



REAL SMART HOME

REAL SMART HOME GmbH

**APPMODULE**

# **FritzControl Complete**

## Smart Home App Documentation

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# 1 INTRODUCTION

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Thank you for your trust, and the purchase of the **FritzControl Complete** -Smart Home App for the BAB **APPMODULE**. The **FritzControl Complete** - Smart Home App offers one of the most professional and comprehensive integrations of the FRITZ!Box routers' functionalities into building automation.

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

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## IMPORTANT INFORMATION ON THE OPERATING INSTRUCTIONS

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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 This entails the possibility that parts of this documentation might be out-of-date.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](http://www.bab-appmarket.de)

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

## 2 FRITZCONTROL COMPLETE FUNCTIONAL OVERVIEW

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Control your FRITZ!Box® router conveniently via available KNX® clients and combine router commands with any scenarios. It is simple, for example, to active the Guest WIFI using a KNX® button and monitor the call monitor in the visualization. Another top-up feature is status monitoring for MAC addresses using a 1-bit value (presence yes/no).

### 2.1 HIGHLIGHTS

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- Switch 2.4 GHz WIFI
- Switch 5 GHz WIFI
- Switch Guest WIFI
- Reboot
- Status indication for devices and functions
- Monitor call monitor and define 50 rules
- 30 instances of call forwarding + global on/off
- 10 instances of call barring + global on/off
- 10 answering machine messages + global on/off
- 8 instances of presence monitoring Wi-Fi (MAC addresses on network)

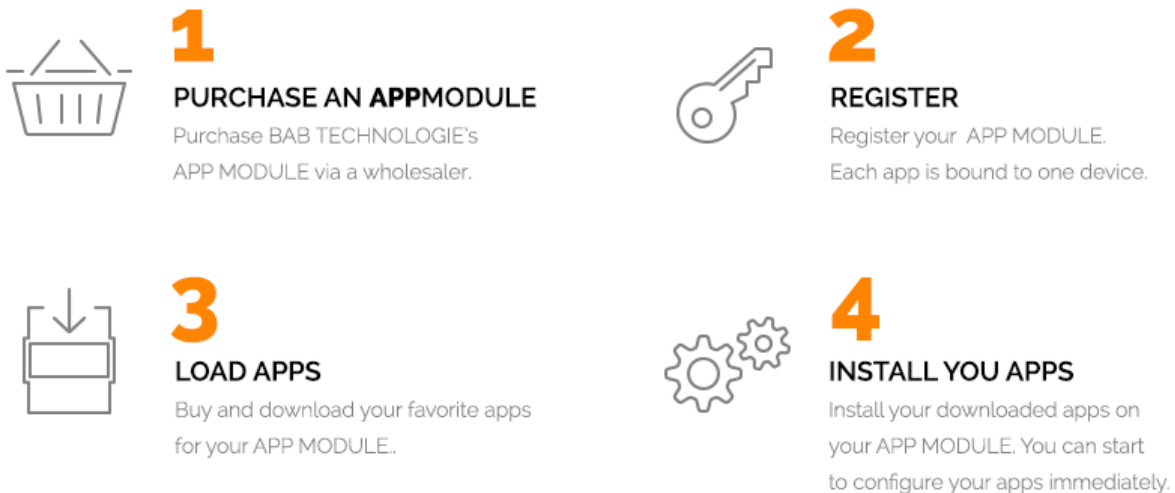
**Note: Should a device with Android 11 or Windows 10 be monitored with presence detection, the option "a new random MAC address every 24 hours" must not be active!**

- 8 instances of presence monitoring LAN (MAC addresses on network)
- Control up to 10 FRITZ! DECT Power Plugs and read energy values
- Control up to 10 FRITZ! DECT Radiator Controllers

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

The innovative, modular Smart Home App concept for building automation. The **APPMODULE** 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 **APPMODULE** becomes a tailor-made integration unit for your building automation.

## HOW IT WORKS



Manufacturer of the **APPMODULE** [BAB TECHNOLOGIE GmbH](#)

Distribution of all Smart Home Apps for the **APPMODULE** [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 **APPMODULE** for a detailed product description and setup instructions.

