User Manual

ProLine SIP HD
ProLine SIP Compact HD

Software version 1.0.0 or higher

Manual version: 1.0.1
Date: 13-06-2024

About this manual

This manual describes the installation and programming of the Robin SIP HD intercoms in combination with software version 1.0.0 You can update the software of the Robin to the latest version. For instructions on updating see chapter 5.2.5.7 System / Software of this manual.

This manual applies to:

Robin ProLine SIP HD
Robin ProLine SIP Compact HD

This manual also applies to all 'for Teams' intercoms of Robin, these are optimized intercoms for use with the CyberGate service of CyberTwice.

If you have any questions after reading this manual, please contact us at:

website: www.robintele.com
support website: support.robintele.com
e-mail: info@robin.nl
phone: + 31 72 534 64 26

Important safety information

Take the following security measures when using a Robin:

- The use of port forwarding in routers / firewalls to access the Robin door phones is strongly discouraged. Use the Robin door phones on the local network (LAN) only
- Change at first use the password of the 'admin' (in the menu -System-Security-), it is recommended to change them regularly
- Use strong passwords (minimum 12 characters long)
- Configure the used PBX / VoIP provider to only allow the Robin door phone to call its programmed destination numbers using the white-list function in the PBX / VoIP provider
- Update the Robin door phone regularly

By default, access to the webinterface of the Robin is limited to devices that are connected to the same network as where the Robin resides. It does allow access from other networks, but only for the first 30 minutes after reboot.

This security feature can be disabled (not recommended!) in chapter 5.2.5.5 System / Security.

Table of Contents

1 Introduction

1.1 Robin ProLine SIP Door Intercoms

ProLine SIP Compact HD

ProLine SIP HD

The Robin ProLine SIP models have many integrated functions in one single device:

- Telephone device with a capacitive push-button
- SIP support for audio and video
- HD audio support (OPUS and G.722)
- Full HD camera with a wide-angle lens
- Security camera with movement- and audio detection
- RTSP streaming (audio and video)
- Built in door opener
- Advanced event mechanism
- Extended API (Application Programming Interface)
- Premium design
- Backlit button for more convenience during night time use
- Engravable illuminating name label
- Recessed screws
- ProLine SIP Compact - Compact form factor, no visible screws
- Optional Ambient lighting

1.2 Robin features

Easy to install

A single module is all that has to be mounted; there are no extra modules necessary.

Simple operation

The Robin devices can dial predefined phone extensions. The door opener relay is activated via the device to which the call is directed.

SIP communication

The Robin uses the Session Initiation Protocol (SIP). This means that the intercom can be connected to any IP-PBX or VoIP provider that supports the SIP protocol. The Robin supports SIP over UDP, TCP and SIP-TLS 1.2

Four simultaneous SIP registrations

The Robin can be configured to connect to multiple SIP servers simultaneously. So it is always possible to configure the Robin to your needs.

Robin 'for Teams'

The Robin 'for Teams' is designed to communicate to Microsoft Teams using the CyberGate service of CyberTwice. It cannot be used with other IP-PBXs or VoIP providers.

Microsoft Teams support

All Robins can be connect to a Microsoft Teams environment using the CyberGate service of CyberTwice. CyberGate offers audio and video support. Calls made with the Robin will be directed to a Microsoft Teams user that can communicate, see the person at the door and open the door remotely. For more information about CyberGate, see the website https://cybertwice.com

Door opener

The potential free relay switch (dry contact) embedded in the Robin is activated by typing in a key combination at the dialled device. The key combination can be specified in the WEB-GUI of the Robin. The relay can be used to open a door, a gate or a barrier.

Video support

A real-time full-HD video image of the person using the Robin can be displayed on the screen of the H.264 compatible videophone or softphone as soon as a call is answered. Resolution on the videophone or softphone might be lowered due to the restrictions of the used phone.

High-Definition video quality

The integrated Full HD camera of the Robin is capable of displaying the video image in Full High-Definition (1080p). The image can be set to an aspect ratio of 4x3 or 16x9.

HD audio

The Robin supports the two most used HD audio codecs, OPUS and G.722. Thanks to the advanced audio DSP in the Robin, its sound quality is exceptionally good without any echo or interference.

Security camera function

The integrated camera can also be used for surveillance purposes. The Robin is able to deliver the Full HD video stream to many Video Management Software systems (VMS) in two formats, MJPEG and H.264 (RTSP).

Ambient lighting (option)

The Ambient light option for the Robin illuminates the building indirectly at night and improves night vision during calls.

No separate power supply

The Robin is powered via Power over Ethernet (PoE IEEE 802.3af). This eliminates the need for a separate power supply; connection to a PoE network switch or Midspan is all that is necessary.

Web-based configuration

The Robin can be configured on a PC or Mac via a web browser (e.g. Firefox, Chrome, Safari). Using a web browser, modification of all the settings for the Robin is easy, regardless of the physical location of the Robin.

Compatible with WEBRelay

The Robin is compatible with an external IP relays, the ControlByWeb WEBRelay Quad-LS. This external device is equipped with 4 build-in relays and can be connected to the LAN. The Events mechanism in the Robin can control the four relays (see chapter 5.2.5.3 System / Events).

2 Operation

2.1 Operating the door phone

To ring the door phone, press on the bell-sign on the Robin. The unit will play a ringing sound and the defined telephone set will be called. The illuminated label will indicate that the button is pressed.

2.2 Answering

Answer a call initiated by the Robin by answering the phone that is being called. The video picture of the integrated camera will be displayed if the call is answered on a compatible phone.

2.3 Controlling the built-in door opener

The built-in door opener is controlled with predefined keys on the telephone set that answers the call. When you activate the door opener, the attached door, gate, barrier, etc. will open.

You can change the default code to open the door in the interface of the Robin in the menu -System-Switch-Settings- (default code: ##).

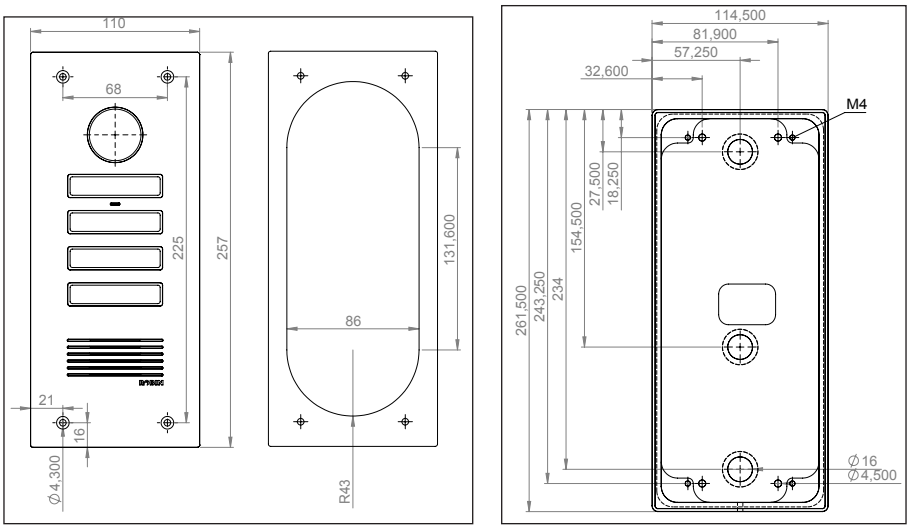
3 Installation

3.1 Robin ProLine

3.1.1 Package contents

TBD.

3.1.2 Installation dimensions Robin ProLine

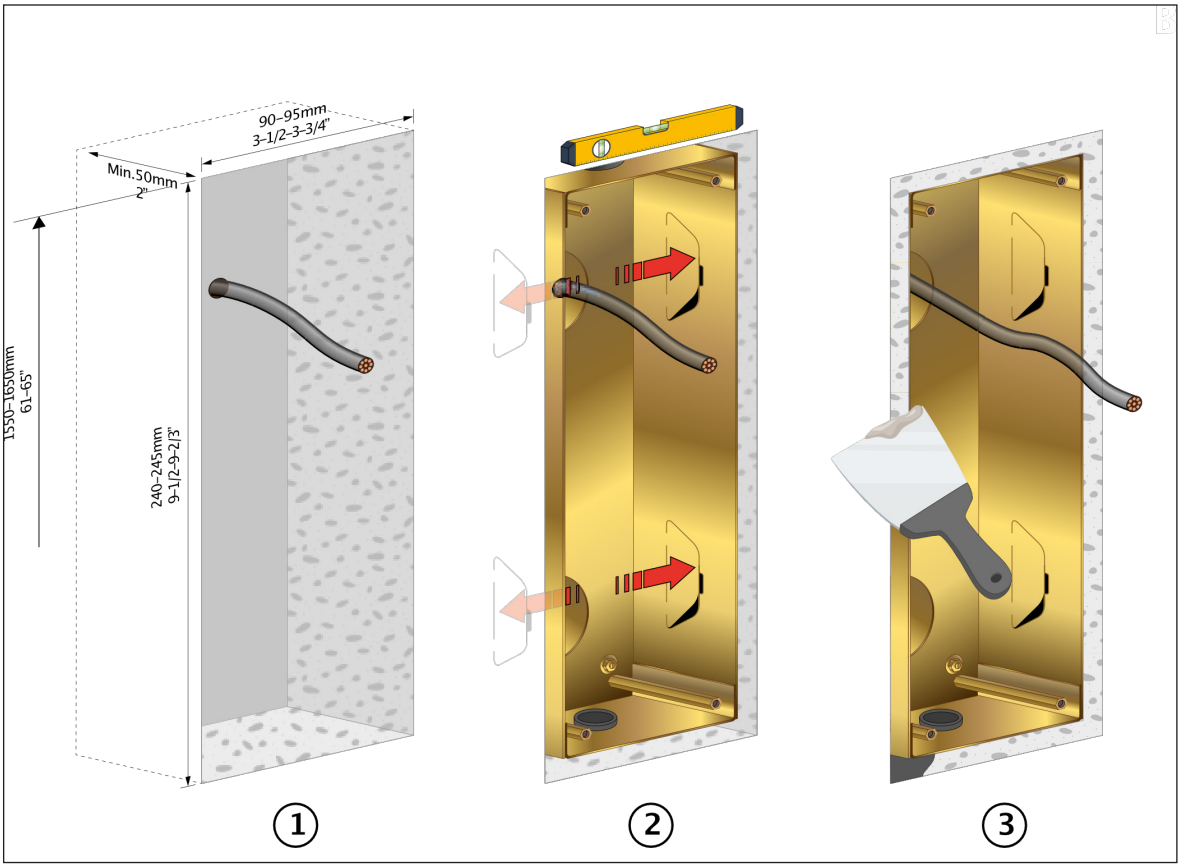


The dimensions of the flush mount box and surface mount box are:

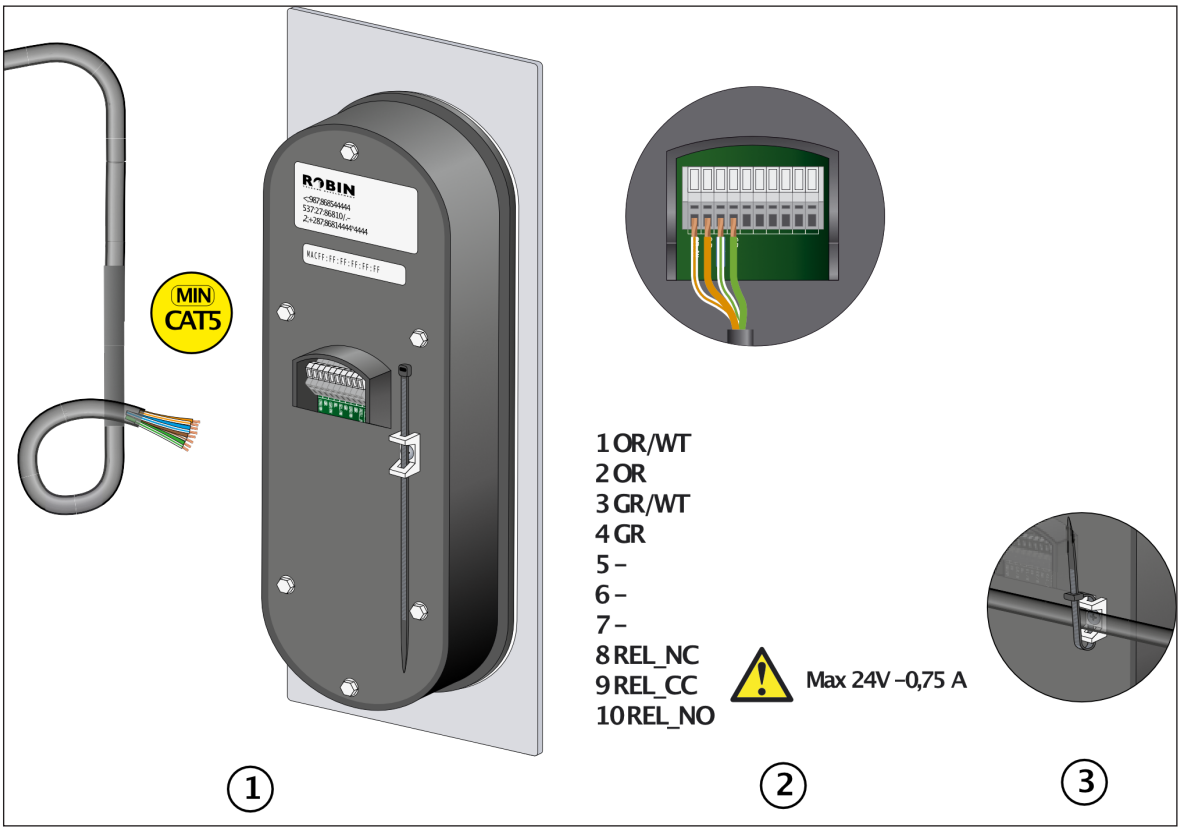
• 1 Flush mount box - C01112	88 (B) x 47 (D) x 239 (H)
• 1 Surface mount box - C03001	115 (B) x 45 (D) x 261 (H)

3.1.3 Mounting the Robin ProLine using the surface mount box

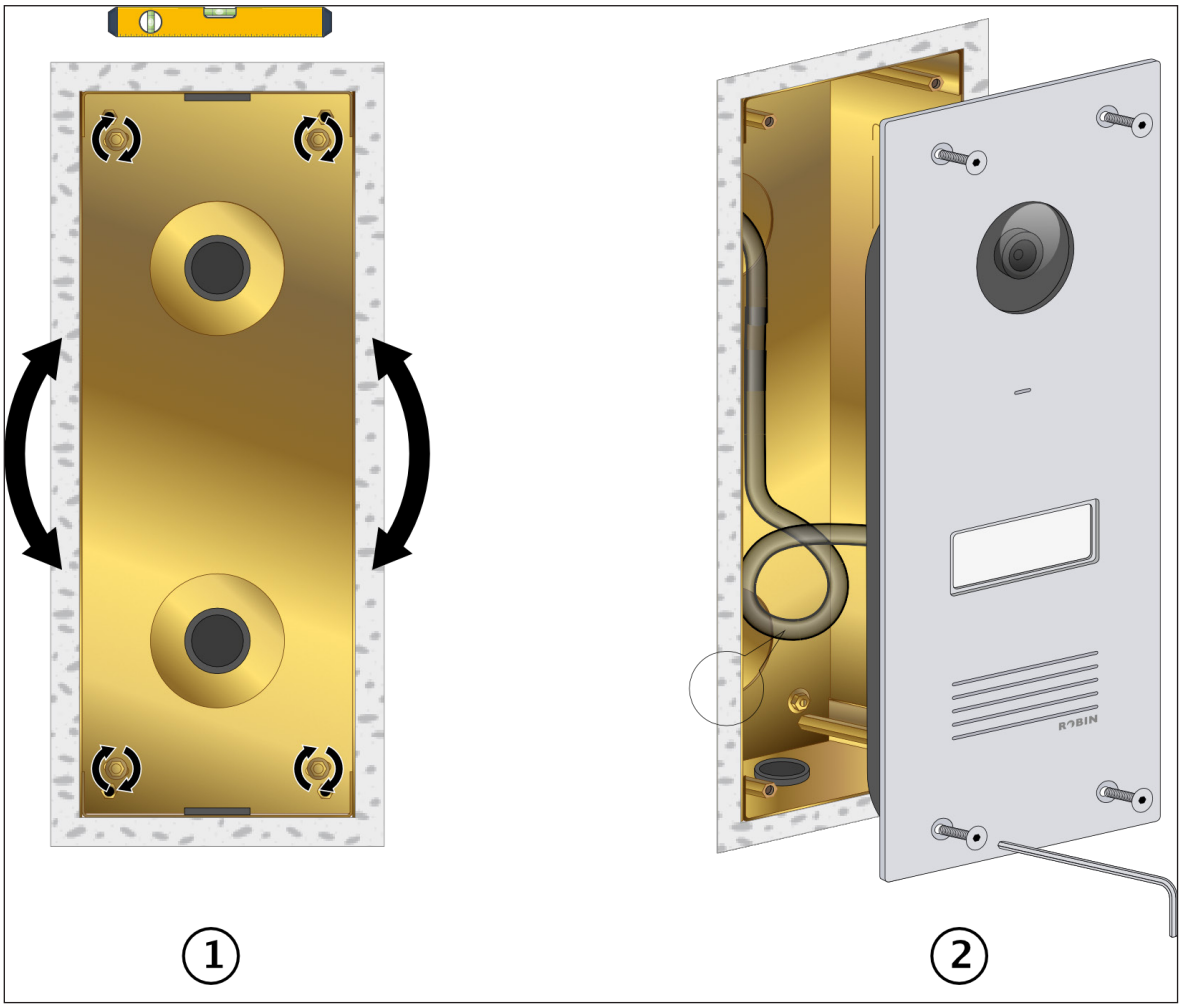
For mounting in a stone wall, make a recess in the wall with the indicated dimensions (1).
Drill a hole through the wall for the Ethernet cable and optional electronic door lock cable.
Pass the cables through one of the four holes in the flush-mounting box.
Make sure the flush-mounting box is level and flush with the wall.
Pull out the four tabs so that it is fixed in position (2).
Fill the space between the flush-mounting box and the wall with wall filler and let it dry (3).



Connect the cable (1).
The colours for the individual cores must match the colour coding on the PCB.
An additional cable (two-wire) is required for the optional electronic door lock (2).
Attach the cable(s) to the housing as a tension relief using the supplied tie wrap (3).



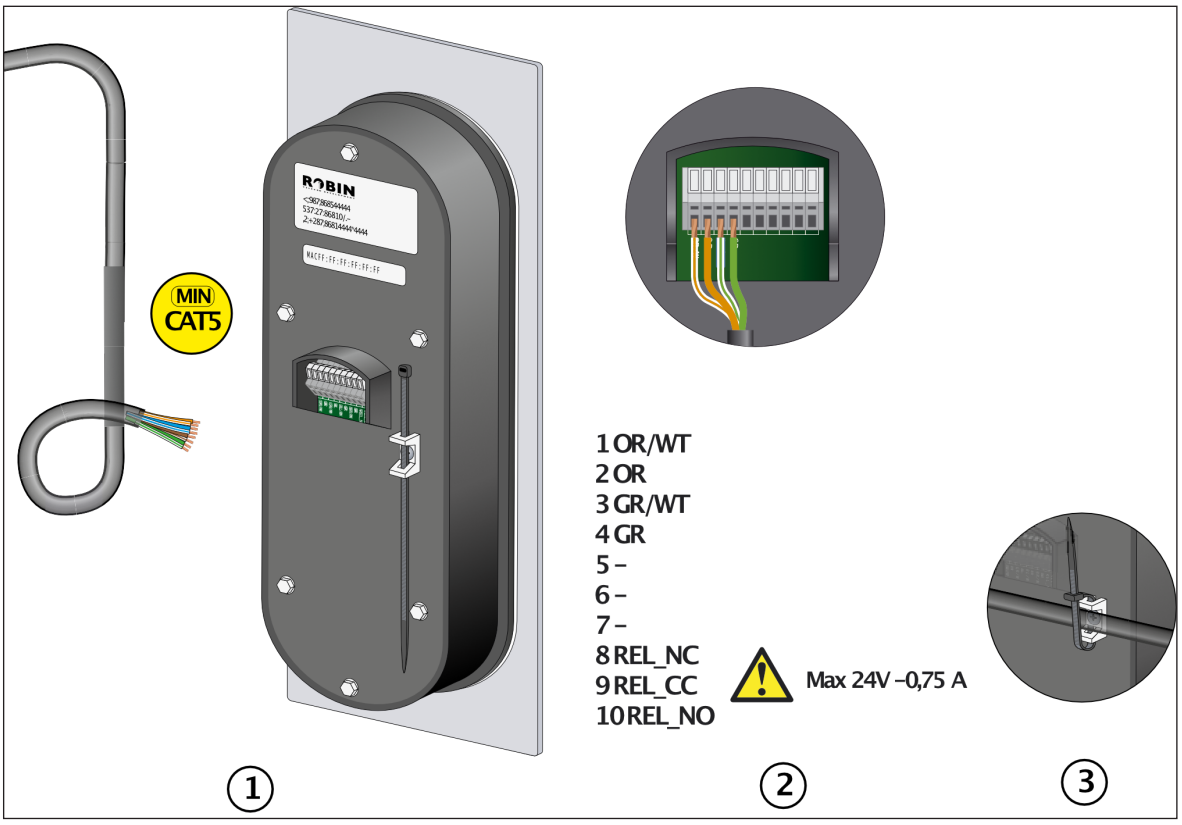
Adjust the positioning of the internal adjustment plate if the flush-mounted box is not completely level (1).
Screw the intercom to the flush-mounted box using the screws and Allen key (2) supplied.



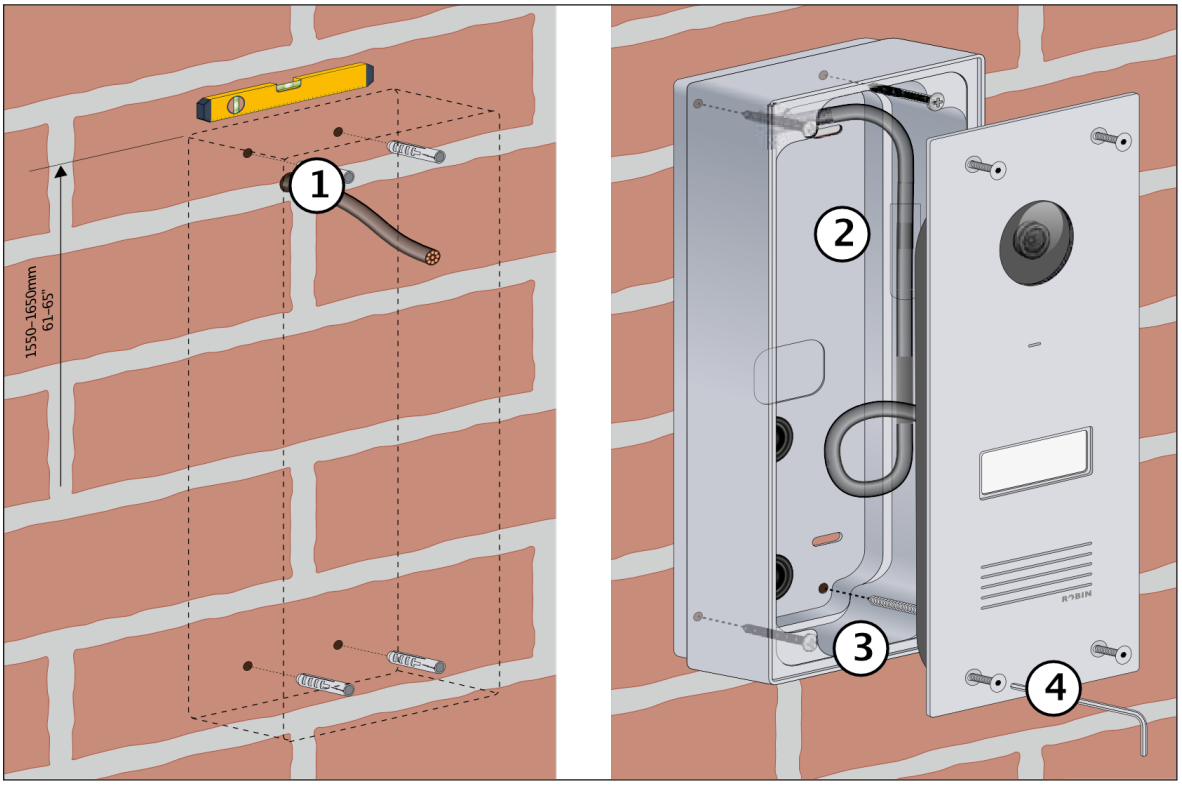
3.1.4 Mounting the Robin ProLine using the flush mount box

Keep the surface-mounting box in the right place on the wall and make sure it is level.
Mark the four mounting holes on the wall with a pencil. Also mark the point where to make the hole for the intercom cables.
Drill the holes.
Feed the Ethernet cable and the optional electronic door lock cable through the drilled hole (1).
Route the Ethernet cable along the side (2).
Screw the surface-mounting box to the wall (3).

Connect the cable (1).
The colours for the individual cores must match the colour coding on the PCB.
An additional cable (twowire) is required for the electronic door lock (2).
Attach the cable(s) to the housing as a tension relief using the supplied tie wrap (3).



Screw the intercom to the surface-mounted box using the screws and provided Allen key (4).



