

AA-12FB

AA-12FB

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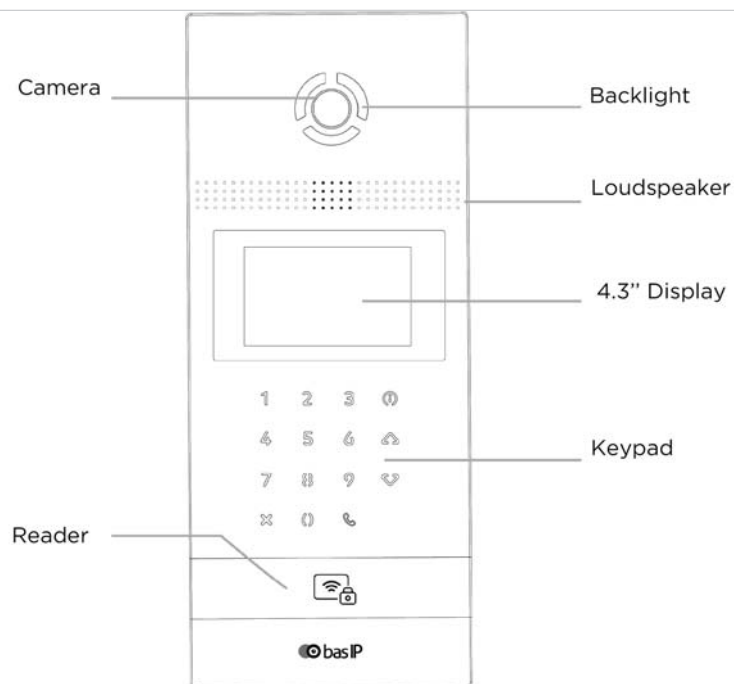
- Device description(see page 6)
- Technical parameters(see page 7)
- Configuration through graphical interface(see page 8)
- Configuration trough web interface(see page 15)
- Installation and connection(see page 41)
- Device usage(see page 47)

Device description

Modern design and well-thought out functionality of this panel makes it an ideal solution for business and elite buildings. AA-12FB is available in gold, silver, and black, and also it supports BAS-IP UKEY mobile access.

There is a separate button to call concierge or emergency services.

Apperance



Technical parameters

Main features

Panel type: Multi apartment

Screen: 4,3 TFT, color with backlight

Camera: 1/4, camera direction adjustment

Angle: 117° horizontal x 62° vertical

Camera resolution: 1 MP

Output Video: HD (1280x720), H.264 Main Profile

Night backlight: 6 LEDs

Minimum illumination: 0,01 LuX

Protection class: IP65

Operating temperature: -40 - +65 °C

Power consumption: 6,5 W, standby - 3,6 W

Power: +12V

Body: Aluminium alloy

Colors: Silver, Gold, Black

Dimensions for installation: 141× 359× 58 mm

Size of the panel: 158 × 379× 49 mm

Installation Type: Flush

Keypad: Backlight piezo buttons

Functionality

Interface: Russian/English, WEB interface

Opening the lock: From the monitor, by code, by card, from the BAS-IP Intercom application, UKEY

Access control integration: WIEGAND-26 output

Shortcut buttons: Concierge button

Number of call melodies: 4 polyphonic melodies, ability to customize melodies for different actions

Authentication: Separate password for settings, WEB – interface

Talk mode: Duplex

Optional: SIP P2P, Built-in Relay

Configuration through graphical interface

- [Main screen](#)(see page 8)
- [Device settings](#)(see page 9)
- [Network settings](#)(see page 11)
- [Access settings](#)(see page 12)
- [Additional settings](#)(see page 13)
- [About system](#)(see page 14)

Main screen



Call: to call the apartment required, you need to enter from 4 to 10 digits depending on the current mode of the panel.

Concierge: to call concierge you should enter **0000** or press separate call button on the keypad.

Open: to go to the Access Code menu, press " ", enter the access code and press " " to confirm.

To cancel an action or navigate through the menu you should press "↑".

Address book: A list of contacts to search for and call residents if the exact logical address of the monitor is unknown.

Address book is available if the option is enabled in the settings of the web interface in the "[Apartments](#)¹" section.

¹ <https://wiki.bas-ip.com/aa07v4/en/apartments-14058107.html>



Apartments are sorted by name.

The address book is opened by clicking on the arrow buttons  or  and call is made by pressing the " " .

The exit to the main screen is carried out by pressing "|"  or automatically, after 30 seconds of inactivity.

By default, address book is disabled.

The tips displayed on the main screen can be changed in the "[Advanced → Custom Notifications²](#)" section.

Device settings

To enter the system settings, press the " "  button twice:

Next you need to enter 6 digits of the password to enter the call panel settings (default password: **123456**) and press " " .

