

Product manual | 28.02.2022

# ABB-free@home®

## Integration of household appliances



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# 1 Product description

The seamless integration of modern household appliances into ABB-free@home® offers a variety of options for convenient use. This makes full interaction possible:

- Control (on/off)
- Query/display status (incl. standby)
- Super cool / Super freeze for refrigerator / freezer
- Display remaining running times
- Add scenes (e.g. everything-off switch)
- Usage within events / actions and time profiles

All networked devices with their icons are displayed in the free@home app and the panel and can be controlled from there.

These panels are supported:

- ABB-free@homeTouch 4.3"
- ABB-free@homeTouch 7"
- IP Touch 7" Panel
- IP touch 10" Panel

All functions can also be directly controlled via the wall-mounted push-buttons, which is possible only with ABB-free@home®.

**Notice**

No additional gateway devices are required. Commissioning and configuration is easily carried out via the MyBuildings portal and the ABB-free@home®System Access Point.

To the excellence portal MyBuildings portal:



## 2 Prerequisites

- A third-party provider account (e.g. Miele and/or HomeConnect) has been set up and to which the corresponding household appliances have been added



### Notice

Please follow the operating instructions of the corresponding third-party provider!

- Created MyBuildings account
- A set up free@home system
  - ABB-free@home® System Access Point has been registered in the MyBuildings account
- Internet connection



### Notice

The pop-up blocker may have to be deactivated in the web browser.

## 3 Example scenarios

1. After waking up, a free@home scene is started. The kitchen light goes on, the sound system starts playing your favourite radio station and the **coffee machine** begins to heat the coffee.
2. With the voice control command "I'm leaving now!" (additional prerequisite here is the installation of a voice control system), you tell the free@home system that you are leaving the apartment. All lights are switched off, the heating switches to standby mode and the blinds are closed. And **household appliances** are switched to the "Off" or "Standby" status.
3. Some **household appliances** are located in the cellar: dryer, washing machine, freezer. I want to monitor the status or the remaining running time of these appliances via information icons on the panel: Is the door of the refrigerator closed? When will the dryer finish its cycle? This means you no longer have to keep going down to the cellar to check.



### Notice

For supported panels see "See "These panels are supported" on page 3".

## 4 Functions

The integration of household appliances in ABB-free@home® supports the following functions. Each household appliance...

- will be visible as a native device in ABB-free@home®.
- will display a main function on the control element, which the user can use by tapping it.
- will display additional available information on the control element, e.g. remaining running time or faults.
- can be used in events / actions.
- can be used with its main function within a time profile.
- can be positioned on a panel, see "See "These panels are supported" on page 3".



### Notice

The available functions of individual household appliances from manufacturers Miele and HomeConnect can deviate from the range of functions offered in ABB-free@home® and may not be compatible. ABB can therefore not guarantee that all functions are made available by partners (third-party suppliers) for every device. For questions about compatibility please contact the support service of the manufacturers.

Additional information about compatibility is available at:

- <https://www.home-connect.com/de/de/service>
- <https://www.miele.de/haushalt/kontakt-45.htm>

Additional information is available at:

- HomeConnect:  
<https://developer.home-connect.com/docs/monitoring/availabilitymatrix>

The main functions of the household appliances can be activated directly via the corresponding buttons. They can also be activated via the rounded icons in the free@home user interface or free@home app.

The example below shows a typical button. It appears in the web-based free@home user interface, in the free@home app or a panel.



### Notice

For supported panels see "See "These panels are supported" on page 3".

The buttons all have the same basic structure:

- The icon shows the main function of the household appliance. This icon may change accordingly, depending on the status.



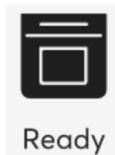
[1] Name of the household appliance.

[2] Note about an existing message. This displayed in the message center.

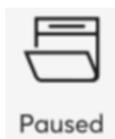
[3] Status of the household appliance.

### Additional display of functions or information (Figures only show examples):

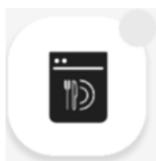
- Operation



Devices are registered and activated in ABB-free@home®



Devices are registered and activated in ABB-free@home®. Additional display possible, that the door is open for example.



Devices wait for local operation or the "Remote control function" is not active on the device.

Control element with status display of device after the icon has been pressed long.



