

FIBARO Home Center 3 Lite



Description

FIBARO Home Center 3 Lite is the core element of the FIBARO System.

It enables the integration of smart home devices into a single system to provide convenient control and a powerful automation platform. The gateway is now even more secure, reliable, and versatile.

Features

- Provides a reliable foundation for FIBARO System,
- Capable of controlling all FIBARO and other compatible devices using the following radio standards:
 - Z-Wave (700 series),
 - Wi-Fi – 2.4 GHz (802.11 b/g/n).
- Allows to add up to:
 - 40 Z-Wave devices (recommended),
 - 1 IP camera,
 - 20 scenes,
 - 10 Quick Apps,
 - 5 plugins.
- No Internet cable required, works on Wi-Fi,

- Modern interface designed for ease of use,
- Enhanced and convenient scene editor,
- Support for more advanced apps and drivers,
- May be used with all devices certified with the Z-Wave Plus certificate and should be compatible with such devices produced by other manufacturers.

Specifications

General information

Model	HC3L-001
Power supply	5V DC , max. 1A (adapter included)
Operating temperature	0-40°C
Operating humidity	max. 75% relative humidity (non-condensing)
Power connector	USB Micro B
Dimensions	178x110x31 mm

Radio Communication

Protocol	Radio frequency band	Max. transmitting power
Z-Wave (700 series)	868.0-868.6 MHz 869.7-870.0MHz	+9dBm
Wi-Fi (802.11 b/g/n)	2400-2483MHz	+20dBm

Status indicator

- **Pulsing blue** – start-up
- **Red** – Wi-Fi in Access Point mode (ready to configure)
- **Pulsing copper** – disconnected from the Internet
- **Green** – connected to the Internet
- **Pulsing red** – start-up to Recovery mode

Buttons

R – Reboot

- Restart: hold **R** button for 5s

D – Recovery

- Put the gateway in Recovery mode: hold **D** button during start-up
- Switch between Dynamic and Static IP: hold **D** button for 10s, then click when diode is blinking:
 - - yellow blinking: IP will switch to Dynamic
 - green blinking: IP will switch to Static
- Reset network settings: hold **D** button for 20s, then click when diode is blinking red

First installation

Installation using Wi-Fi

1. Plug the provided power adapter into an outlet and connect it to the gateway.
2. The gateway will turn on, wait for the indicator to turn solid red.
3. Connect your computer to Wi-Fi network created by the gateway.
You will find Wi-Fi SSID (name) and password on the bottom of the device.

First configuration

First use of the device

1. After connecting to Wi-Fi network created by the gateway, go to find.fibaro.com or <http://10.42.0.1/>.
2. Choose your language.
3. Login with default credentials:
 - Login: admin
 - Password: admin
4. Configure the gateway step-by-step by following steps in the Configuration Interface or skip it.

Remember: connect the gateway to your home Wi-Fi network after finishing the configuration.

Adding controller to Remote Access

1. Log in to your FIBARO ID account.
2. Click *More* in the Remote Access section.
3. Click *Add New Home Center*.
4. Enter data of your Home Center (serial number, MAC address).
5. Click *Add Home Center*.
6. Your Home Center will be now visible on the list.

Interfaces

Configuration Interface

Redesigned Configuration Interface is the new way to manage your FIBARO System. This new interface gives access to your all devices, history, and settings.

Opening Configuration Interface

Using FIND FIBARO web app

1. In your Internet browser go to find.fibaro.com.
2. List of all gateways in your home network will be displayed.
3. Click *Open* next to the gateway you want to configure.
4. Login with your local credentials (default login: *admin*, default password: *admin*).

Using Remote Access

1. In your Internet browser go to home.fibaro.com.
2. Login using FIBARO ID account.
3. List of all gateways in your Remote Access will be displayed.
4. Click *Open* next to the gateway you want to configure.
5. Login with your local credentials (default login: *admin*, default password: *admin*).

Using IP address of the gateway

1. In your Internet browser enter the gateway IP address.
2. Login with your local credentials (default login: *admin*, default password: *admin*).

Using serial number of the gateway (mDNS)

1. In your Internet browser enter gateway address in form: *serial_number.local* (e.g. <http://hc3-00000001.local>).
2. Login with your local credentials (default login: *admin*, default password: *admin*).

Configuration Interface elements

The top navigation bar is always visible and accessible on all pages. Navigation bar consists of:

- **User activity** – shows the user who is currently logged in and Recent logged in users,
- **Update** – in this place you can find new updates for your gateway and devices,
- **Weather** – shows current Temperature, Humidity and Wind speed,
- **Time** – shows the current date and hour,
- **Profile** – in this place you can see which profile is active and change that,
- **Account** – in this place you can go to the Account Settings, do the Recovery, Reboot the gateway or Logout.

There are four main views accessible from the sidebar:

- **Dashboard** – a place where you can manage your all devices across all the rooms and sections. You can change their location, turn them on or off, and view their statuses,
- **History** – a register/record of events that occur in your whole FIBARO system,
- **Scenes** – a list of all scenes in your system that allows to start scenes and view their status,
- **Climate** – a list of all heating and cooling schedules in your system. It allows to view their status or quickly set them to manual/vacation mode,

Additionally, in the lower left-hand corner, there are four more views that you may find important if you want to configure your system, something does not work properly or you want better insight in the gateway operations.

- **Settings** – a list of settings grouped into over a dozen categories, in which you can adjust the operation of the FIBARO System to your needs.
- **Console** – a real-time log of operations happening at the gateway, e.g. adding Z-Wave devices, removing Z-Wave devices, changing parameters, setting associations,
- **API documentation** – access to interactive REST API documentation interface (Swagger) for the gateway,
- **Support** – direct access to the FIBARO Support page.

Interface color theme

The Configuration Interface allows to choose between two color themes: light or dark. The theme can be changed manually or automatically based on the sunrise/sunset hours for the location.

To change color theme manually:

1. Open the Configuration Interface.
2. In top right corner click .
3. Choose *Light/Dark Theme* to change the theme.

To change color theme automatically (based on sunrise/sunset hours):

1. Open the Configuration Interface.
2. In top right corner click .
3. Choose *Account Settings* from the menu.
4. Change *Theme switching mode* setting to *Auto*.