² <https://wiki.bas-ip.com/aa07v4/en/advanced-8552667.html>

- 
1. Device Settings
 2. Network Settings
 3. Access Settings
 4. Misc Settings
 5. About System

The "2" button moves the cursor up, the "8" button moves the cursor down. To confirm the values, press the " " button and the "|" button to go back.

Mode:	Unit Panel	Password:	123456
Language:	English	Volume:	4
Building:	1	Size:	640x480
Unit:	1		
Index:	2		

Mode: select operation mode of the panel.

Information about operation modes

If you select the **"Wall"** mode, you must enter 4 digits of the building number, 2 digits of the unit number, 2 digits of the floor number, and 2 digits of the apartment number to call the desired monitor.

If you select the **"Unit"** mode, you must enter only 2 digits of the floor number and 2 digits of the apartment number to call the desired monitor.

You shouldn't select individual operation mode for these panels. It is used only for individual panels.

Language: Select interface language.

Building: Number of the building.

Unit: Unit number.

Index: Device number of the outdoor panel.

Password: System password to enter settings or WEB interface.

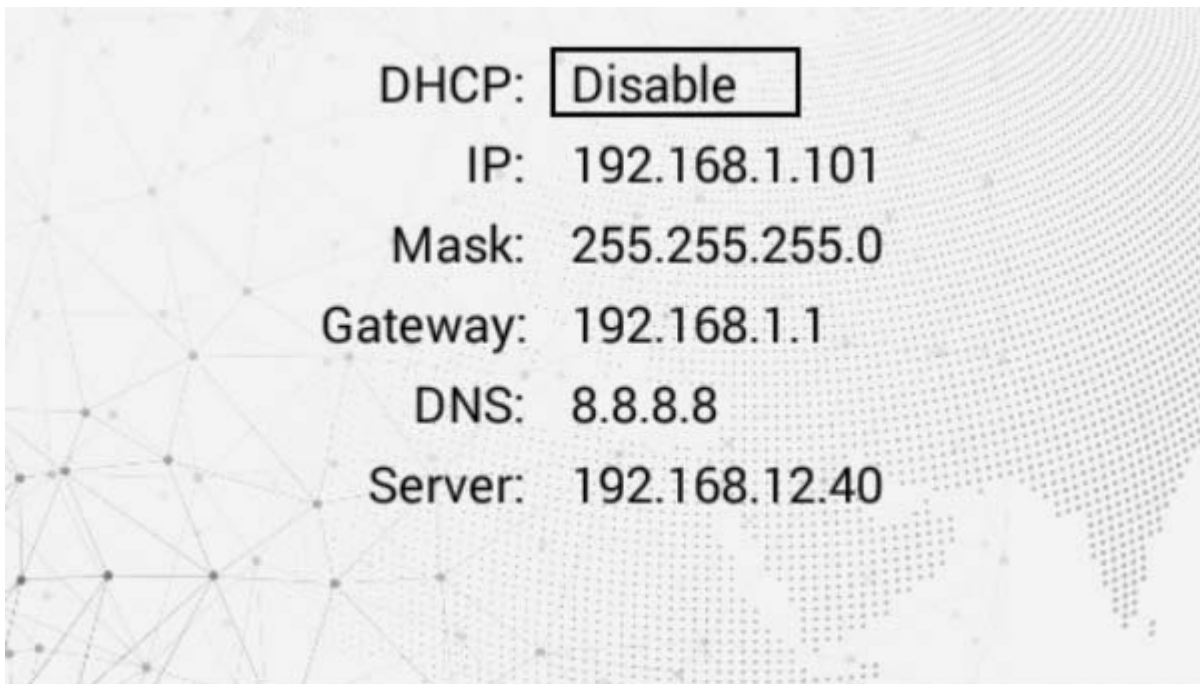
Volume: Loudspeaker volume of the outdoor panel.

Size: Select the camera stream resolution of the outdoor panel.

The number of the building and the unit should correspond to values of the internal monitor that will receive an incoming call from the outdoor panel. If you have several outdoor panels with the same logical address, then in the Index field you should specify values 2, 3, 4, 5 etc., up to 9. If the logical addressing of the outdoor panel corresponds to the address of the monitor, and the IP addresses of the devices are in the same network segment, the devices will find each other and the call will be correct.

Network settings

Main network settings are configured in this tab.



DHCP: Enable/disable mode to get network settings automatically.

IP: IP address of outdoor panel.

By default the outdoor panel can have a static IP address 192.168.68.90 or 192.168.1.90.

Mask: Subnet mask.