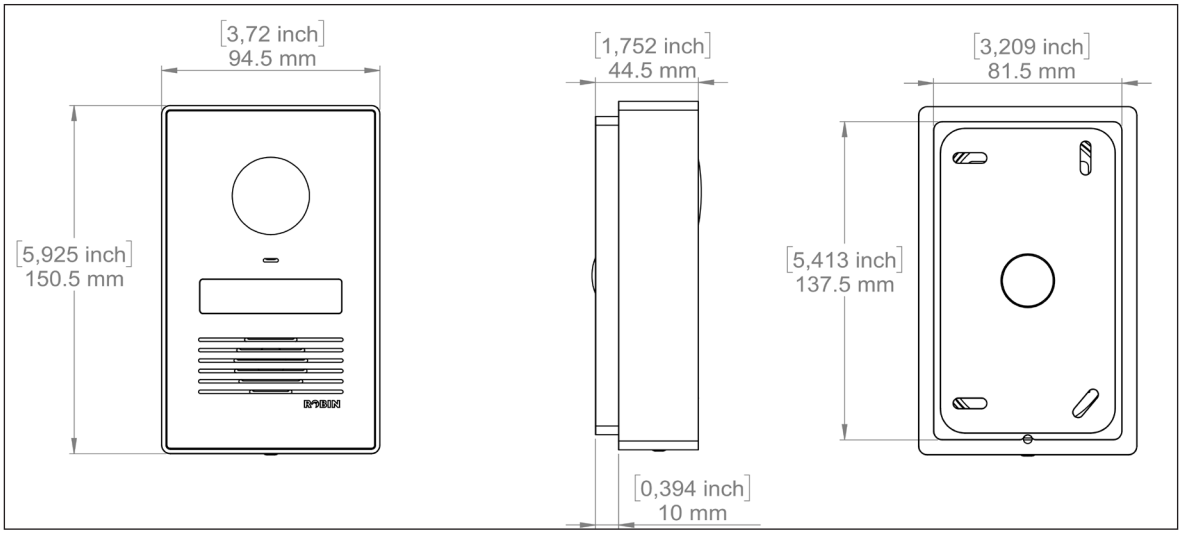
3.2 Robin ProLine Compact

3.2.1 Package contents

TBD.

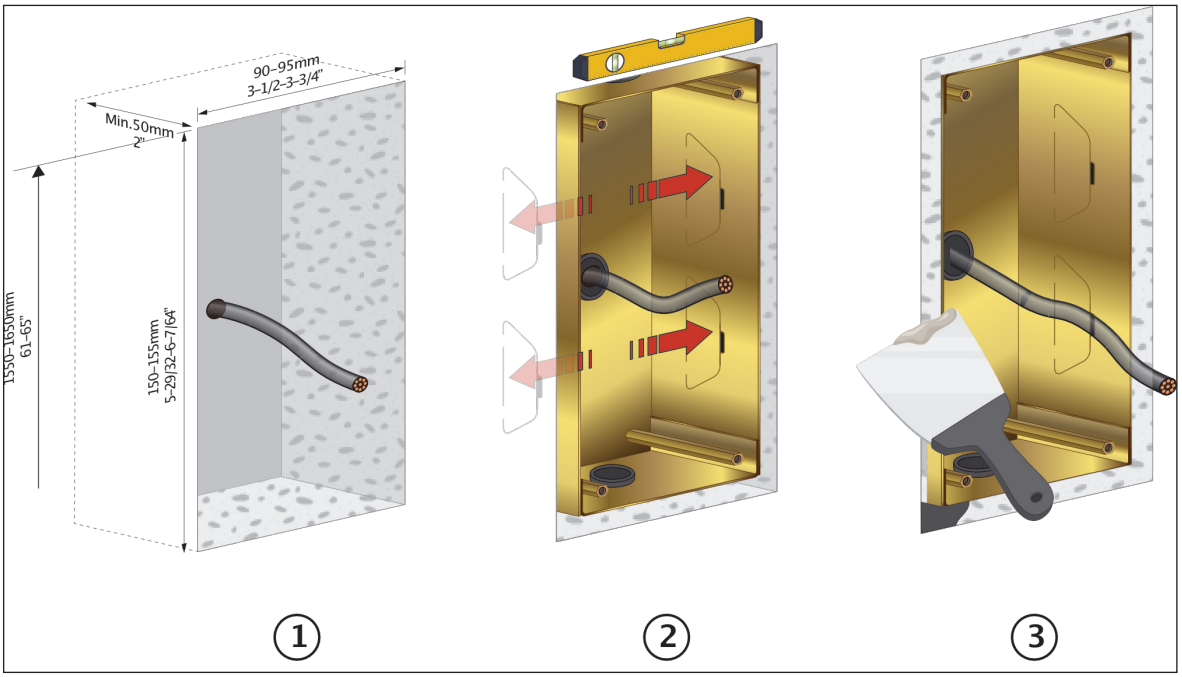
3.2.2 Installation dimensions Robin ProLine Compact

See the drawing for the dimensions of the Robin ProLine SIP Compact. It ships with either a surface mount box or a flush mount box.

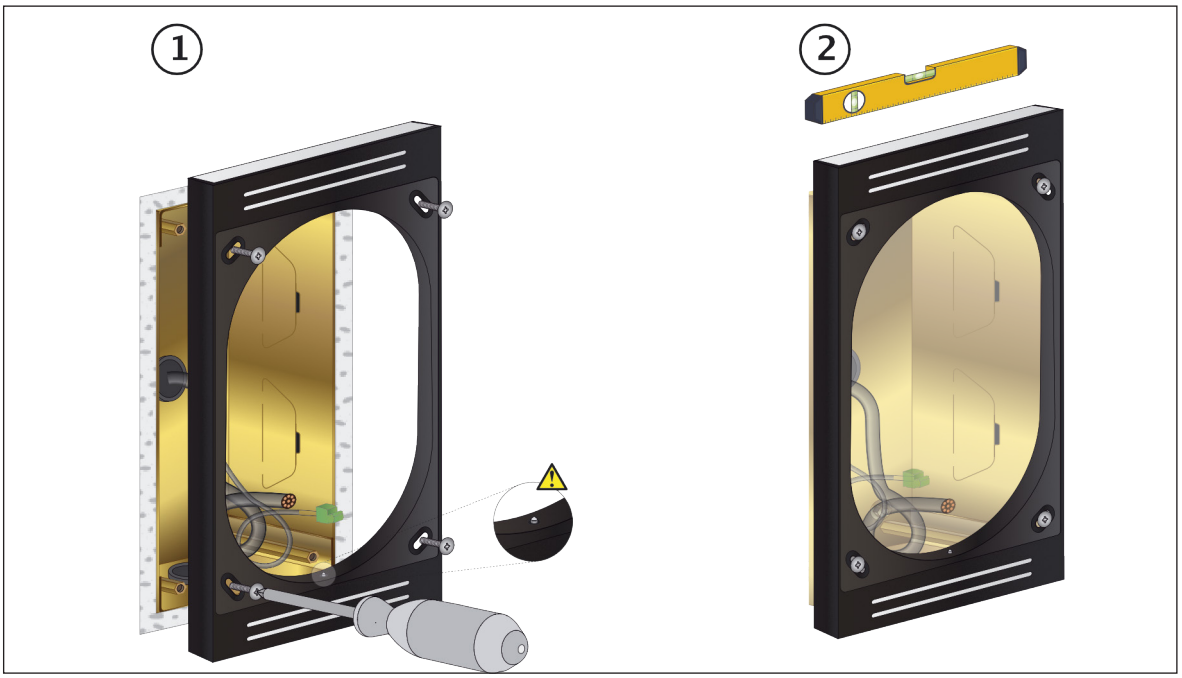


3.2.3 Mounting the Robin ProLine Compact with ambient light using the flush mount box

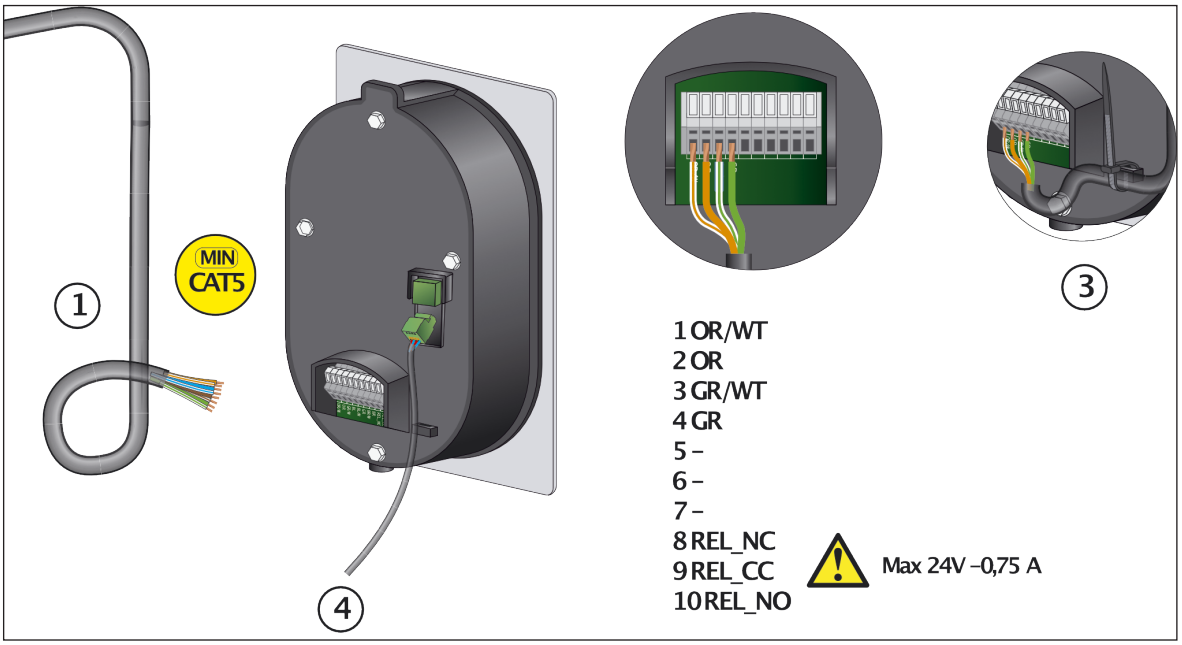
For mounting in a stone wall, make a recess in the wall with the indicated dimensions (1).
Drill a hole through the wall for the Ethernet cable and optional electronic door lock cable.
Pass the cables through one of the three holes in the flush-mounting box.
Make sure the flush-mounting box is level and flush with the wall.
Bend the four tabs outward so that it is fixed in position (2).
Fill the space between the flush-mounting box and the wall with wall filler and let it dry (3).



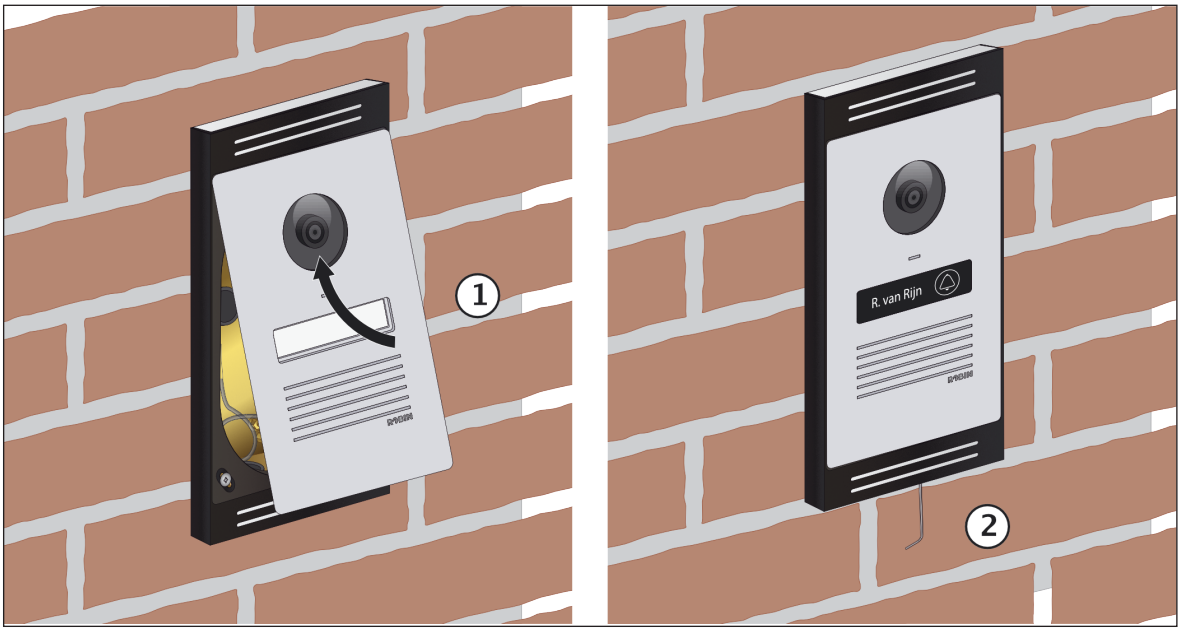
Screw the ambient light frame onto the flush-mounted box, make sure the screw hole is at the bottom. It still needs to be adjustable (1).
Level and tighten the ambient light frame (2).
Connect the cabling.



Connect the network cable (1). The colours for the individual cores must match the colour coding on the PCB.
An additional cable (two-wire) is required for the optional electronic door lock (2).
Attach the cable(s) to the housing as a tension relief using the supplied tie wrap (3).
Connect the ambient light connector (4).

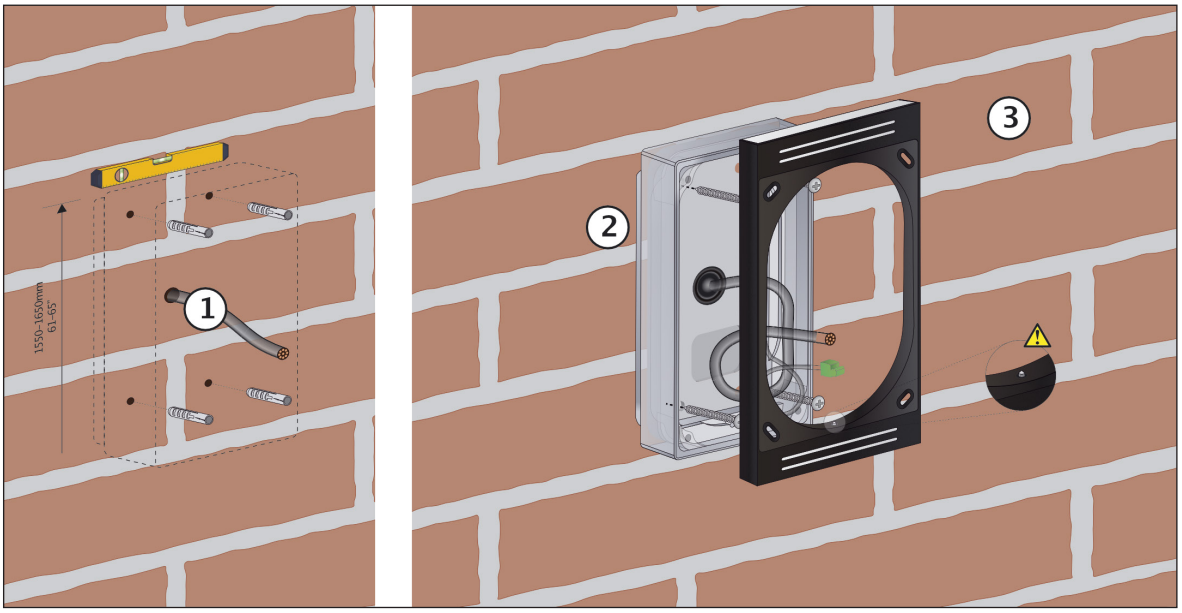


Place the unit at an angle on the ambient light frame and press (1). Screw the doorbell from the bottom using the supplied Allen key (2). Do not over tighten!.

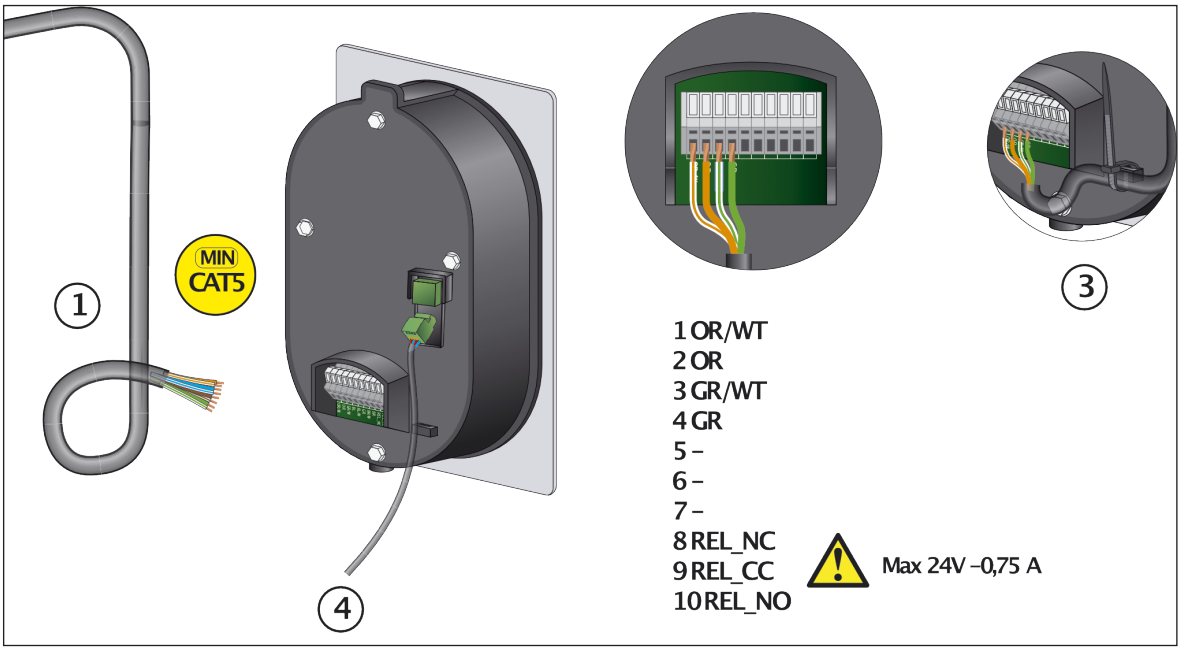


3.2.4 Mounting the Robin ProLine Compact with ambient light using the surface mount box

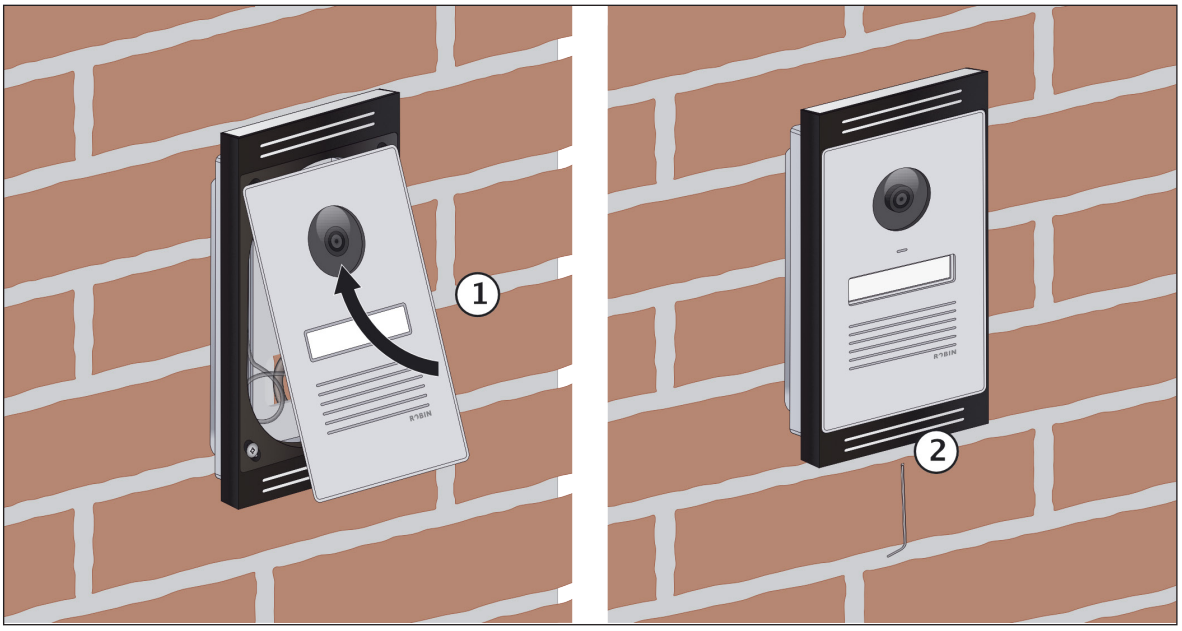
Keep the surface-mounting box in the right place on the wall and make sure it is level.
Mark the four mounting holes on the wall with a pencil. Also mark the point where to make the hole for the intercom cables.
Drill the holes.
Feed the Ethernet cable and optionally electronic door lock cable through the drilled hole (1).
Screw the surface-mounting box to the wall (2).
Mount the ambient light frame on the surface box with the screw hole at the bottom (3).
Connect the unit.



Connect the network cable (1). The colours for the individual cores must match the colour coding on the PCB.
An additional cable (two-wire) is required for the optional electronic door lock (2).
Attach the cable(s) to the housing as a tension relief using the supplied tie wrap (3).
Connect the ambient light connector (4)



Place the unit at an angle on the ambient light frame and press (1).
Screw the intercom from the bottom using the supplied Allen key (2). Do not over tighten!



4 System installation

4.1 Requirements prior to installation

Network connection with PoE (Power over Ethernet) is used to power the Robin; the power supply must be 802.3af / 802.3at compatible.
PC with web browser.
The following web browsers are supported:
- FireFox
- Safari
- Google Chrome

Network with or without DHCP support (DHCP support is recommended)
Network cable
Optional - Two-wire cable for optional electronic door lock operation

4.2 Connecting the Robin to a network

Connect the Robin to the network via the network connection socket on the rear. The Robin will boot automatically. This will take ±30 seconds.

! Note: The length of the Ethernet cable may not exceed 100 metres. This is a limit of the Ethernet standard. !

4.2 Connecting to the Robin from a webbrowser

By default, the Robin is configured to use a DHCP server to retrieve an IP address. After first boot when new or after a reset to factory defaults the Robin will announce its IP address when the call button is pressed.

Enter the IP address of the Robin in the address bar of the web browser in order to access the web interface.

The Robin can now be configured via the web interface (see Chapter 5, Configuration).

5 Configuration

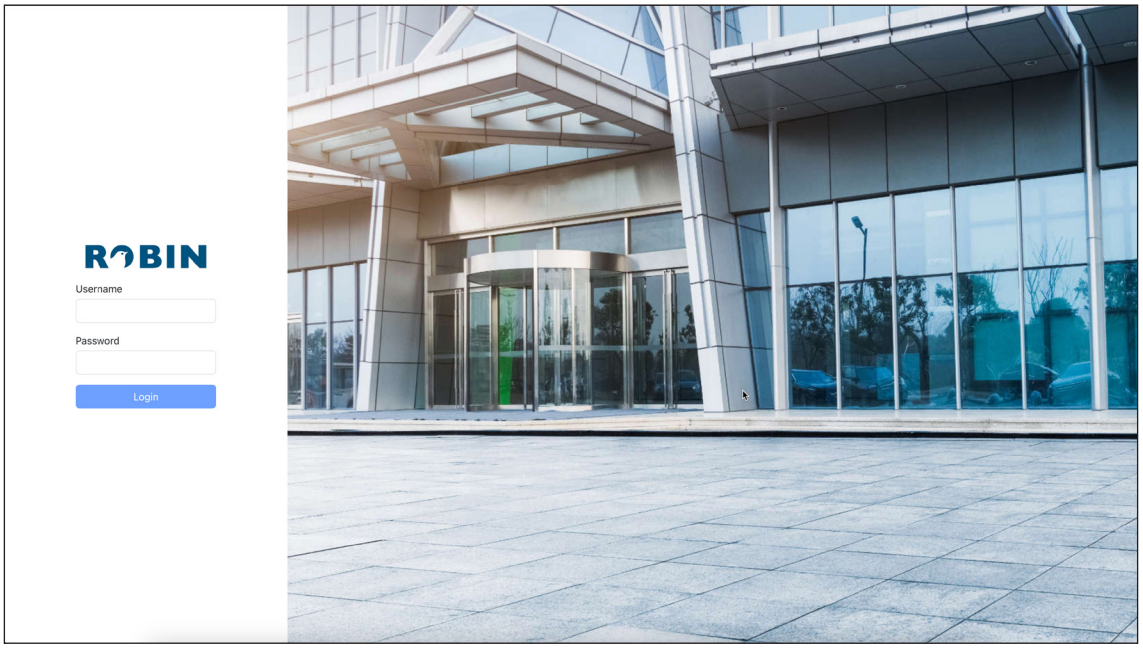
5.1 Logging in to the Robin

Log in to the Robin using the following default credentials:

Administrator - Login: admin, Password: 123qwe

! Note: Change the password immediately after installation (menu -System-Security-). The use of strong passwords is highly recommended !

The Robin will warn you when the default password for the Administrator hasn't been changed yet and will keep warning you until the default password is changed.



5.2 Configuration of the Robin

The Robin web interface consists of 5 menus; Telephony, Audio, Video, Network and System.

Telephony

In the Telephony menu, configure all of the settings that are required for the communication part of the Robin.

Audio

In the Audio menu, various modifications to the sound and sound processing features of the Robin can me made, such as loudspeaker volume and microphone sensitivity.

Video

In the Video menu, change the video settings, view live video and configure motion detection.

Network

In the Network menu, view and change the network configuration settings and configure RTSP.

System

In the System menu, view and change generic settings.

! Note: In the Robin software you'll note a blue APPLY SETTINGS button. Use this button to confirm and activate all the changed settings. !