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

#### Product variants:

The **APPMODULE** is available in three variants:

- **APPMODULE KNX/TP** – for stand-alone use on KNX/TP Bus
- **APPMODULE EnOcean** – for stand-alone use in the EnOcean wireless network
- **APPMODULE IP** – for use in an IP-based KNX installation (KNXnet/IP) or as extension for an EIBPORT

## 4 SMART HOME APP INSTALLATION / UPDATE

Please proceed as follows to install a Smart Home App.

1. Open the **APPMODULE** web page: Enter <IP Address of **APPMODULE** > into your browser's address bar and press Enter. The **APPMODULE** web interface will appear.
2. Log in with your user credentials. Please refer to the **APPMODULE** 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 » **FritzControl Complete** « and click "OK".

The Smart Home App » **FritzControl Complete** « must first be downloaded from the **BAB APPMARKET** ([www.bab-appmarket.de](http://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 **BABAPPMARKET** first.

In the "App Manager" available Smart Home App updates are reported

### Information

To configure the Smart Home App please use Google Chrome.

## 5 SMART HOME APP SETTINGS

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Control your FRITZ!Box® router conveniently via available KNX® clients and combine router commands with any scenarios. It is simple, for example, to active the Guest WIFI using a KNX® button and monitor the call monitor in the visualization. Another top-up feature is status monitoring for MAC addresses using a 1 bit value (presence yes/no).

### 5.1 FRITZCONTROL COMPLETE

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#### **Information**

The browser-session expires after a period of 60 minutes due to inactivity. Unsaved changes to the configuration will be lost.

As soon as the App is installed, you can create so called "Instance". An Instance is one of several objects of the same class.

In order to create an instance, click on the following symbol "Create Instance".

#### **Instance Name:**

Choose a name for this new instance.

#### **Comment:**

Insert a description what this instance does.

### 5.2 CONNECTION PARAMETERS

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#### **FRITZ!Box IP:**

Insert the IP address of your FRITZ!Box. You can try entering the handle 'fritz.box', but it will most likely not work.

#### **FRITZ!Box Username:**

Insert the username with which you want the app to log in to your FRITZ!Box.

Note: leave empty if you only log in with a password.

#### **FRITZ!Box Password:**

Insert the password of your FRITZ!Box (or FRITZ!Box user).

## 5.3 BASIC TOGGLES

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### Wi-Fi 2.4Ghz On/Off (EIS1)

Insert the group address for the Wi-Fi (2.4 GHz) on/off switch.

### Wi-Fi 2.4Ghz Status Indicator (EIS1)

Insert the group address for the Wi-Fi (2.4 GHz) status indicator.

### Wi-Fi 5Ghz On/Off (EIS1)

Insert the group address for the Wi-Fi (5 GHz) on/off switch.

### Wi-Fi 5Ghz Status Indicator (EIS1)

Insert the group address for the Wi-Fi (5 GHz) status indicator.

### Guest Wi-Fi On/Off (EIS1)

Insert the group address for the guest Wi-Fi on/off switch. Note: you can only enable guest Wi-Fi if your regular Wi-Fi is already on and a guest Wi-Fi has been set up.

### Guest Wi-Fi Status Indicator (EIS1)

Insert the group address for the guest Wi-Fi status indicator.

### Reboot (EIS1)

Insert the group address for the reboot command.

## 5.4 CALL MONITOR ACTIONS

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### Call Monitor Actions:

Call Monitor is a special service that you have to enable in your FRITZ!Box by dialing #96\*5\* with a connected phone.

If active, it notifies this app of incoming and outgoing calls (on TCP port 1012), and you can create special actions to perform. Up to 50 call monitor actions can be defined.

### Comment:

Insert a comment to describe the action.

### Trigger Event:

The type of event for which you want to create an action:

- Outgoing Call (Dialing)
- Incoming Call (Ringing)
- Call Established
- Call Ended

### Extension Filter:

Only send the telegrams if a certain extension is involved.

Note: Does not work for trigger event "Incoming Call", but all other types submit an extension id.

### Usage scenarios:

- only mute/unmute the living room stereo if a call is established/ended from the living room phone
- Send the phone number string to a different GA for each extension
- Please check your FRITZ!Box config to find out the extension ids and be aware that FRITZ!Box phone type digits must not be included. For a DECT phone with internal number \*\*610 for instance, the internal id you need to enter is 10, not 610 or \*\*610. The default -1 is a wildcard, which means that there is no filtering.