Fig. 1: Control elements with status



Display when a household device has no standby mode and is switched off. This, for example, is the case with HomeConnect washing machine and dryer.

The message is displayed in the message center. This can also be verified in the app of the manufacturer.

**Functions of household maintenance/small devices**

[1]	Coffee machine
[2]	Vacuuming robot*

Feature	Function	1	2
Control household appliance	on/off	X	
	Start cleaning		X
	Pause cleaning		X
	Back to the charging station		X
Display status of the household appliance in free@home	Status on/off	X	
	Operating mode <sup>1</sup>	X	X
	Fault status <sup>2</sup>	X	
Display programming information of the household appliance in free@home	Remaining running time		
	Start time		
Temperature display of household appliance	Actual temperature and setpoint temperature		
Activate and display special status modes of the household appliance in and via free@home			
Trigger/display alarm in free@home when a specific status occurs			
Transfer functions of the household appliances to a free@home scene	Main function of the household appliance	X	X
Use household appliances in free@home automation functions	Events Actions	X	X
	Time control	X	X

Table 1: Functions of household maintenance/small devices

1 The available operating statuses depend on the respective household appliance: standby, preparation (e.g. heating), ready, operation, stopped, ended, process interrupted, delayed start, manual interaction necessary.

2 The available fault states depend on the respective household appliance.

 Main function in free@home

\* Vacuuming robots are currently not supported for HomeConnect.

### Functions of cooling devices

[1]	Refrigerator	[2]	Freezer
[3]	Wine cooler*	[4]	Wine cabinet*
[5]	Wine temperature control cabinet*		

Feature	Function	1	2	3	4	5
Control household appliance	on/off					
Display status of the household appliance in free@home	Status on/off	X	X	X	X	X
	Operating mode <sup>1</sup>	X	X			
	Fault status <sup>2</sup>	X	X	X	X	X
Display programming information of the household appliance in free@home						
Temperature display of household appliance	Actual temperature and setpoint temperature	X	X	X	X	X
Activate and display special status modes of the household appliance in and via free@home	Super cool	X				
	Super freeze		X			
	Light on/off			X*	X*	X*
Trigger/display alarm in free@home when a specific status occurs	Door open (too long)	X	X	X	X	X
Transfer functions of the household appliances to a free@home scene	Main function of the household appliance	X	X	X	X	X
Use household appliances in free@home automation functions	Events	X	X	X	X	X
	Actions	X	X	X	X	X
	Time control	X	X	X	X	X

Table 1: Functions of cooling devices

1 The available operating statuses depend on the respective household appliance: standby, preparation (e.g. heating), ready, operation, stopped, ended, process interrupted, delayed start, manual interaction necessary.

2 The available fault states depend on the respective household appliance.

\*) Only when supported by the device model of the manufacturer

 Main function in free@home

\* Wine cooling devices are currently not supported for HomeConnect.

**Functions of kitchen / cooking**

[1]	Oven	[2]	Dialogue cooker
[3]	Combination steamer	[4]	Steamer
[5]	Microwave	[6]	Fume hood

Feature	Function	1	2	3	4	5	6
Control household appliance	on/off	X	X	X	X	X	X
Display status of the household appliance in free@home	Status on/off	X	X	X	X		X
	Operating mode <sup>1</sup>	X	X	X	X	X	X
	Fault status <sup>2</sup>	X	X	X	X	X	X
Display programming information of the household appliance in free@home	Remaining running time	X	X	X	X	X	
	Start time	X	X	X	X	X	
Temperature display of household appliance	Actual temperature and setpoint temperature	X	X	X	X	X	
Activate and display special status modes of the household appliance in and via free@home							
Device illumination	on/off						X*
	Dimming stage 0-100%						X*
	Light on/off status						X*
	Status of dimming stage						X*
Trigger/display alarm in free@home when a specific status occurs	Door open (too long)	X	X	X	X	X	
Transfer functions of the household appliances to a free@home scene	Main function of the household appliance	X	X	X	X	X	X
Use household appliances in free@home automation functions	Events	X	X	X	X	X	X
	Actions	X	X	X	X	X	X
	Time control	X	X	X	X	X	X

Table 2: Functions of kitchen / cooking

1 The available operating statuses depend on the respective household appliance: standby, preparation (e.g. heating), ready, operation, stopped, ended, process interrupted, delayed start, manual interaction necessary.

