at your Internet router are necessary. Entering your MyBuildings portal login data in the free@home System Access Point and in the free@home app is sufficient to set up the remote access.

Devices	Extensions
<p>SM-G950F</p> <p>Edit   Delete</p> <p>available since: Feb 20, 2020</p> <p>ID: 7e48a26c-976b-4476-a91e-aea8c09bb25c</p> <p>Software-Version: 3.0.5-143</p> <p>Remote access status: activated</p>	<p>iPad von Martin</p> <p>Edit   Delete</p> <p>available since: Feb 6, 2020</p> <p>ID: a6056e22-49aa-4239-8652-dcb2b6d722ea</p> <p>Software-Version: 2.0.12-5</p> <p>Remote access status: activated</p>

# ABB-free@home® – Integrations

## Miele & Home Connect

Selecting the Service  
you want to connect



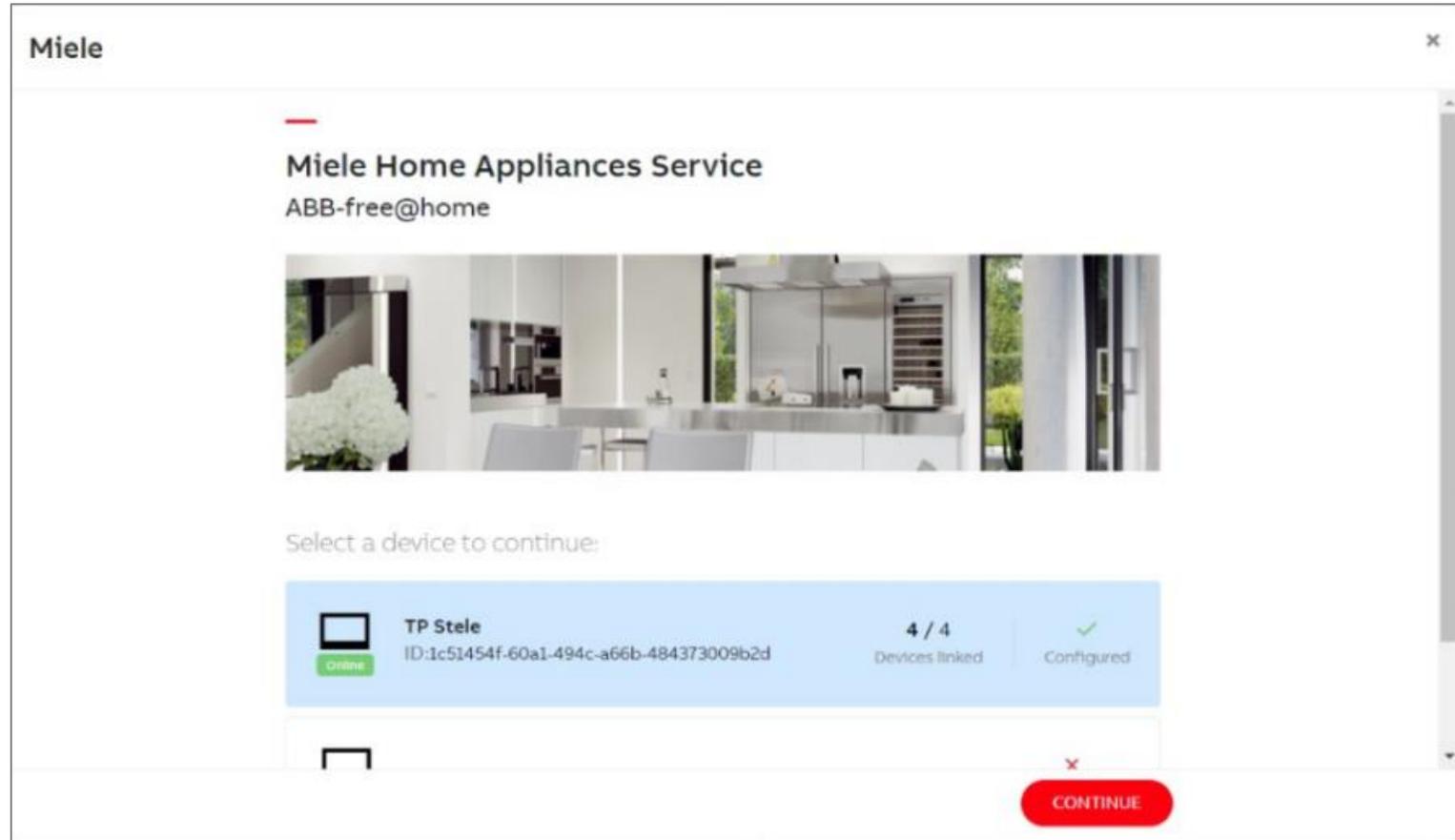
The screenshot shows a web browser window with the URL `eu.mybuildings.abb.com/en/myhome/free-at-home/addons`. The page is titled "Existing links" and contains the following content:

- Existing links:** A section titled "Existing links" with a sub-header "The following services have access to your ABB-free@home® system. Delete the services you no longer use or you no longer wish to reveal your data to." Below this is a card for "Home Connect" with the Home Connect logo, the text "Use since Jan 13, 2020 at 9:21:27 AM.", a "Learn more" link, a "Delete access right" link, and a "Start" button.
- Available links:** A section titled "Available links" with a sub-header "The following services offer an integration with your ABB-free@home® system." Below this are two cards:
  - Alexa free@home:** A card with the Amazon Alexa logo, the text "You are not using this service at present.", and a "Learn more" button.
  - Miele:** A card with the Miele logo, the text "You are not using this service at present. [Learn more](#)", and a "Start" button.

# ABB-free@home® – Integrations

## Miele & Home Connect

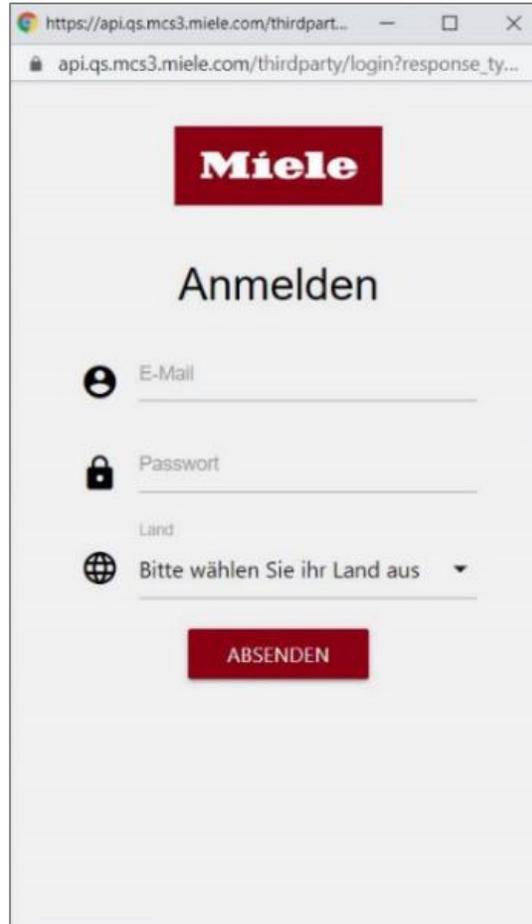
Selecting the SysAP  
to which the service  
should be applied to