Console

The gateway has an all-new console that can provide detailed information about ongoing processes concerning the Z-Wave network, Quick Apps, and scenes. This means that the new console aggregates all messages pushed by “print”, “debug”, “trace”, “warning”, “error” methods, whether they originate from a scene, a Quick App, or Z-Wave, e.g. general notifications, adding, removing.

Console overview

The **Console** is accessible from the sidebar. Click to unfold the console.

The console consists of 5 main elements:



- 1 – down arrow to hide the console,
- 2 – “Find” field to search for the phrase in the content of messages,
- 3 – “Tag” field to filter messages to show only those connected to the chosen, tag,
- 4 – “Type” field to filter messages according to their types: debug, trace, warning, error,
- 5 – reset button to clear the search and filter parameters.

Using tags for better console management

Console logs may be filled with different messages which may not interest us at the moment. To narrow down the messages to the interesting ones we may introduce tags in our scenes and Quick Apps to quickly find the right messages in the log.

Tags and Quick Apps

Quick Apps create tags automatically, e.g. QUICKAPP263, where 263 is the Quick App ID. However, it doesn’t mean you cannot create any new tags as you see fit.

Tags and Scenes

Scenes fallback to the default tag which is created on the basis of the scene ID, e.g. SCENE54.

That is why any output from that scene to the console will be tagged as SCENE + scene ID.

You can change the tag by specifying the first parameter in the fibaro.debug function, e.g. fibaro.debug('Your Tag', 'Content').

Tags and Z-Wave

Filtering console logs may be useful while adding, removing, or reconfiguring Z-Wave devices. Setting tag to Z-Wave ensures that only Z-Wave related messages will be displayed in the console.

Beware!

Filtering with a tag is possible only after the first use of a given tag. That is why, if you want to catch some operations done by action with a given tag, you need to send a test message first so you will be able to choose the given tag.

Mobile apps

To control the gateway with a mobile device, install the [Home Center app](#).

You can download the Home Center mobile app here:

- [FIBARO Home Center for iOS \(iPhone\)](#)
- [FIBARO Home Center for Android](#)


You can also scan the codes on your mobile device directly:



Devices

Z-Wave devices

Adding Z-Wave devices

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click .
4. Select Z-Wave Device.
5. Set learning mode duration and click *Start adding*.
6. Follow instructions of the device.


There are a few adding options you can choose in the *Add Device* window:

Options you can choose:

- Device is located far from the gateway (disable it for more security),
- NWI – Network-Wide inclusion (useful for devices that are not near the gateway, but within networks range),
- Add in security mode if device supports it.

You can also set Learning mode duration – how much time you will have to perform the adding procedure on the device.

Removing Z-Wave devices (If not added)

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click on the Z-Wave tab.
4. Click .
5. Follow instructions of the device.

Removing Z-Wave devices (If added)

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click next to the device you want to remove from the system.
4. Set learning mode duration and click *Continue*.
5. Follow instructions of the device.

Force removing Z-Wave devices

1. Open the Configuration Interface.
2. Go to > Devices.

3. Click next to the device you want to remove from the system.
4. Set learning mode duration and click *Continue*.
5. Click which appeared in place of .
6. Confirm the action.
7. The gateway will try to communicate with the device. If the device responds, the process will be canceled, otherwise it will be removed from the system.

Associations

Associations allow devices to control other devices directly within the Z-Wave network without the participation of the main gateway. Devices such as Dimmer, Switch, Roller Shutter, RGBW Controller can continue to work and operate selected devices even when the main gateway is damaged or turned off (in case of a fire, flood, or system malfunction). You can read more about associations [here](#).

Setting associations

1. Open the Configuration Interface.
2. Go to [> Devices](#).
3. Click the device you want to associate.
4. Open Associations tab.
5. Select the source EndPoint and Group of the association appropriate for your needs.
6. Select the device you want to associate with.
7. Click to set the association.
8. If the device is battery powered, wake it up manually or wait for next automatic wake up.

Parameters

FIBARO devices allow to customize their operation to user's needs using configurable parameters. The settings can be adjusted via Z-Wave controller to which the device is added. In the FIBARO interface parameters are presented as simple options in Advanced Settings of the device.

Setting parameters for the device

1. Open the Configuration Interface.
2. Go to [> Devices](#).
3. Click the device you want to change its behavior.
4. Open the Parameters tab.
5. Find the parameters you're interested in.
6. Adjust the setting.
7. Click *Save* when you finish.
8. If the device is battery powered, wake it up manually or wait for next automatic wake up.
If the device changes configuration, you will be asked to refresh the screen.

Copying parameters from other device

Configuration of the device can be copied from another device with the same parameters list.

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click the device you want to copy the parameters to.
4. Open the Parameters tab.
5. In the *Copy configuration from* field choose device you want to copy the parameters from.
6. Click *COPY*.
7. Save parameters.
8. If the device is battery powered, wake it up manually or wait for next automatic wake up.

If the device changes configuration, you will be asked to refresh the screen.

Linked devices

Linked Devices combine several devices into one device. Using this function results in controlling the group of related devices as if they were one single device. The group will be presented in the interfaces as a single device. The gateway offers different Linked Devices types: Thermostats, Humidifiers, Video Gates, Switches, Blinds and Sprinklers.

Thermostats

Heating systems present at our homes are quite complex and they often do not offer any smart home capabilities natively. That's why you can create a Linked Device, which can act as the given Thermostat.

How does the linked device work?

When you choose the main device for the thermostat it means that the actions of the switches selected in the Linked Device will depend on the readings from the main device.

Depending on the selected devices, different operating modes will be available. If you select a device (Switch/Wall Plug) as a heating device only, the linked device will support modes only for heating. If you select devices for cooling as well, then the Linked Device supports more modes, i.e.: *Heat, Cool, Auto, Off*.

CREATING THERMOSTATS

How to set schedules for this thermostat?

Heating schedule for this Linked Device is accessible in **Climate** panel.

You can read more about it in the [Climate Schedules section](#).

Humidifiers/Dehumidifiers

There are many devices on the market which helps in humidifying or dehumidifying. However, these devices may not be smart, nor equipped with Z-Wave radio. Using Linked Devices enables us to create the Humidity Device which can still regulate the humidity at your home.