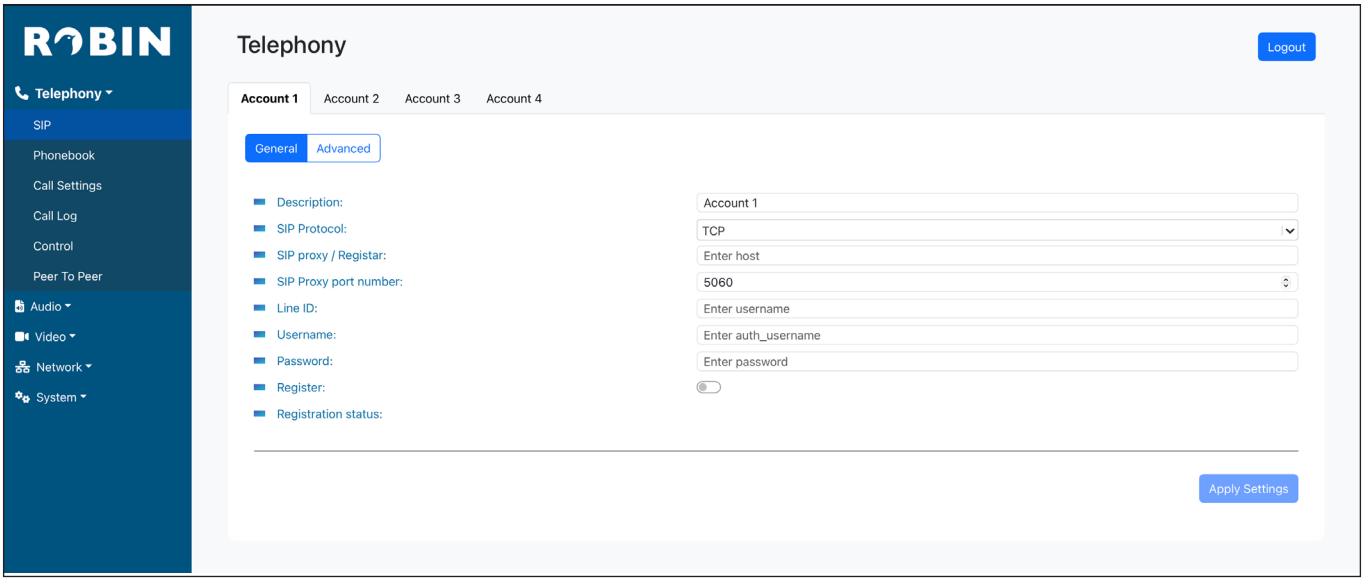
5.2.1 Telephony

5.2.1.1 Telephony / SIP

Configure up to four SIP accounts. These accounts can be registered simultaneously and selected per address book entry.

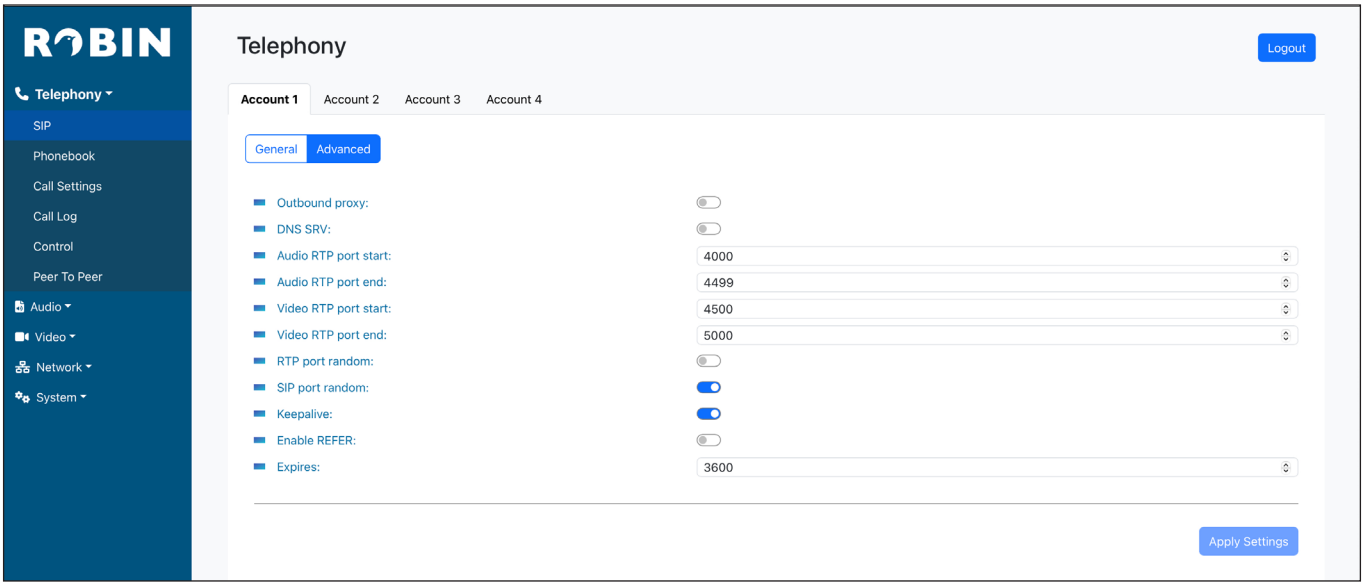
General

• Description	Descriptive name of this SIP account
• SIP protocol	Select the SIP protocol (UDP / TCP / TLS)
• SIP proxy / registar	Enter the IP address or hostname for the IP-PBX or VoIP provider
• SIP proxy port number	Enter the IP port number for the IP-PBX or VoIP provider
• Line ID	Enter the Line-ID. If not available, use the same name as the 'Authentication Username'
• Username	Enter the authentication username for registration to the IP-PBX or VoIP provider
• Password	Enter the password for registration to the IP-PBX or VoIP provider
• Register	Activates or deactivates registration to for registration to the IP-PBX or VoIP provider
• Status	Shows registration status


ROBIN
Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Audio
Video
Network
System
Telephony
Logout
Account 1
Account 2
Account 3
Account 4
General
Advanced
Description:
Account 1
SIP Protocol:
TCP
SIP proxy / Registar:
Enter host
SIP Proxy port number:
5060
Line ID:
Enter username
Username:
Enter auth_username
Password:
Enter password
Register:
Registration status:
Apply Settings

Advanced

• Outbound proxy	Select this option when a SIP proxy server is used
• Outbound proxy host	Enter the IP address or hostname of the proxy server
• Outbound proxy port	Enter the IP port of the proxy server
• DNSsrv	Select this option when DNSsrv is used
• Audio RTP port start	Enter the lowest IP port that can be used for the RTP audio stream
• Audio RTP port end	Enter the highest IP port that can be used for the RTP audio stream
• Video RTP port start	Enter the lowest IP port that can be used for the RTP video stream
• Video RTP port end	Enter the highest IP port that can be used for the RTP video stream
• RTP port random	Randomize the used RTP ports (default: off)
• SIP port random	Randomize the used SIP port (default: on)
• Keep alive	Enable keep alive packages (default: on)
• Enable REFER	Accept 'REFER' packages (default: off)
• Expires	Set the re-registration timer for SIP (default: 3600)

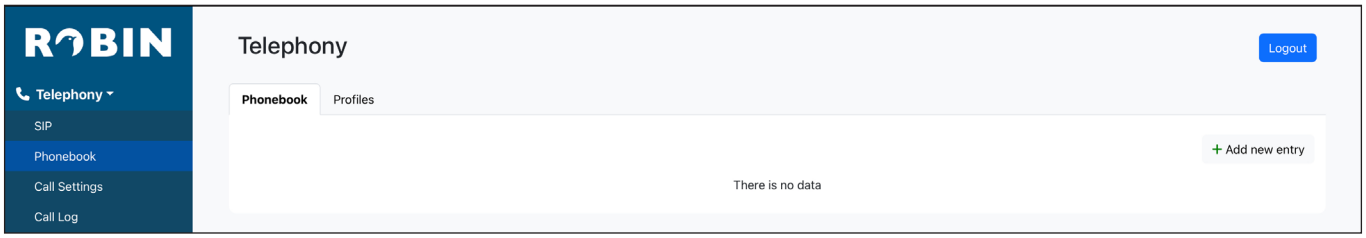


5.2.1.2 Telephony / Phonebook

Configure the call destinations for the Robin.
The Phonebook can hold multiple phonebook entries, each holding a telephone number / extension.

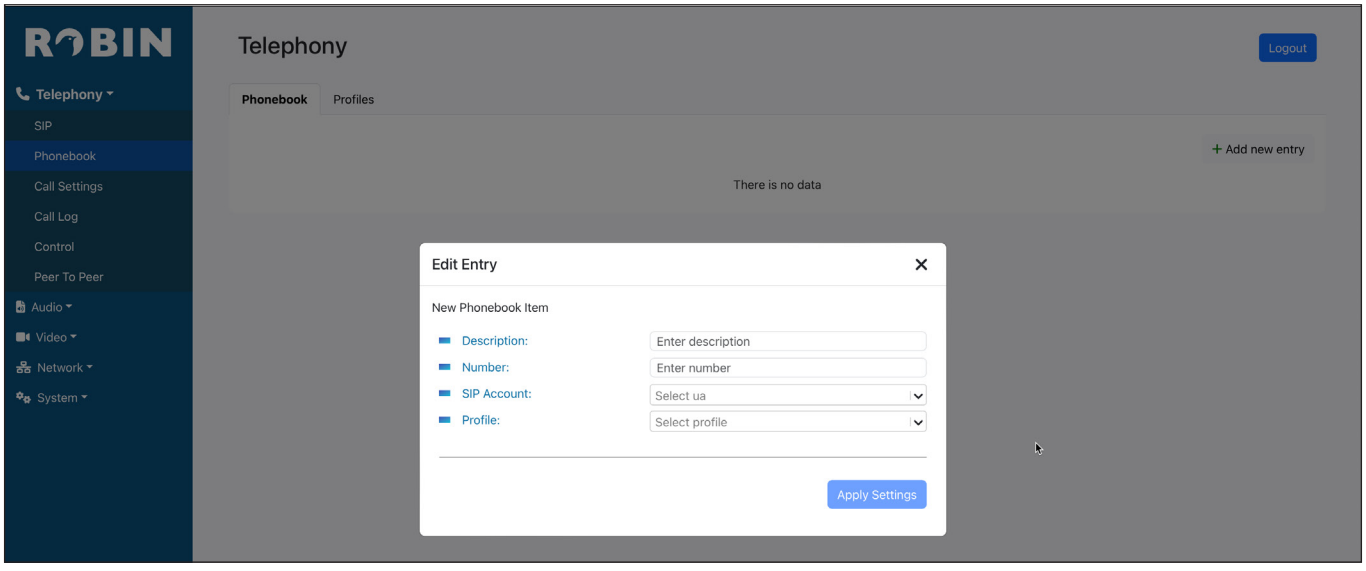
Use the green and red action buttons to setup a test call to test the phonebook entry.

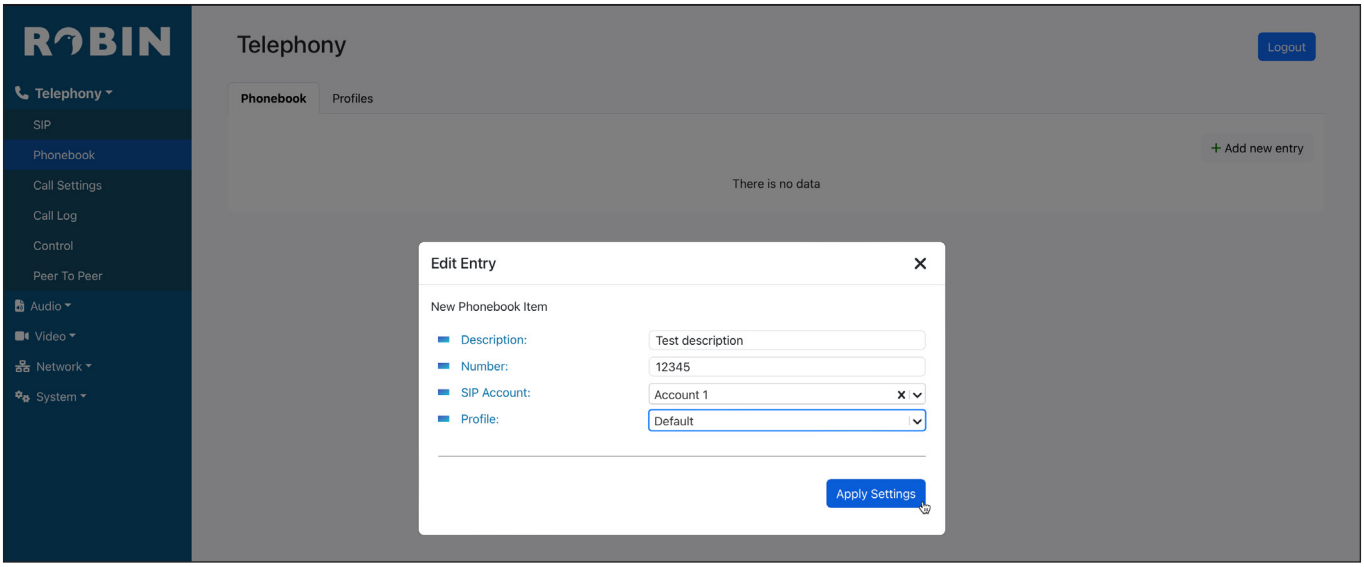
Phonebook

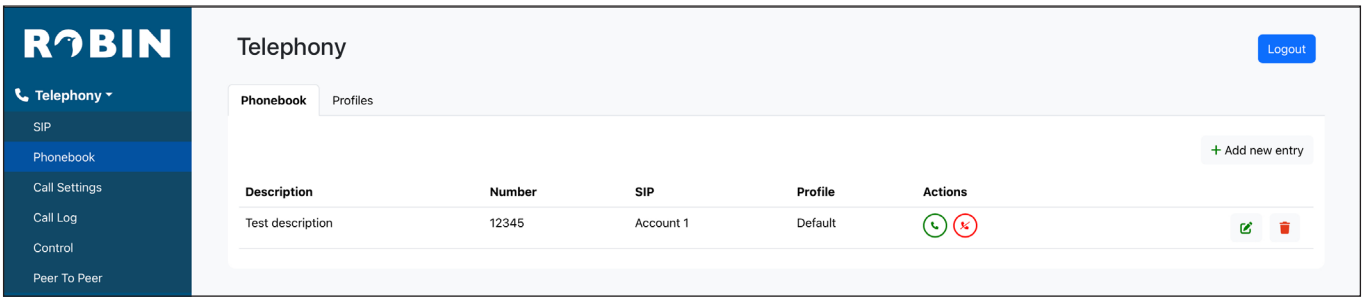


To add a new phonebook entry, click the 'Add new entry button'.

• Description	A descriptive name for this phonebook entry
• Number	The destination to dial
• SIP Account	Select the SIP account to use for this phonebook entry
• Profile	Select a call profile to use for this phonebook entry




ROBIN
Telephony
Logout
Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Audio
Video
Network
System
Phonebook
Profiles
+ Add new entry
There is no data
Edit Entry
New Phonebook Item
Description:
Test description
Number:
12345
SIP Account:
Account 1
Profile:
Default
Apply Settings


ROBIN
Telephony
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Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Phonebook
Profiles
+ Add new entry
Description
Number
SIP
Profile
Actions
Test description
12345
Account 1
Default

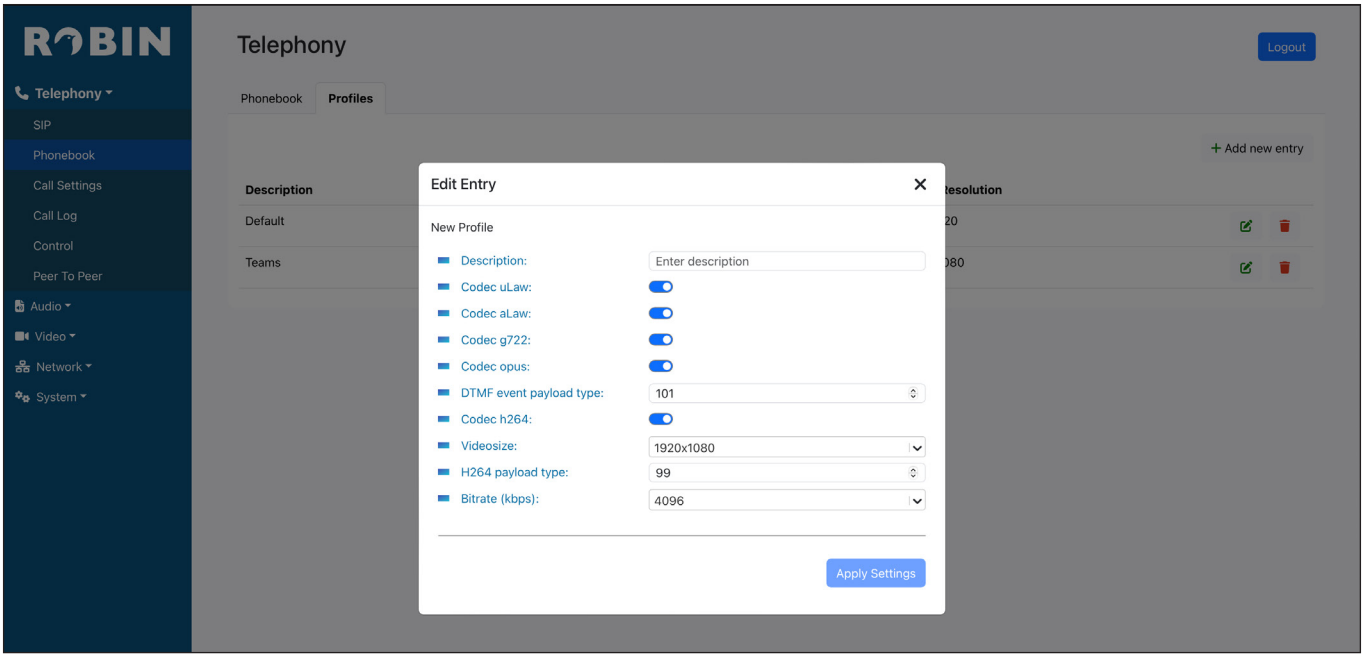
Profiles

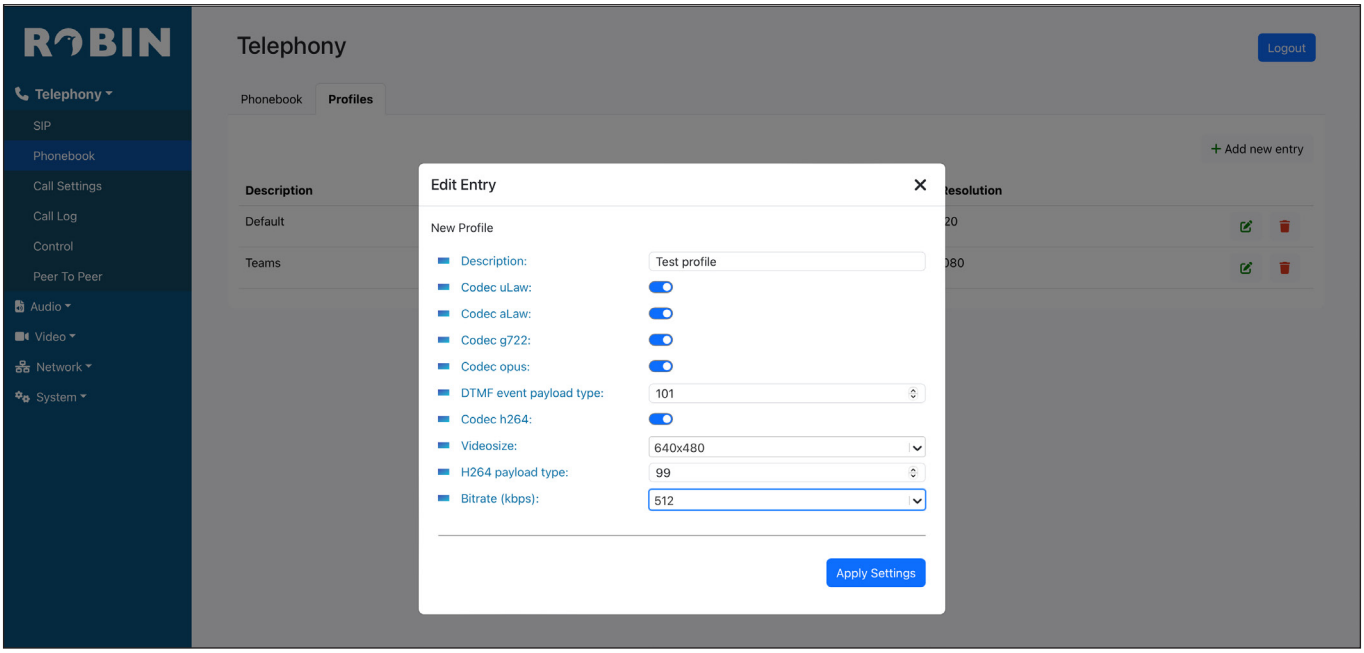
Configure custom call profiles.
A call profile contains call related settings, such as Codecs used and video parameters. Each phonebook entry can be configured with a specific call profile.

By default, two profiles are already configured, 'Default' and 'Teams'. Default is the default profile and Teams is a profile optimized for use with the CyberGate service (connection to Microsoft Teams). Both profiles can be modified.

To add a new profile entry, click the 'Add new entry button'.

• Description	A descriptive name for this profile entry
• Codec ulaw	Support for the G.711 ulaw audio codec
• Codec alaw	Support for the G.711 alaw audio codec
• Codec g722	Support for the G.722 codec (HD audio)
• Codec opus	Support for the OPUS codec (HD audio)
• DTMF event payload type	Change the payload type for DTMF signal transmission (default: 101)
• Codec h264	Support for the H.264 video codec
• Videosize	Select the video resolution
• H264 payload type	Change the 'payload type' for H.264 video codec (default: 99)
• Bitrate (kbps)	Select the maximum video bit rate. A high bit rate = higher video quality but more bandwidth usage


ROBIN
Telephony
Logout
Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Audio
Video
Network
System
Phonebook
Profiles
+ Add new entry
Description
Default
Teams
Edit Entry
New Profile
Description:
Enter description
Codec uLaw:
Codec aLaw:
Codec g722:
Codec opus:
DTMF event payload type:
101
Codec h264:
Videosize:
1920x1080
H264 payload type:
99
Bitrate (kbps):
4096
Apply Settings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Phonebook
Profiles
+ Add new entry
Description
Default
Teams
Edit Entry
New Profile
Description:
Test profile
Codec uLaw:
Codec aLaw:
Codec g722:
Codec opus:
DTMF event payload type:
101
Codec h264:
Videosize:
640x480
H264 payload type:
99
Bitrate (kbps):
512
Apply Settings


ROBIN
Telephony
Logout
Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Audio
Video
Network
Phonebook
Profiles
+ Add new entry
Description
Codec
Video Resolution
Default
uLaw, aLaw, opus, g722, h264
1280x720
Teams
uLaw, aLaw, opus, g722, h264
1920x1080
Test profile
uLaw, aLaw, opus, g722, h264
640x480

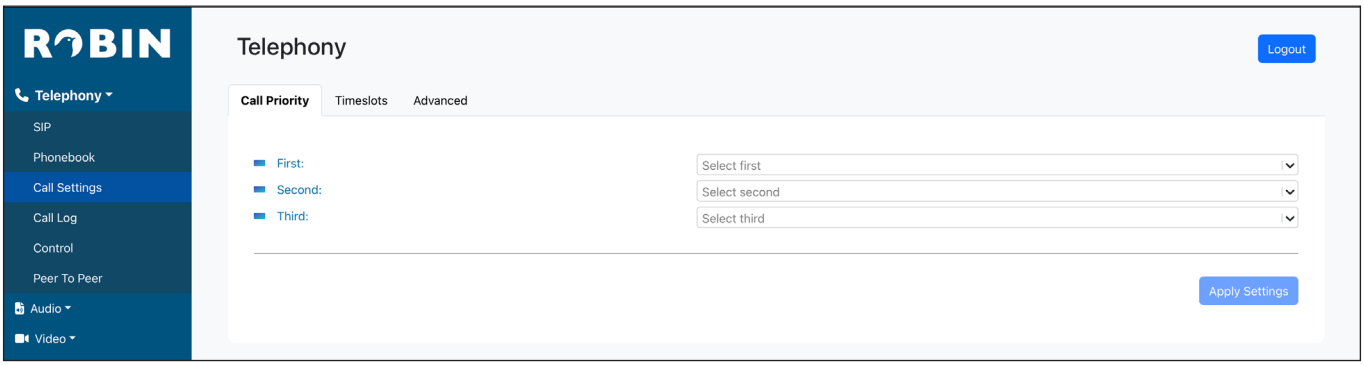
5.2.1.3 Telephony / Call settings

Call priority

Configure the numbers to dial. If the first number is engaged or not answering* it will continue with the second number. If the second number is engaged or not answering it will continue wit the third number.