# ABB-free@home® – Integrations

## Miele & Home Connect

Enter 3<sup>rd</sup> party account data to establish cloud connection

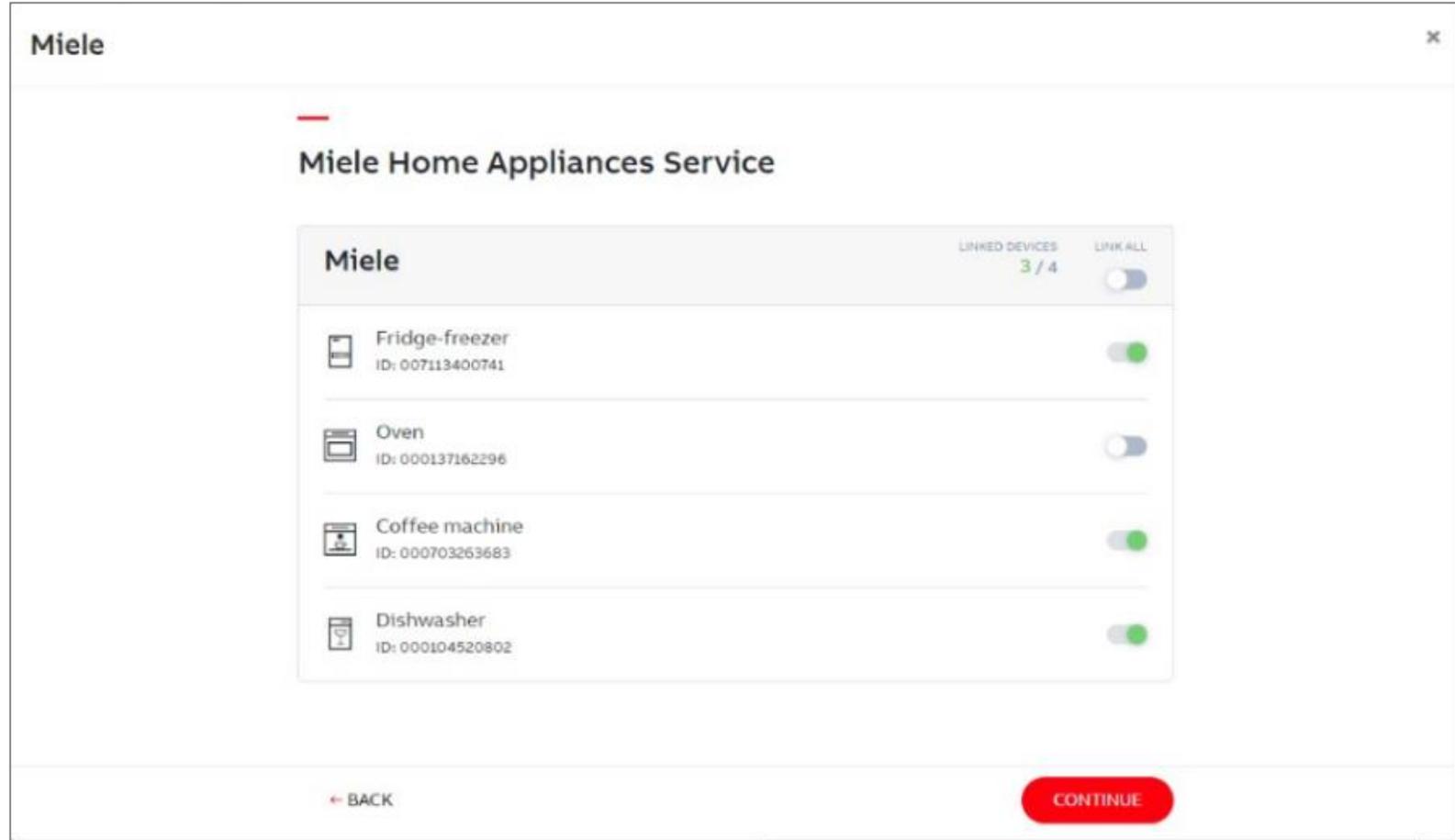


The screenshot shows a web browser window with the URL `https://api.qs.mcs3.miele.com/thirdpart...` in the address bar. The page content includes the Miele logo at the top, followed by the heading "Anmelden". Below the heading are three input fields: "E-Mail" with a person icon, "Passwort" with a lock icon, and "Land" with a globe icon and the text "Bitte wählen Sie ihr Land aus". A red "ABSENDEN" button is positioned at the bottom of the form.