How does it work?


When you choose the main device for the Humidifier, it means that the actions of the switches selected in this Linked Device will depend on the readings from the main device:

If the **humidity (%)** drops **below** your desired **humidity range** , the devices selected as **humidifiers** will **turn on**.

If the **humidity (%)** rises **above** your desired **humidity range**, the devices selected as **dehumidifiers** will **turn on**.

If you have set both humidifier and dehumidifier, the Humidity Device will monitor and control the humidity within the given range. If you set only one device, only humidifier or dehumidifier, you won't be able to set the full range, just the minimum or maximum threshold.

Creating Humidifiers

1. Open the Configuration Interface.
2. Go to [> Devices](#).
3. Click .
4. Choose Other Device.
5. Click *Humidifier*.
6. Enter the name of the humidifier.
7. Choose a Room.
8. Choose the Humidity Sensor.
9. Set desired humidity range.
10. Select humidifiers and dehumidifiers.
11. Save.

Video gates


Video gate is a combination of three devices which together can act as a video gate.

We set:

- device which provide us the preview (*camera*),
- sensor which invokes the bell (*input for bell push*),
- actor which can activate the door lock or gate (*output to open the gate*).

Creating Video Gates

1. Open the Configuration Interface.

2. Go to > Devices.
3. Click .
4. Choose Other Device.
5. Click *Video Gate*.
6. Enter the name of the video gate.
7. Choose a Room.
8. Choose the Camera.
9. Select Input for bell push and Output to open the gate.
10. Save.

Switches (a group of switches)

Advanced and complex smart homes often consist of many switches placed within close areas which we want to control at once. Instead of making a scene which will coordinate the operation of all switches, we can group switches into one Linked Device, so all selected device will follow the actions of the “Master Device”.

The Linked Device may act as a device of a few types:


RGBW Controller – linked devices follow parameters such as brightness, color, and power state.

Binary switch – linked devices follow the power state of the master device (appropriate for simple switches, smart plugs).

Color controller – linked devices follow color parameters of the master device.

Multilevel switch – linked devices follow the voltage output of the master device (appropriate for Dimmers).

Creating Switches (grouping)

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click .
4. Choose Other Device.
5. Choose Switches.
6. Enter the name.
7. Choose a room.
8. Choose Devices, Master Devices and Device Type (RGBW Controller, Binary switch, Color controller, Multilevel switch).
9. Save.


Blinds (a group of blinds)

If we have more blinds or awnings in the same area we usually control at once, it is a good idea to group them in one device. All blinds in that group will follow the master device of our choice.

Usually, devices such as Roller Shutters support few devices of such type, so we need to select appropriate role for the main device:

- blind without positioning,
- blind with positioning,
- venetian blind,
- garage door without positioning,
- garage door with positioning.

Creating Blinds (grouping)

1. Open the Configuration Interface.
2. Go to [> Devices](#).
3. Click .
4. Choose Other Device.
5. Choose Blinds.
6. Enter the name.
7. Choose a room.
8. Choose Devices (all that you want to group).
9. Choose Master Device (the one that other devices will follow).
10. Set the Device Role according to your devices:
 - Blind without positioning,
 - Blind with positioning,
 - Venetian blind,
 - Garage door without positioning,
 - Garage door with positioning.
11. Save.

Sprinklers


If you don't have dedicated watering devices that support Z-Wave or other wireless technology, you can create Sprinklers using Linked Devices.

To create a Sprinkle you need a watering device, for example, a switch connected to a solenoid valve. Optionally, you can add a soil moisture sensor, which will stop watering whenever the set humidity level is reached.

Once you set your Linked Device, you have to configure the watering schedule in the Garden panel. You can read more about it in the [Garden Care section](#).

Creating Sprinklers

1. Open the Configuration Interface.


2. Go to > Devices.
3. Click .
4. Choose Other Device.
5. Choose Sprinklers.
6. Enter the name.
7. Choose a room.
8. Choose watering devices.
9. Select soil moisture sensor (optional).
10. Set default watering time.
11. Set humidity level to turn off watering.
12. Save.

Binary sensors

You can combine multiple binary sensors of the same type to create one main sensor. It will calculate its value from the values of the linked devices using the logical operator you choose. Available operators:

- AND
- OR

Creating Binary sensors

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click .
4. Choose Other Device.
5. Choose Binary Sensor.
6. Enter the name.
7. Choose a room.
8. Choose Sensor Type.
9. Choose sensors that should be linked.
10. Choose which operator should be used to calculate the value.
11. Save.

Multilevel sensors


You can combine multiple multilevel sensors of the same type to create one main sensor. It will calculate its value from the values of the linked devices using the mathematical function you choose.

Available functions:

- Average
- Median
- Maximum

- Minimum


Creating Multilevel sensors

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click .
4. Choose Other Device.
5. Choose Multilevel Sensor.
6. Enter the name.
7. Choose a room.
8. Choose Sensor Type.
9. Choose sensors that should be linked.
10. Choose which function should be used to calculate the value.
11. Save.

Cameras

Adding Cameras

Supported cameras: Your camera must use MJPEG video compression format. H.264, H.265, RTSP, and other streaming formats are not supported in the Configuration Interface.

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click .
4. Click *IP Camera*.
5. Choose Manufacturer and Model of your device (select Other if your camera is not on the list).
6. Click *Next*.
7. Go to the Advanced tab.
8. Enter data for your camera.
9. Click *Save*.

Quick Apps


The concept of Quick Apps is an evolution of plugins and virtual devices found in previous FIBARO gateways.

It is possible to use Quick Apps to prepare integrations with the devices which are not Z-Wave, but offer some API which can be implemented in our Quick App.

Advantages of the new Quick Apps approach:

- easier development,
- simple installation,
- quick configuration,
- usable in scenes.

Creating Quick Apps


1. Open the Configuration Interface.
2. Go to > Devices.
3. Click .
4. Choose Other Device.
5. Choose Quick App.
6. Enter the name of the Quick App.
7. Choose a Room.
8. Choose the device type .
9. Click > next to the created Quick App.
10. Go to Edit&Preview tab.
11. Click *Edit*.
12. Drag & drop items and enter the Lua code (learn more [here](#)).
13. Click *Save*.