**** Change the no answer duration in -Telephony-Call settings-Advanced- using the 'No answer timeout' option.***

• First	Select the first number to dial
• Second	Select the second number to dial
• Third	Select the third number to dial

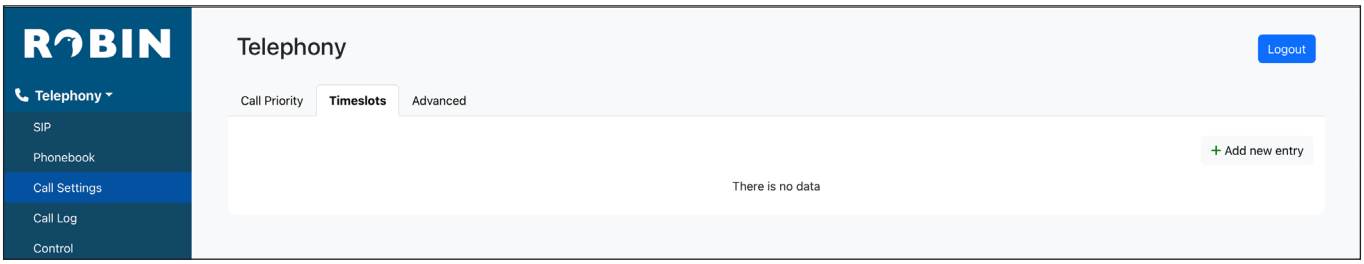


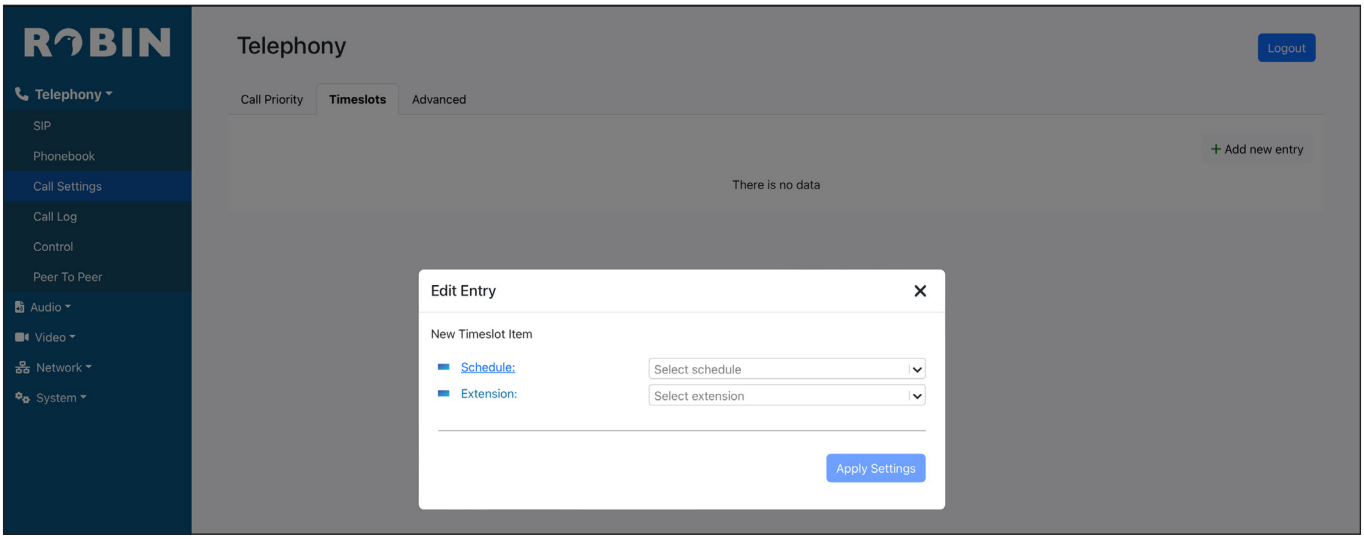
Timeslots

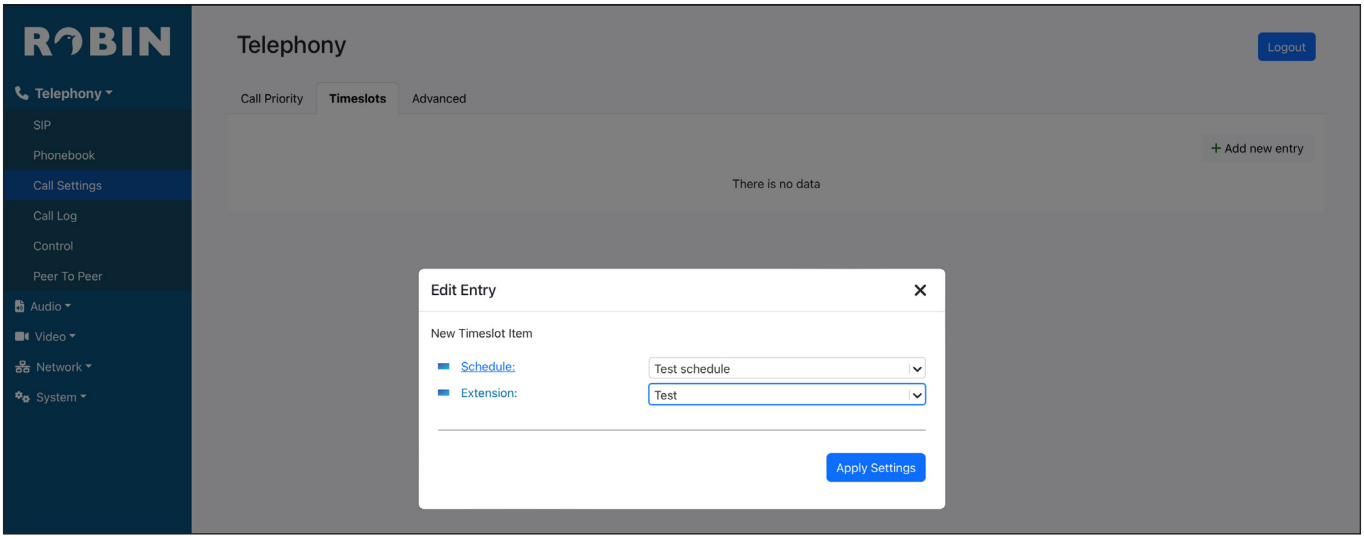
Define which number to dial during timeslots. Timeslots overrule the Call priority setting.
To add a new Timeslot, click the 'Add new entry button'.

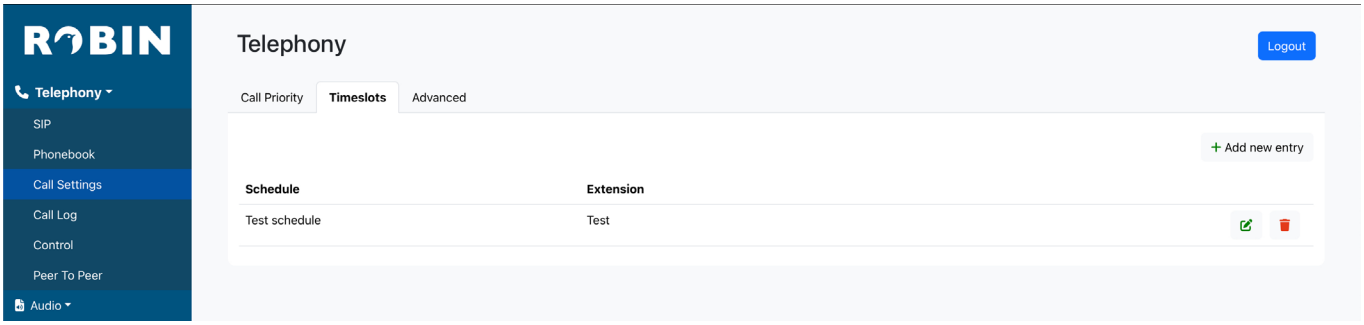
• Schedule	Select a defined schedule*
• Extension	Select a number to dial

**** Call schedules can be defined in the menu -System-Schedules-.***





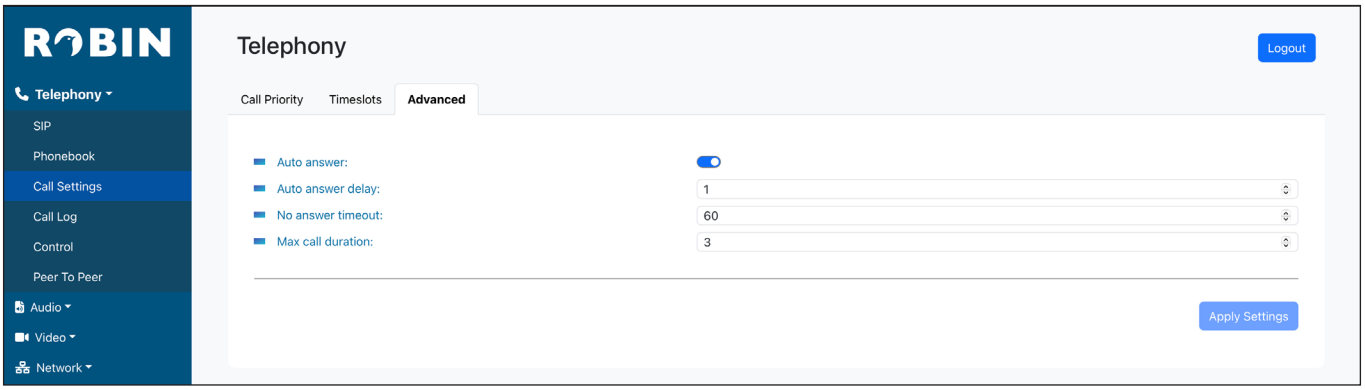

ROBIN
Telephony
Logout
Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Audio
Video
Network
System
Call Priority
Timeslots
Advanced
+ Add new entry
There is no data
Edit Entry
New Timeslot Item
Schedule:
Test schedule
Extension:
Test
Apply Settings


ROBIN
Telephony
Logout
Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Audio
Call Priority
Timeslots
Advanced
+ Add new entry
Schedule
Extension
Test schedule
Test

Advanced

Define call related settings.

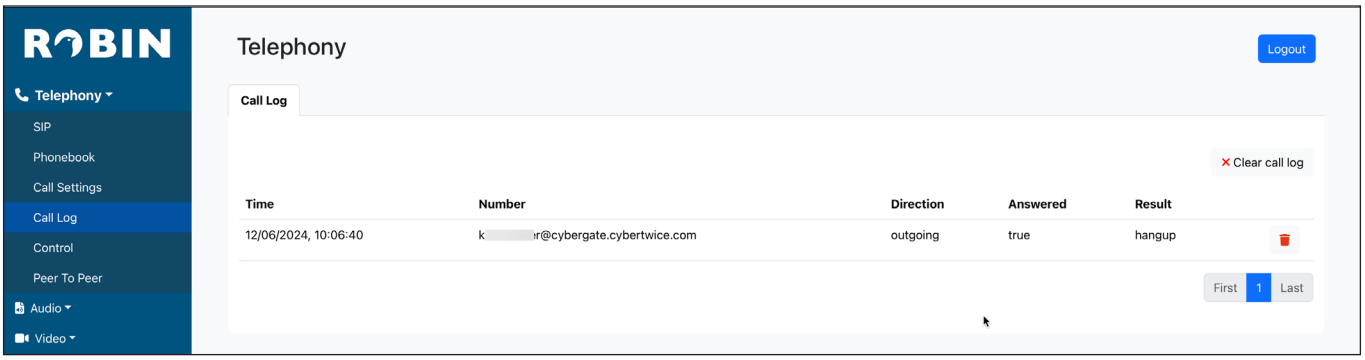
• Auto answer	Enables auto answering of incoming calls (default: on)
• Auto answer delay	Answer incoming calls after X seconds (default: 1)
• No answer timeout	End call attempt after X seconds (default: 60)
• Max call duration	Maximum duration of a call in minutes (default: 3)



5.2.1.4 Telephony / Call Log

Call Log

Displays all outgoing and incoming calls.

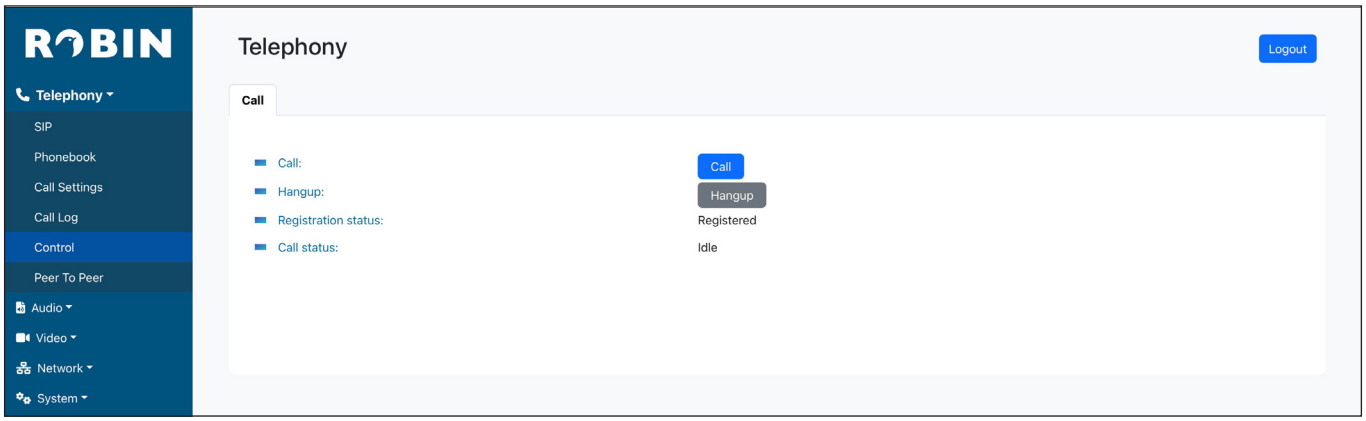


5.2.1.5 Telephony / Control

Call

The Control menu allows you to manually initiate and end a call from the Robin.

• Call	Initiate the calll
• Hangup	End the call
• Registration status	Shows the SIP registration status
• Call status	Shows the Call status (idle, ringing, connected)



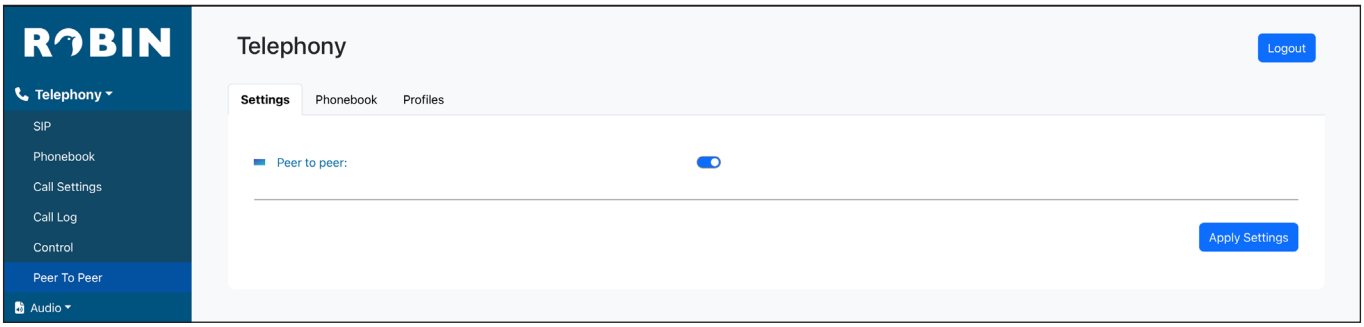
5.2.1.5 Telephony / Peer To Peer

The Peer To Peer feature enables the communication between the Robin and a SIP phone without the use of a SIP IP-PBX or VoIP Provider.

Use Peer to Peer by enabling the feature, create a Peer to Peer specific Phonebook entry (with call profile) and register the SIP phone to the Robin.

Settings

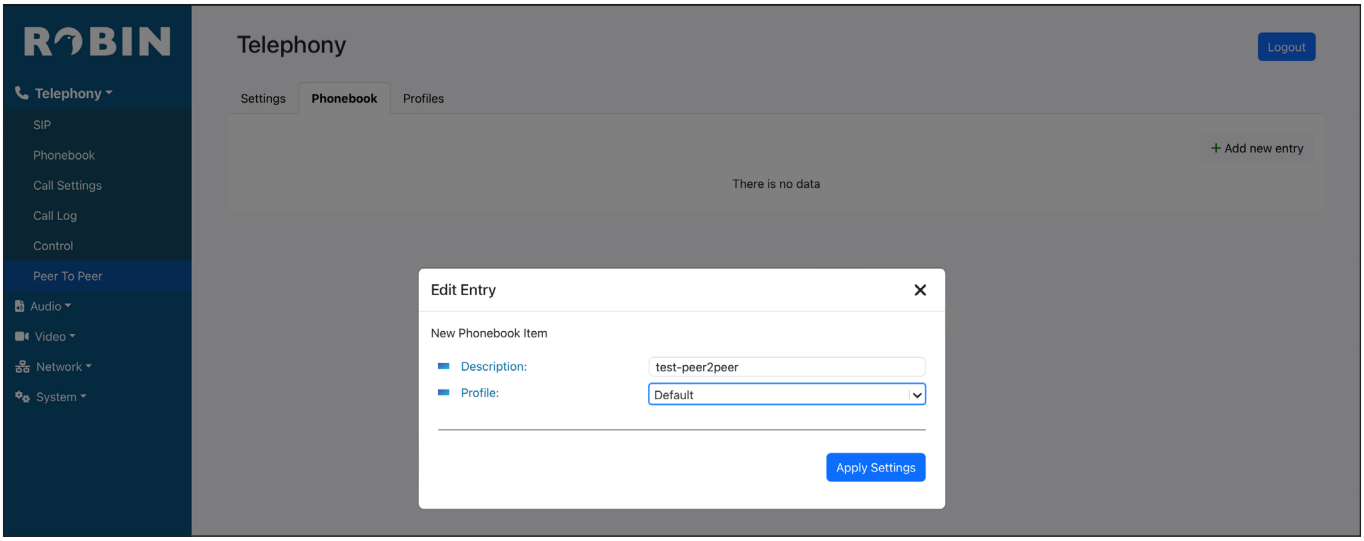
• Peer to peer	Enable Peer To Peer functionality (default: off)

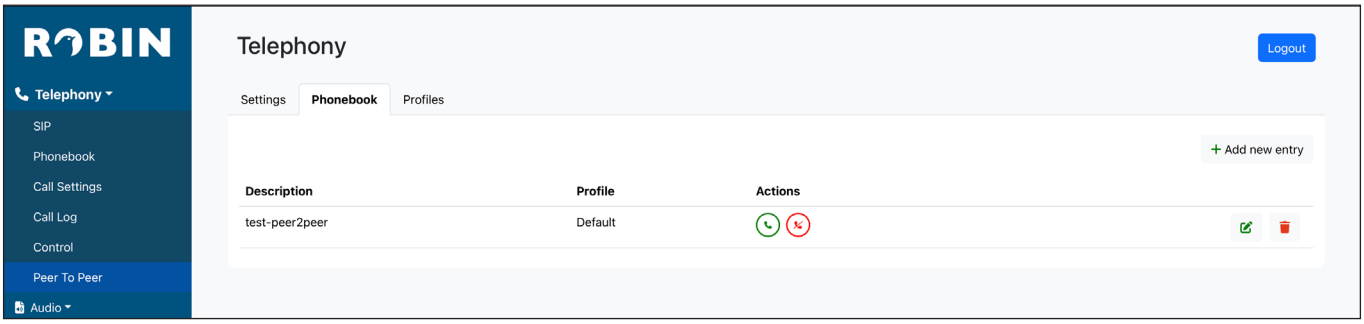


Phonebook

To add a new phonebook entry, click the 'Add new entry button'.

• Description	A descriptive name for this phonebook entry, this also is the authentication username to use in the Peer To Peer SIP phone
• Profile	Select a call profile to use for this phonebook entry


ROBIN
Telephony
Logout
Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Audio
Video
Network
System
Settings
Phonebook
Profiles
+ Add new entry
There is no data
Edit Entry
New Phonebook Item
Description:
test-peer2peer
Profile:
Default
Apply Settings

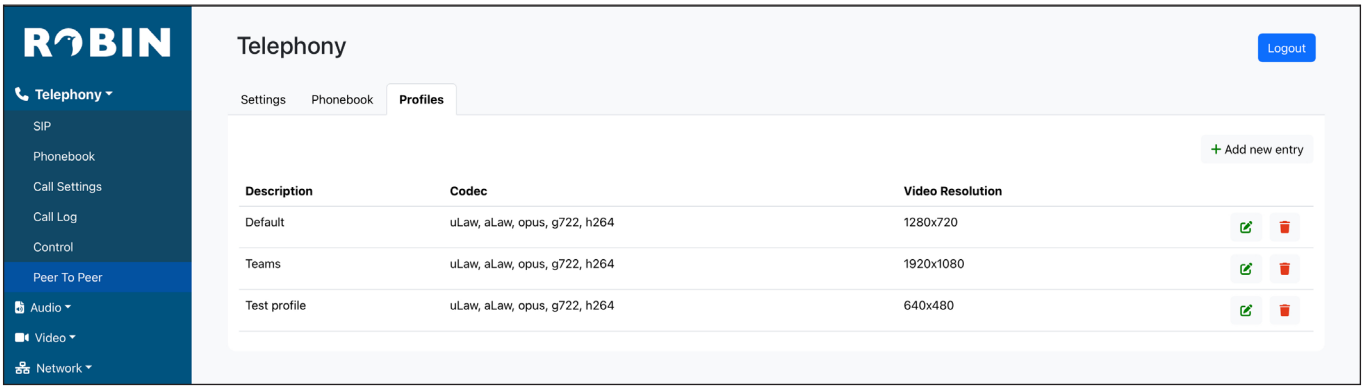

ROBIN
Telephony
Logout
Telephony
SIP
Phonebook
Call Settings
Call Log
Control
Peer To Peer
Audio
Settings
Phonebook
Profiles
+ Add new entry
Description
Profile
Actions
test-peer2peer
Default

Profiles

The Profiles menu is identical to the Profiles menu in the SIP-Phonebook menu.

To add a new profile entry, click the ‘Add new entry button’.

• Description	A descriptive name for this profile entry
• Codec ulaw	Support for the G.711 ulaw audio codec
• Codec alaw	Support for the G.711 alaw audio codec
• Codec g722	Support for the G.722 codec (HD audio)
• Codec opus	Support for the OPUS codec (HD audio)
• DTMF event payload type	Change the payload type for DTMF signal transmission (default: 101)
• Codec h264	Support for the H.264 video codec
• Videosize	Select the video resolution
• H264 payload type	Change the 'payload type' for H.264 video codec (default: 99)
• Bitrate (kbps)	Select the maximum video bit rate. A high bit rate = higher video quality but more bandwidth usage



5.2.1.5.1 Peer To Peer - Settings in the SIP phone for Peer To Peer

After configuring Peer To Peer settings in the Robin, the SIP phone connected to the Robin also has to be configured to contact the Robin.

Configure the SIP phone with the following data:

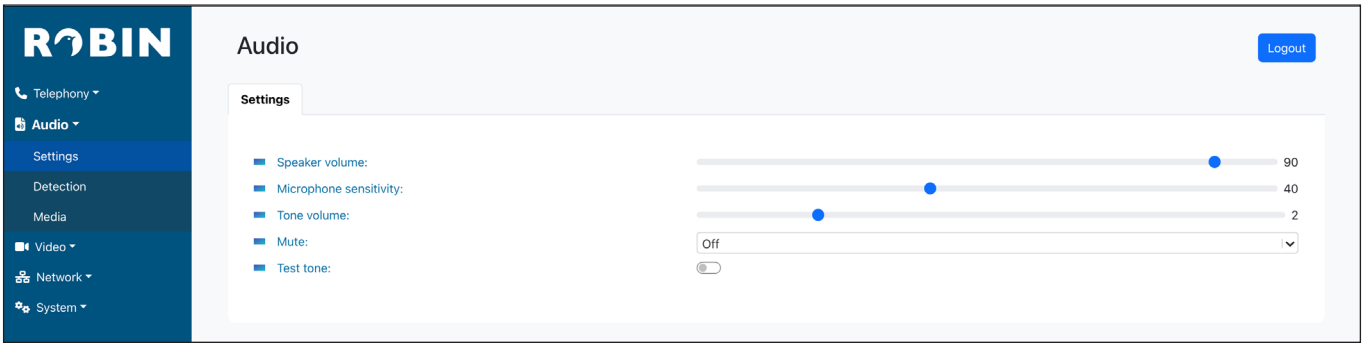
SIP phone SIP settings	
Authentication user name	Use the Description as configured in the Robin Phonebook
Register Name	Use the Description as configured in the Robin Phonebook
SIP User ID	Use the Description as configured in the Robin Phonebook
Password	Use a random password (this will be ignored by the Robin)
SIP Registrar server / SIP server	Use the IP address of the Robin

5.2.2 Audio

5.2.2.1 Audio / Settings

Modify the audio related settings.

• Speaker volume	Set the speaker volume
• Microphone sensitivity	Set the microphone sensitivity
• Tone volume	Set the tone volume
• Mute	Select the audio source to mute (tones incoming, tones all, all audio)
• Test tone	Play an audio test tone through the speaker



5.2.2.2 Audio / Detection

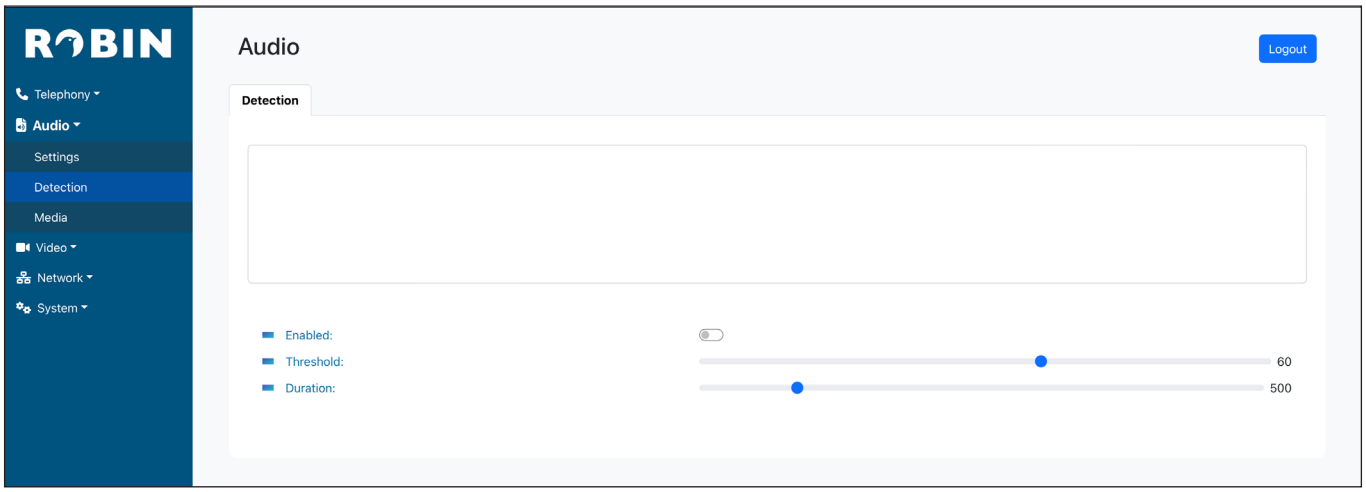
The Robin is capable of detecting sound through the microphone.