# ABB-free@home® – Integrations

## Miele & Home Connect

Select Home Appliances  
which should be matched  
towards free@home

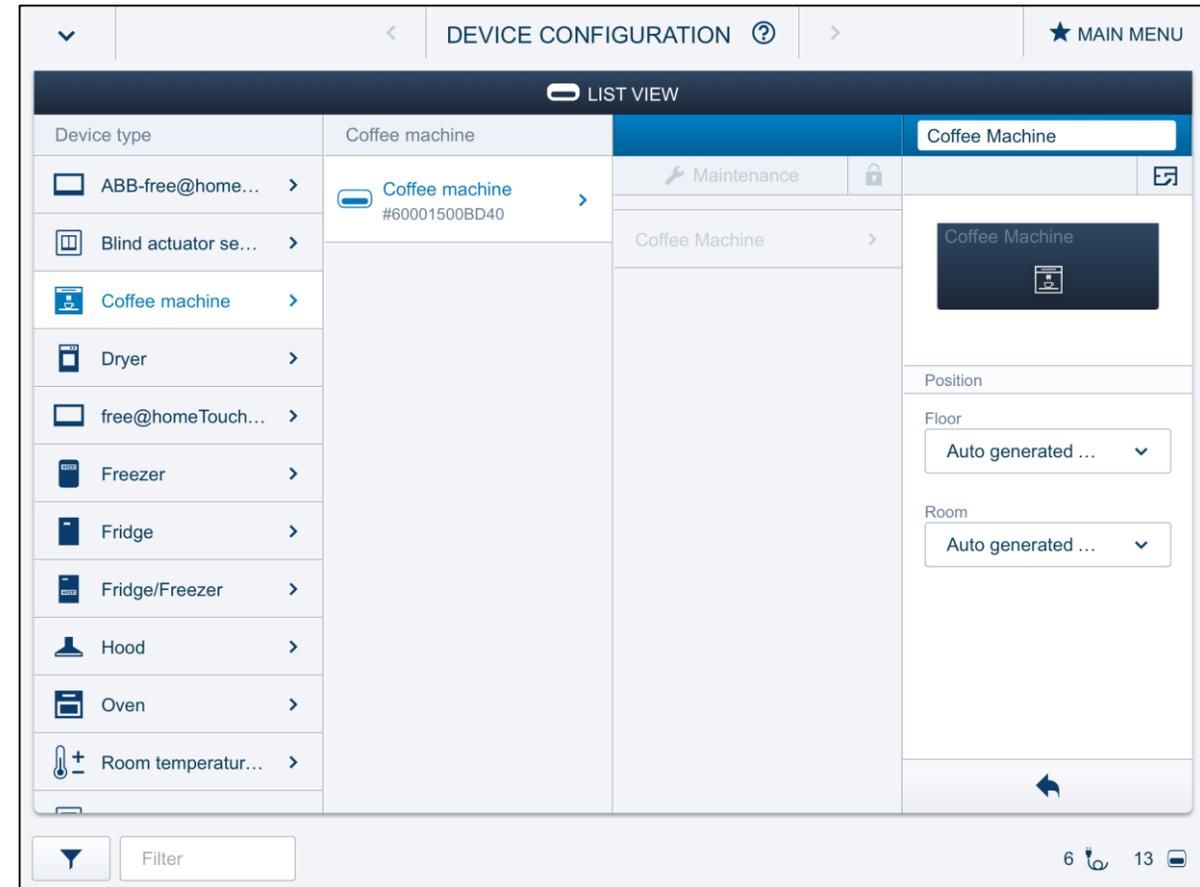


# ABB-free@home® – Integrations

Miele & Home Connect

## Commissioning of Home Appliances in f@h

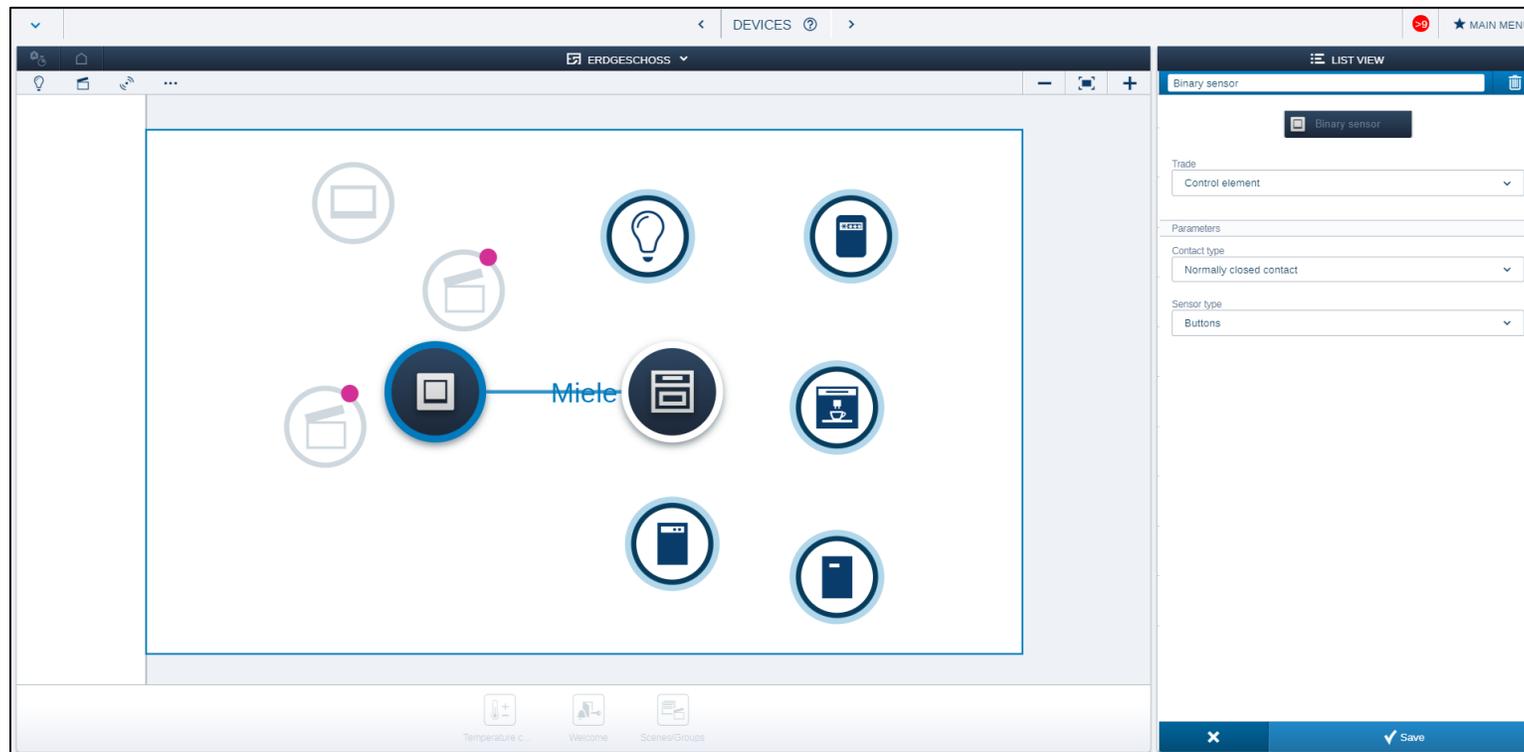
1. Opening local web Interface of free@home sysAP and log in
2. When a pop up appears of White Good Service grant the requested rights
3. Home Appliances should appear inside the device list
4. Working with the Home Appliances as with any other f@h device
  1. Locating inside the floor plan
  2. Connecting with other devices via drag and drop
  3. Using in scenes, conditions & actions and timetable