### Toggle Address (EIS 1):

Set the address to which an action toggle should be sent.

### Toggle Value:

Set the toggle value (0 or 1) that should be sent.

### Remote No. Address (EIS 15):

Set the address to which the remote phone number should be sent.

### Call Duration Address (EIS 10):

Set the address to which the call duration in seconds should be sent. Note: this only works for event type "Call Ended", because only then does the FRITZ!Box send the call duration.

## 5.5 CALL DIVERT TOGGLES

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### Call Diverts:

FRITZ!Box supports up to 30 call diverts. Once configured, they can be toggled via GA.

#### Comment:

Insert a comment to describe the call divert.

#### Incoming Number:

Please enter the number exactly as it is configured in your FRITZ!Box (area codes etc). If your call divert is valid for all incoming numbers, then enter \* in this field.

Contrary to other features of this app, we cannot identify call diverts by their internal id. If you set up your FRITZ!Box with 2 diverts for instance (id 0 and id 1), and some day delete the first one, your FRITZ!Box will suddenly assign id 0 to the second divert instead of keeping id 1.

Because of this, this app needs the incoming and outgoing numbers of your diverts and will identify call diverts through them.

#### Target Number:

Please enter the number exactly as it is configured in your FRITZ!Box (area codes etc). If your call divert target is one of your answering machines then enter its internal number, without the leading \*\* (i.e. 600...609 for answering machines 1...10).

#### Trigger Address (EIS 1):

Set the address that toggles this call divert.

#### Status Address (EIS 1)

Set the address of the status indicator of this divert.

### Toggle All (EIS1):

Insert the group address for a unified call diverts on/off switch.

This app will automatically toggle all call diverts that you configured above when it receives a telegram on this address.

Note: this will not work if you do not set up the toggles for all call diverts individually first.

## 5.6 ANSWERING MACHINE TOGGLES

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### Answering Machines:

FRITZ!Box supports up to 5 or 10 answering machines, depending on your model. Once configured, they can be toggled via GA.

#### Comment:

Insert a comment to describe the answering machine.

#### Answering Machine ID:

Specify the id of this answering machine as seen in your FRITZ!Box web config.

Note: the ids start at 0, so 0...9 for the 10 possible answering machines.

#### Trigger Address (EIS 1):

Set the address that toggles this answering machine.

#### Name Address (EIS 15):

Set the address to which the name of the answering machine, as defined in your FRITZ!Box, will be sent.

#### New Messages Address (EIS 14):

Set the address to which the number of new messages on this answering machine will be sent.

### Toggle All (EIS1):

Insert the group address for a unified answering machine on/off switch.

This app will automatically toggle all answering machines that you configured above when it receives a telegram on this address.

Note: this will not work if you do not set up the toggles for all answering machines individually first.

## 5.7 PRESENCE DETECTION

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### Presence Detection (Wi-Fi)

You can set up to 8 Wi-Fi clients whose presence in your local network will be checked against FRITZ!Box's list of connect clients, and toggle GAs if they appear or disappear.

**Note: Reliable presence detection depends on the MAC addresses entered in the "FritzControl Complete" app.**

Since Android 6 and iOS 9, there is the function "random MAC address" Android and "private MAC address" iOS. Here, the client generates a random MAC address for each WLAN SSID when it connects to a WLAN network for the first time. This MAC address is valid for this WLAN until the WLAN is deleted from the device. If the device is then reconnected to the WLAN, a new random MAC address is generated. Furthermore, it is possible to activate your own fixed MAC address for a specific WLAN SSID in the clients.

In Android 11 and Windows 10, it is also possible for the system to regenerate the MAC address every 24 hours. This option is normally deactivated.

Should a device with Android 11 or Windows 10 be monitored with presence detection, the option "a new random MAC address every 24 hours" must not be active!

#### Device Name

Name the Wi-Fi client.

#### Device MAC address

Specify the MAC address of the Wi-Fi client that you want to monitor (format xx:xx:xx:xx:xx:xx).

#### Presence Indicator (EIS 1)

Set the address of the presence indicator. The app will send a 1 if the Wi-Fi clients appears in your network and 0 if it disappears.

### Presence Detection (LAN)

You can set up to 8 LAN clients whose presence in your local network will be checked against FRITZ!Box's list of connect clients, and toggle GAs if they appear or disappear.