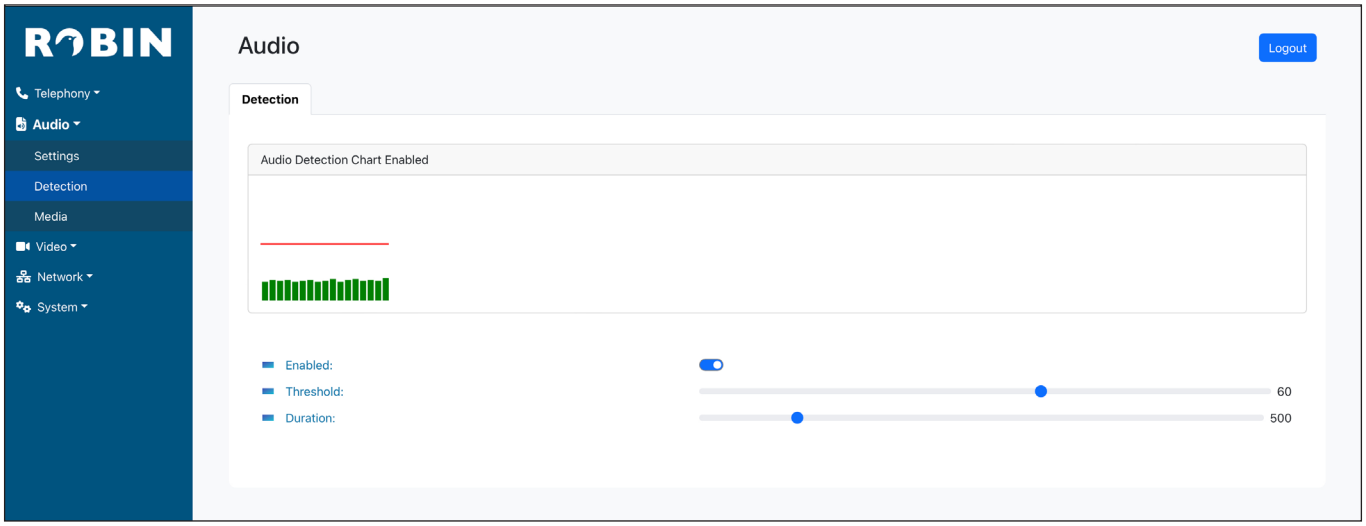
This detection mechanism can trigger Actions, such as activation of a relay switch or automatic calling to a phone. These actions can be defined in the menu -System-Events-.

Depending on the location of the Robin and the type of sound that should trigger the detection, two parameters can be set: the volume and the duration.
Short audio spikes can be filtered by increasing the duration setting. Background noise can be filtered by increasing the threshold.

When audio detection is enabled, the graph will show the detection status:

The colour of the bars is green (= no detection) or red (= detection)
The red line indicates the boundary of the detection area.



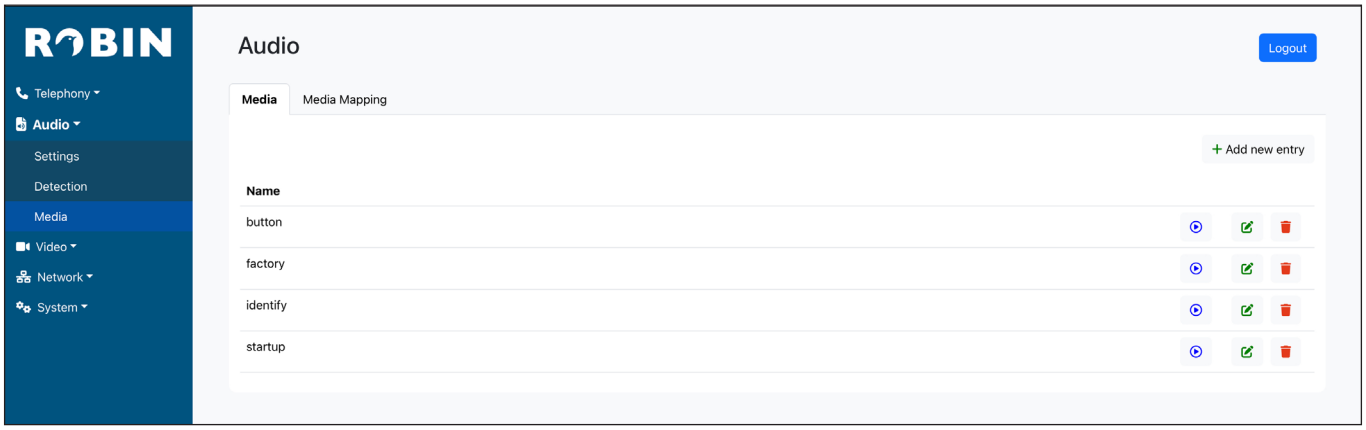


5.2.2.3 Audio / Media

Media

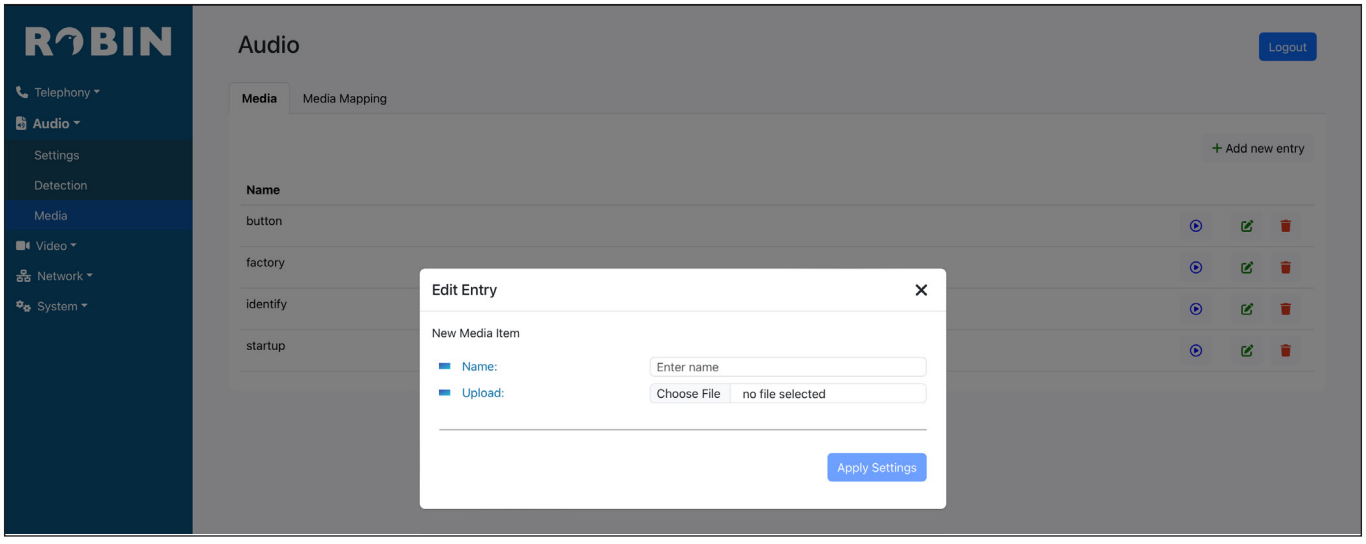
Import audio files into the intercom and play them through the speaker. The audio files can be used as tones for various functions:

Events
Phone related functions (button, ring back, ring, disconnect, busy)



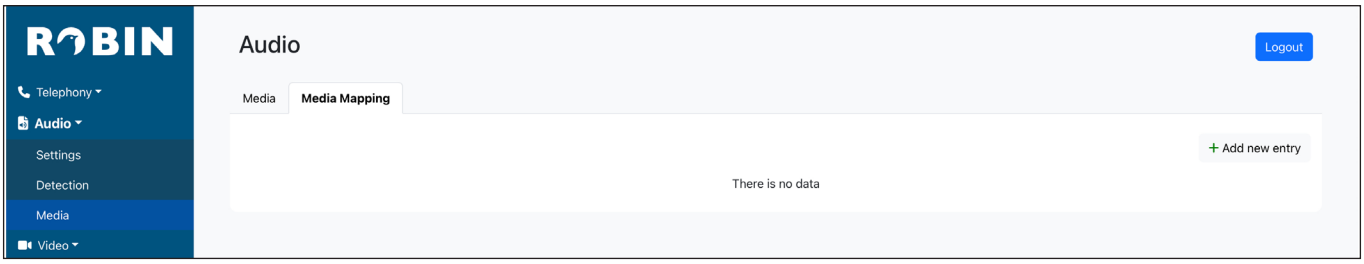
To add a new media, click the 'Add new entry button'.

• Name	A descriptive name for this media file
• Upload	Select media to upload (wav or mp3, Max. size 1MB)



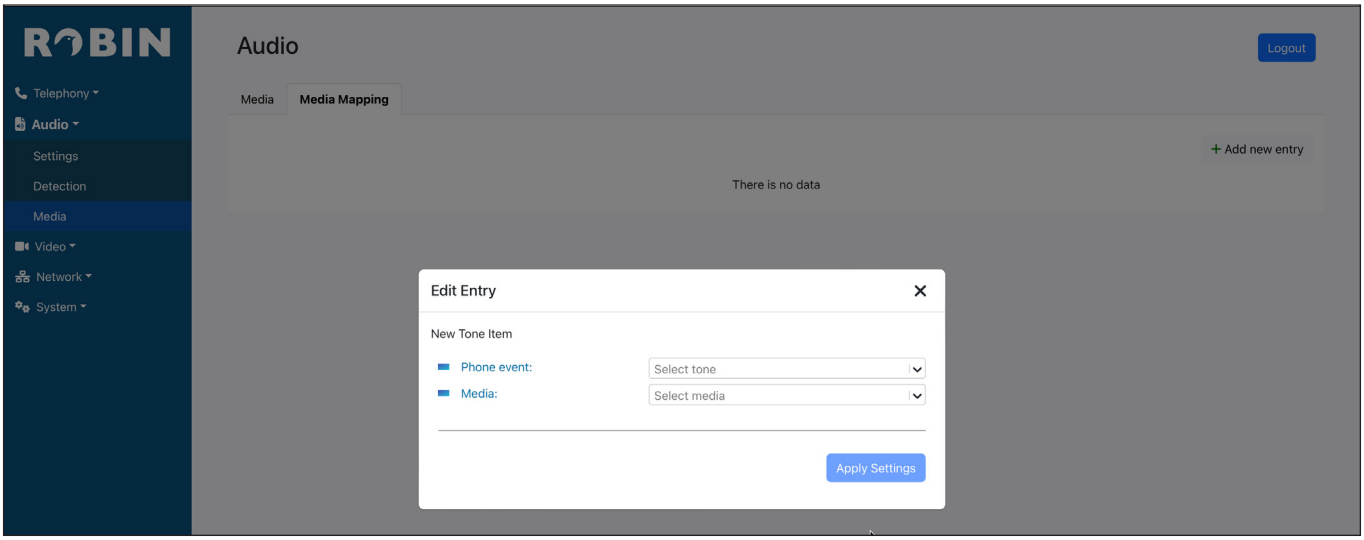
Media Mapping

Map a media file to a function of the Robin.



To map media, click the 'Add new entry button'.

• Phone event	Select the phone related function: **Button** - Sounds when the button is pushed **Ring** - Sounds when a someone is calling to the Robin **Ring back** - Sounds when the Robin is calling a number **Disconnect** - Sounds when the call is ended **Busy** - Sounds when the called number is busy
• Media	Select media



5.2.3 Video

5.2.3.1 Video / Live

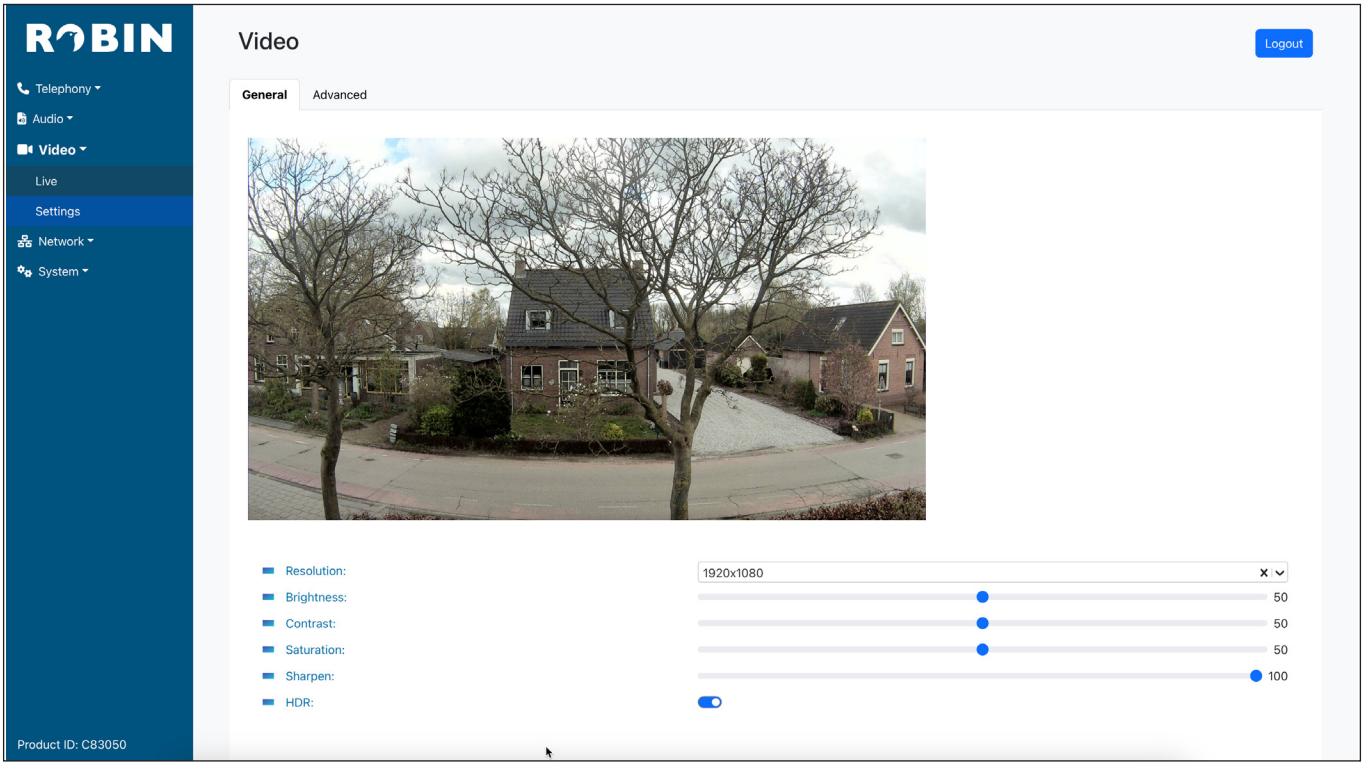
Shows real time video captured by the camera. Click on the image to toggle between full screen video or framed video.

5.2.3.1 Video / Settings

General

Modify video related settings.

• Resolution	Select the resolution used for RTSP
• Brightness	Modify the brightness
• Contrast	Modify the contrast
• Saturation	Modify the colour saturation
• Sharpen	Modify the sharpness setting
• HDR	Enable / disable HDR (High Dynamic Range). HDR improves the image when high contrasts occur (default: on)



Advanced

Modify settings related to H.264 and MJPEG.

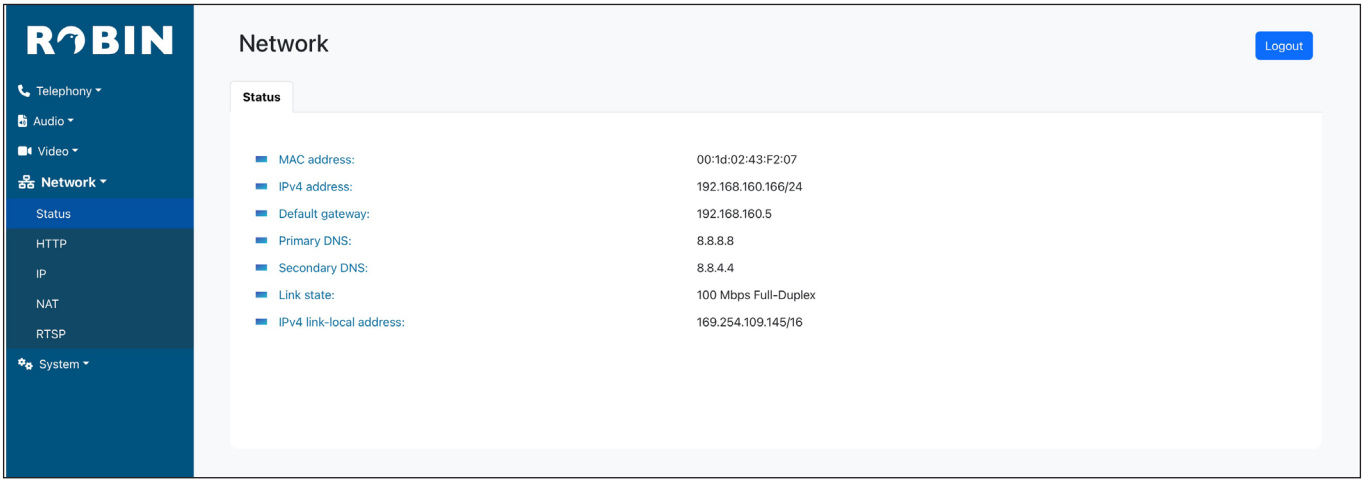
• Jpeg quality	Modify the quality of the video in the web browser Increasing will lead to a more bandwidth usage
• Bitrate	Set the H.264 encoding bitrate, used for RTSP

5.2.4 Network

5.2.4.1 Network / Status

Network status shows the active network information.

• MAC address	Shows the network MAC address
• IPv4 address	Shows the active IP address
• Default gateway	Shows the IP address for the gateway
• Primary DNS	Shows the IP address for the primary DNS
• Secondary DNS	Shows the IP address for the secondary DNS
• Linkstate	Shows the speed and status of the Ethernet link
• IPv4 link-local address	Shows the link-local fallback address

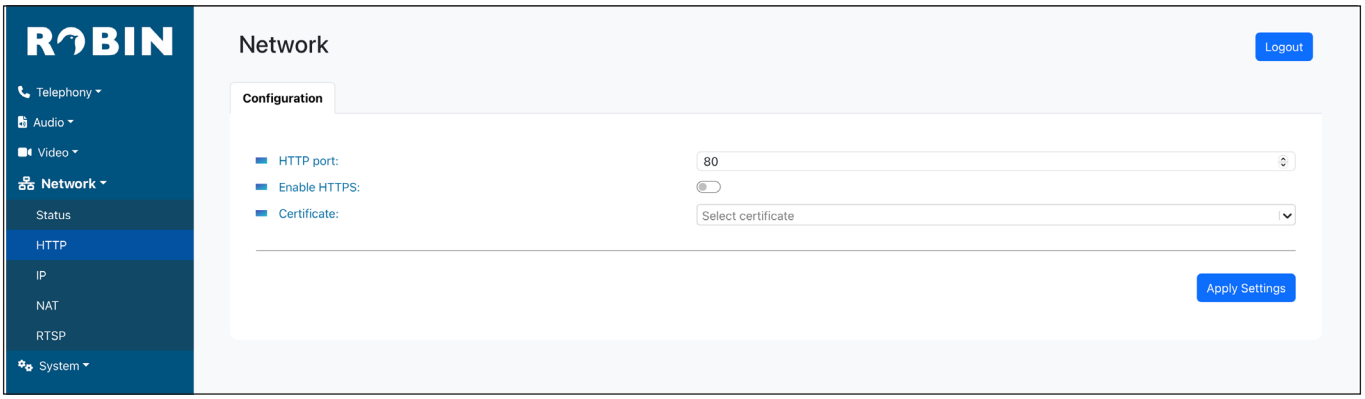


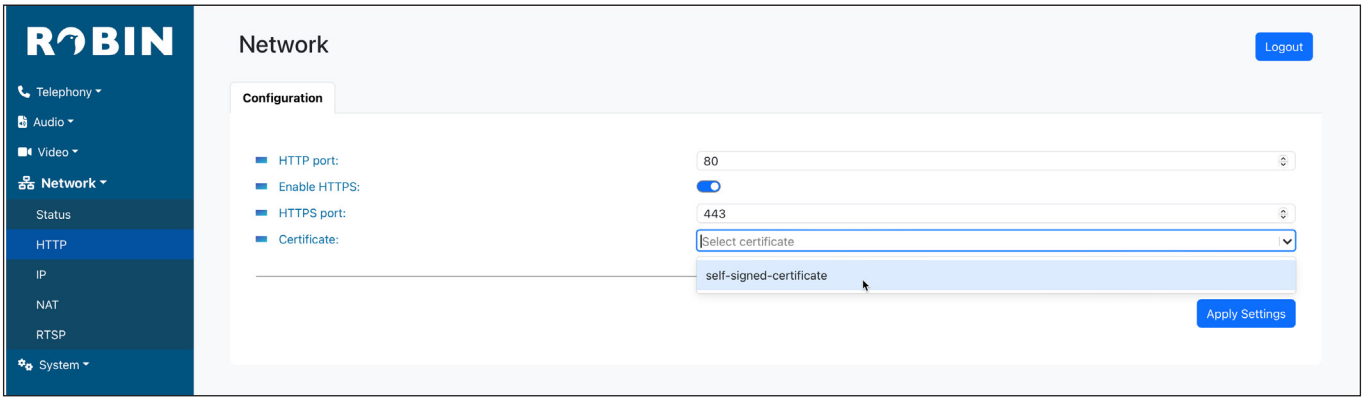
5.2.4.2 Network / HTTP

Configuration

Configure HTTP and HTTPS.

• HTTP port	Set the IP port for HTTP (default: 80)
• Enable HTTPS	Enable HTTPS access (default: off)
• HTTPS port	Set the IP port for HTTPS (default: 443)
• Certificate	Select a certificate for HTTPS



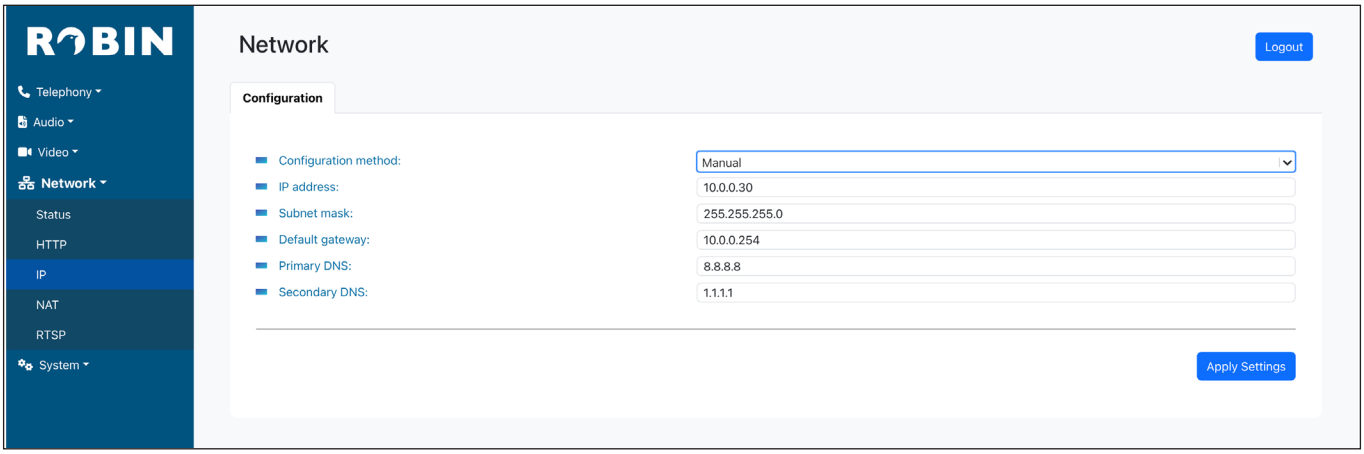


5.2.4.3 Network / IP

Configuration

• Configuration method	Select DHCP or manual (default: DHCP)

• IP address	Enter the IP address
• Subnet mask	Enter the IP netmask
• Default gateway	Enter the gateway or router address
• Primary DNS	Enter the IP address for the primary DNS
• Secondary DNS	Enter the IP address for a secondary DNS



5.2.4.4 Network / NAT

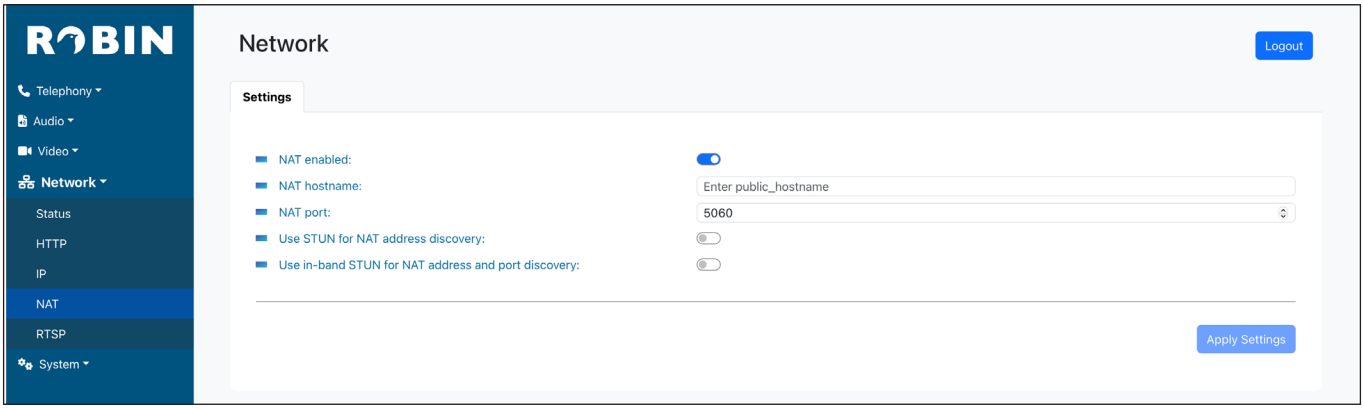
Settings

Depending on the network configuration, you may need to enable NAT.