# ABB-free@home® – Integrations

Miele & Home Connect

## Operation via free@home sensor



# ABB-free@home® – Integrations

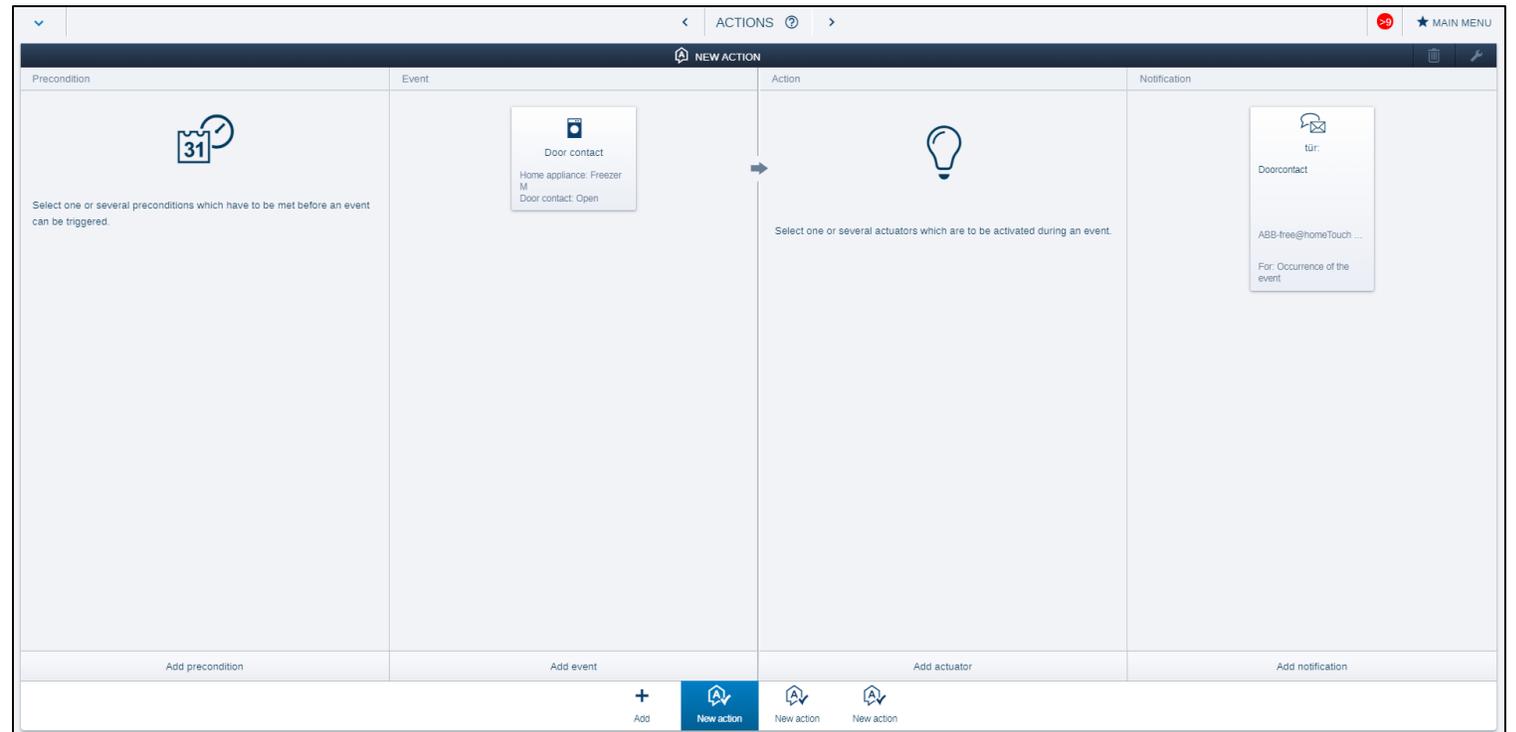
## Miele & Home Connect

### Actions / Notifications

Depending on the functionality of the device, notifications and actions can be triggered via the “Actions” menu