2 The available fault states depend on the respective household appliance.

\*) Only when supported by the device model of the manufacturer

 Main function in free@home

### Functions of washing/drying/dishwashing

[1]	Dishwasher	[2]	Dryer
[3]	Washing machine	[4]	Clothes dryer

Feature	Function	1	2	3	4
Control household appliance	on/off	X*	X*	X*	X*
Display status of the household appliance in free@home	Status on/off	X	X	X	X
	Operating mode <sup>1</sup>	X	X	X	X
	Fault status <sup>2</sup>	X	X	X	X
Display programming information of the household appliance in free@home	Remaining running time	X	X	X	X
	Start time	X	X	X	X
Temperature display of household appliance	Actual temperature and setpoint temperature				
Activate and display special status modes of the household appliance in and via free@home					
Trigger/display alarm in free@home when a specific status occurs	Door open	X	X	X	X
Transfer functions of the household appliances to a free@home scene	Main function of the household appliance	X	X	X	X
Use household appliances in free@home automation functions	Events	X	X	X	X
	Actions	X	X	X	X
	Time control	X	X	X	X

Table 3: Functions of washing/drying/dishwashing

1 The available operating statuses depend on the respective household appliance: standby, preparation (e.g. heating), ready, operation, stopped, ended, process interrupted, delayed start, manual interaction necessary.

2 The available fault states depend on the respective household appliance.

\*) Only when supported by the device model of the manufacturer

 Main function in free@home

## 5 Setup

1. Register yourself at <https://mybuildings.abb.com>.

**Notice**

The use of HomeConnect, Miele@home Service is free of charge. It is **not** necessary to subscribe to the fee-based remote access in order to use the integration of household appliances function. In order to use the function, you only have to set up a MyBuildings account; it is not necessary to book remote access in addition.

The ABB-free@home<sup>®</sup> remote access gives you reliable mobile access to your free@home system, allows you to use the geofencing function, send push messages and e-mails.

**Notice**

The System Access Point to be used must be registered in the MyBuildings.

2. Log yourself in at the ABB-free@home<sup>®</sup> App Next.

**Notice**

In order to make all necessary settings, you require the authorisation level "Installation" or "Configuration."

Make sure that your free@home system is equipped with latest software version. If this is not the case, carry out an update of your system. The latest firmware version is automatically downloaded when your system is connected to the Internet (for this, activate the function "Download new firmware automatically").

The latest firmware version can also be downloaded at [www.abb.com/freeathome](http://www.abb.com/freeathome). Also the panel requires the latest Firmware version. See the corresponding instructions in the product manuals.

For supported panels see "See "These panels are supported" on page 3".

The integration of your household appliances is made via the MyBuildings.

**Notice**

Ensure that your free@home system is connected successfully with the MyBuildings.

**ABB-free@home® App Next**

Connect the MyBuildings portal with the ABB-free@home® App Next.

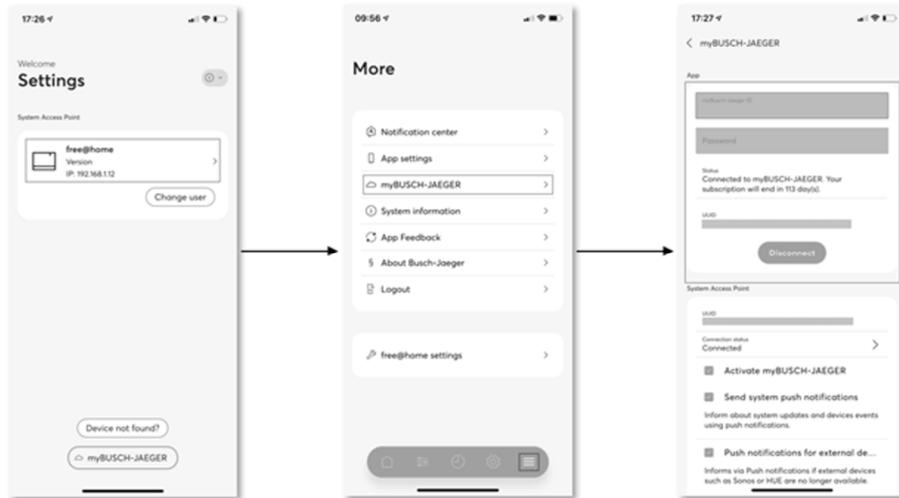


Fig. 2: Login MyBuildings

1. Select the System Access Point under "Settings".
2. Select the entry MyBuildings under "Additional" and there enter the user data for the MyBuildings portal.