• NAT enabled	Enable the use of NAT (default: off)

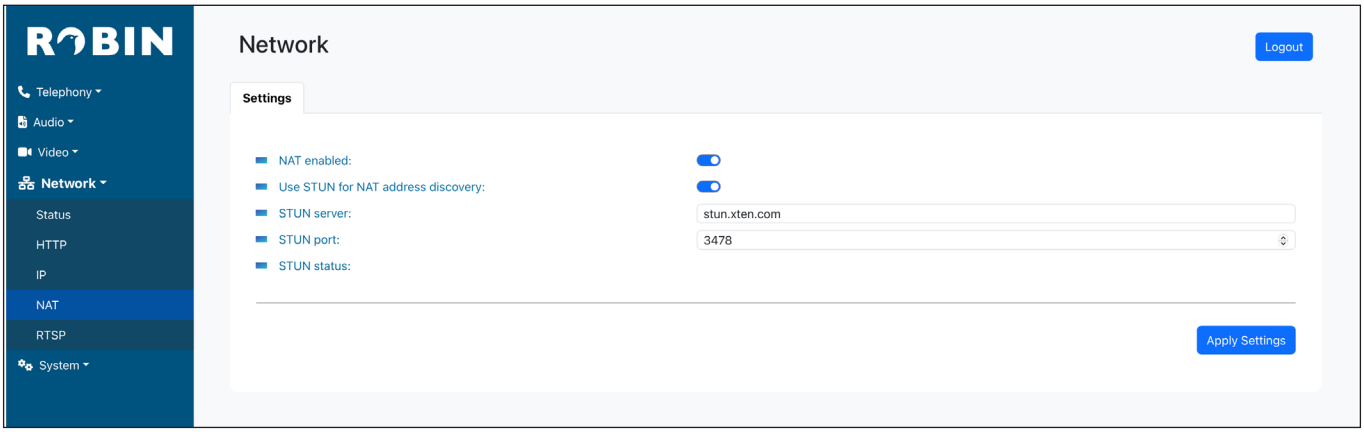
NAT Enabled

• NAT hostname	Enter the IP address or the hostname for NAT usage
• NAT port	Enter the port for NAT usage
• Use STUN for NAT address discovery	Activate this option if a STUN server is used for discovery of the WAN IP address (default: off)
• Use inband STUN for NAT address and port discovery	Activate this option if inband STUN is used for discovery of the WAN IP-address and the connection port to use with NAT (default: off)



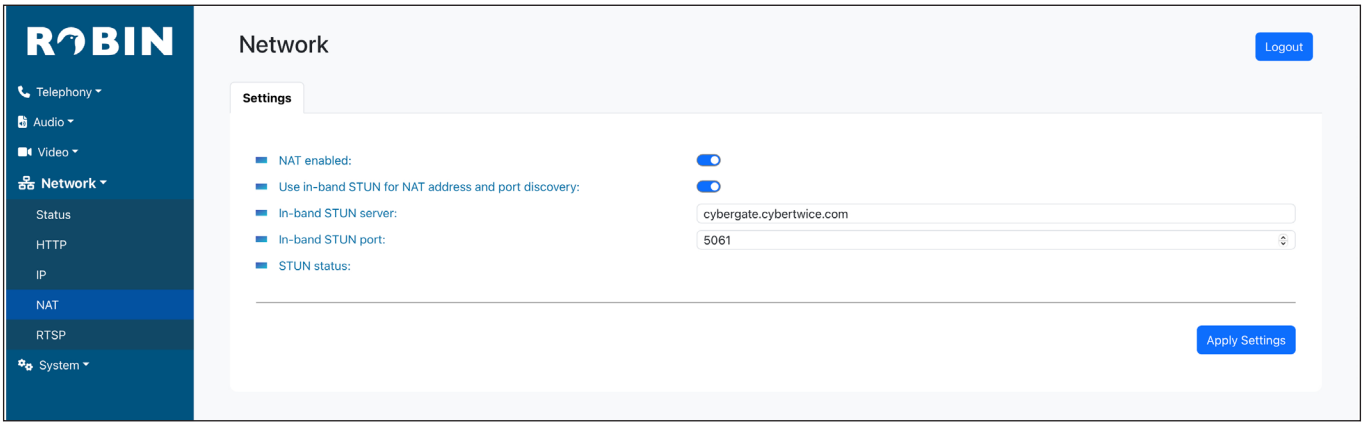
Use STUN for NAT address discovery enabled

• Stun server	The STUN server that will be used to retrieve the WAN IP-address (default: stun.xten.com)
• Stun port	The connection port of the STUN server (default: 3478)
• Stun status	Displays the status of the STUN request and the retrieved WAN IP-address



Use inband STUN for NAT address and port discovery enabled

• In-band STUN server	The STUN server that will be used
• In-band STUN port	The connection port of the STUN server (default: 5060)
• STUN status	Displays the status of the STUN request



5.2.4.5 Network / RTSP

Settings

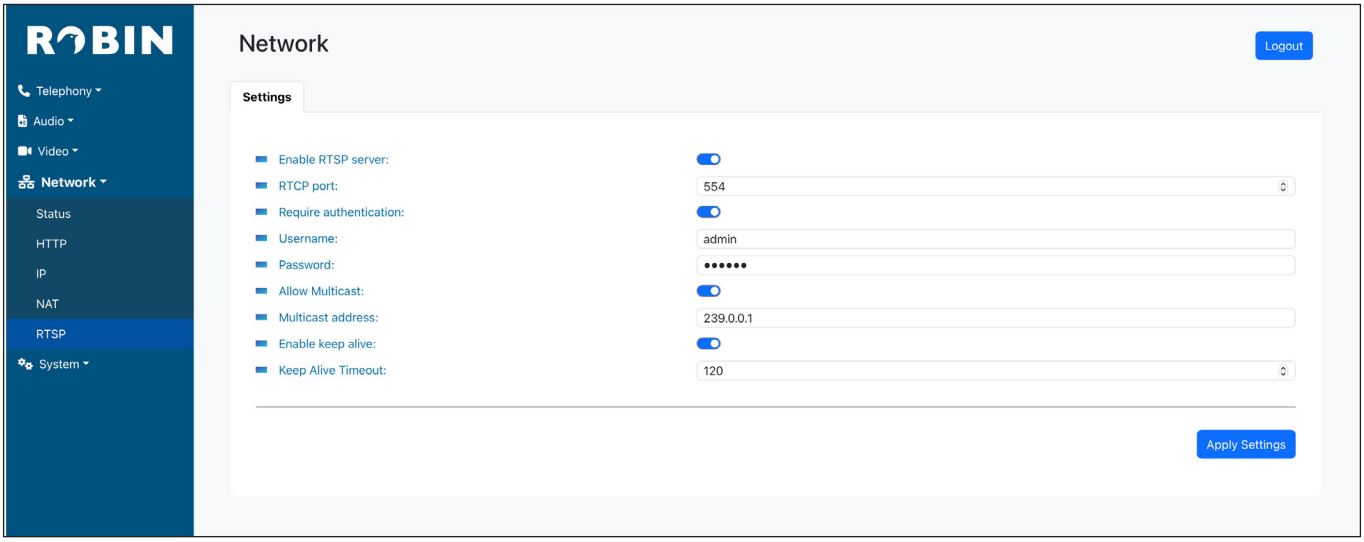
Stream video and audio through RTSP. The Robin uses H.264 for video and G.711 uLaw for audio.

• Enable RTSP server	Enable RTSP (default: off)

RTSP server enabled

• RTSP port	Set the RTSP port (default: 554)
• Require authentication	Use RTSP authentication (default: on)
• Username	Username for access to the RTSP stream
• Password	Password for access to the RTSP stream
• Allow Multicast	Enable Multicast (default: on) *
• Multicast address	Set the multicast address
• Enable keep alive	Enable RTSP keep alive (default: on)
• Keep Alive Timeout	Set the keep alive timeout (default: 120)

**** Not every video application supports Multicast.***



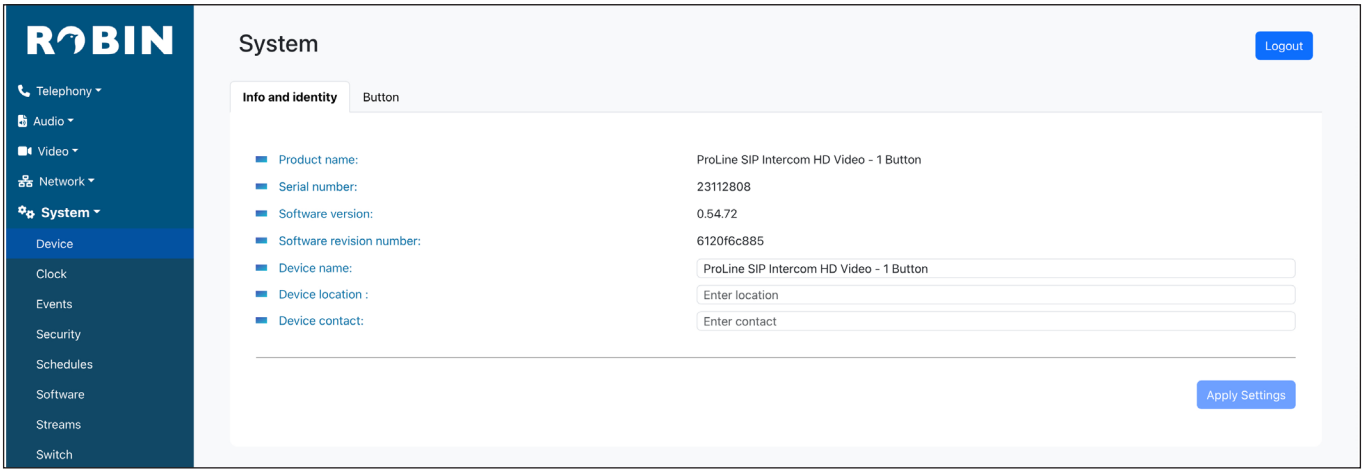
5.2.5 System

5.2.5.1 System / Device

Info and identity

The Info and identity menu shows info of the Robin. The Device name, Device location and Device contact can be set for easy identification.

• Device name	Descriptive name of the Robin
• Device location	Set the location of the Robin, e.g. main entrance, loading door, barrier, etc.
• Device contact	The person responsible for managing the Robin



Button

Configure the button sensitivity and the backlight of the label.

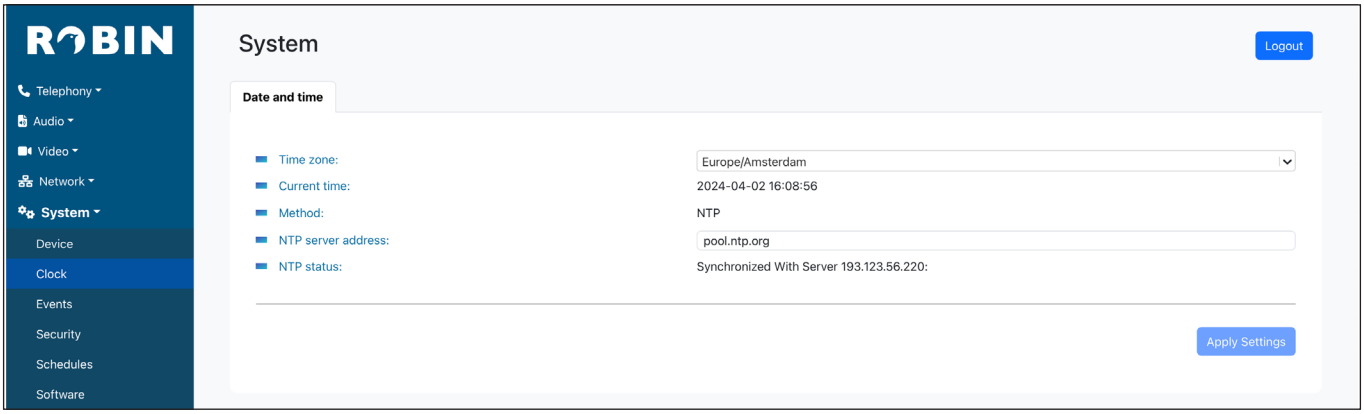
• Button sensitivity	Modify the sensitivity of the button (default: 60)
• Label backlight	Modify the intensity of the label backlight

5.2.5.2 System / Clock

Date and time

The date and time will be set automatically using a NTP server. Configure the Time zone and NTP server to use.

• Time zone	Select the time zone
• NTP server address	Set the NTP server to use (default: pool.ntp.org)



5.2.5.3 System / Events

The Events menu enables automations. For example, start an outgoing telephone call to a predefined number, play an audio message etc.

Events are triggered by an event source. There are different event sources, such as -but not limited to- a loud noise that exceeds a predefined volume, a push on the button of the intercom, an incoming HTTP call.

Event actions are the actions to execute when an event source triggers. Event actions can be set to be time bound using schedules.

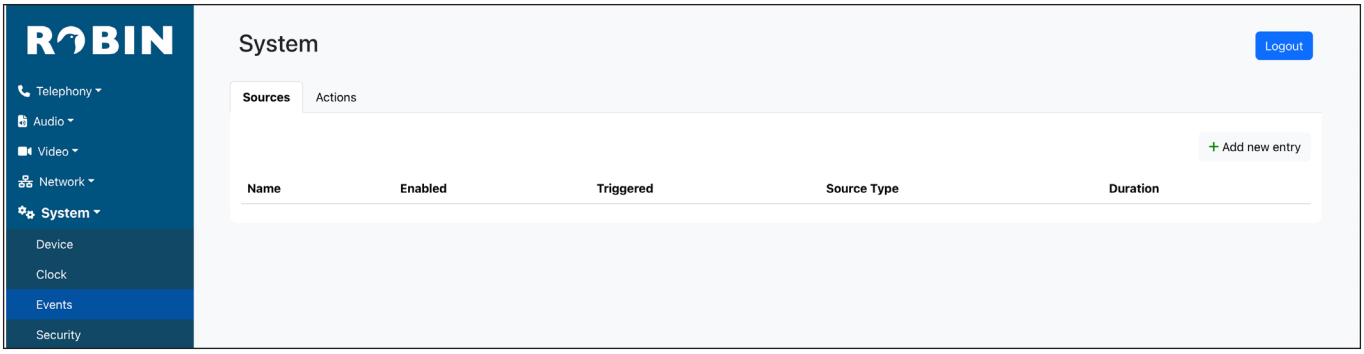
Sources

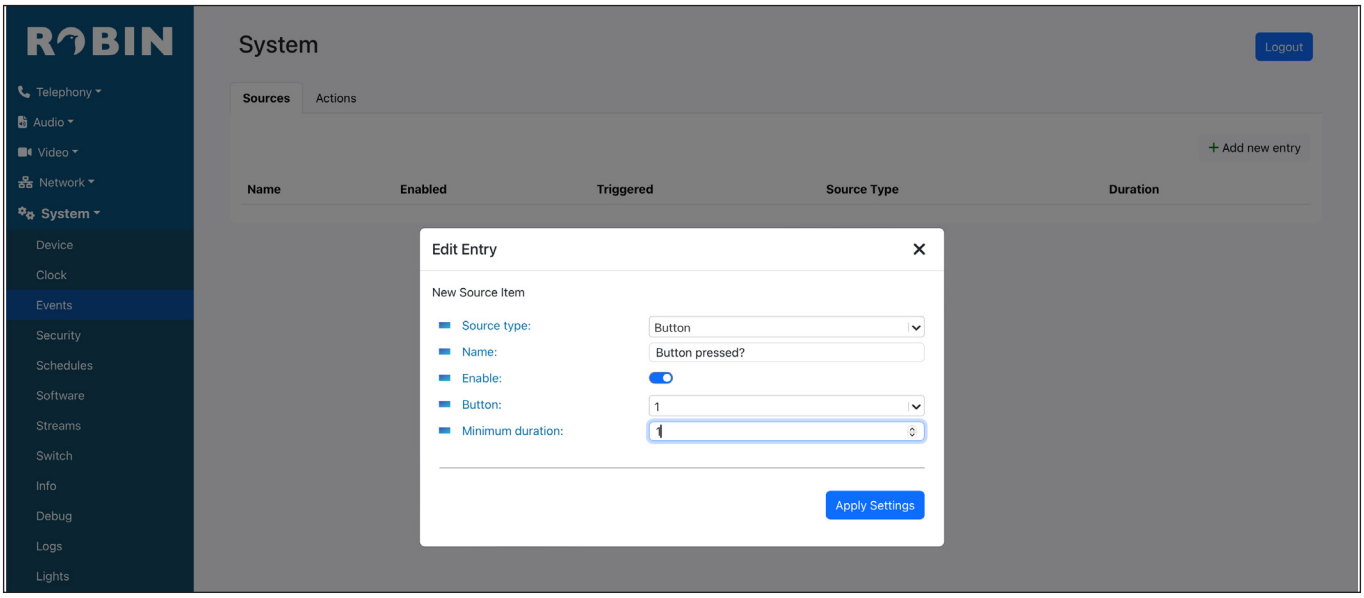
To add a source, click the 'Add new entry button'.

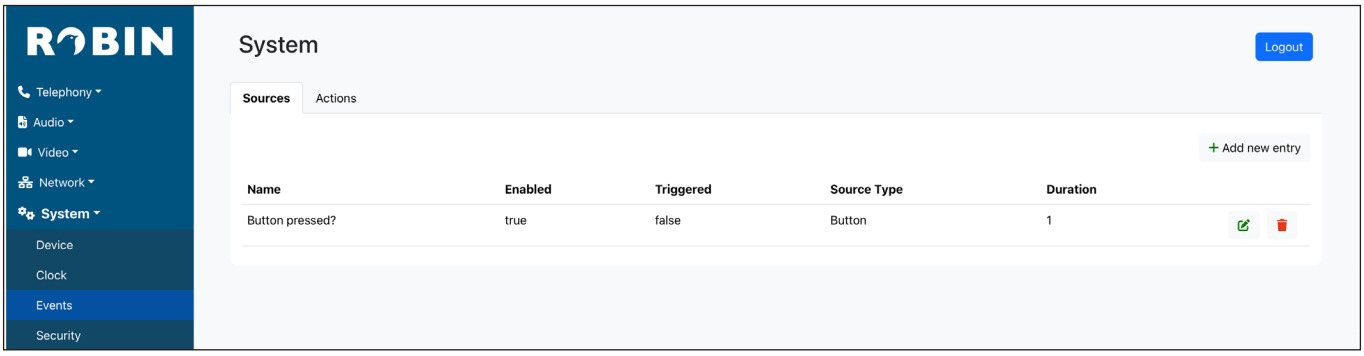
• Source type	Select a source type *
• Name	Descriptive name for the source
• Enable	Enable the source
• Minimum duration	Set the event source minimum duration. It extends the time an event is active by adding the initial time an event is active with the min. duration. Eg. the Button event takes approx. 0,5 sec., setting the min. duration to 2 seconds makes 0,5 + 2 = 2,5 seconds

* Source types:

Audio - Triggers when audio is detected - See menu -Audio-Detection-
Button - Triggers when the button is pushed - Choice: Button 1
Call - Triggers when a call is set up - Choice: Incoming or Outgoing
DTMF - Triggers when a combination of two keys are pressed during a phone call, starting with a '*' followed by another key (Eg. *1, *7 etc.) - (Choice: 0-9, or #)
HTTP - Triggers when a HTTP call is detected (default http://<IP-ADDRESS-ROBIN> /evmgr/emit). The Emit part in the URL is variable and can be changed in every other word. Change this in the field: -HTTP path-
Input 1 - Triggers when the hardware input contact on the back of the Robin is closed
Ring - Triggers when Ring is detected - Choice: Incoming or Outgoing


ROBIN
Telephony
Audio
Video
Network
System
Device
Clock
Events
Security
System
Logout
Sources
Actions
+ Add new entry
Name
Enabled
Triggered
Source Type
Duration


ROBIN
Telephony
Audio
Video
Network
System
Device
Clock
Events
Security
Schedules
Software
Streams
Switch
Info
Debug
Logs
Lights
System
Logout
Sources
Actions
+ Add new entry
Name
Enabled
Triggered
Source Type
Duration
Edit Entry
New Source Item
Source type:
Button
Name:
Button pressed?
Enable:
Button:
1
Minimum duration:
1
Apply Settings


ROBIN
Telephony
Audio
Video
Network
System
Device
Clock
Events
Security
System
Logout
Sources
Actions
+ Add new entry
Name
Enabled
Triggered
Source Type
Duration
Button pressed?
true
false
Button
1

Actions

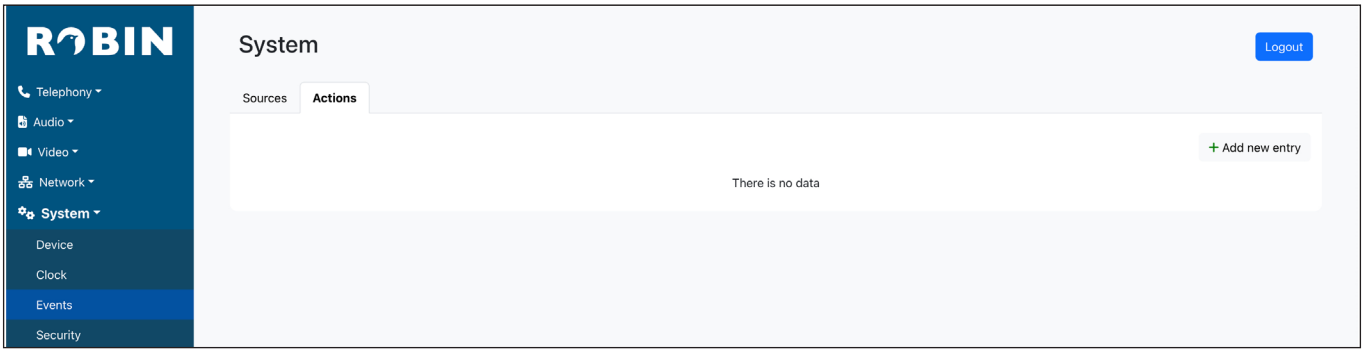
To add an action, click the 'Add new entry button'.