- “If the door contact of the freezer is open for more than 20 seconds, turn a light on (red) and send a notification to my free@home panel“
- “Send me an email, as soon as the mashing machine is ready“

→ Actions can be combined with all available free@home devices and all well known preconditions



# ABB-free@home® – Integrations

Miele & Home Connect

## Operation via 4,3“ Panel

- Status of devices (remaining time, pre-heating)
- Turning on/off (main functions of devices)
- Activation and status of special mode



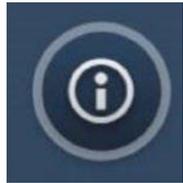
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# ABB-free@home® – Integrations

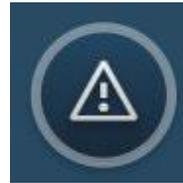
Miele & Home Connect

## Troubleshooting

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Devices are waiting for a manual operation on site or remote control functionality of the device is not activated



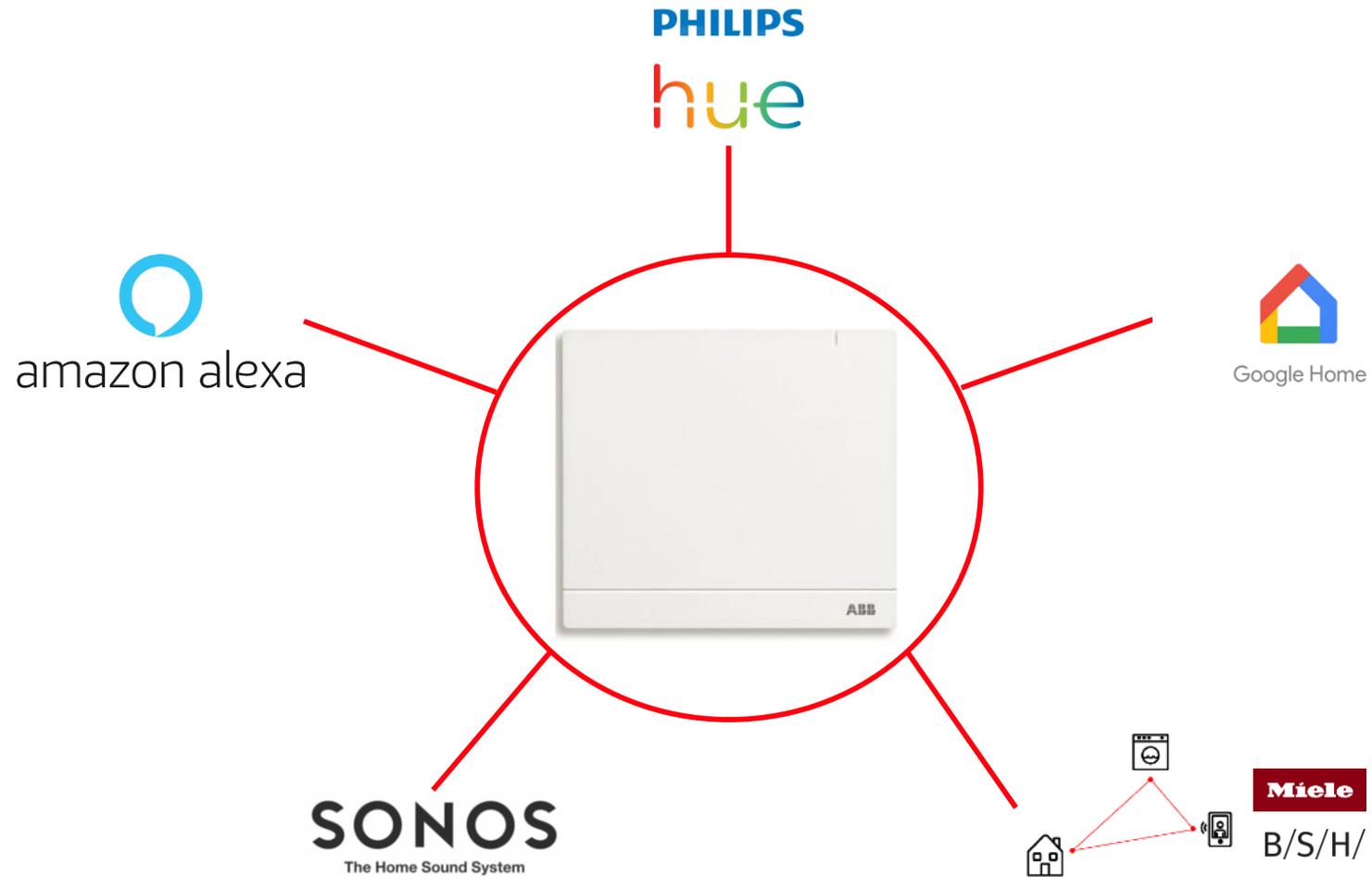
If a device has no stand-by mode it will be turned off „completely“. Can be controlled in the partner app („Device not connected“)