## System Access Point

The System Access Point must also be connected with the MyBuildings portal.

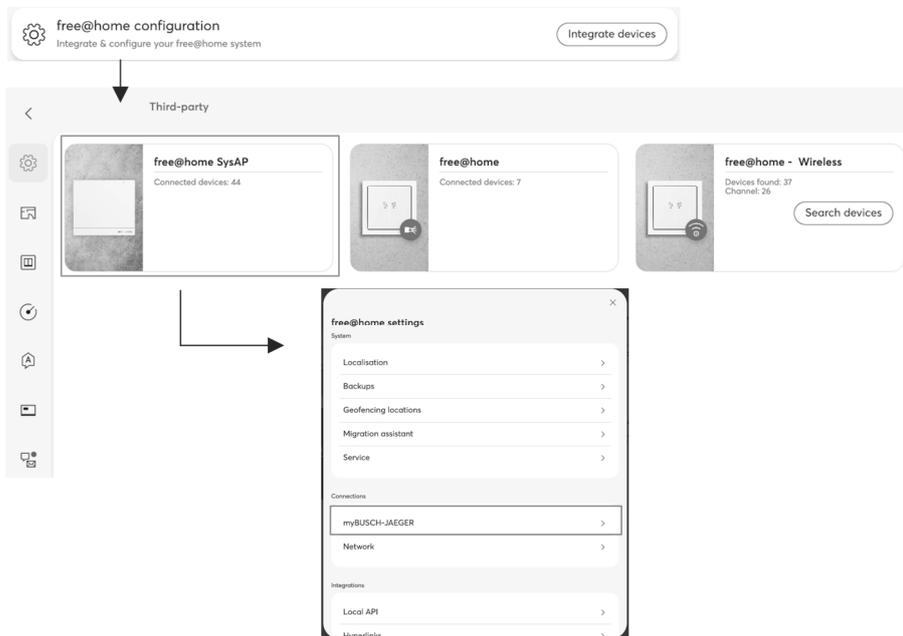


Fig. 3: Login MyBuildings

1. Select "free@home configuration" → "free@home SysAp" → "Connections" - MyBuildings"

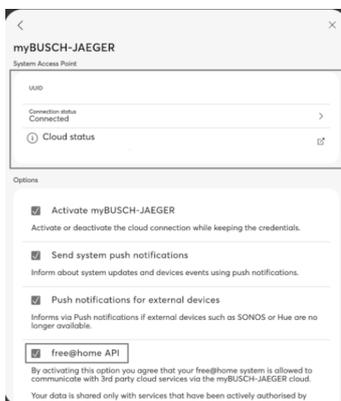


Fig. 4: Login MyBuildings

2. Select "System Access Point - Connection status" and there enter your user data for the MyBuildings portal and click on "Connect".
3. Activate the "free@home API" function by clicking the checkbox.

## 6 Integrate home appliances

Integrate home appliances into free@home via the MyBuildings portal.



### Notice

The integration of the household appliances is illustrated with the example of Miele.