[Learn more about programming Quick Apps](#)

Downloading file

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click > next to the Quick App.
4. Open the Advanced tab.
5. Click *Download*.

Uploading file

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click .
4. Choose Other Device.
5. Choose Upload File.
6. Choose file from your computer.

Types of Quick App devices

- Binary sensor,
- Binary switch,
- Color controller,
- Door lock,

- Door sensor,
- Energy meter,
- Generic device,
- Flood sensor,
- Humidity sensor,
- Multilevel sensor,
- Multilevel switch,
- Player,
- Power sensor,
- Remote controller,
- Roller shutter,
- Smoke detector,
- Temperature sensor,
- Thermostat (auto, cool, heat),
- Weather,
- Wind sensor,
- Window sensor.

Notifications

Setting notifications for the device

1. Choose the states of the device you want to be informed about.
Available options depend on the device type.
2. Choose the interval for the notification:
 - Once (will be done once when the event occurs),
 - Once per minute (at the full minute),
 - Once per hour (at the full hour),
 - Once per day (every day at 12.00),
 - Once per week (Monday at 12.00).
3. Choose the channel of communication:
 - E-mail,
 - Push.
4. That's all. You will now be informed every selected time interval the device will be in one of the states you chose.

Settings

Changing Name

1. Open the Configuration Interface.
2. Go to [> Devices](#).
3. Click on the frame next to the device you want to rename.

4. Enter new name.

Changing Room

1. Open the Configuration Interface.
2. Go to > Devices.
3. Choose a room from the list.

Changing Category

Categories are used to filter devices in the History window and in the Home Center mobile app.

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click > next to the device.
4. Choose one of the categories:
 - Lights,
 - Blinds,
 - Ambience,
 - Climate,
 - Gates,
 - Safety,
 - Security,
 - Multimedia,
 - Remotes,
 - Other.

Changing Icon

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click > next to the device.
4. Choose one of the default icons or add new one.

Adding an icon

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click > next to the device.
4. Click *ADD ICON* (Size of the icon must be 128px/128px).

Theoretical power consumption

For switches without a built-in power metering feature, you can define the theoretical power consumption.

Whenever the device is turned on, the meter will assume that it consumes power set by the user (in Watts).

1. Open the Configuration Interface.
2. Go to [> Devices](#).
3. Expand the device you want set the theoretical power for.
4. Open the Advanced tab.
5. Enabled the *Theoretical power consumption* and set the power.
6. Save.

Configuration

Rooms and sections

Rooms and sections are used to organize devices to reflect their place in your house.


Sections

Sections represent areas in your house (e.g. floors) and rooms can be assigned to them.

Adding sections

1. Open the Configuration Interface.
2. Go to [> Rooms](#).
3. Click *Manage sections*.
4. Type in a new name and click plus icon.

Deleting sections

1. Open the Configuration Interface.
2. Go to [> Rooms](#).
3. Click *Manage sections*.
4. Click  next to the section you want to delete.

Rooms

Rooms represent rooms and other places in your house (e.g. living room, corridor) and devices can be assigned to them.

Adding rooms

1. Open the Configuration Interface.
2. Go to [> Rooms](#).
3. Click *Add room*.

4. Set room information:
 - Category – categories are used for filtering rooms by type,
 - Name – name of the room,
 - Section – section of the house the new room will be assigned to,
 - Icon – icon that will represent the room.
5. Save.

Editing rooms

1. Open the Configuration Interface.
2. Go to > Rooms.
3. Click **⋮** in the top right corner of the room icon.
4. Click *Edit*.
5. Edit room information:
 - Category – categories are used for filtering rooms by type,
 - Name – name of the room,
 - Section – section of the house the new room will be assigned to,
 - Icon – icon that will represent the room.
6. Save.

Deleting rooms

1. Open the Configuration Interface.
2. Go to > Rooms.
3. Click **⋮** in the top right corner of the room icon.
4. Click *Delete*.
5. Confirm.

Default room

New devices will be automatically assigned to the default room.

To choose the default room:

1. Open the Configuration Interface.
2. Go to > General.
3. Set Default room (under the section: Main Sensors).

Network settings

Checking network status

There are two ways to check network status of the gateway:

1) By checking the status indicator on the gateway housing:

- Red – Wi-Fi in Access Point mode (ready to configure)

- Pulsing copper – disconnected from Internet
- Green – connected to Internet

2) By checking the network status in the Configuration Interface:

> Network > Internet Status

Wi-Fi connection

Connecting to a Wi-Fi network:

1. Open the Configuration Interface.
2. Go to > Network > Wi-Fi connection.
3. Enable Wi-Fi.
4. Click *Search & Connect to Network*
 - If your network is on the list:
 - Select the network from the list and click *Next*,
 - Enter password if needed.
 - If your network is not on the list:
 - Select *Different/Hidden* and click *Next*,
 - Enter the network name (SSID) and security details.
5. Click *Connect*.

How to set static IP Address:

Setting static IP address on a gateway consists of at least three steps:

1. Determine the IP of the gateway and decide whether is it the IP you want to leave permanently.
2. Configure the home router so that it also keeps the IP for this device.
3. Set the selected IP in the Configuration Interface:
 1. Open the Configuration Interface.
 2. Go to > Network > Wi-Fi connection.
 3. Set *Network connection type* to Static/Manual.
 4. Input the IP address you want to set for the gateway.

How to set dynamic IP Address:

1. Open the Configuration Interface.
2. Go to > Network > Wi-Fi connection.
3. Set *Network connection type* to DHCP.

Resetting network settings

Resetting network settings will restore Wi-Fi factory settings.

Using button on the cover:

1. Hold the **D** button for 20 seconds.
2. Click when the indicator is blinking red.

Using Recovery Interface:

1. Open the Recovery Interface.
2. In *Network Settings* section click *Reset*.

Secure connection

The gateway can use HTTP and HTTPS protocols for communication. Use HTTPS to ensure security by encrypting communication.

To set connection type:

1. Open the Configuration Interface.
2. Go to > Network > Secure Connection.
3. Select connection type:
 - HTTP – standard connection without additional encryption,
 - HTTPS – secure encrypted connection,
 - HTTP/HTTPS – the gateway will accept both types of connection.
4. Save.

