REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

Sonos® KNX Connect

Smart Home App Documentation

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TABLE OF CONTENTS

1 INTRODUCTION

Thank you for your trust, and the purchase of the **Sonos® KNX Connect**-Smart Home App for the BAB TECHNOLOGIE **APP**MODULE.
With the **Sonos® KNX Connect**-Smart Home App you get one of the most comprehensive integration of SONOS® devices into building automation.

This documentation will help you get started with the Smart Home App and aims to improve your setup experience.

REAL SMART HOME GmbH

IMPORTANT INFORMATION ON THE OPERATING INSTRUCTIONS

We reserve the right continually improve the product. This entails the possibility that parts of this documentation might be out-of-date. You will find the latest information at:

www.bab-appmarket.de

This Smart Home App is an independent product, with no legal ties to SONOS®.
Neither **BAB** APPMARKET GmbH nor the developer of this Smart Home App take any claim in the trademarks owned by SONOS®.

2 SONOS FUNCTIONAL OVERVIEW

One app, full control – Sonos S®- KNX Connect seamlessly links your SONOS S® sound system with KNX® and EnOcean. Manage your speakers easily via switches, visualizations, or automation and combine music playback with other smart home services. Your sound experience becomes an integral part of building automation.

2.1 HIGHLIGHTS

- Quick setup via Sonos® account connection (no fixed IP required)
- Browse libraries and instantly start tracks, albums, playlists, or radio stations
- Complete playback control: Play, Pause, Next/Prev, Shuffle, Repeat
- Flexible volume management: absolute, relative, step or start-stop dimming, including mute control
- Group control: manage multiple players at once, synchronize playback, and set volume levels
- Metadata integration: display track, artist, album, radio station, and cover art in your visualization
- Manage up to 100 playlists/favourites and 100 internet radio stations
- Support for announcements (up to 25 configurable)
- Seamless integration with the Speech text-to-speech app for APPMODULE
- Source control incl. Line-In and HDMI/optical (CEC) for home cinema options
- Visualization of current cover art and playback status

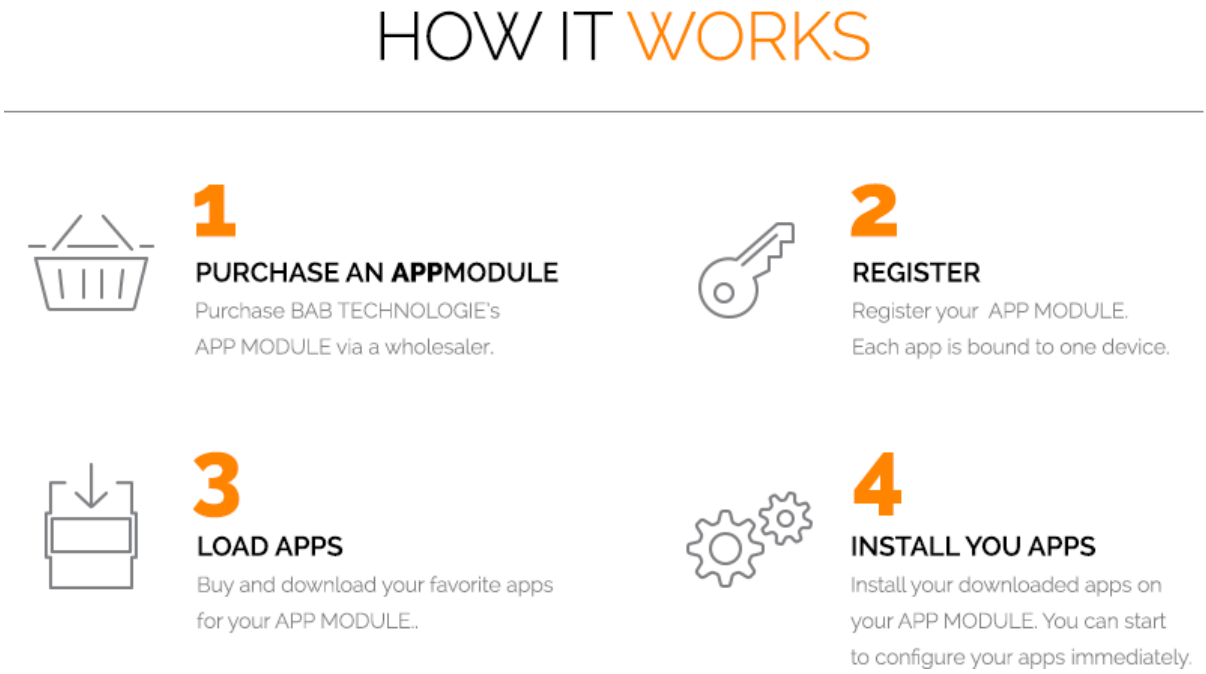
2.2 VARIANTS AND NUMBER OF INSTANCES

The Smart Home App – **Sonos® KNX Connect** is available in the following versions and number of instances:

- **Standard** for 16 instances (Sonos components)
- **Pro** for 32 instances (Sonos components)

3 THE INNOVATIVE, MODULAR SMART HOME APP CONCEPT FOR THE BUILDING AUTOMATION

The innovative, modular Smart Home App concept for building automation. The **APP**MODULE brings the innovative, modular Smart Home App concept into building automation. You can mix and match any of the diverse applications that are available to ingrate third-party solutions. With these Smart Home Apps from the dedicated **BAB** APPMARKET, the **APP**MODULE becomes a tailor-made integration unit for your building automation.



Manufacturer of the **APP**MODULE BAB TECHNOLOGIE GmbH
Distribution of all Smart Home Apps for the **APP**MODULE BAB APPMARKET GmbH
Smart Home App developer REAL SMART HOME GmbH

3.1 INFORMATION ABOUT THE APPMODULE

Please refer to the separate product documentation of the **APP**MODULE for a detailed product description and setup instructions.

https://bab-tec.de/appmodule#downloads

Product variants:
The **APP**MODULE is available in three variants:

- **APP**MODULE KNX/TP – for stand-alone use on KNX/TP Bus

4 SMART HOME APP INSTALLATION / UPDATE

Please proceed as follows to install a Smart Home App.

1. Open the **APP**MODULE web page: Enter <IP Address of **APP**MODULE > into your browser's address bar and press Enter. The **APP**MODULE web interface will appear.

2. Log in with your user credentials. Please refer to the **APP**MODULE documentation for login details.

3. Click on the menu entry "App Manager"

4. You are now on the page where already installed Smart Home Apps are listed. The list will be empty if no Smart Home Apps have been installed. Click "Install App" in order to install a new Smart Home App.

5. Now click on "Select App"; a file selector window will appear. Choose the Smart Home App » **Sonos** « and click "OK".

The Smart Home App » **Sonos® KNX Connect** « must first be downloaded from the **BAB** APPMARKET (www.bab-appmarket.de).

After the message "Installation successful" appears, click "OK". You are ready to configure the Smart Home App.

To update a Smart Home App manually you have to proceed as follows

1. To update an already installed Smart Home App, click on the App icon in the "App Manager".

2. The detail view of the Smart Home App appears. Click on "Update App" to select the Smart Home App package and start the update. The update version must be downloaded from the **BAB** APPMARKET.

After the message "Installation successful" appears, click "OK". The Smart Home App has been updated. Your instance configurations will remain unchanged.

The Smart Home App can also be updated directly in the web interface. Without having to download the Smart Home App from the **BAB**APPMARKET first.
In the “App Manager” available Smart Home App updates are reported

Information
To configurate the Smart Home App please use Google Chrome.

5 SMART HOME APP SETTINGS

The **Sonos® KNX Connect** Smart Home App allows SONOS® music systems to easily be connected to the KNX® system. As a result, not only can the controls be fully integrated into the visualisation, but it is also possible to combine it with other services (logic groups or jobs) or control it using simple KNX® buttons.

Note: The SONOS® device settings for the instances are exclusively customised and verified for "Sonos app". You can find an overview of SONOS® devices, for example:
https://support.sonos.com/en/article/sonos-app-version-compatibility

5.1 SONOS® KNX CONNECT

Note After inactivity of 60 minutes the browser session is automatically closed. Unsaved changes will be lost.
As soon as the Smart Home App is installed, you can create so called "Instance". An Instance is one of several objects of the same class.

To create a new instance, click on the 'Create instance' icon in the instance overview of the Smart Home app.

Instance Name:

Choose a name for this new instance.

Comment:

Insert a description what this instance does.
Additional information such as model or location can also be entered in this

5.2 AUTHENTICATION

In this section, the Sonos KNX Connect Smart Home app is linked to the Sonos account to gain access to the Sonos devices.

Register APP MODULE

Here you can register your APPMODULE at SONOS®!