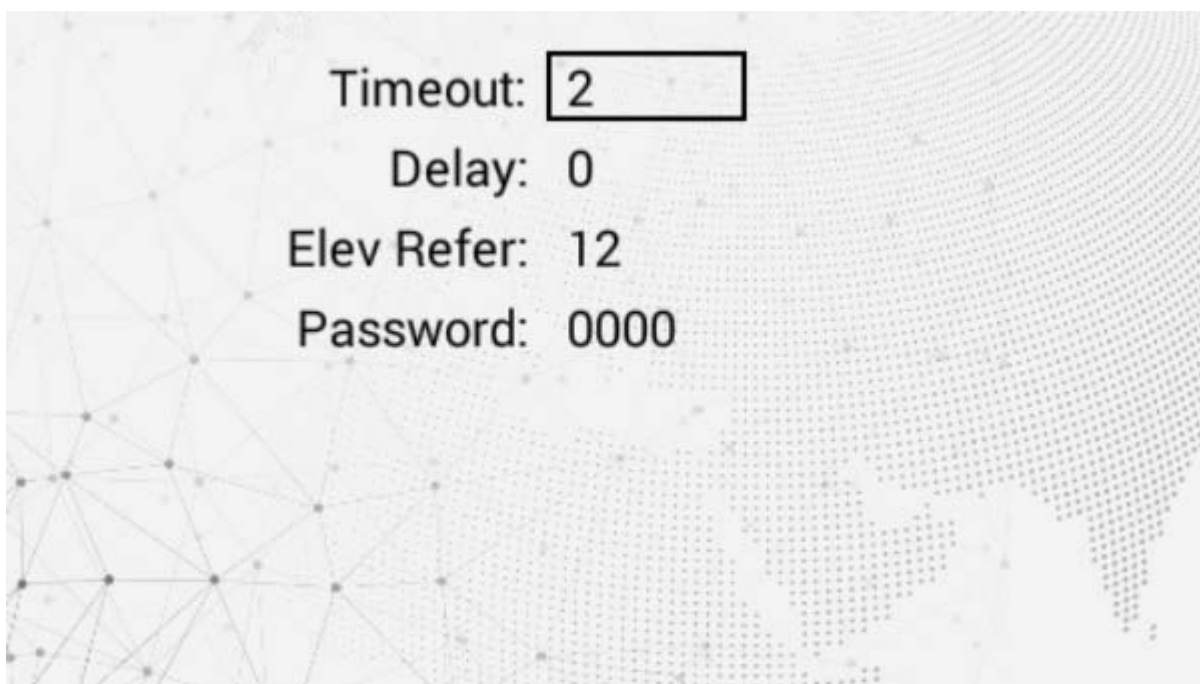
Gateway: Default gateway.

DNS: Address of the DNS server.

Server: IP address of your PC or server, where Management Software or Link software is installed.

Access settings

When you switch to Access settings menu, the following interface will be displayed:



Timeout: Time when contacts of the panel relay will be closed or open.

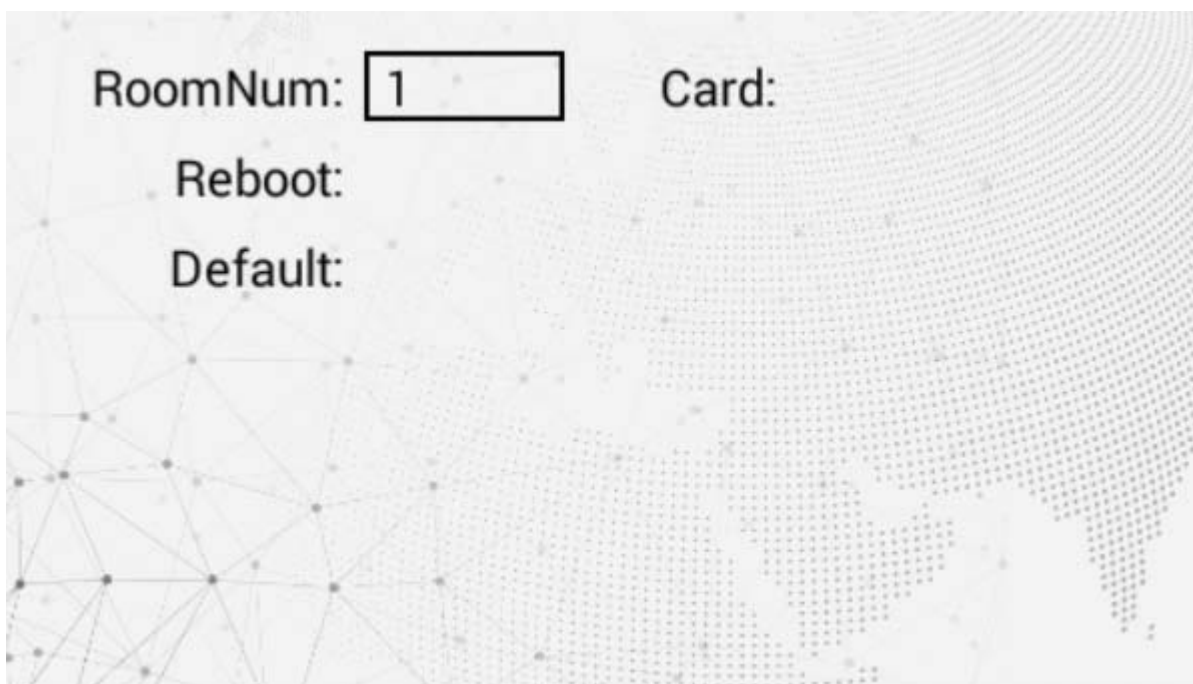
Delay: Time after which contacts of the panel relay will be closed or open (delay before unlocking).