REMEMBER: Your browser might show you a warning when connecting via HTTPS, in this case, do the following:

- 1) Download certificate from the Secure Connection section in Network settings and install it on your system (and browser),
- 2) Use the gateway's serial number to connect locally, i.e. use serial_number.local, e.g. `https://hc31-00000001.local`

INSTALLING ROOT CERTIFICATE ON WINDOWS

Users and access

Users

User roles

- **Admin** – only one user, can configure the system, operate devices, add users and give them permissions.
- **User** – one or more users, can switch devices on/off, see the state and history data of devices.

Adding users

1. Open the Configuration Interface.
2. Go to > Access > Users.
3. Click *Add user*.
4. Enter Name and E-mail (we recommend using FIBARO ID) of added user and click *Next*.
5. Message with local password for the new account will be sent to entered e-mail address.

Sharing remote access via FIBARO ID

Only owner can share access to the gateway via FIBARO ID.

1. Log into [Remote Access](#) with your FIBARO ID.
2. Chose the gateway which you want to add the user to.
3. Click > next to the Open button.
4. Click *Add user* button.
5. Enter FIBARO ID e-mail address of the user you want to give access to your gateway.
6. Click *Add*.
7. Open the Configuration Interface.
8. Go to > Access > Users.
9. Click *Synchronize*.
10. User with access via FIBARO ID will have icon on the list.
11. If the user didn't already have an account, message with local password for the new account will be sent to entered e-mail address.

Giving permissions to user

For a new user to be able to use the gateway, admin must give it appropriate privileges.

1. Open the Configuration Interface.
2. Go to > Access > Users.
3. Click *Manage Access* on the user list.
4. Select sections and/or devices to give the user access to them.
5. Click *Save*.

Managing user's mobile devices

1. Open the Configuration Interface.
2. Go to > Access > Users.
3. Click > next to the user.
4. To add a mobile device to the gateway, log in to the mobile application on the given device.
5. To remove a mobile device from the gateway, click the next to it and then confirm action by clicking *DELETE*.
6. Select "Send notifications" checkbox if you want to receive notifications on mobile devices.

Setting PIN for the user

1. Open the Configuration Interface.
2. Go to > Access > Users.
3. Click > next to the user
4. Enter the PIN code. Remember it, you will need this to change it and to disarm the alarm.
5. Select “Ask for PIN when arming” checkbox to increase safety and prevent unintentional arming.

Setting local password for the user

1. Open the Configuration Interface.
2. Go to > Access > Users.
3. Click the > next to the user.
4. Enter new local password.
5. Click *Save*.

Transferring admin privileges

1. Open the Configuration Interface.
2. Go to > Access > Users.
3. Choose the non-admin user to transfer the rights.
4. Click > next to this user.
5. Click *TRANSFER ADMIN ROLE*.
6. Click *Transfer* to confirm.
7. Message about transferring the admin role will be sent to the chosen user’s e-mail address.
8. User has to log into the gateway. In the top right corner click its e-mail address and choose *Account Settings*.
9. Click *ACCEPT* to accept the transfer.

Remote access

Remote Access allows you to connect and manage your control panel and devices from a remote area outside your home. The gateway must be connected to the Internet and powered on.

Enabling remote access

Remote access is enabled by default.

To enable/disable remote access:

1. Open the Configuration Interface
2. Go to > Access > Remote Access.
3. Enable/disable Remote Access toggle.

Support Access

You should enable Support Access when you have an issue that you cannot resolve on your own. By granting access to your gateway, the support team may be able to find problems faster.

Enabling Support Access

To enable support access:

1. Open the Configuration Interface.
2. Go to > Access > Remote Access.
3. Enable Support Access toggle.

Installer Access

The FIBARO System can be configured on your own or by a certified FIBARO Installer. In case your system has been configured by the FIBARO Installer, the Installer Access may facilitate his later work by allowing him to monitor and access to selected information of your system.

Enabling Installer Access

Enabling Installer Access enables FIBARO Installer to check up on your system and fix smaller issues remotely.

Setting Installer permissions

You can allow installer to:

- monitor your gateway (current status, active LEDs, status of services, backups etc.),
- give access for 24h to perform remote actions on your gateway.

Enter Installers FIBARO ID and click Add Installer to give him access to your gateway. Choose mobile devices that can receive push notifications from the installer.

Time and units

The gateway gives you possibility to set the time, time zone, units and even separators!

To adjust the settings:

1. Open the Configuration Interface.
2. Go to > General.
3. Open the Time & Units tab.

Now you can change settings, such as:

Date and time:

- Time zone,
- Date and time (you can get it from the NTP server or set manually),
- NTP server,
- Date format,
- Hour format (12-hour, 24-hour),
- Date,
- Time.

Units and separators:

- Temperature unit (Celsius, Fahrenheit),
- Wind speed unit (km/h, mph),
- Decimal mark (comma, dot).

Location

Setting location in the gateway allows you to personalize your smart home experience.

Location is used for weather retrieving and can also be useful for automation purposes.

Once you set your home and/or work location, you can trigger certain scenes via entering or leaving the zone.

NAME	ADDRESS	LATITUDE	LONGITUDE	RADIUS
HC3-00000280	Poznań, Poland	52.40520362449368	16.89806890390791	100 m

Home Location configuration interface showing a map of Poznań, Poland, and input fields for Name, Address, Latitude, Longitude, and Radius. A 'Save' button is visible at the bottom right.

To set your home location:

1. Go to > General > Location (tab).
2. Drag the map so that you see your home address.
3. Click the location of your home to update the pin.
4. Set the radius accordingly to your house and property size, e.g. 100m.
5. Save.

To add another location:

1. Go to > General > Location (tab).
2. Click **Add Location**.

3. Enter the name of your new location, e.g. Work.
4. Drag the map and click the place of your work.
5. Set the radius of your work, e.g. 300 m.
6. Save.

Z-Wave

This screen is dedicated to Z-Wave configuration. The gateway is capable of supporting a variety of devices and integrations available in your browser for example as Quick Apps or real Z-Wave devices.