Click on **"Go to registration"** to open the registration link and log in with your SONOS® account. Use your existing SONOS® account to do this.
Once you have successfully logged in, you will receive a token that you can copy to the clipboard using the copy function.

App Token

Paste the token from the clipboard into the 'App Token' field provided.

As soon as the token has been verified in the instance, the message "Connection successful" occurs. If necessary, click on the **"Verify App Token"** box to start or repeat the process.

➔ Above the **Verify App Token** field displays whether the registration was successful.

5.3 SYSTEM (HOUSEHOLD)

In the Sonos system, Sonos participants can be assigned to different systems (households).
A Sonos system consists of several Sonos participants that have been added and set up as a system via the Sonos app.
This selection ensures that only Sonos participants belonging to the selected system can be integrated.
One system can be integrated per APPMODULE.

System selection

In the system selection, you specify which system (household) should be connected to the Smart Home app.

5.4 INSTANCE CONTROL

The operating mode of the instance is selected in this section. The following two operating modes are available:

- **Group control** and
- **Player information**

The **operating mode** selected in the drop-down list determines the further configuration of the instance. Depending on the selection, the function of the instance and thus the necessary configuration mask are different.

Here is the difference between the two modes:

- **Group control**
  This operating mode is selected to control one or more Sonos participants.

  In group control mode, commands are sent to all Sonos participants belonging to this group. This allows you to control volume, playback, or playlists centrally for the entire group, for example.
  A group consists of at least one or more Sonos participants assigned to the selected Sonos system.

- **Player Information**
  Player information mode is used to retrieve status data for individual Sonos participants.

  This includes, for example, the current playback status, volume setting, or metadata. This status information can be used to display states in the visualization / KNX displays or to implement interactions using functions (like clocks or even entire logic groups).
  In addition, in this operating mode, it is also possible to adjust the volume of the Sonos participant selected here (independently of the other Sonos participants in this group) or to trigger announcements.

The configuration menu changes depending on the selected mode. The two operating modes are explained in the following chapters.

5.4.1 GROUP CONTROL

This chapter describes the "Group Control" operating mode, in which one or more Sonos participants are controlled together.

The corresponding configuration section is only displayed if the "Group Control" option is selected in the drop-down list.

Behaviour with other group configurations

Here you can specify how commands should behave when the preconfigured group is not currently active.
This is the case, for example, when another group is active, another group has been created using the Sonos app, or the original group has been changed.

The following options are available:

- **Cancel command:**
  The received command is ignored, if the group configured in this instance is not active.

- **Select group and execute command**:
  If the configured group is not active, it is automatically formed with the participants set here and the received command is executed.

Please note that announcements cannot be played together with groups.

5.4.1.1 STATE OF THE GROUP FEEDBACK

The following communication objects are used to activate/deactivate the group and report the status of whether the group is activated/deactivated.

Address to activate the group (EIS 1)

The group address entered here controls this group. The telegram values have the following functions:

- 1 to activate this group, and
- 0 when the group is not active.

Group status (EIS 1)

A signal is sent to this address whenever the group configuration changes. The telegram values indicate the following status:

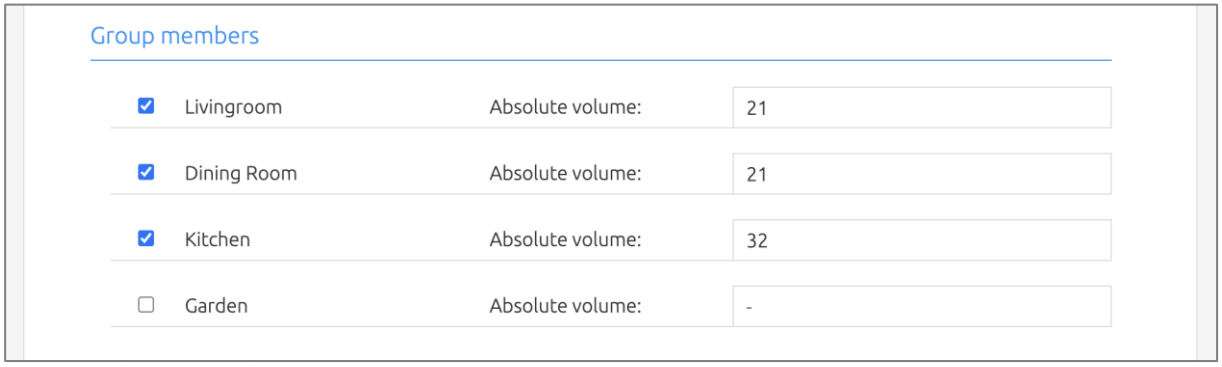
- 1 when the group is active, and
- 0 when the group is not active.