Elev Refer: Floor number where the panel is installed (using elevator control module EVRC-IP, optional).

Password: Password to open the lock by entering the unlocking code on the panel keypad. To enter the password input mode, press the " " key, type the password and press " " again.

Additional settings

When you switch to Additional settings, the following interface will be displayed:



RoomNum: Apartment number to which access card must be linked.

Adding cards through graphical interface:

Enter the desired apartment number and wave the card in front of the area of the reader. A signal will sound from the panel, confirming that the card is registered, and a card number will be displayed in the Card field.

Reboot: Restart outdoor panel. To restart outdoor panel, it is necessary to enter " ", press "1", and then press " " again.

Default: Reset panel settings to factory settings. To reset outdoor panel, it is necessary to enter " ", press "1", and then press " " again.

Note that all cards will be removed from the panel memory when it is factory reset.

About system

Unable to render include or excerpt-include. Could not retrieve page.

Configuration through web interface

- [Login](#)(see page 15)
- [Dashboard](#)(see page 16)
- [Network](#)(see page 17)
- [Panel](#)(see page 18)
- [Apartments](#)(see page 21)
- [Access management](#)(see page 23)
 - [Identifiers](#)(see page 26)
 - [Access restrictions](#)(see page 27)
- [Forward](#)(see page 30)
- [Advanced](#)(see page 32)
- [Logs](#)(see page 36)
- [Security](#)(see page 36)
- [System](#)(see page 37)

Login

To configure the outdoor panel remotely through the Web-interface, you need to connect to it via an internet browser on the PC. The panel must be connected to the same network segment as the PC from which you plan to configure.

In the Internet browser, you must enter the IP address of the panel into the address input line. A window will then appear to enter the username and password.

Username to enter settings: **admin** or **manager**.

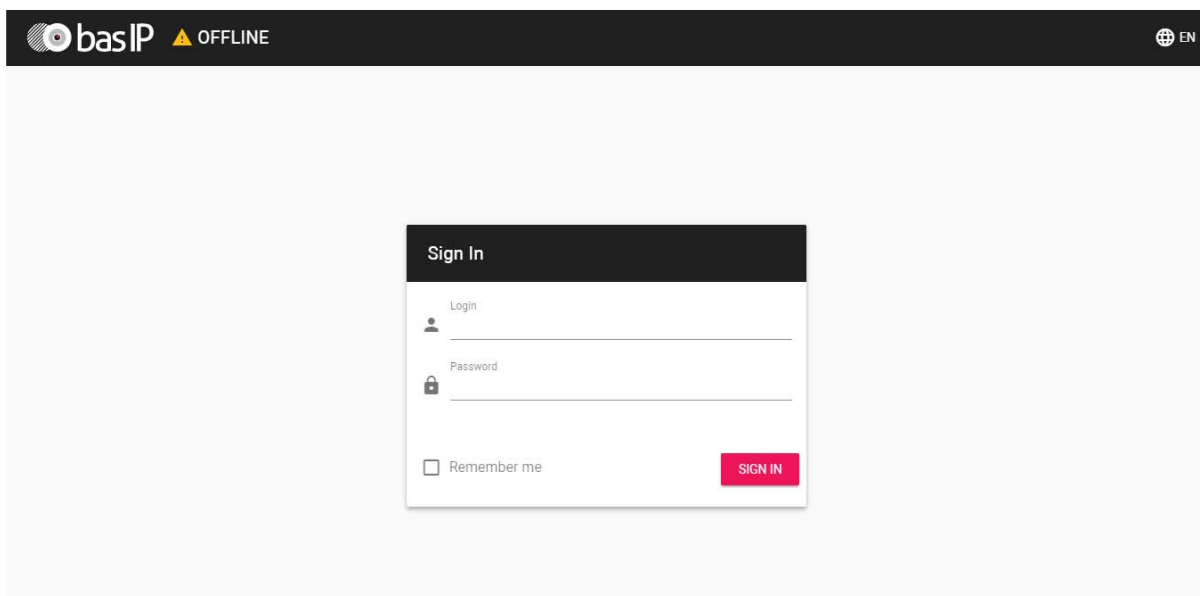
Administrator - has full access to all panel settings.