Z-Wave Settings allows to:

- Reconfigure all devices,
- Reconfigure mesh network (You can choose if you want to configure entire Z-Wave network or single devices),
- Broadcast “Node Information” frame,
- Add secondary controller,
- Transfer controller,
- Reset energy metering,
- Reset Z-Wave,
- Enable devices polling,
- Poll unavailable devices,
- Mark nodes as unavailable,
- Set devices polling time interval,
- See number of devices added to your gateway.

Automation

Scenes

Scenes allow automating your system to provide the real Smart Home experience. They can integrate multiple devices included in your system and may be activated by weather conditions, a series of intuitive timers or various sensor/module states.

There are two types of scenes to create in the interface:

- **Block Scenes** are easy to build. Using number of available customizable blocks complex scenes can be visually created. It is not possible to implement all functionalities of the FIBARO System with Block Scenes, but are the best way for a basic user to enhance home automation.

- **Lua Scenes** are most advanced, but allow user to fully utilize all FIBARO System capabilities. Such scenes are based on the Lua programming language and require basic programming skills.

Creating scenes

1. Open the Configuration Interface.
2. Go to > Scenes.
3. Click *Add scene*.
4. Choose scene type.
5. Set basic settings:
 - Name – name of the scene.
 - Run scene – choose if the scene will be run automatically (when conditions are met) or manually (ignore conditions).
 - Allow to restart a running scene – if set to *Yes*, every new activation of the scene restarts it, if set to *No*, scene can't be activated again if it is already running.
 - Category – categories are used for filtering scenes by type.
 - Icon – icon that will represent the scene.
6. Save.

Read further on creating scene using blocks [here](#).

Editing scenes

1. Open the Configuration Interface.
2. Go to > Scenes.
3. Click the to edit the scene.
4. Edit scene.
5. Save.

Deleting scenes

1. Open the Configuration Interface.
2. Go to > Scenes.
3. Click the to delete the scene.
4. Click *Delete*.

Duplicating scene

1. Open the Configuration Interface.
2. Go to > Scenes.
3. Click next to the scene you want to duplicate.
4. Click *Copy* to confirm.

Converting Block Scene to Lua Scene

1. Open the Configuration Interface.

2. Go to > Scenes.
3. Click next to the scene you want to duplicate.
4. Click *Copy & Convert* to confirm.

Managing scene settings

Changing name

1. Open the Configuration Interface.
2. Go to > Scenes.
3. Click on the frame next to the scene you want to rename.
4. Enter new name.

Disabling/enabling

1. Open the Configuration Interface.
2. Go to > Scenes.
3. Click *Disable/Enable* button next to the scene you want to disable/enable.

Changing triggering mode (manual/auto)

In auto mode, the scenes runs automatically, when triggers and conditions are met, in manual mode the scene can be triggered only manually by the user.

1. Open the Configuration Interface.
2. Go to > Scenes
3. Click toggle to change triggering mode.

Changing other settings

1. Open the Configuration Interface.
2. Go to > Scenes.
3. Click > to expand the scene.
4. Edit scene settings:
 - Allow to restart a running scene – if set to *Yes*, every new activation of the scene restarts it, if set to *No*, scene can't be activated again if it is already running.
 - Category – categories are used for filtering scenes by type.
 - Scene hidden – check to hide scene from interfaces.
 - Require PIN to run – check if you want to protect the scene by requiring PIN to run it.
 - Icon – icon that will represent the scene.
5. *Save*.

Running scenes

1. Open the Configuration Interface.
2. Go to > Scenes.

3. Click *Play* button next to the scene which you want to run.

Variables

Variables allow you to create more advanced scenes and home automations which goes beyond just a scene setup. There are situations and things that you want to keep track outside the particular scene, or you want to share the variable across different scenes.

Standard variable – The Standard variable can store any value you wish. The value stored in the Standard variable can be set manually in the HC's > General > Variables or from a scene. It can then be used as part of a condition in other scenes.

Enumerated variable – The Enumerated variable has set values that you configure when you create the variable. The variable can then only be set to one of these preset values. It is useful having defined values such as Night, Day, Home, Away etc.

1. Open the Configuration Interface
2. Go to > General > Variables.
3. Click *Add Variable*.
4. Choose Standard or Enumerated variable.
5. Enter the Name and Value/Values.
6. Click *Add*.

Events

Custom events may be used to expand the functionality of scenes. Similar to variables, they can be used to connect different scenes, but they do not store any additional information, only that something happened (specified by you). You can emit your custom event in scenes and QuickApps, then use it to trigger other scenes.

Creating an event

1. Open the Configuration Interface
2. Go to > General > Events.
3. Click *Add Event*.
4. Choose the name for the event.
 - The name cannot contain:
 - digits at the beginning of the name,
 - special characters (only letters from English alphabet),
 - spaces.
5. Fill in the description.
6. Click *Add*.

Block Scenes

[Check here to see documentation for Block Scenes.](#)

Lua Scenes


[Check here to see documentation for Lua Scenes.](#)

Climate schedules

Temperature schedules allow for automatic control of heating and cooling for each area (zone) of the house.

Devices controlling temperature (e.g. thermostats) are required to create the temperature zone. You can create your own thermostats by connecting a temperature sensor and actor that turns heating/cooling on/off.

Creating Thermostats

1. Open the Configuration Interface.
2. Go to [> Devices](#).
3. Click .
4. Choose Other Device.
5. Click *Thermostat*.
6. Enter the name of the thermostat.
7. Choose a Room.
8. Choose the main device.
9. Select heating and/or cooling devices.
10. *Save*.

Adding zones

1. Open the Configuration Interface.
2. Go to [> Climate](#).
3. Click *Add Zone*.
4. Select how zones should be created:
 - Automatically – zones will be created automatically for all rooms with temperature devices.
 - Manually – manually select devices to be included in the new zone.

Zone modes

- Schedule – zone works according to the set schedule.
- Manual – constant temperature is set for a specified time duration.

- Vacation – constant temperature is set until disabled.