5.4.1.2 GROUP MEMBERS

In this section, all Sonos participants that belong to the selected system and are available are listed.
The group control must consist of at least one Sonos participant.
It is possible for a Sonos participant to be assigned to multiple groups.

Group Members

Sonos participants are added via the checkbox for this group.
Select the devices that belong to this group.



Absolute volume:

A volume can be specified for each participant. Enter the absolute volume here that this group participant should be set to when the group is formed.

The defined volume of this participant remains unchanged, even if the volume of other group members is adjusted.

5.4.1.3 GROUP VOLUME CONTROL

In a group, the volume of all participants can be centrally controlled. The adjustment can be made either absolutely (fixed value) or relatively (increase or decrease via start/stop or stepwise). In addition, mute control is available, which always affects the entire group.
If a group address for the status is entered, the current volume is sent to KNX so that the status is always visible – even if the volume is changed on the Sonos side.

Absolute Volume (EIS 6 // 0 % – 100%)

Insert the group address for the absolute volume (e.g. for sliders) of the group.
Sets the absolute volume in % (0-100%, scaling 0.4%).

Absolute Volume Feedback (EIS 6 // 0 – 100%)

Insert the group address for the absolute volume feedback of the group.
Displays the current volume status in % (0-100%, scaling 0.4%).

Volume +/- (EIS 1)

Insert the group address for the volume +/- control.
Controls the volume relatively per telegram.

- Increase (at 1) and
- decrease (at 0)

per command by the configured step width.

Volume +/- step width (1–20)

Enter an integer for the increment of the volume control of the group.
Determines the step width per telegram (1-20).

Step dimming (EIS 2 // relative Dimming)

Insert the group address for the relative volume control (for step dimmers) of the group.

- Per short operation, increase/decrease by the step width configured on the switch.
- Per long operation, cyclic increase/decrease by the step width configured on the switch.

Note: The settings for relative step dimming are made via the sensor (button) for controlling the volume. The selected volume interval (e.g. 1.56%; 3.13%; 6.25%; 12.5%; 25%; 50%) is sent repeatedly when the button is held down until the button is released. When sending an interval of e.g. 3.13%, the volume increases or decreases from e.g. 50 to (50+3) 53 or even (to 50-3) 47%.

Start-Stop dimming (EIS 2 // relative Dimming)

Insert the group address for the relative volume control (for start-stop dimmers).
Adjusts the volume relatively per long operation. Initiates the cyclical increase/decrease output by the app by an increment calculated from the desired maximum dimming duration in a 220ms interval for the duration of the operation.

Start-Stop dimming duration (1000–22000)

Determines the duration of the complete dimming process from 0-100% and thus the step width that the app sends. The transmission interval is 220ms.

Examples:

- Dimming duration 22000ms from 0% to 100% or 100% to 0% are 22000/220=100 steps and therefore 100%/100 = 1% per step
- Dimming time 5000ms is 5000/220= (22.7) 23 steps and therefore 100%/23= 4.3% per step.

Mute (EIS 1)

Insert the group address for the mute command of the group. The telegram values have the following functions:

- "1" on
- "0" off

Mute Feedback (EIS 1)

Enter the group address for the mute status of this group. The following telegram values indicate the status:

- "1" on
- "0" off

Invert mute

Select whether the mute function of this group should be inverted. If Invert Mute is selected, the following telegram values apply instead of the values shown under Mute:

- "1" off
- "0" on

5.4.1.4 METADATA

The metadata allows additional information about the content currently being played to be sent from the APPMODULE to the KNX bus and displayed in a visualisation or compatible control devices (KNX push button with display), for example, title, artist, album or radio station (see appendix for cover!).

The metadata is updated automatically so that changes when switching radio stations, tracks or albums are immediately visible in the visualisation.

Now playing: Artist (EIS 15 14 Byte // Text)

Enter the group address to which the information about the current artist should be sent.

Now playing: Title (EIS 15 14 Byte // Text)

Enter the group address to which the information about the current track should be sent.

Now playing: Album (EIS 15 14 Byte // Text)

Enter the group address to which the information about the current album should be sent.