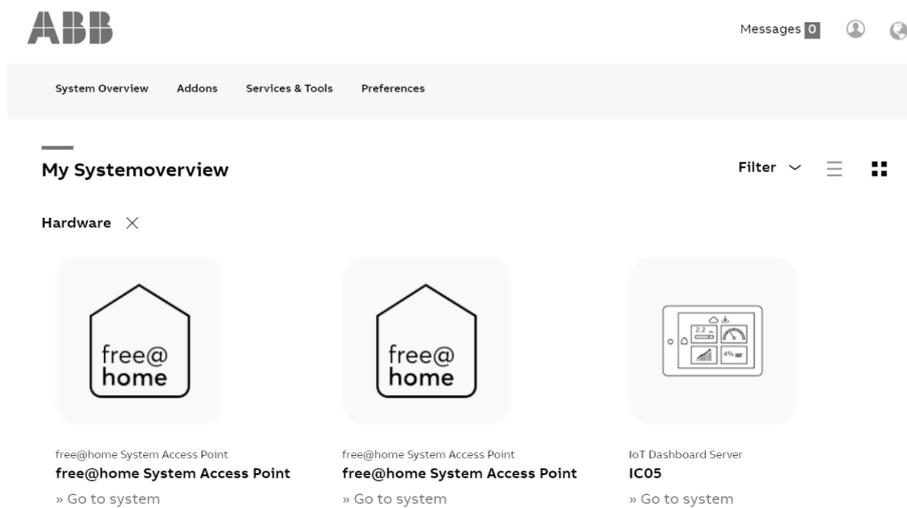


Fig. 5: MyBuildings "My system overview"

1. Select "**System overview**" -> "**To the system**" in the myBUSCH-JAEGER portal (**Your free@home System**)
2. Scroll down to "**Extensions**" on the page

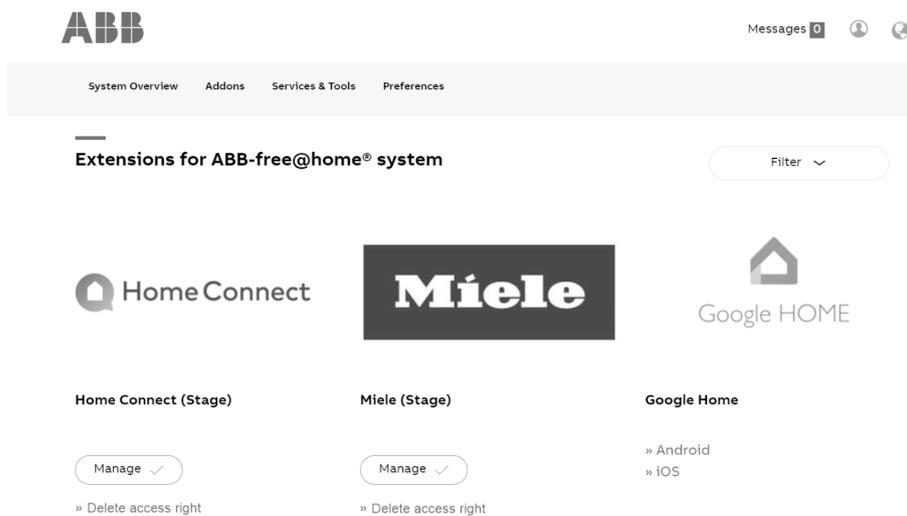


Fig. 6: MyBuildings "Extensions" (figure of example)



### Notice

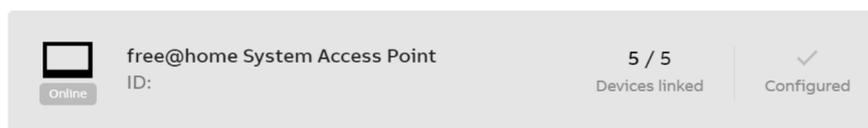
To continue, it is essential that a set up third-party provider account (e.g. Miele and/or HomeConnect) has been created, to which the corresponding household appliances have been added.

3. Now click on the button of the corresponding third-party provider (e.g. Miele or HomeConnect).
  - The System Access Point selection window appears.

## Miele Home Appliances Service



Select a device to continue:



CONTINUE

Fig. 7: Selection System Access Point (example illustration)

4. Select the System Access Point in the window with which the household device function is to be connected. Then click on "Continue".
  - The pop up window for logging into the third-party provider account opens.

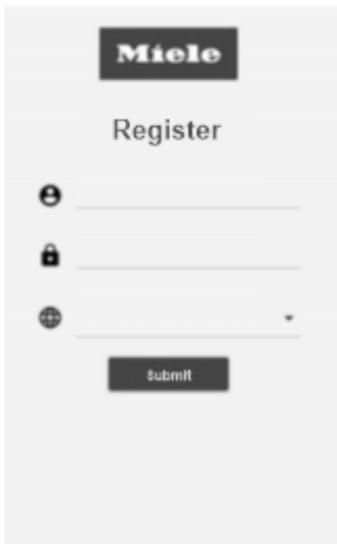


Fig. 8: Login to third-party provider (example illustration)

5. Now enter the data from the third-party provider account. Then click on the "Send" button.
  - An overview opens. Here, all household appliances which are available via the third-party account are displayed.