Configuring zone schedule

1. Open the Configuration Interface.
2. Go to > Climate.
3. Click > to expand the zone.
4. Select operating mode:
 - Heating: devices increase the temperature to reach the temperature setpoint,
 - Coolin: devices decrease the temperature to reach the temperature setpoint,
 - Auto: devices determine if they should cool or heat to reach the temperature setpoint,
 - Off: devices are always off.
5. Set start times for periods by moving the sliders or entering them below.
6. Enter temperatures to be set on each period.
7. *Save*.

If you want to use the same schedule on multiple days, you can set it once, then copy it to the remaining days.

Editing zone name and devices


1. Open the Configuration Interface.
2. Go to > Climate.
3. Click the to edit the zone.
4. Change name or devices in the zone.
5. *Save*.

Garden care

Watering schedules allow for automatic control of your sprinklers.

You need to create sprinklers first in order to configure watering schedules.

Creating sprinklers

1. Open the Configuration Interface.
2. Go to > Devices.
3. Click .
4. Choose Other Device.
5. Choose Sprinklers.
6. Fill in new sprinkler settings:

- Enter the name.
- Choose a room.
- Choose watering devices.
- Choose watering default time.
- Select soil moisture sensor (optional).
- Set humidity level to turn off watering.

7. *Save*.

Editing sprinklers

1. Open the Configuration Interface.
2. Go to > *Devices*.
3. Find your sprinkler on the list.
4. Click > next to the sprinkler you want to edit.
5. Click *EDIT DEVICE*.
6. Edit settings and *Save*.

Adding and configuring watering schedules

Adding watering schedule

1. Open the Configuration Interface.
2. Go to > *Garden*.
3. Click *Add Schedule*.
4. Insert name for watering schedule.
5. Click > to expand the schedule.
6. Choose days to apply the schedule for.
7. Click *Save*.

Adding watering sequences to a schedule

1. Click > to expand the schedule.
2. Click *ADD SEQUENCE* to add new sequence to the schedule.
3. Choose devices to use in this sequence.
4. Click > next to the sequence to configure it.
5. Set order of the sprinklers and modify duration if needed.
6. Repeat steps 2-5 to add and configure more sequences.
7. Click *Save*.

Profiles

Profiles are sets of states (of devices, zones, scenes) that can be activated quickly by the user or a scene.

At least one profile is required. There are four default profiles, but you can add more if you want to.

Creating profiles

1. Open the Configuration Interface.
2. Go to > Profiles.
3. Click *Add Profile*.
4. Name the new profile.
5. If you want to copy settings from another profile, select it in *Based on* field.
6. Select icon for the new profile.
7. Click *Add*.

Configuring profiles

1. Open the Configuration Interface.
2. Go to > Profiles.
3. Set how your scene, devices and zones should work in each profile.

Editing profile name and icon

1. Open the Configuration Interface.
2. Go to > Profiles.
3. Next to profile name click **⋮**.
4. Click *Edit*.
5. Change name or click new icon.
6. *Save*.

Deleting profiles

1. Open the Configuration Interface.
2. Go to > Profiles.
3. Next to profile name click **⋮**.
4. Click *Delete*.
5. Confirm.

Activating profiles manually

1. Open the Configuration Interface.
2. On the top bar click the name of current profile.
3. Click on the name of the profile you want to activate.

Alarms

Alarm feature allows to create alarm zones using sensors in your system. Breaching any sensor in an armed zone will trigger an alarm. The system will inform you about an alarm, you can also activates scenes when alarm triggers.

icon indicates the occurrence of an alarm. When alarm occurs, icon becomes red and clickable. Clicking icon will direct you to [Settings > Alarm](#) so that you can see in which zone the alarm occurred.

Adding zones

1. Open the Configuration Interface.
2. Go to [> Alarm](#).
3. Click *Add Zone*.
4. Name the new zone.
5. Select rooms or devices to be included in the new zone.

Arming/disarming zones

Arming zone will arm all devices in this zone, and disarming the zone will disarm all devices in this zone.

1. Open the Configuration Interface.
2. Go to [> Alarm](#).
3. Under *Arming* column click the toggle to arm/disarm the zone.
4. Enter PIN if required (default PIN is 1111).

Setting PIN

The default PIN is 1111, we strongly recommend changing it.

1. Open the Configuration Interface.
2. In top right corner click your user name.
3. Choose *Account Settings* from the menu.
4. In *Alarm Settings* section:
 - o Set 4-digit PIN.
 - o Choose if you want the gateway to ask for PIN also while arming (not only disarming).
5. *Save*.

Setting delay for arming/disarming

1. Open the Configuration Interface.
2. Go to [> Alarm](#).
3. Enter delay time (in seconds) for the zone:
 - o Entry delay – the alarm will delay triggering to allow you to disarm the zone when you enter it.
 - o Exit delay – the alarm will delay arming to allow you to leave the zone without triggering it.

Editing zone name and devices

1. Open the Configuration Interface.
2. Go to [> Alarm](#).
3. Click the to edit the zone.

4. Change name or devices in the zone.
5. *Save*.

Maintenance

System report

The system allows to print a full report of the configuration for easier management and diagnostics.

The report gives you all the necessary information about the system at first glance. This can be useful for example for finding devices needing battery replacement or creating scenes.

The report includes information about:

- network configuration,
- rooms,
- devices,
- scenes,
- users,
- alarm zones,
- climate zones,
- garden schedules,
- profiles,
- general settings,
- variables and events,
- backups.

To generate system report:

1. Open the Configuration Interface.
2. Go to [> General](#).
3. Click *Generate* next to *Generate system report*
4. A new window with the report will open ready to print.

Recovery Mode

Recovery Mode allows retrieving the gateway operating system in case of technical problems, e.g. when the Configuration Interface is not reachable after update.

Using Recovery Mode you can repair the system or restore the default configuration (to its initial state).

The gateway maintains two copies of the system (System A and B) to ensure safety of your data during the firmware update. Updating system is always performed on the inactive system, then the gateway switches to it, thus maintaining copy of your data from before the update. In case of any problems you can switch back to it.

Entering Recovery Mode

Using button on the cover:

1. Unplug the power supply from the gateway.
2. Press and hold the **D** button.
3. Plug the power supply into the gateway.
4. Release the **D** button when the indicator starts pulsing red.
5. When the indicator turns green, open the Recovery Interface in your Internet browser, as you would normally open the Configuration Interface.