This works very well with Wi-Fi clients, both when they connect and disconnect, and with detecting newly connected LAN clients. However, FRITZ!Box can take minutes to detect the disconnection of LAN clients.

#### Device Name

Name the LAN client.

#### Device MAC address

Specify the MAC address of the LAN client that you want to monitor (format xx:xx:xx:xx:xx:xx).

#### Presence Indicator (EIS 1)

Set the address of the presence indicator. The app will send a 1 if the LAN client appears in your network and 0 if it disappears.

## 5.8 FRITZ! DECT POWER PLUGS

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### FRITZ! DECT Power Plugs

You can configure up to 10 FRITZ! DECT power plugs, such as the FRITZ! DECT 200. Once configured, they can be switched via group addresses, and energy data can be read out.

#### Device Name

Name the DECT power plug.

#### Actor Identification Number (AIN)

Insert the AIN of the device, as it can be found on the device itself or in the FRITZ!Boxes web interface. You may omit whitespaces.

#### Trigger Address (EIS 1)

Set the address that switches this DECT power plug on and off.

#### Connection State (EIS 1)

Set the address on which the connection state between the DECT power plugs and your FRITZ!Box, will be sent. 1 means that the device is connected to your FRITZ!Box.

#### Current Voltage

Set the address on which the current voltage will be sent.

#### Current Voltage Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

#### Current Amperage

Set the address on which the current amperage will be sent.

#### Current Amperage Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

#### Current Power in Watts

Set the address on which the current power consumption in Watts will be sent.

#### Current Power Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

#### Min. Power during Last Hour

Set the address on which the minimal power consumption of the last 60 minutes will be sent.

### **Min. Power during Last Hour Data Type**

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

### **Max. Power during Last Hour**

Set the address on which the maximal power consumption of the last 60 minutes will be sent.

### **Max. Power during Last Hour Data Type**

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

### **Current Temperature**

Set the address on which the current temperature will be sent.

### **Current Temperature Data Type**

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

### **Toggle All (EIS 1)**

Insert the group address for a unified DECT power plugs on/off switch.

This app will automatically toggle all DECT power plugs that you configured above when it receives a telegram on this address.

Note: this will not work if you do not set up the toggles for all DECT power plugs individually first.

## **5.9 FRITZ! DECT RADIATOR CONTROLLERS**

### **FRITZ! DECT Radiator Controllers**

You can configure up to 10 FRITZ! DECT radiator controllers, such as the FRITZ! DECT 300. Once configured, you can set and read the desired temperature via a group address, a read out other temperatures.

#### **Device Name**

Name the device.

#### **Actor Identification Number (AIN)**

Insert the AIN of the device, as it can be found on the device itself or in the FRITZ!Boxes web interface. You may omit whitespaces.

#### **Connection State (EIS 1)**

Set the address on which the connection state between the DECT power plugs and your FRITZ!Box, will be sent. 1 means that the device is connected to your FRITZ!Box.

### **Current Temperature**

Set the address on which the current temperature will be sent.

### **Current Temperature Data Type**

The data type for this floating point value

- EIS 9: 4 Byte Floating Point
- EIS 5: 2 Byte Floating Point

### **Desired Temperature**

Set the address with which the desired temperature is to be set and read.

--[[ desired\_temp\_address\_data\_type ]]

### **Comfort Temperature**

Set the address on which the comfort temperature, as defined in timers, will be sent.

### **Comfort Temperature Data Type**

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

### **Setback Temperature**

Set the address on which the setback temperature, as defined in timers, will be sent.

Setback Temperature Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point



## 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“:<br>[[0],[2...7]] Darker [2, 4, 8, 16, 32, 64] -Steps and<br>[[1],[2...7]] Brighter [2, 4, 8, 16, 32, 64]-Steps<br>„Start/Stop Diming“:<br>[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<br>When driving [0,1] = stop                                                                                                                                                  | 1 Bit   | 1-bit                 |
| Priority                           | EIS 8    | DPT 2.yyy       | [0], [1] Switch on, off;<br>[3] = Forced off;<br>[4] = Forced on                                                                                                                                   | 2 Bit   | 1-bit controlled      |
| IEEE Floating point number (long)  | EIS 9    | DPT 14.yyy      | 4-Octet float value;<br>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)