Manager - has access to the panel settings, but he has limited access to the access control menu. Such access is provided to installation organizations to install and configure the system.
Username: Select a user to change the password.

Default values:

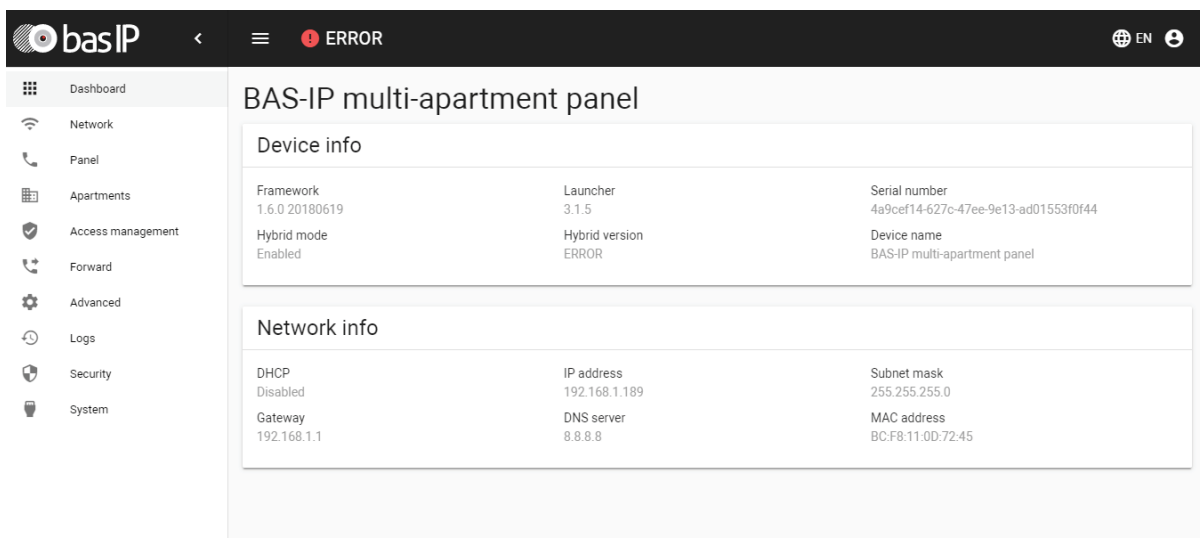
The default administrator password is **123456**.

The default password for the manager is **1234**.



Dashboard

After successful authorization, the following interface will be displayed:



Framework: Firmware version.

Launcher: Launcher version.

Hybrid Mode: The current connection mode of the hybrid adapter.

Hybrid Version: Hybrid adapter version.

Serial number: Serial number of the device.

Device name: Name of the device.

Network information

DHCP: The current state of the DHCP connection.

IP Address: The current IP address of the panel.

Subnet Mask: Subnet Mask.

Gateway Address: The address of the main gateway.

DNS server: DNS server address.

MAC address: MAC address of the panel.

Network

The screenshot shows the 'basIP' web interface for a multi-apartment panel. The top navigation bar includes the 'basIP' logo, a back arrow, a menu icon, an 'OFFLINE' status indicator, and language/user icons. A left sidebar lists various system functions: Dashboard, Network (selected), Panel, Apartments, Access management, Forward, Advanced, Logs, Security, and System. The main content area is titled 'BAS-IP multi-apartment panel' and contains two configuration sections. The 'Network Settings' section has a 'SUBMIT' button and includes a checkbox for 'DHCP'. Below this, there are input fields for 'IP' (192.168.1.75), 'Mask' (255.255.255.0), 'Gateway' (192.168.1.1), and 'DNS' (8.8.8.8). The 'Custom NTP' section also has a 'SUBMIT' button and includes a checkbox for 'NTP'. Below this, there are input fields for 'URL' (192.168.1.111) and 'Timezone' (UTC+02:00).

Network settings

DHCP: Enable/disable mode to get network settings automatically.

IP: Outdoor panel IP address.

Default values

By default, the outdoor panel can have a static IP address 192.168.1.90 or 192.168.1.91.

Mask: Subnet Mask.

Gateway: The main gateway.

DNS: DNS server address.

Custom NTP

NTP: Enable/disable the use of a custom NTP server.

URL: The input field for the user NTP server address.

Time Zone: Select the time zone.

Management system

Mode: Selects the operation mode of the panel control system.

URL: Management server address.