Now playing: Station name (EIS 15 14 Byte // Text)

Enter the group address to which the information about the current station should be sent.

5.4.1.5 CONTROL OF PLAYLISTS

This function allows you to control playlists, favourites, and radio stations that are available in your SONOS® account.

The SONOS® device settings for the instances are exclusively customised and verified for "Sonos app".

Note: Verification takes place at the time of release of the respective version of the Sonos Smart Home App. Due to updates by SONOS®, changes to the functional behaviour and designations may occur at any time.

Please note: These functions are controlled and managed via your SONOS® account. This means that the instance here in the configuration and your associated SONOS® device are connected to each other in the network. The settings on your SONOS® device are made via the manufacturer's "Sonos app".
Please also note that "Sonos Favourites" in the SONOS® account is not always identical to all elements that are displayed on the "Sonos Favourites" menu page of the "Sonos app".

To be able to use the desired playlists and shortcuts to your audio files, they must be added to the "Sonos Favourites" directory of the SONOS® account. If necessary, the playlists and shortcuts can be removed from "Sonos Favourites" to manage the selection list. There is no check whether the shortcuts via "Sonos Favourites" are also valid in order to be listed in the selection list.

Note:
The "Add or remove Sonos Favourites" menu is not always displayed immediately. Sometimes this can be found under "More...", probably for reasons of space. The “Sonos app” also offers other functions, e.g. to edit the name of the shortcut. As we have no influence on the development of the “Sonos (S2) app”, these menu items are not described here.

Practical tip:
Only the Sonos application for PC devices (Windows and macOS) can be used to search for and make settings for media servers and music libraries. Due to constant further development, please contact SONOS® for more information.

Activate playlist

Enter the group address here that is used to start the desired playlist. The playlist is called up using the sent telegram value, which corresponds to the assigned ID.

Assign up to 100 Sonos Playlists

With this feature you can assign integers to up to 100 playlists. If you then send the integer on a specific group address, the Sonos device will start playing the corresponding playlist.
Manage your playlists and favourites here. You can add, copy, edit or delete them here.

ID (0 – 255)
Enter the ID of the playlist. This ID is assigned to the telegram value used to call up the playlist.

Select content
Select the content of your playlist.

Note: The use of sources and audio files is subject to external rights and licences over which we have no control. Any changes made by SONOS® or another third party may result in changes to the application. Please note this before complaining about changes in the behaviour of the Smart Home App " Sonos " as an error.

5.4.1.6 PLAYBACK CONTROL

The playback control allows you to control playback directly via the KNX bus. This includes basic functions such as start, pause, stop and track forward/back within a playlist.
In addition, advanced options such as repeat (repeat individual tracks or the entire playlist) and shuffle (random playback order) can be activated to customise playback to your preferences.

Play / Pause (EIS 1)

Enter the group address for Play / Pause of this instance. Default: if

- a "1" is sent, playback continues,
- a "0" pauses it.

If the “Invert Play / Pause” option is selected, a "1" sent will pause playback and a "0" will resume playback.

Play / Pause Feedback (EIS 1)

Enter the group address for the playback/pause status of this instance. The telegram values have the following functions:

- A "1" indicates when playback is resumed and
- a "0" indicates when playback is paused.

If the Invert Playback/Pause option is selected, a "1" is reported when paused and a "0" is reported when playing.
The status applies to all participants in the group. When one participant is stopped, all participants in the group stop.

Invert Playback / Pause

This option inverts the behaviour for the play/pause function in this instance.

- "0" resumes playback,
- "1" pauses playback.

Previous / Next Track (EIS 1)

Insert the group address for the command previous / next track- The telegram values have the following functions:

- “1“ next track
- “0“ previous track

Repeat Mode (EIS 14 // 0 – 2)

Insert the group address for the command repeat mode. The telegram values have the following functions:

- "2" repeat once
- "1" repeat
- "0" no repeat

Repeat Mode Feedback (EIS 14 // 0 – 2)

Insert the group address for the feedback repeat mode. The telegram values have the following functions:

- "2" repeat once
- "1" repeat
- "0" no repeat

Shuffle (EIS 1)

Insert the group address for the shuffle command. The telegram values have the following functions:

- "1" on
- "0" off

Shuffle Feedback (EIS 1)

Insert the group address for the shuffle feedback. The telegram values have the following functions:

- "1" on
- "0" off

5.4.2 PLAYER STATUS INFORMATION

This chapter describes the 'Player information' operating mode. In this operating mode, all information and statuses of the selected Sonos® subscriber are output.