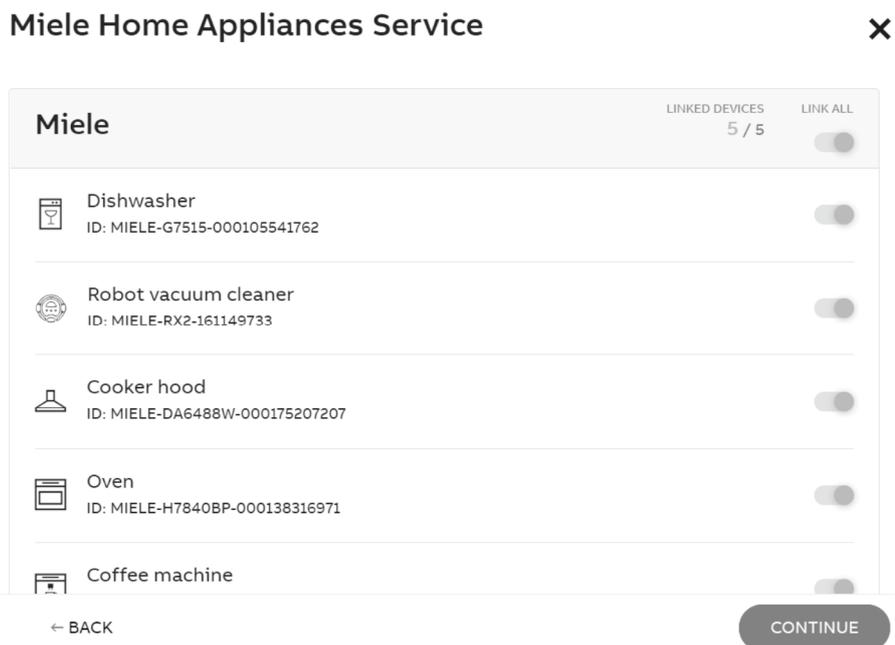


Fig. 9: Selection of household appliances (example illustration)

6. Activate the devices that are to be integrated into the ABB-free@home®.
  - Device categories that are not supported are identified and cannot be selected.
7. Click on the "Continue" button.



Configuration was successful!

Go to your SysAP

[Back to service page](#)

Fig. 10: Configuration successfully concluded

This concludes the process in the MyBuildings login.

## 7 Device configuration

- The available household devices can now be used in the ABB-free@home® just like other free@home devices.
- Detailed information on the configuration of the free@home functions are made available in the system manual of ABB-free@home®.

Here are the functions such as adding of devices, usage in scenes, events and actions, as well as for time control are described in detail.

An initial overview of all linked household devices can be found in the device list in the System Access Point (device configuration):

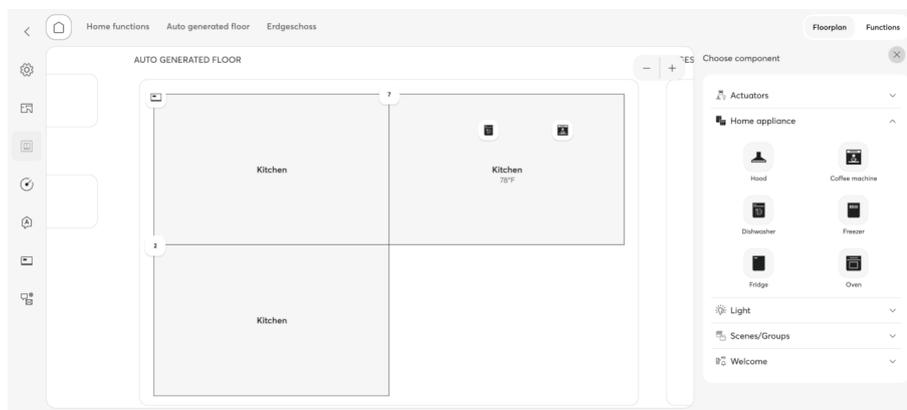


Fig. 11: Floor plan of house functions (example illustration)

## 8 Notes on using the household appliances function

### **FAQ / Troubleshooting:**

- The household appliances signal that they can no longer be reached

#### Procedure:

1. Please check the Internet connection.
2. Please check in the HomeConnect or Miele app, whether the devices are online there.
3. Please check whether the System Access Point is online and connected in MyBuildings.