Using Configuration Interface:

1. Open the Configuration Interface.
2. In top right corner click .
3. Choose Recovery Mode from the menu.
4. Confirm.
5. Wait for the system to reboot, the indicator will turn green.
6. Refresh the browser tab.

Auto-repairing system

In case of problems after updating your system, you can quickly repair it by using auto-repair. It will switch to copy of your system from before the last system update.

1. Enter the Recovery Mode.
2. Click Auto-repair.
3. Confirm.

Switching between systems

You can switch between system A and B at any moment using the Recovery Mode, e.g. when current system encounters a problem.

1. Enter the Recovery Mode.
2. Click Switch to System A/B.
3. Choose if you want to restore Latest version or use Local file.
4. Confirm.

Repairing system

This feature allows you to restore the operating system to the latest version or version from a file without deleting any user data. Only the system will be refreshed.

Depending on how you have entered the Recovery Mode, different system will be available

for repairing: inactive when entered via configuration interface or active when entered using **D** button. Switch system to repair the other one.

1. Enter the Recovery Mode.
2. Click Repair System A/B.
3. Choose if you want to restore Latest version or use Local file.
4. Confirm.

Resetting network settings

In some cases, problems with the gateway may be caused by changes in the network configuration of the environment in which the gateway is located. If you do not want to restore the entire system to factory settings, try resetting the network settings first, as this may solve your problems with the gateway.

1. Enter the Recovery Mode.
2. Click Reset in the Reset Network Settings section.
3. Confirm.

Recovering system

CAUTION: *The configuration will be removed and lost if not backed up.*

This feature allows you to restore the operating system to the latest version or version from a file and delete all data from this system (users, devices, scenes etc.).

Depending on how you have entered the Recovery Mode, different system will be available for recovering: inactive when entered via configuration interface or active when entered using **D** button. Switch system to recover the other one.

1. Enter the Recovery Mode.
2. Click Recover System A/B.
3. Choose if you want to restore Latest version or use Local file.
4. Confirm.

Restoring factory defaults

CAUTION: *The whole configuration will be removed and lost if not backed up.*

This feature allows you to restore HC3 to factory settings. It means factory software version will be restored and all data from system A and B will be deleted (users, devices, scenes etc.).

1. Enter the Recovery Mode.
 2. Click Factory Reset button under Network Status section.
 3. Check “Yes, I’m sure and I know what I’m doing” checkbox.
 4. Confirm action.
-

Updates

Updating the gateway

The gateway will inform you if there are any new updates with red badge and number on icon in the top bar. Updates may include new features, improvements, and bug fixes. We recommend installing those updates as soon as they are available to ensure best operation and security.

Updating the gateway is not possible via the Remote Access.

To update the gateway:

1. Go to > Update > Home Center.
2. Click *Download Update* for the respective update.
3. Wait for the update to be downloaded.
4. Determine whether you want to do the cloud backup, local backup or no backups before the update.
5. Accept Terms & Privacy Policy.
6. Click *Install Update*.
7. Click *Update* to confirm the update.

Updating connected devices

Updating the devices is not possible via the Remote Access.

To update devices:

1. Go to > Update > Devices (tab).
2. Click *Update* next to available update or select multiple and click *Install Updates*.
3. Read the changelog and check the tickbox that you want to continue.
4. Click *Update*.

Checking devices and integrations limit

The gateway allows adding only a limited number of devices and integrations to ensure smooth operation.

In order to check the limit and how many devices and integrations are already added:

1. Open the Configuration Interface.
2. On the top bar click .
3. You will see the current number of devices and integrations, as well as the limits.

Backups

Backups of your entire system are the best way to prevent losing configuration data in case of any issues or unintentional changes. We recommend creating backups regularly.

There is limited storage for backups! You can store up to 5 local and up to 50 MB of backups in our cloud service. If you need more you can download and save them on your computer.

Creating backups

Creating cloud backups

Cloud backups require configured and enabled Remote Access (see link enable remote access).

1. Open the Configuration Interface.
2. Go to > Backup > Cloud Backup.
3. Click *Create backup*.
4. Enter a description for the new backup.
5. Confirm.
6. Wait for the process to end (interface will be unavailable while creating the backup).
7. The backup will be added to your cloud backups.

Creating local backups

1. Open the Configuration Interface.
2. Go to > Backup > Local Backup.
3. Click *Create backup*.
4. Enter a description for the new backup.
5. Confirm.
6. Wait for the process to end (interface will be unavailable while creating backup).
7. The backup will be added to your local backups.

Downloading local backup file

1. Open the Configuration Interface.
2. Go to > Backup.
3. Click *Download* next to the local backup you want to download.
4. File with last local backup will be downloaded on your computer.

Restoring backups

Cloud backups require configured and enabled Remote Access (see link enable remote access).

Restoring backup from the list

1. Open the Configuration Interface.
2. Go to > Backup.
3. Next to backup you want to restore click *Restore*.

4. If provided with options:
 - Click *Restore & Convert* – backup created on earlier software version will be restored on the current version.
 - Click *Restore with version* – backup created on earlier software version will be restored with that version.
5. Confirm.
6. Wait for the process to end (interface will be unavailable while restoring backup).

Restoring local backup from file

1. Open the Configuration Interface.
2. Go to > Backup > Local Backup.
3. Click *Upload backup*.
4. Select backup file on your computer.
5. Backup will be added to your list.
6. If you want to restore the backup, click *Restore* next to it.

Diagnostics

Diagnostics screen presents technical data about actual use of particular components, i.e. CPU, RAM, Storage, Z-Wave. This can help in troubleshooting or understanding how certain actions influence our system.

There are 4 tabs:

- **CPU** – shows the actual use of each core,
- **RAM** – shows the actual use of RAM memory and indicated how much percent is used for what purpose,
- **Storage** – shows the status of internal memory,
- **Z-Wave** – lists all Z-Wave devices that are not configured or without templates.

Integrations

Assistants

Are you tired of constantly searching for functions on your smartphone? Do you want your smart home to work on demand? This is possible thanks to the assistants. Check out the assistants that work with FIBARO!

Assistants that works with FIBARO:

- Google Assistant,
- Amazon Alexa,
- FIBARO Smart Home Bot.