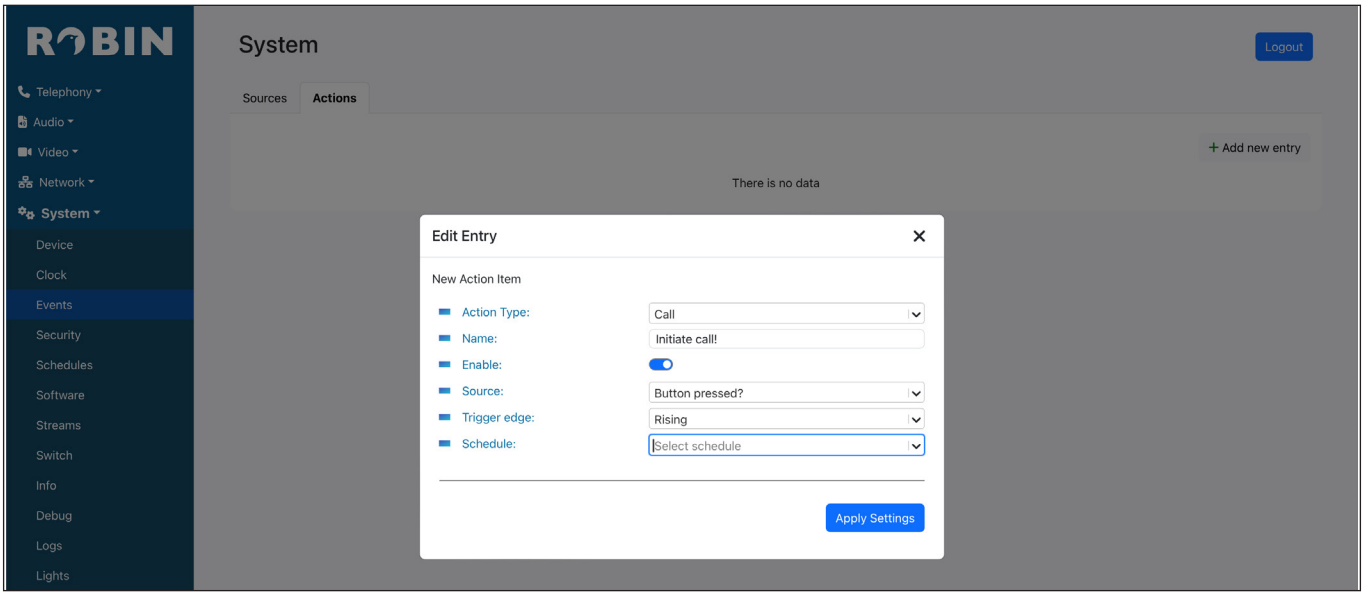
• Action type	Select an action type *
• Name	Descriptive name for the action
• Enable	Enable the source
• Source	Selects the event source for which this event action is the response
• Trigger edge	Start the event action at the beginning of the Event source, the ending of the Event source or on both (rising / falling / both)
• Schedule	Select a defined schedule

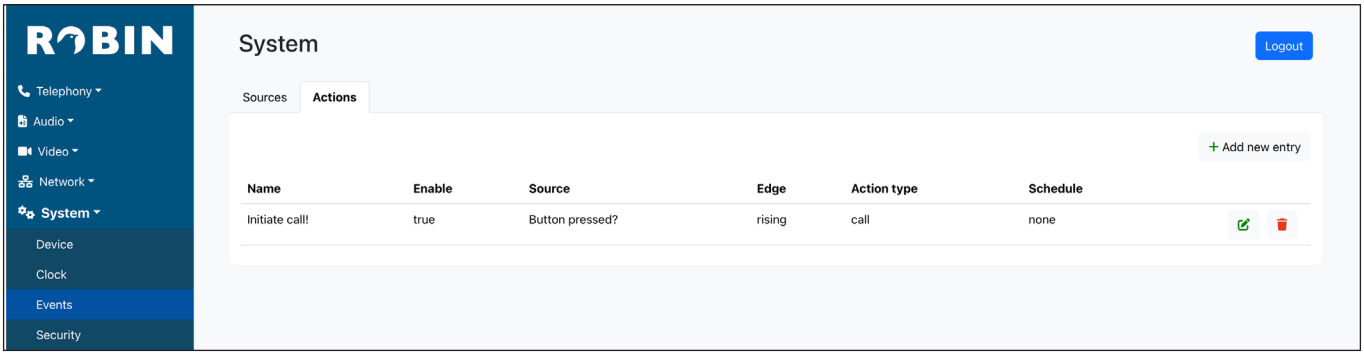
* Action types:

Beep - Starts playing a beep through the speaker of the intercom - Choice: Frequency of the beep
Call - Start a phone call to the default phone number - Choice: *Allow hangup* (on/off): When on, a repeated source input also disconnect the call
HTTP - Emits a HTTP command. - *two URLs*: one if the source becomes active and one if the source becomes inactive
Playback - Plays an audio file - *Mediafile*: choose a file, *Playback loop*: play once or play in a loop - See menu -Audio-Media-
Switch1 - Switch the relay switch of the Robin
Webrelay - Switch a relay switch on an external relay unit from ContolByWeb; WEBRelay - *Address*: the IP adres of the WEBRelay - *Relay (1-4)*: the relay to switch - *Action (on/off/pulse)*: on, off or pulse the relay switch (user selectable pulse time) - *Use authentication*: when a password is demanded to switch the WEBRelay *

**** : For more information about the Robin / WEBRelay, see Tech-Note: "How-To_Robin_and_WEBRelay" PDF on the support website: support.robintele.com !***



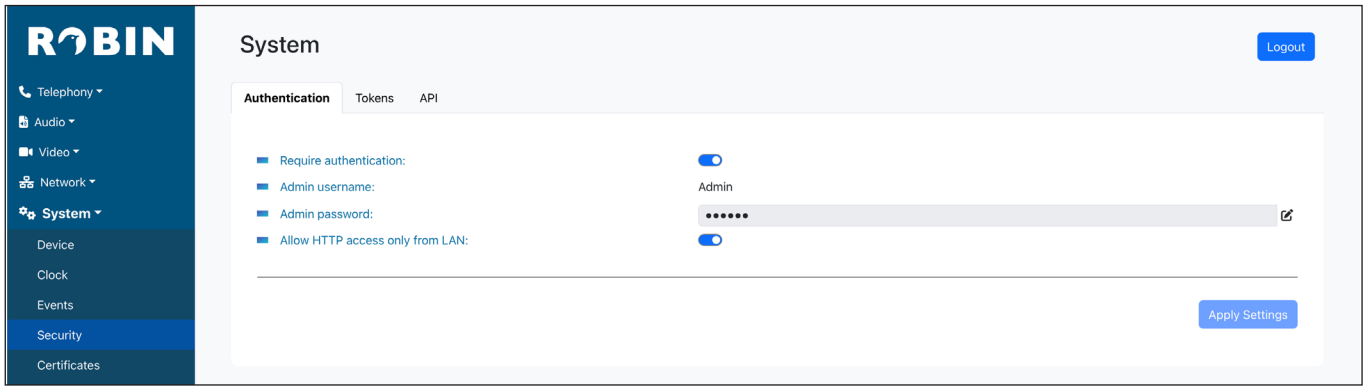

ROBIN
Telephony
Audio
Video
Network
System
Device
Clock
Events
Security
Schedules
Software
Streams
Switch
Info
Debug
Logs
Lights
System
Logout
Sources
Actions
+ Add new entry
There is no data
Edit Entry
New Action Item
Action Type:
Call
Name:
Initiate call!
Enable:
Source:
Button pressed?
Trigger edge:
Rising
Schedule:
Select schedule
Apply Settings


ROBIN
Telephony
Audio
Video
Network
System
Device
Clock
Events
Security
System
Logout
Sources
Actions
+ Add new entry
Name
Enable
Source
Edge
Action type
Schedule
Initiate call!
true
Button pressed?
rising
call
none

5.2.5.4 System / Security

Authentication

• Require Authentication	Disable / Enable authentication (default: on)
• Admin password	Change the password of Admin (default: 123qwe)
• Allow HTTP access only from LAN	Increases the security of the Robin. Access to the web interface is only possible from the same network as the Robin. (default: on) ***! Note: Disabling this feature is not recommended. !***

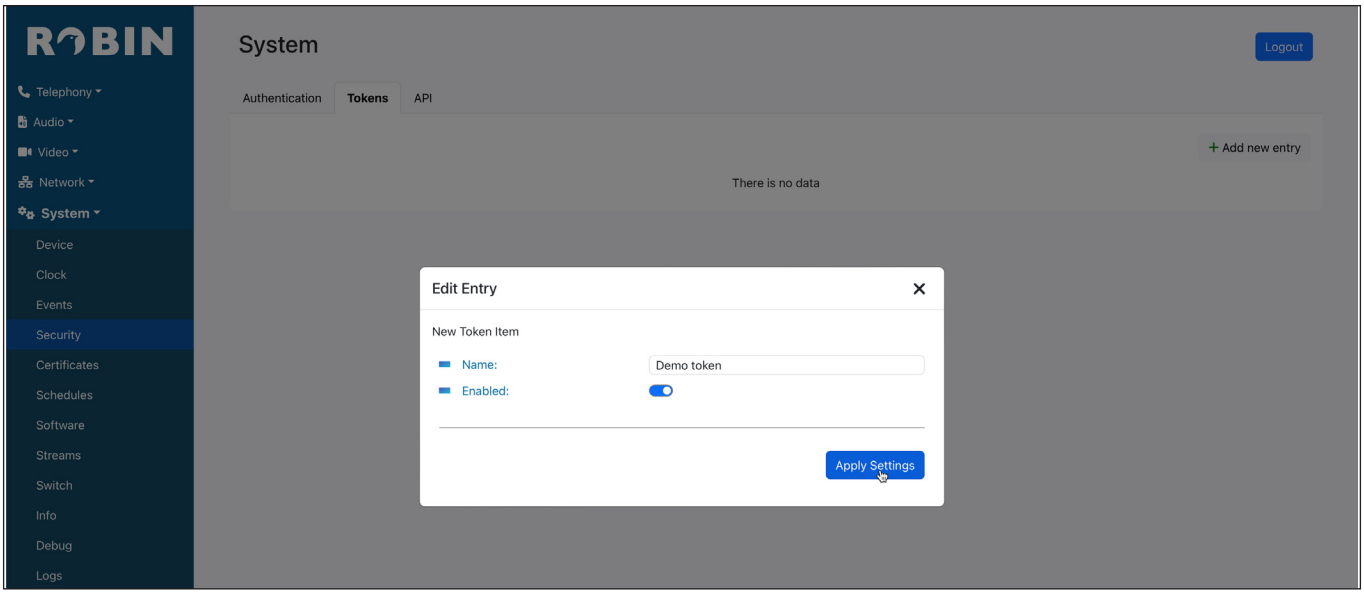


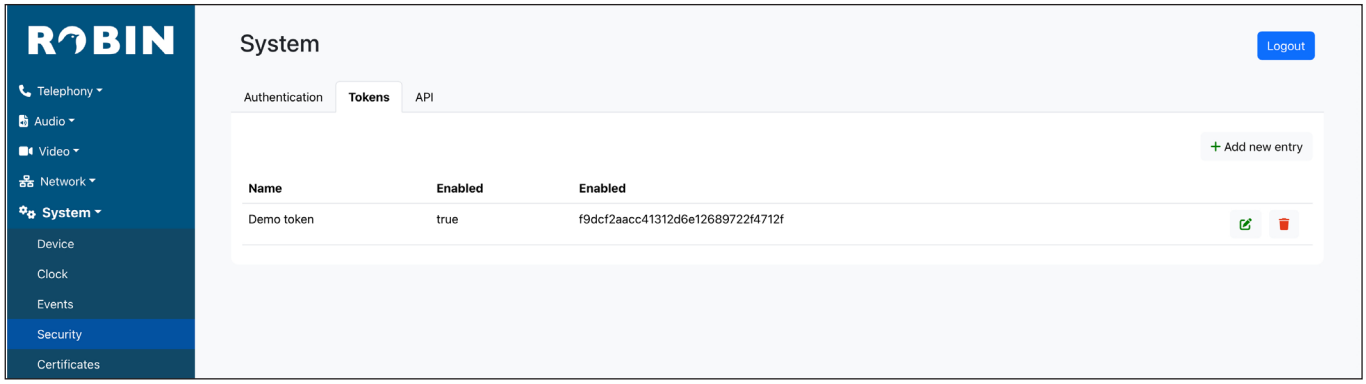
Tokens

Authentication Tokens can be used instead of the username and password when controlling the Robin via the API. See manual: 'How-To_The_Robin_API_3.x.x.pdf' for more information.

To add a token, click the 'Add new entry button'.

• Name	Descriptive name of the token
• Enabled	Enable / disable this token





API

De Robin is can be controlled via an API. Leave this setting disabled when the API is not used.

• Enable API interface	Enable access through the API interface

5.2.5.5 System / Security

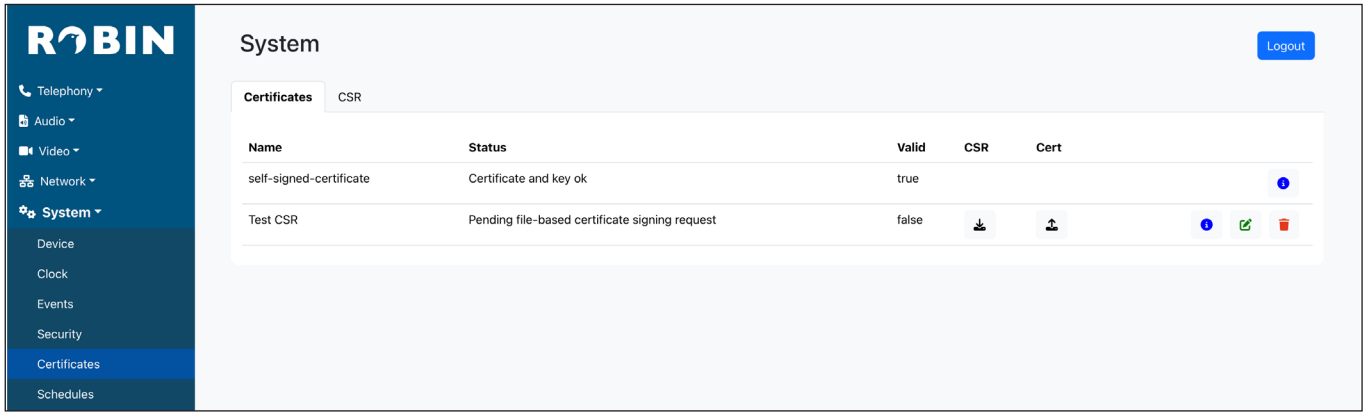
Certificates

Displays an overview of all installed certificates on the Robin By default a self signed certificate is installed and can be used.

When a CSR is generated on the Robin, it can be downloaded to use with a certificate authority. After the CSR is produced and the certificate is delivered by the certificate authority it can be uploaded in the Robin

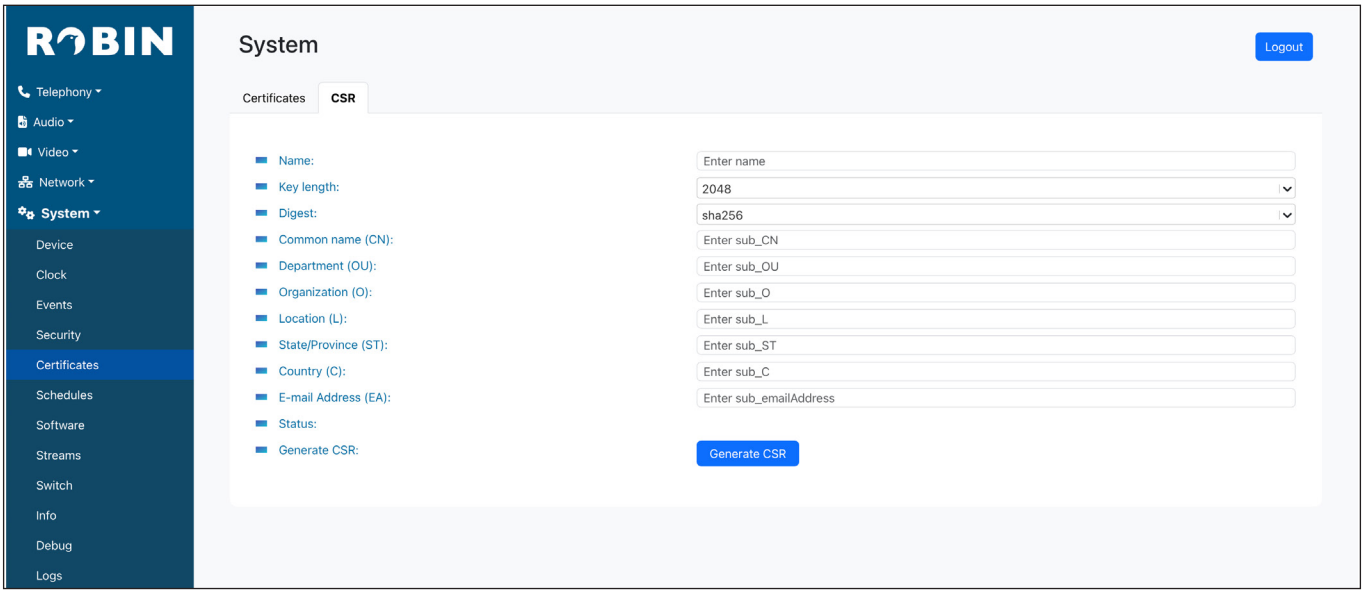
The certificate name can be modified and the certificate can also be removed. The self signed certificate cannot be removed.

• i-Symbol	Shows the certificate details
• CSR	Download the CSR
• Cert	Uploaded the certificate



CSR

Generate a CSR.



5.2.5.6 System / Schedules

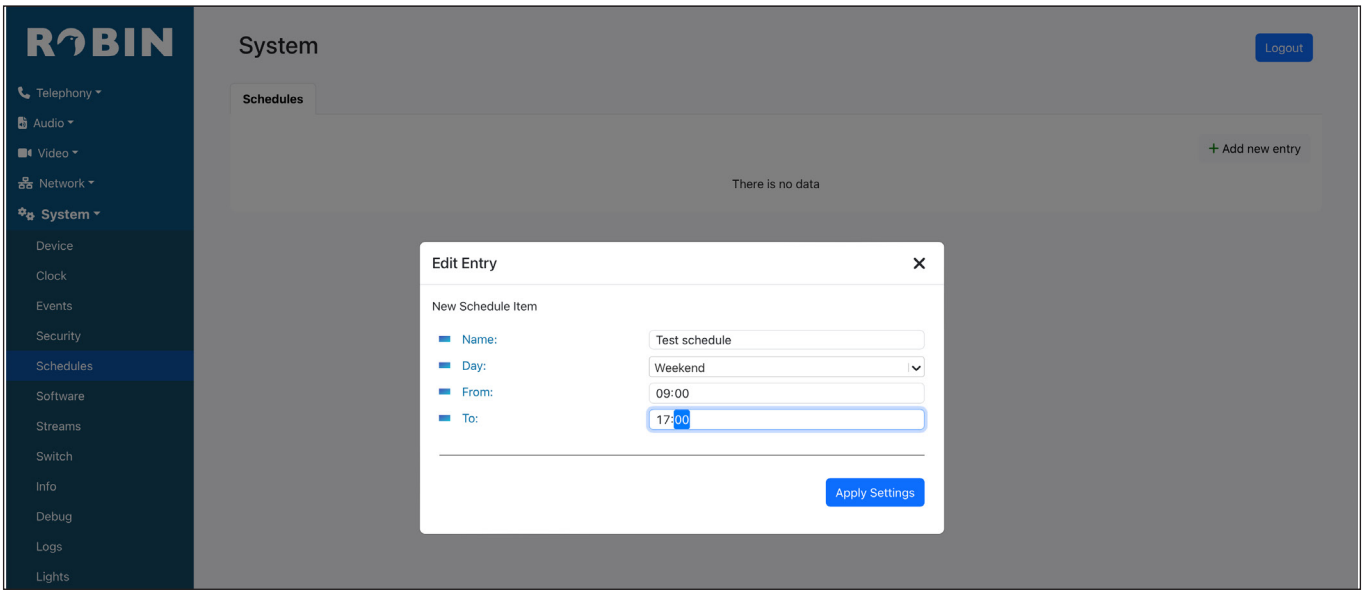
Schedules

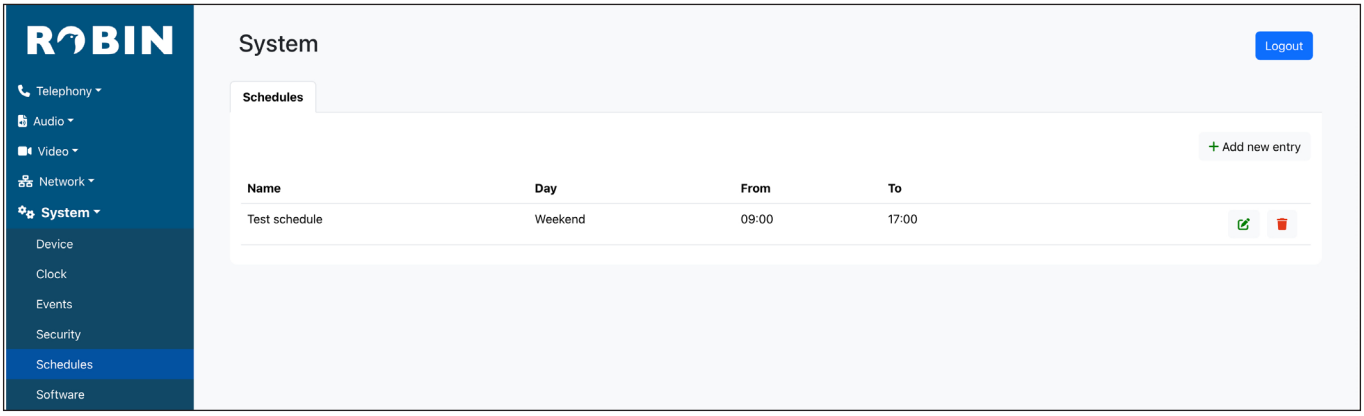
The Robin has multiple functions that can be made time bound. Use this schedule menu to create timeslots: e.g. office hours, lunch break, etc. Consequently, during the lunch break for example, the Robin can be set to dial a different telephone number from that configured for normal working hours.

The timeslots are not prioritised so they must be set consecutively, e.g.:

8:30-12:29 morning -> call reception
12:30-13:00 lunch -> call a mobile phone
13:01-17:00 afternoon -> call reception

• Description	The name that is associated with this Schedule
• Day	Select the day / days for this schedule
• From	Start time
• To	End time





5.2.5.7 System / Software

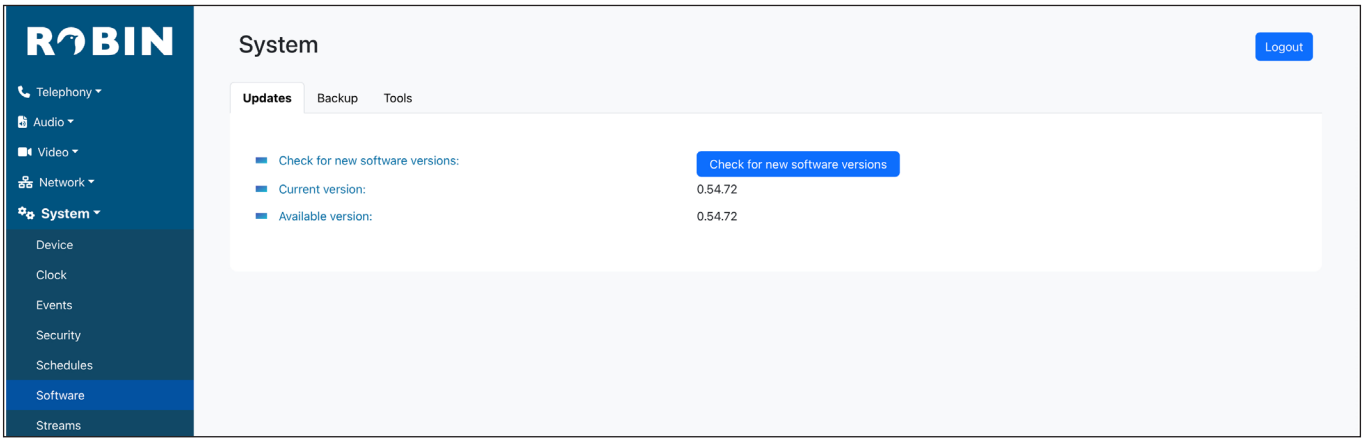
Updates

New software versions for the Robin are released regularly. These versions include always include improvements and often introduce new functions.

Updating is a two-stage process; the first step is to check whether new software is available. the second step is to upgrade to the latest version.

After the upgrade, the Robin will reboot.

! Note: Internet access for the Robin is necessary to update the software of the Robin. !

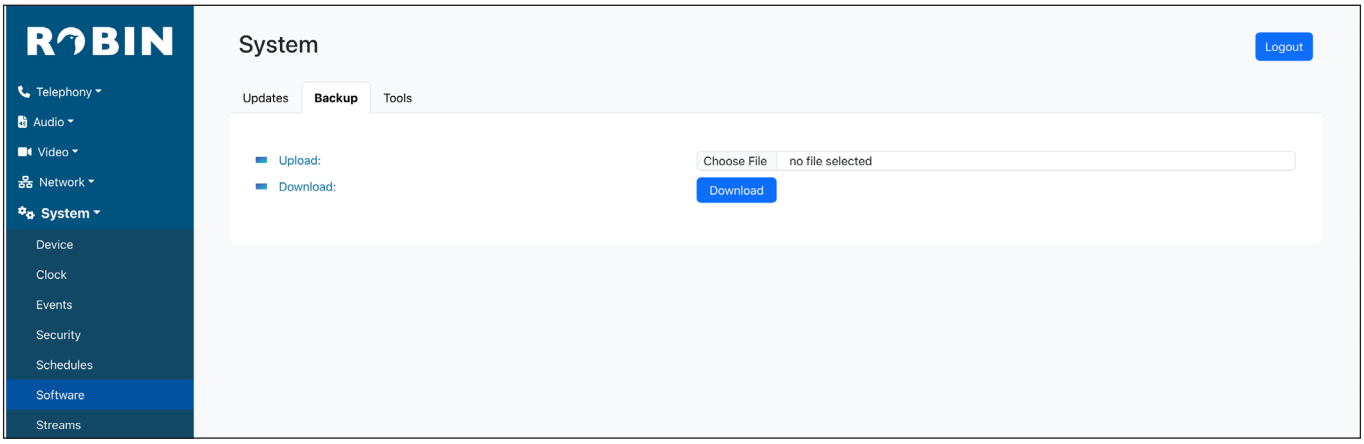


Backup

Create a backup of the current configuration of the Robin and restore a previously created backup.

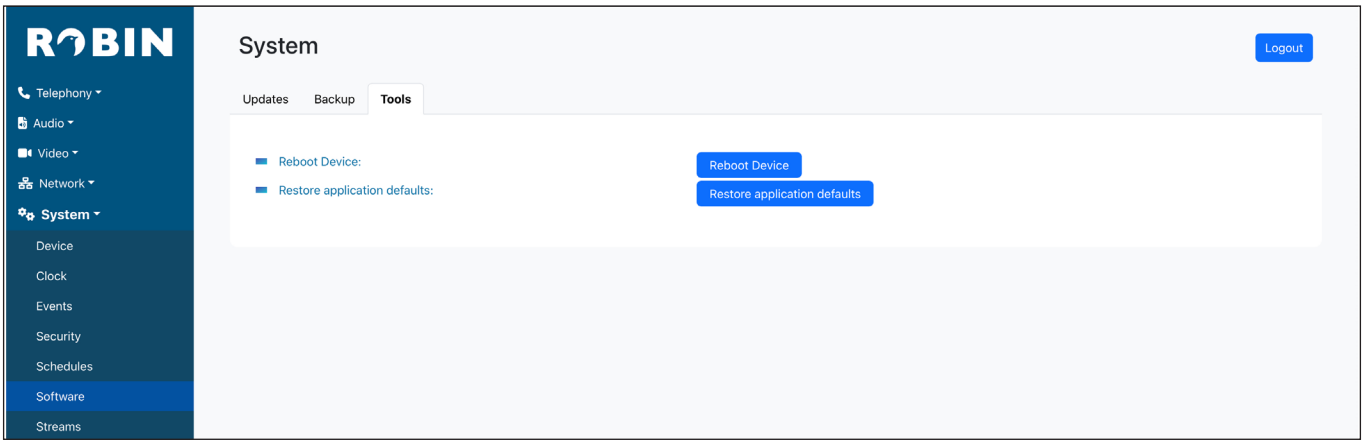
After uploading a backup, the Robin has to be rebooted before it takes effect.