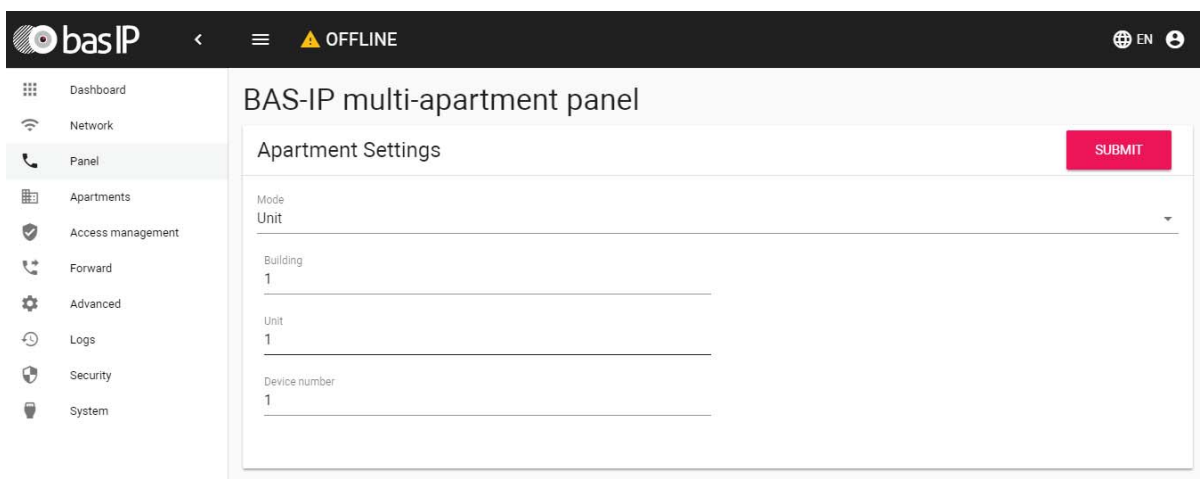
Password: Access password.

Send realtime logs to server: Enable/disable panel logging to server.

Send status to server: Enable/disable sending current panel status to server.

Panel

Apartment Settings



The screenshot shows the web interface for a BAS-IP multi-apartment panel. The top navigation bar includes the 'basIP' logo, a hamburger menu, a yellow triangle icon with the text 'OFFLINE', and a language selector set to 'EN'. A sidebar on the left contains icons and labels for various settings: Dashboard, Network, Panel (highlighted), Apartments, Access management, Forward, Advanced, Logs, Security, and System. The main content area is titled 'BAS-IP multi-apartment panel' and contains a form titled 'Apartment Settings' with a red 'SUBMIT' button. The form has three input fields: 'Mode' (a dropdown menu), 'Unit' (a text input field containing the value '1'), and 'Device number' (a text input field containing the value '1').

Mode: select operation mode of the panel.

Information about operation modes

If you select the **"Wall"** mode, you must enter 4 digits of the building number, 2 digits of the unit number, 2 digits of the floor number, and 2 digits of the apartment number to call the desired monitor.

If you select the **"Unit"** mode, you must enter only 2 digits of the floor number and 2 digits of the apartment number to call the desired monitor.

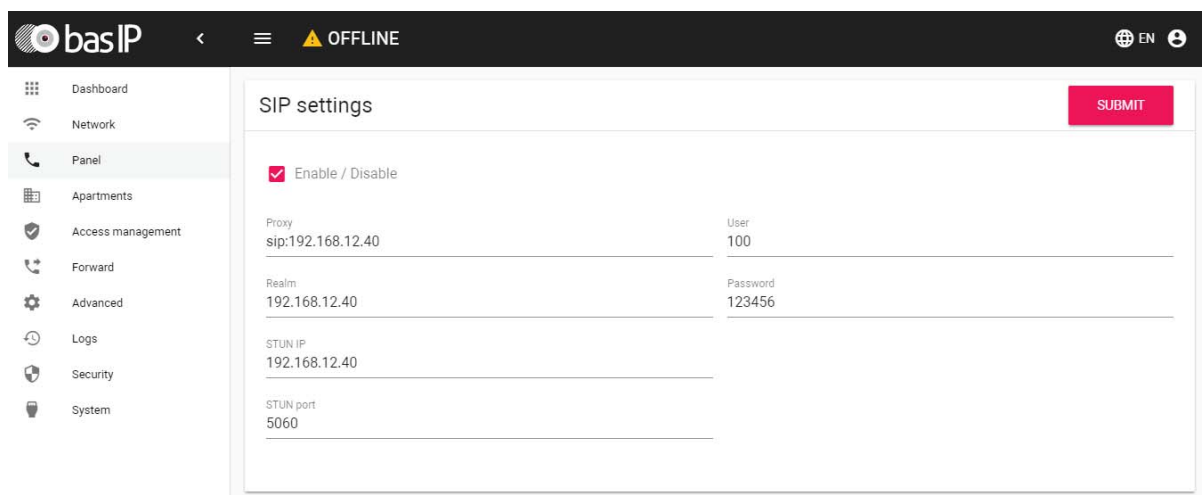
Building: Number of the building.