The following configuration items are only displayed if the 'Player information' option is selected in the drop-down list.

Select the corresponding device

Here, the Sonos® participant for this instance is selected. Only the Sonos® participants assigned to the chosen system are shown in the dropdown list.

Note:
If the desired devices are not displayed in the selection, this can have several causes:

- The selected Sonos® player may not be assigned to the chosen system.
- The token used may not be correct, even if it was verified. In this case, please register the **APP**MODULE again via *"Go to registration"*.
- The Sonos® player may not be connected to the same network. Check the connection, for example, with the *Sonos app*.

If you have not activated group management, the settings are displayed in this chapter.

Please note that announcements can only be played back to the selected Sonos® participant.

5.4.2.1 PLAYBACK STATUS

The Playback Status section provides the option of reporting various statuses for the Sonos® participant selected here in this instance.
The status of play/pause, stop and the options repeat (repeat individual tracks or the entire playlist) and shuffle (random playback order) can be sent to the KNX bus and, if desired, functions for these states can be triggered.

Play / Pause Feedback (EIS 1)

Enter the group address for the playback/pause status of this instance. Default behaviour:

- A "1" indicates when playback is resumed and
- a "0" indicates when playback is paused.

If the Invert Playback/Pause option is selected, a "1" is reported when paused and a "0" is reported when playing.

Repeat Mode Feedback (EIS 14 // 0 –2)

Insert the group address for the feedback repeat mode. The telegram values have the following information:

- “2” repeat once
- “1” repeat
- “0” no repeat

Shuffle Feedback (EIS 1)

Insert the group address for the shuffle feedback. The telegram values have the following information:

- “1” on
- “0” off

5.4.2.2 METADATA

The metadata allows additional information about the content currently being played to be sent from the APPMODULE to the KNX bus and displayed in a visualisation or KNX push (compatible) KNX device, for example, title, artist, album or radio station (see appendix for cover!).
The metadata is updated automatically so that changes when switching radio stations, tracks or albums are immediately visible in the visualisation.

Now playing: Artist (EIS 15 14 Byte // Text)

Enter the group address to which the information about the current artist should be sent.

Now playing: Title (EIS 15 14 Byte // Text)

Enter the group address to which the information about the current track should be sent.

Now playing: Album (EIS 15 14 Byte // Text)

Enter the group address to which the information about the current album should be sent.

Now playing: Station name (EIS 15 14 Byte // Text)

Enter the group address to which the information about the current station should be sent.

5.4.2.3 VOLUME CONTROL OF THE DEVICE

In a group, the volume of all participants can be controlled centrally. The adjustment can be either absolute (fixed value) or relative (increase or decrease via start/stop or steps). In addition, there is a mute control that controls the entire group.
If desired, the current volume can also be sent so that the status is displayed at all times. This is also the case if the volume is changed on the Sonos side.

Absolute Volume (EIS 6 // 0 % – 100 %)

Insert the group address for the absolute volume (e.g. for sliders) of the device.
Sets the absolute volume in % (0-100%, scaling 0.4%).

Absolute Volume Feedback (EIS 6 // 0 % – 100%)

Insert the group address for the absolute volume feedback of the device.
Displays the current volume status in % (0-100%, scaling 0.4%).

Volume +/- (EIS 1)

Insert the group address for the volume +/- control.
Controls the volume relatively per telegram. Increase (at 1)/ decrease (at 0) per command by the configured step width.

Volume +/- step width (1–20)

Enter an integer for the increment of the volume control of the device.
Determines the step width per telegram (1-20).

Step dimming (EIS 2 relative Dimming)

Insert the group address for the relative volume control (for step dimmers) of the device.

- Per short operation, increase/decrease by the step width configured on the switch.
- Per long operation, cyclic increase/decrease by the step width configured on the switch.

Note: The settings for relative step dimming are made via the sensor (button) for controlling the volume. The selected volume interval (e.g. 1.56%; 3.13%; 6.25%; 12.5%; 25%; 50%) is sent repeatedly when the button is held down until the button is released. When sending an interval of e.g. 3.13%, the volume increases or decreases from e.g. 50 to (50+3) 53 or even (to 50-3) 47%.

Start-Stop dimming (EIS 2 relative Dimming)

Insert the group address for the relative volume control (for start-stop dimmers).
Adjusts the volume relatively per long operation. Initiates the cyclical increase/decrease output by the app by an increment calculated from the desired maximum dimming duration in a 220ms interval for the duration of the operation.