Devices have been connected to free@home, but the connection is now deactivated

# ABB-free@home® – Integrations

Questions?



# ABB-free@home® – Integrations

## Online Learning Session

### Homepage

[ABB-free@home - Home and Building Automation | ABB](#)

- Products and Downloads
- System Information
- Highlights
- Services and Tools
- Support

### ABB-free@home®

Making home automation easier than ever



Simply smart. ABB-free@home® transforms the house or the apartment into an intelligent home. Whether blinds, lights, heating, air conditioning, door communication or scenes. Easy to remote control via a switch on the wall, with the laptop or with the smartphone. Very convenient. Extremely comfortable. Very energy efficient. Especially attractive: Only minimal costs are involved when compared with conventional electrical installations.

#### ABB's Virtual Innovation Shows

Do you want to experience the future of smart homes and buildings? Come join ABB's Virtual Innovation Shows where we let you in on our safe, smart and sustainable solutions for more comfortable living and working spaces.

[MORE INFORMATION](#)

#### Products and Downloads



# ABB-free@home® – Integrations

## Online Learning Session

### Training Material

#### Training & Qualification Database

– The database contains extensive training content

- Presentations
- Video tutorials
- Webinar slides and videos
- and more ...

• <https://go.abb/ba-training>

• [www.abb.com/knx](http://www.abb.com/knx) (→ Services & Tools → Training and Qualification → Training Database)

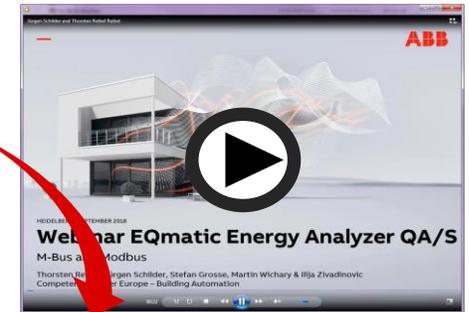
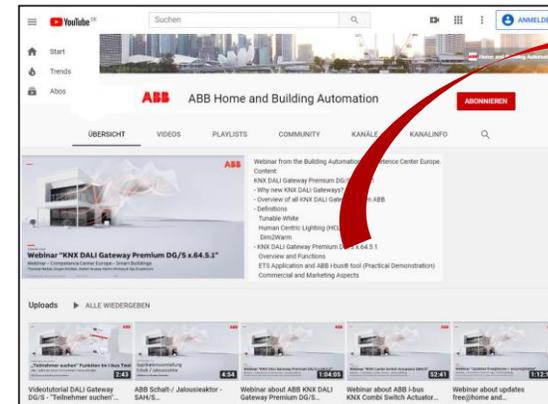
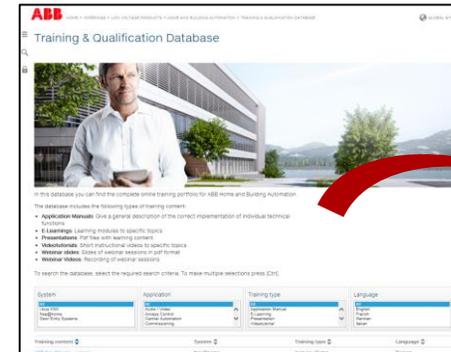
#### YouTube

– Channel “ABB Home and Building Automation”

• <https://www.youtube.com/user/ABBibusKNX>



Training and Qualification



# ABB-free@home® – Integrations

## Online Learning Session

### Training & Qualification Calendar

In addition to the online modules and the traditional training programs offered by your local ABB sales team, we offer a variety of on-site trainings conducted by our specialists at different ABB training facilities

In this Training & Qualification Calendar you can find the educational events that are taking place during 2020