Unit: Unit number.

Device number: Device number of the outdoor panel.

If you have more than one outdoor panel you need to specify their device numbers, starting from 1 to 9.

SIP settings



The screenshot shows the basIP web interface. The top navigation bar includes the basIP logo, a hamburger menu, an 'OFFLINE' status indicator, and language/user icons. The left sidebar contains a list of menu items: Dashboard, Network, Panel (highlighted), Apartments, Access management, Forward, Advanced, Logs, Security, and System. The main content area is titled 'SIP settings' and features a 'SUBMIT' button in the top right corner. The settings are organized into sections: 'Enable / Disable' with a checked checkbox, 'Proxy' with a text field containing 'sip:192.168.12.40', 'User' with a text field containing '100', 'Realm' with a text field containing '192.168.12.40', 'Password' with a text field containing '123456', 'STUN IP' with a text field containing '192.168.12.40', and 'STUN port' with a text field containing '5060'.

Enable/Disable: Enable/disable SIP registration.

Proxy: A proxy SIP server that can be represented by both an IP address and a domain name.

Data format:

Before the proxy address, you must specify **"sip:"**.

Server: SIP server address.

Data format:

Can be represented by both an IP address and a domain name.

STUN IP: STUN server address.

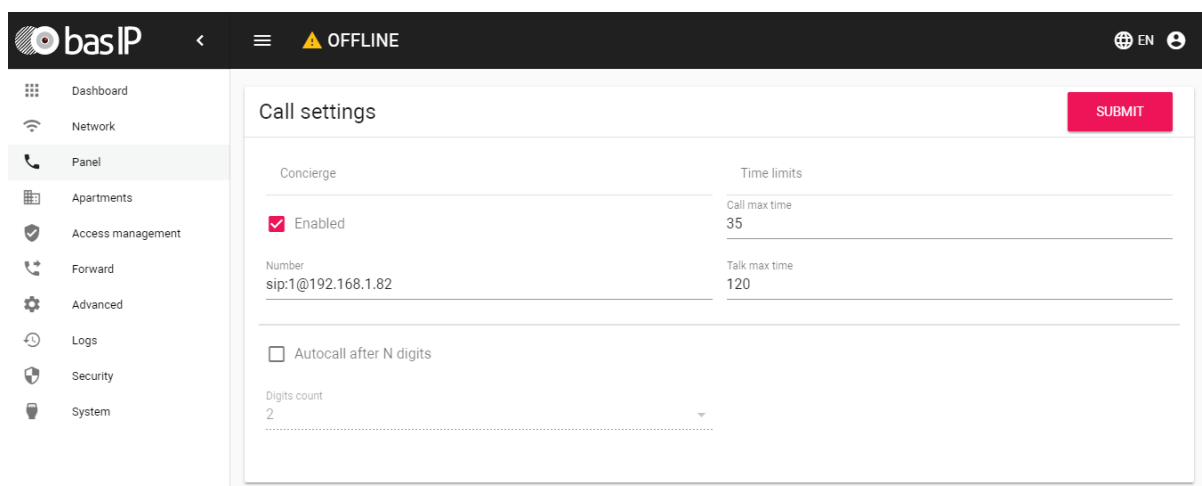
Example:
stun.l.google.com.

STUN port: The port of the STUN server.

Example:
For google STUN server 19302 port is used.

Password: Password of SIP number.

Call settings



The screenshot shows the 'basIP' web interface. The top header includes the logo, navigation icons, and a status indicator 'OFFLINE'. The left sidebar lists various system functions. The main content area is titled 'Call settings' and contains a 'SUBMIT' button. The settings are organized into sections: 'Concierge' with an 'Enabled' checkbox, 'Number' with the value 'sip:1@192.168.1.82', 'Time limits' with 'Call max time' set to 35 and 'Talk max time' set to 120, 'Autocall after N digits' with an unchecked checkbox, and 'Digits count' set to 2.

Concierge: Enable / disable the function to call the specified number in the "Number" line when pressing the concierge button.

Number: The direction to which the call will be made when pressing the concierge button.

If the function is not enabled, the concierge is called via an internal protocol. If the system has concierge monitors, the call will go to the main monitor. If he does not answer, the call will be transferred to the other monitors in the system.

Call max time: A time interval after which the panel automatically ends an outgoing call if there is no answer.

Talk max time: The time interval after which the panel automatically ends the outgoing conversation.

Auto call after N digits: The function of automatic dialing after entering the digits specified in the line "Number of digits".