Start-Stop dimming duration (1000–22000)

Determines the duration of the complete dimming process from 0-100% and thus the step width that the app sends. The transmission interval is 220ms.

Examples:

- Dimming duration 22000ms from 0% to 100% or 100% to 0% are 22000/220=100 steps and therefore 100%/100 = 1% per step
- Dimming time 5000ms is 5000/220= (22.7) 23 steps and therefore 100%/23= 4.3% per step.

Mute (EIS 1)

Insert the group address for the mute command of the device. The telegram values have the following functions:

- 1: on
- 0: off

If „Invert mute" is checked:

- 1: off
- 0: on

Feedback mute (EIS 1)

Insert the group address for the mute feedback of the device. The telegram values have the following functions:

- 1: on
- 0: off

If „Invert mute" is checked:

- 1: off
- 0: on

Invert mute

Check if value for invert should be inverted for the device.

5.4.2.4 SOURCE CONTROL

Select source (EIS 14 0–255)
Insert the group address for selection of the entry. The telegram values have the following functions:

- "2" HDMI / Optical,
- "1" Line-In
- "0" Off

Automatic play after switching to <Line-In>
Select if music should automatically be played after switching to <Line-In>.

5.4.2.5 OPTIONS FOR HOMETHEATER (ONLY HDMI-CEC)

Automatically end standby after source select
Select if standby should end automatically.

Nightmode
Insert the group address for the nightmode. The telegram values have the following functions:

- "1" On,
- "0" Off"

Improvement of speech playback
Insert the group address for the improvement of speech playback. The telegram values have the following functions:

- "1" On,
- "0" Off.

5.4.2.6 CONTROL OF THE ANNOUNCEMENTS

Please note that announcements cannot be played to groups.
The announcement will only be played on the selected Sonos participant. Playback will resume after the announcement has been made.

Adress for activating announcements.

Insert group address for activating announcements.

Create up to 25 announcements.

Manage your announcements here. You can add, copy, edit or delete them here.

ID of the announcement (0 – 255)
Insert the ID of the announcement.

Name of the announcement
Insert the name of the announcement.

Volume of the announcement (0 – 100)
Insert the absolute volume of the announcement.

Priority
Choose the priority of the announcement - High or low. High priority announcements stop currently playing sources, low priority announcements are played on top of the current sources, which are temporarily lowered in volume.

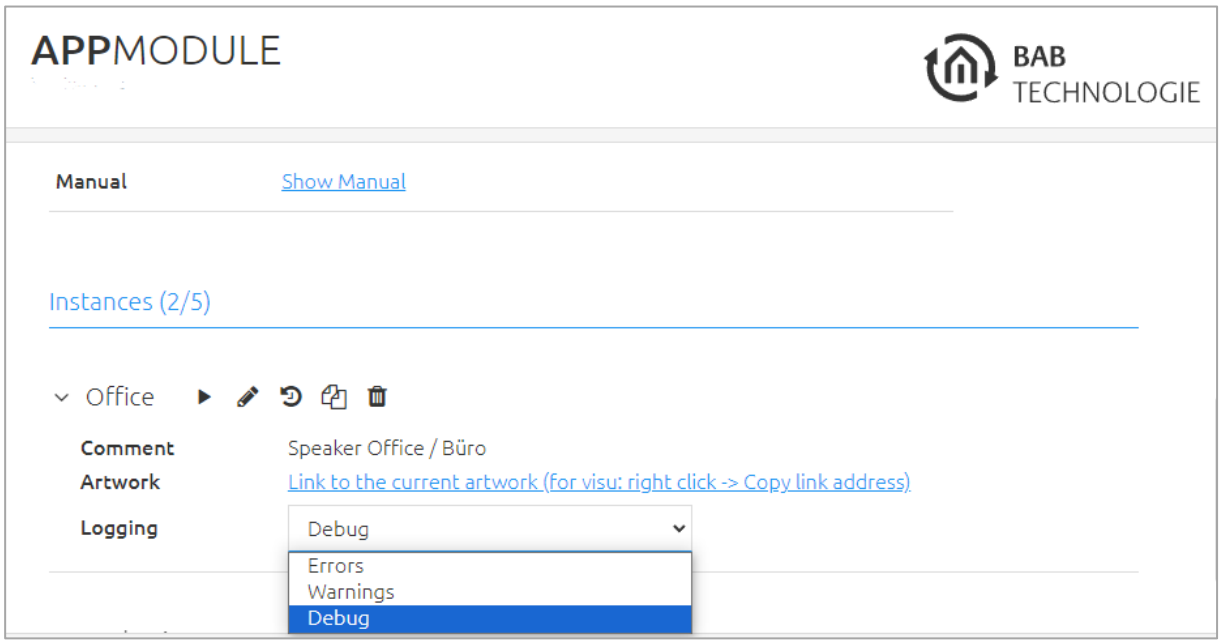
Content of the announcement
Choose the content of the announcement.