If you are interested in a training please click the training und you will be forwarded to register in “ABB MyLearning”

[www.abb.com/knx](http://www.abb.com/knx) or <https://go.abb/ba-training>

→ Services & Tools

→ Training and Qualification

→ Training Calendar

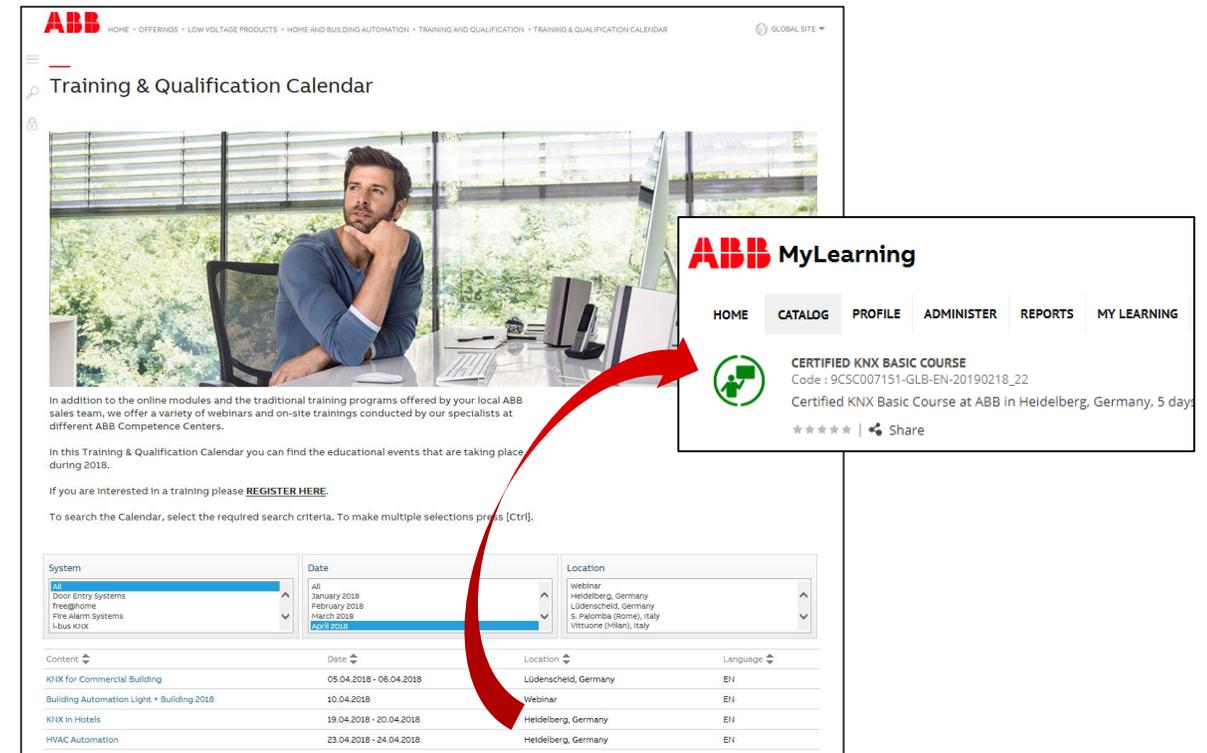


ABB HOME • OFFERINGS • LOW VOLTAGE PRODUCTS • HOME AND BUILDING AUTOMATION • TRAINING AND QUALIFICATION • TRAINING & QUALIFICATION CALENDAR GLOBAL SITE

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If you are interested in a training please [REGISTER HERE](#).

To search the Calendar, select the required search criteria. To make multiple selections press [Ctrl].

System	Date	Location
All	All	Webinar
Door Entry Systems	January 2018	Heidelberg, Germany
Free@home	February 2018	Lödenscheld, Germany
Fire Alarm Systems	March 2018	s. Palomba (Rome), Italy
I-bus KNX	April 2018	Virtuone (Milan), Italy

Content	Date	Location	Language
KNX for Commercial Building	05.04.2018 - 06.04.2018	Lödenscheld, Germany	EN
Building Automation Light + Building 2018	10.04.2018	Webinar	EN
KNX in Hotels	19.04.2018 - 20.04.2018	Heidelberg, Germany	EN
HVAC Automation	23.04.2018 - 24.04.2018	Heidelberg, Germany	EN

**ABB MyLearning**

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**CERTIFIED KNX BASIC COURSE**  
Code : 9CSC007151-GLB-EN-20190218\_22  
Certified KNX Basic Course at ABB in Heidelberg, Germany, 5 days  
★★★★★ | Share

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