• Upload	Upload a previously created backup to the Robin
• Download	Download a backup file of the configuration of the Robin



Tools:

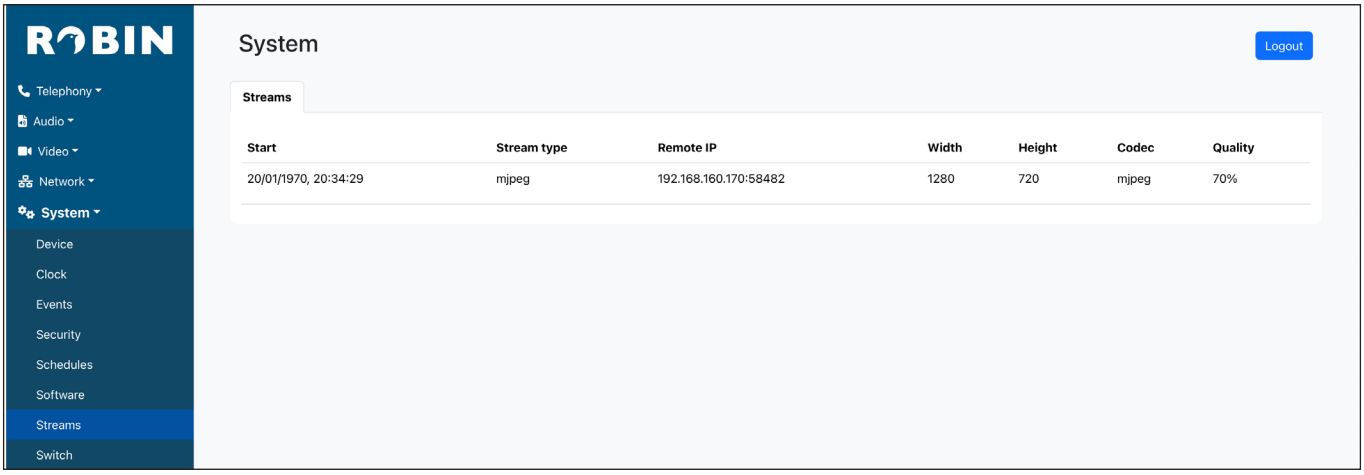
• Reboot device	Reboots the complete device. It may take 30 seconds before the Robin is active again
• Restore application defaults	Restores the default settings for the Robin



5.2.5.8 System / Streams

Streams

The 'Streams' menu shows all active video streams. This can be MJPEG, RTSP or a video stream during an active call.



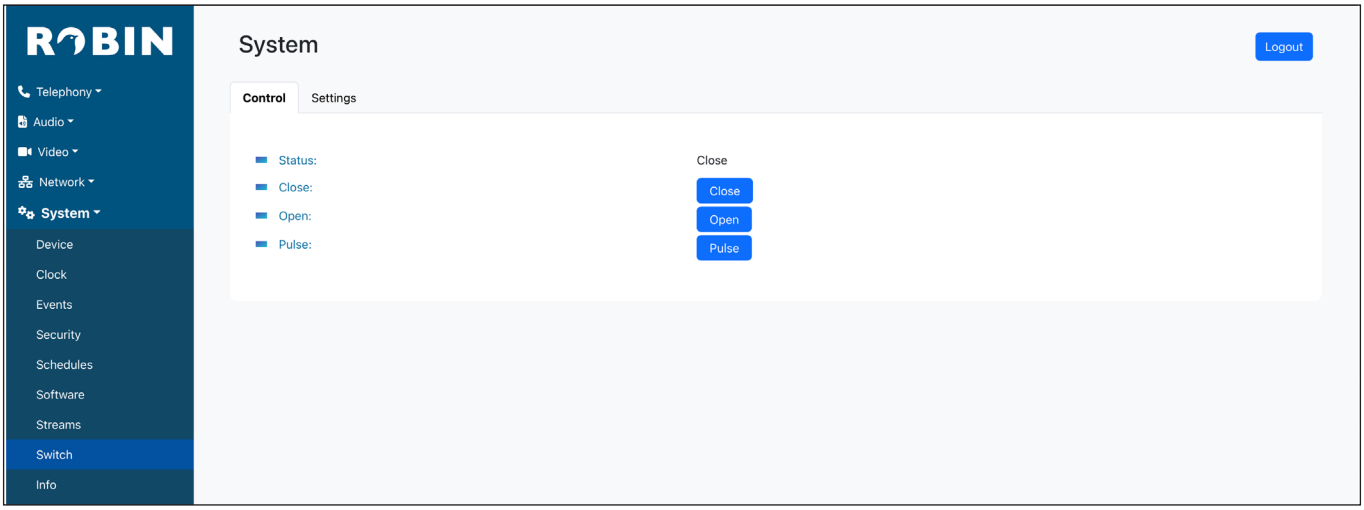
5.2.5.9 System / Switch

Control

The Robin has a built-in dry relay contact. It can be used to open a door or a gate.
When a connection has been established between the Robin and a telephone handset, the relay can be operated via key combinations on the telephone.

For examples on how to connect the Robin to an electronic door lock, see: ***'Appendix B, Electronic lock'.***

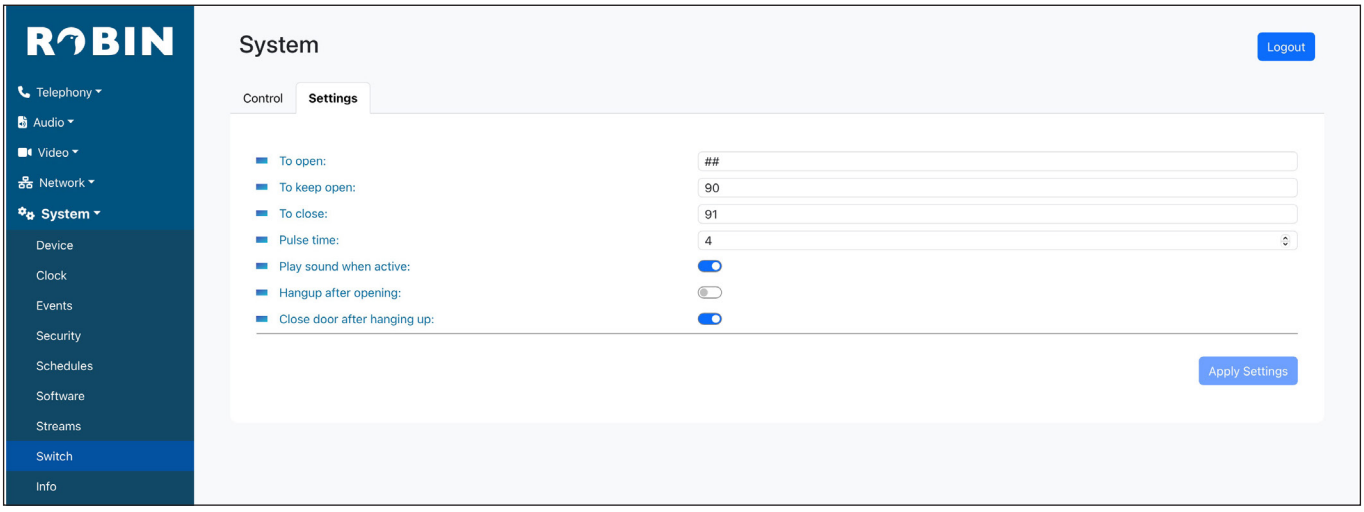
• Status	Displays the status of the relay switch (open / close)
• Close	Deactivate the switch
• Open	Activate the switch
• Pulse	Activate and automatically deactivate the switch after a predefined time



Settings

Configure the setting related to the Switch.

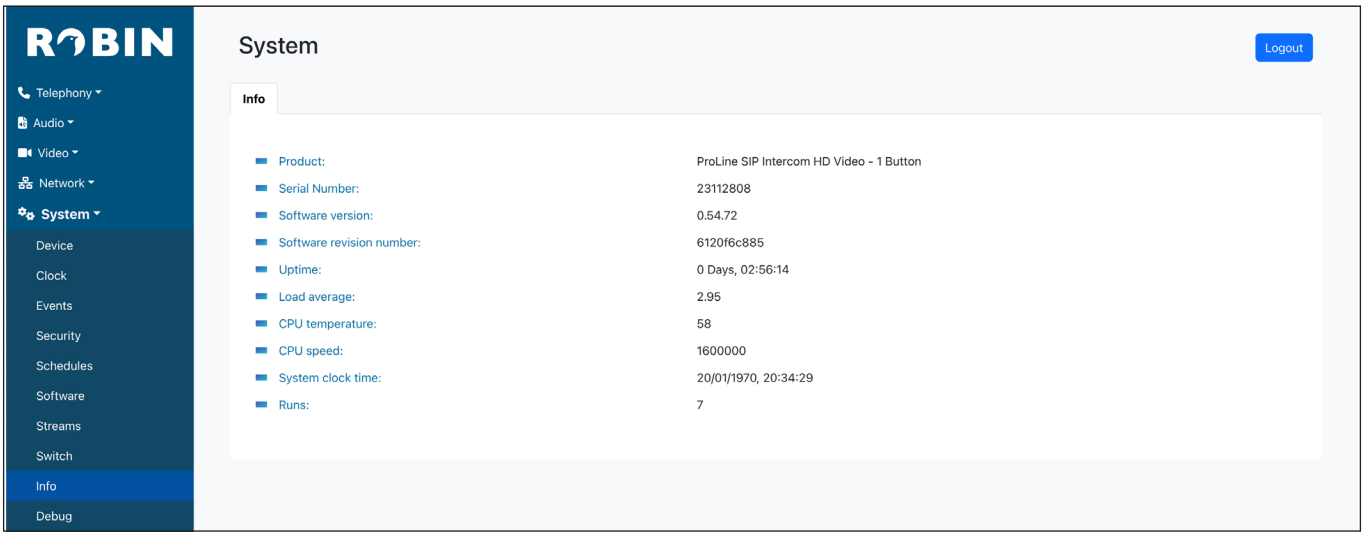
	For the actions: to open, to keep open and to close the keys 0.....9, * and # can be used
• To open	The relay switch opens and closes again after a set time (Pulse time). The default key combination for this is ' ##'
• To keep open	The relay switch stays open, independently of the set time
• To close	The relay switch closes
• Pulse time	Set the time that the relay switch stays open (duration min. 1 second and max. 30 seconds)
• Play sound	Plays a sound when the relay switch is active
• Hangup after opening	Breaks the connection after activating the relay switch (default: off)
• Close door after hanging up	Close the relay switch after the phone is disconnected



5.2.5.10 System / Info

The Info menu displays detailed information about the Robin.

• Product	Shows the product type
• Serial number	Shows the serial number
• Software version	Shows the software version
• Software revision number	Shows the software revision number
• Uptime	Shows the time that the Robin is switched on
• Load average	Shows the average processor load (UNIX style)
• CPU temperature	Shows the temperature of the CPU in the Robin
• CPU speed	Shows the current processor speed
• System clock time	Shows the system time
• Runs	Shows the amount of runs



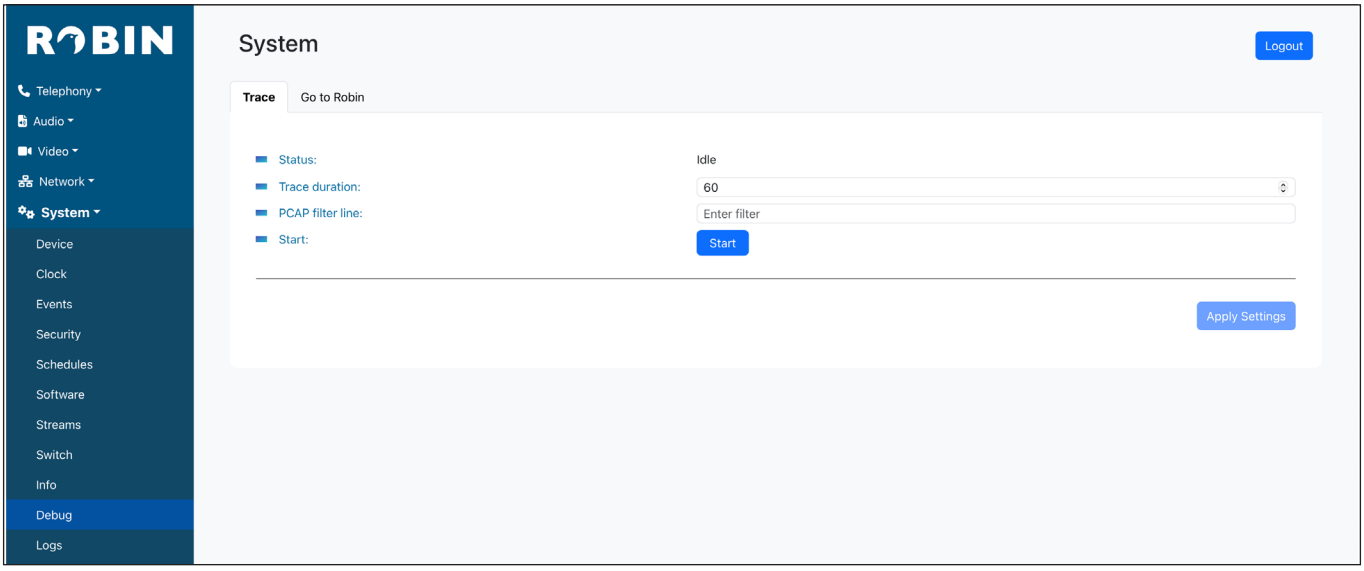
5.2.5.11 System / Debug

The Debug menu offers tools for quick resolution of issues.

Trace

The Trace function allows you to create a trace of all the network traffic to and from the Robin.

• Status	Shows the status of the trace
• Trace duration	Set the standard duration of the trace. The trace will stop automatically
• PCAP filter line	The trace is can be filtered to contain only relevant network data
• Start	Start the trace
• Stop	Stop the trace
• Download	Download the trace (.pcap format)

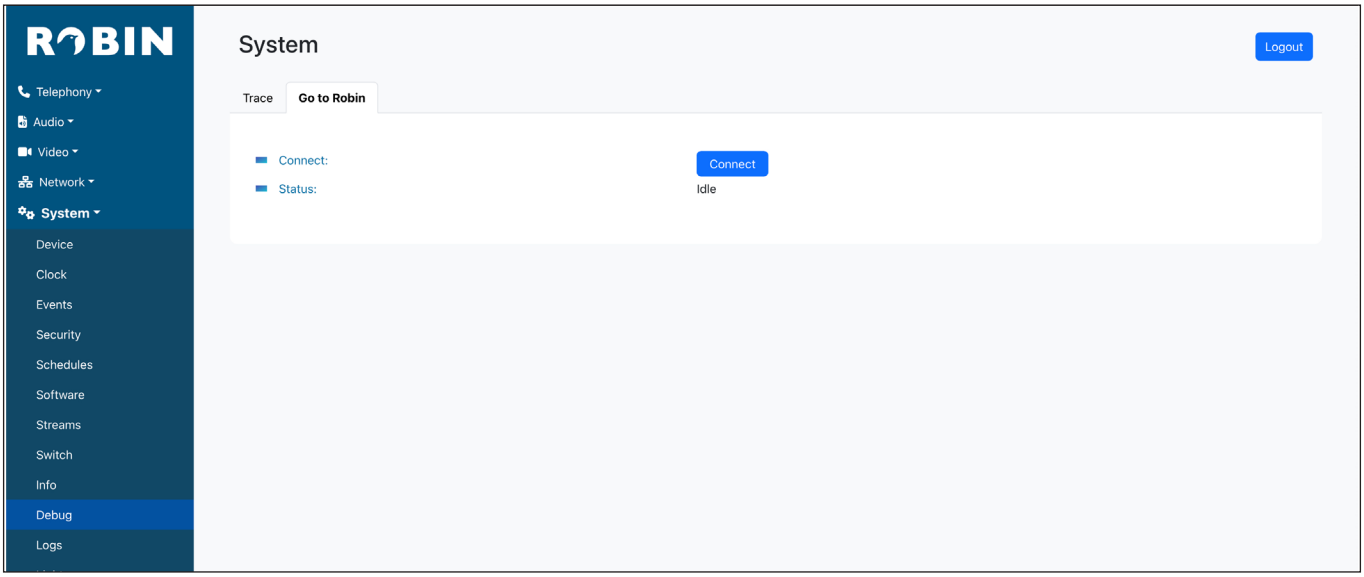


Go to Robin:

Go to Robin enables remote support for the unit. It connects the unit to the Robin support server and can be used for remote support.

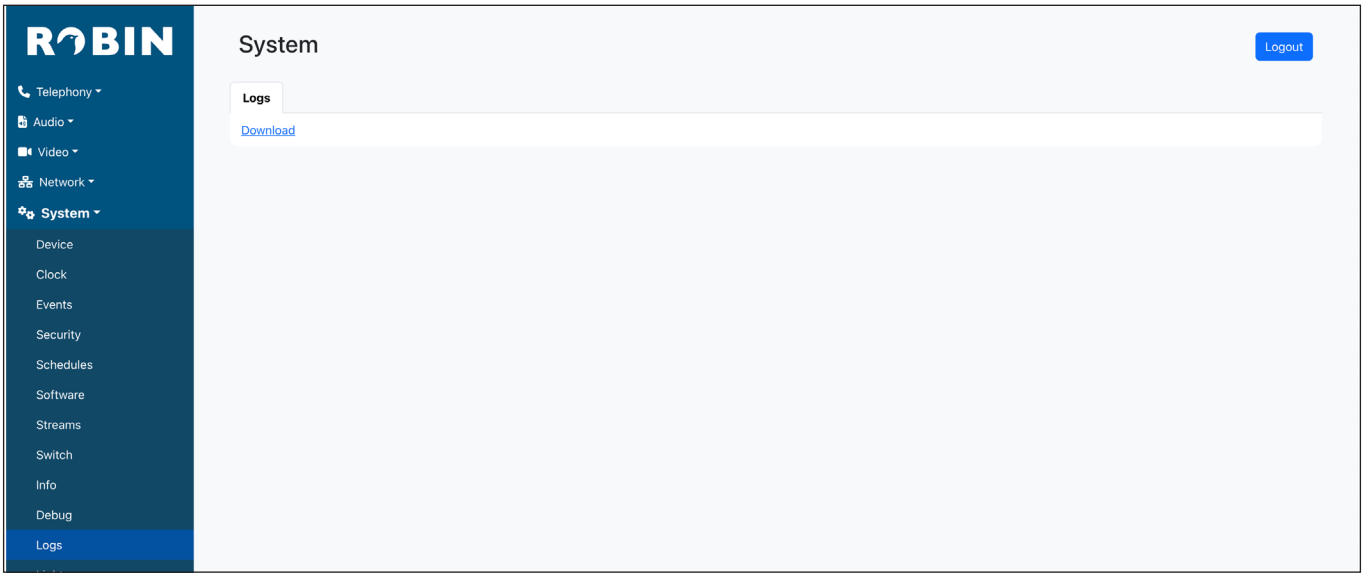
! Note: Go to Robin will only work after contacting the Robin Support. !

• Connect	Connect to 'Go to Robin'
• Status	Display the connection status of 'Go to Robin'
• Message	Information regarding the 'Go to Robin' connection



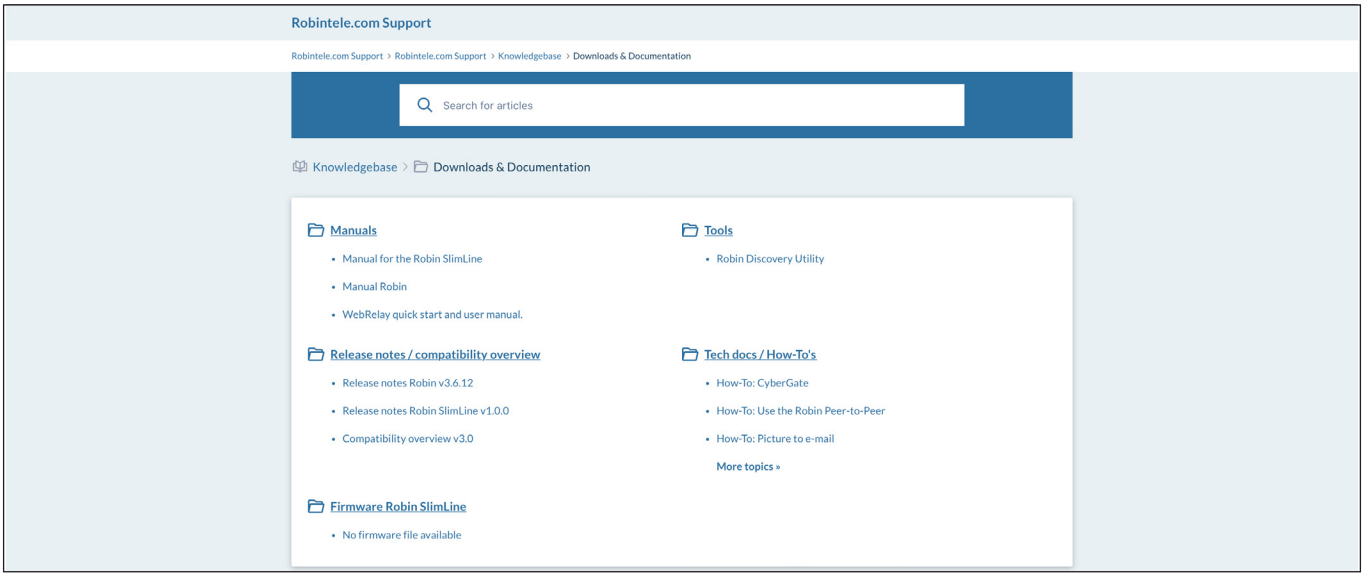
5.2.5.12 System / Logs

The Robin registers all events that occur. These are logged in a log file that can be downloaded here.



6 Support

For details of special settings, requests for support and FAQs, please use our online support page:
http://support.robintele.com

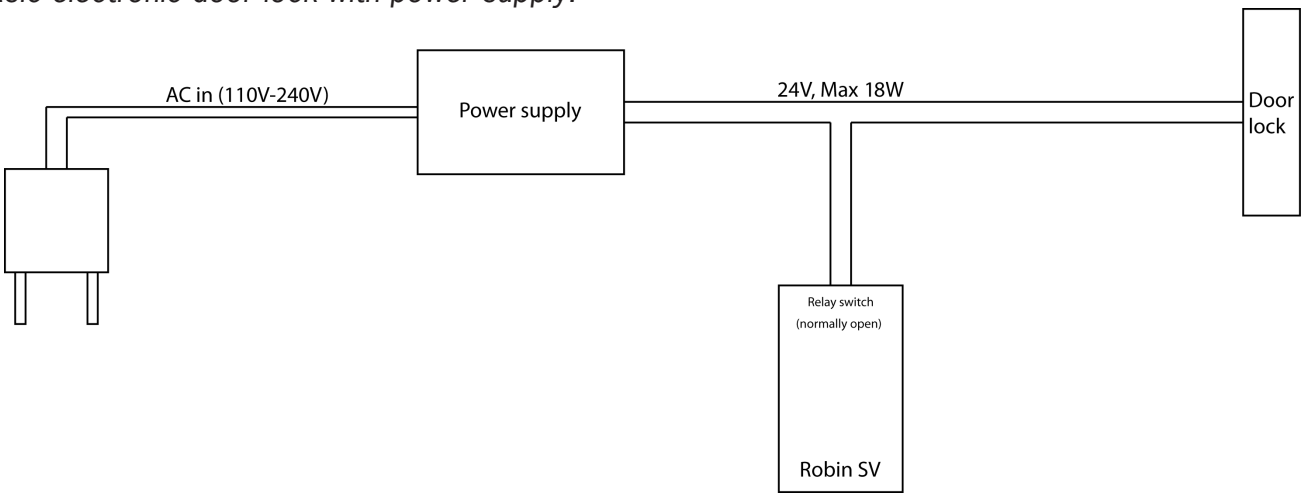


Appendix A, Electronic lock

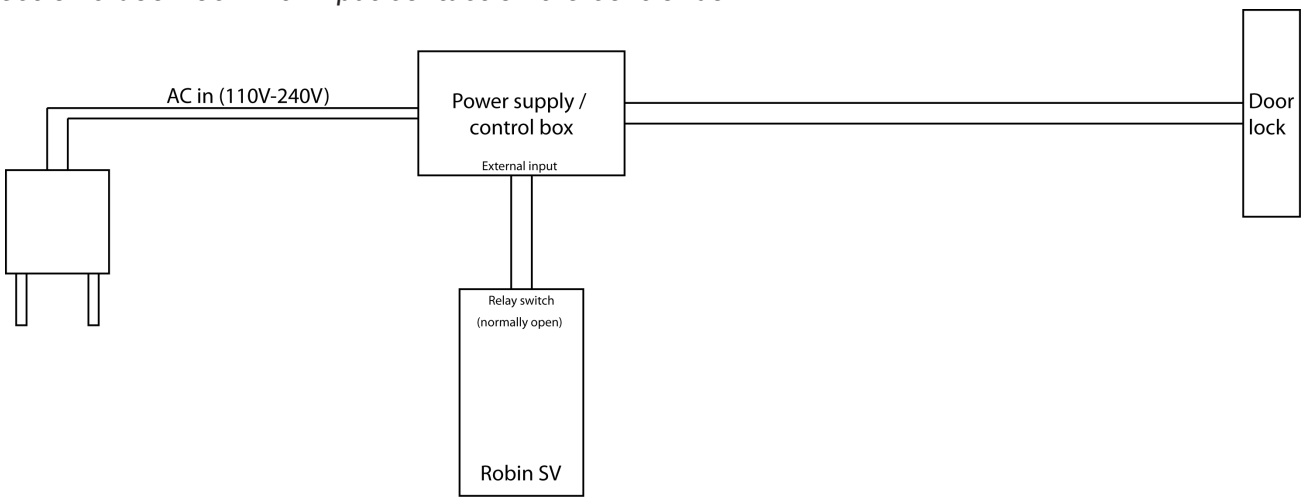
The Robin has a built-in voltage-free relay contact. The Robin is not able to power a electronic lock, a power supply is required.

There are many different electronic locks on the market. We advise to use the prescribed method of the electronic lock manufacturer to connect the Robin.
This Appendix shows two common ways to connect the Robin to the electronic door lock altough other options might also be possible.

Basic electronic door lock with power supply:



Electronic door lock with input contact on the control box:



! Note: The relay switch of the Robin doesn't supply power for the electronic lock! Make sure that the switched voltage does not exceed 24V and the switched power is max. 18W. !

Version history

Date	Version	Author	Remark
11-3-24	1.0.0	KR	Initial version
13-6-24	1.0.1	KR	Modified text and screenshots