5.5 INSTANCES – OVERVIEW

In the main menu of the Smart Home app, all created instances are listed in addition to information about the Smart Home app.

The instances can be created and managed in this view. The following options are available:

- Start instance and stop instance,
- Edit the instance and their parameters,
- Display and export the log file of the instance,
- Copy your created instance (as a template),
- Delete the instance.



Further functions can be found in the menu that can be opened using the ">" symbol (see screenshot on this page).

In addition to the log level, the link to the current cover of this instance can be found here.

- Log level: A filter for the log data can be activated via the selection menu.

5.6 CURRENT COVER FOR VISUALISATION

In the 'Instance overview' of the Smart Home app, a menu can be opened for each instance created using the arrow symbol ">".
Here you will find a link to the current cover that can be copied and pasted into a visualisation.
In addition to the metadata, the current cover can also be displayed in a visualisation.

Important: Please copy the link for the visualisation by clicking the right mouse button and selecting 'Copy link'.

6 ATTACHMENT

6.1 DATAPOINT TYPES

Function	EIS type	Data point type	Typical value	Data	Identifier
Switching	EIS 1	DPT 1.yyy	[0] = Off | FALSE; [1] = On | TRUE	1 Bit	1-bit
Relative Dimming	EIS 2	DPT 3.yyy	**„Dimming steps“**: [[0],[2…7]] Darker [2, 4, 8, 16, 32, 64] -Steps and [[1],[2…7]] Brighter [2, 4, 8, 16, 32, 64]-Steps **„Start/Stop Diming“**: [0,8] Stop; [1] Darker und [9] Brighter	4 Bit	4-bit
Time	EIS 3	DPT 10.yyy	hh:mm:ss	3 Byte	Time
Date	EIS 4	DPT 11.yyy	dd:mm:yyyy	3 Byte	Date
Floating point number (short)	EIS 5	DPT 9.yyy	-671 088,64 … 670 433,28	2 Byte	2-byte float value
Percent, Position, Brightness, …	EIS 6	DPT 5.yyy	0 … 100%	1 Byte	8-bit unsigned value
Blinds Drive/adjust	EIS 7	DPT 1.yyy	[0] = up; [1] = down When driving [0,1] = stop	1 Bit	1-bit
Priority	EIS 8	DPT 2.yyy	[0], [1] Switch on, off; [3] = Forced off; [4] = Forced on	2 Bit	1-bit controlled
IEEE Floating point number (long)	EIS 9	DPT 14.yyy	4-Octet float value; IEEE 754	32 Bit	4-byte float value
Counter 16 Bit Unsigned	EIS 10u	DPT 7.yyy	0 … 65.535	16 Bit	2-byte unsigned value
Counter 16 Bit Signed	EIS 10	DPT 8.yyy	-32.768 … 32.767	16 Bit	2-byte signed value
Counter 32 Bit Unsigned	EIS 11u	DPT 12.yyy	0 … 4.294.967.295	32 Bit	4-byte unsigned value
Counter 32 Bit Signed	EIS 11	DPT 13.yyy	-2.147.483.648 … 2.147.483.647	32 Bit	4-byte signed value
Access control	EIS 12	DPT 15.yyy	Access data	4 Byte	Entrance access
ASCII Character	EIS 13	DPT 4.yyy	Char	1 Byte	Character
Counter 8 Bit Unsigned	EIS 14u	DPT 5.yyy	0 … 255	8 Bit	8-bit unsigned value
Counter 8 Bit Signed	EIS 14	DPT 6.yyy	-128 … 127	8 Bit	8-bit signed value
String	EIS 15	DPT 16.yyy	14 Characters	14 Byte	Character string

EIB/KNX devices exchange fixed prescribed data formats with each other. These are defined in types.
The old designations of the types are EIS (EIB Interworking Standard). The new designations are DPT (Data Point Type)