If these measures do not help, run through the web configurator again, deactivate all devices and conclude the procedure, and then run through the web configurator again and reactivate the devices again.

- The System Access Point is not displayed in the web configurator via the MyBuildings login as being online.

#### Procedure:

1. Restart the System Access Point.
2. Use the free@home user interface to ensure that:
  - a connection to MyBuildings has been established
  - the "free@home API" is activatedThen deactivate this function and activate it again. Then update the web configurator via the MyBuildings login and check again whether the System Access Point is now online.

- The household appliances are not correctly displayed or updated in ABB-free@home®.

#### Procedure:

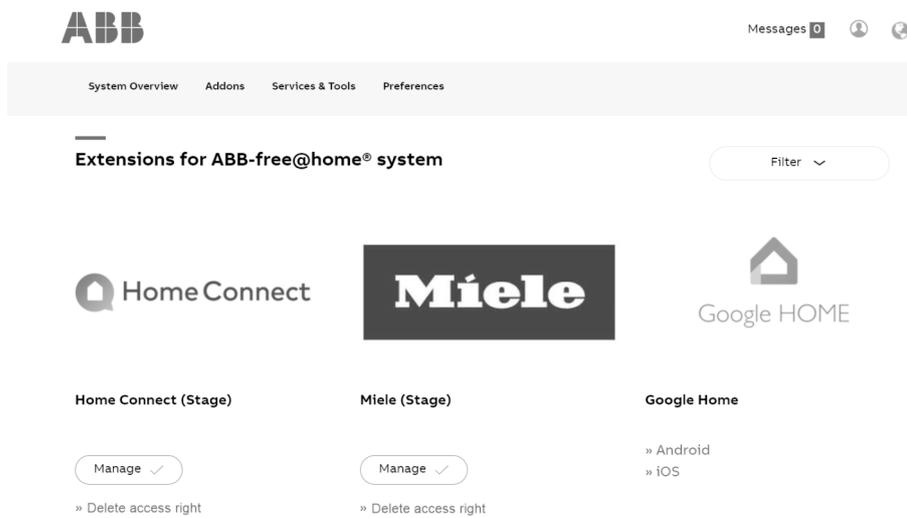
1. Rerun the web configurator via the MyBuildings login and conclude. Leave the setting so.
2. If this does not help, run through the web configurator again, deactivate all devices and conclude the procedure, and then run through the web configurator again and reactivate the devices again.

- There is no reaction.

#### Procedure:

The user can completely delete the user settings for the service in the MyBuildings login (delete access rights) and then run the web configurator through again.

# Notes on using the household appliances function



This does not delete the household appliances and their configuration in ABB-free@home®.

### Special notes:

- Due to the Cloud connection and the Internet access, the System Access Point should be operated via the LAN connection and not via WLAN.
- A stable WLAN for household appliance must be ensured.
- If problems arise with the household appliances in ABB-free@home®, first always check the status in the apps of the manufacturers (third-party supplier account) to ensure that there is no error on the part of the partners (third-party suppliers).
- The "Remote control" function must always be activated on every household appliance to ensure that the integration functions.
- After an update or installing backups it can take up to 10 minutes until the household appliances are synchronized again with ABB-free@home®. If this is not the case, as a remedy, run through the web configurator again, deactivate all devices and conclude the procedure, and then run through the web configurator again and reactivate the devices again.
- For Miele devices the menu path "Setting -> time of day -> display" must be set to "On" in the device menu.
- Some devices contain an Eco/deep-sleep function. This may have to be deactivated on the device, otherwise the device cannot be taken out of deep sleep and switched on via ABB-free@home®.  
In addition, for some Miele devices also the clock must be activated in the device menu under "Settings -> monitor", to prevent the devices from dropping into deep sleep.  
More detailed information for the customer is available from the corresponding manufacturer.

### Special features of the devices:

The range of functions of household appliances can be limited independent of the basic functionality offered by ABB-free@home®:

- This, for example, makes washing machines and dryers subject to standard conditions to prevent people or objects from being in the device and the device is mistakenly activated remotely.
- Some dishwasher models from Miele cannot be activated/deactivated remotely.
- The door contact of some Miele devices is triggered only in ABB-free@home® when the device is running in the program.

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