Number of digits: Select the number of digits, which, when pressed, will automatically call from the panel.

Device settings

Device settings

SUBMIT

Video quality

1280x720

RTP data profile

102

Volume level

1

RTSP Username

user

RTSP Password

1234abcd

☒ Approximation sensor

Video quality: Select your preferred video resolution.

RTP data profile: Select your preferred RTP data profile.

Volume Level: Adjusts the speaker volume of the panel.

RTSP username: Login to get access to RTSP stream.

RTSP password: Password to get access to RTSP stream.

Approximation sensor: Enable/disable the approximation sensor, which turns on the keyboard backlight when triggered.

Apartments

This menu displays a list of apartments. An apartment is a logical entity intended to bind identifiers, access codes and redirection rules.

basIP

OFFLINE

EN

Dashboard

Network

Panel

Apartments

Access management

Forward

Advanced

Logs

Security

System

BAS-IP multi-apartment panel

Settings

SUBMIT

☒ Use the address book

Apartments

NEW APARTMENT

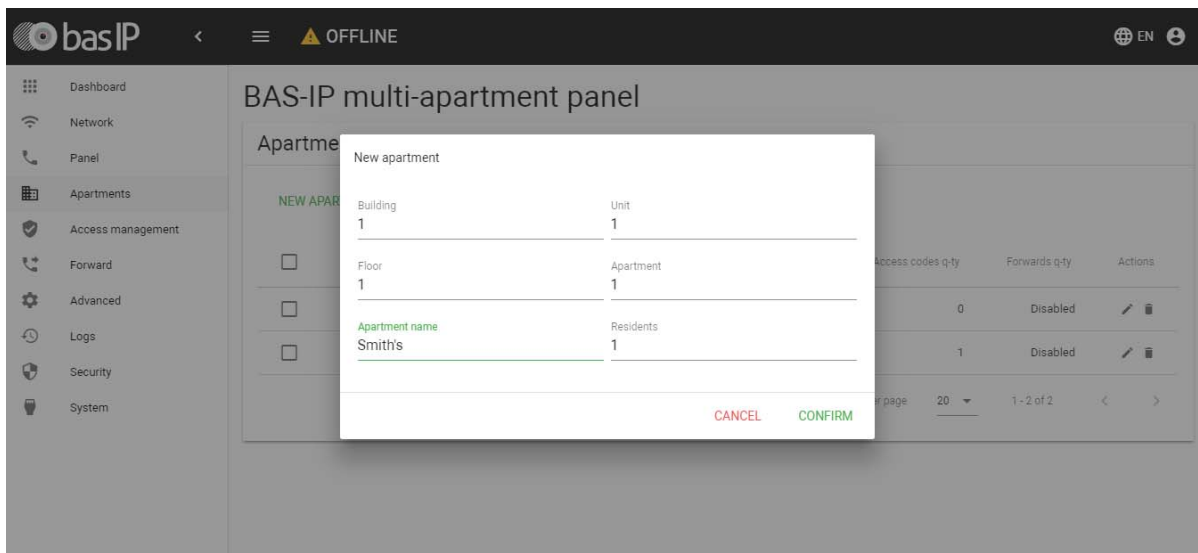
	Apartment address	Apartment name	Residents	Identifiers q-ty	Access codes q-ty	Forwards q-ty	Actions
☐	643-2-35-29	Apartment1706	26	0	0	Disabled	
☐	644-59-39-5	Apartment7807	59	0	0	Disabled	
☐	645-4-29-88	Apartment5495	64	0	0	Disabled	
☐	649-66-59-28	Apartment9933	60	0	0	Disabled	

Use the address book: Enable/disable usage of address book to search and call the apartments from the [main screen](#)³.

³ <https://wiki.bas-ip.com/aa07v4/en/main-screen-2754641.html>

New apartment

After clicking on the **"New apartment"** button, the following interface will be displayed:



The screenshot shows the 'BAS-IP multi-apartment panel' interface. A 'New apartment' dialog box is open, allowing the user to configure a new apartment. The dialog box contains the following fields:

Field	Value
Building	1
Unit	1
Floor	1
Apartment	1
Apartment name	Smith's
Residents	1

At the bottom of the dialog box, there are two buttons: 'CANCEL' (in red) and 'CONFIRM' (in green). The background interface shows a sidebar with various menu items like Dashboard, Network, Panel, Apartments, Access management, Forward, Advanced, Logs, Security, and System. The main area displays a table of existing apartments with columns for Access codes q-ty, Forwards q-ty, and Actions.

Building:

Building number
0001-9999

Unit:

Unit number:
00-99

Floor:

Floor number:
00-99

Apartment:

Apartment number:
01-99

Apartment name: Apartment name. For example, "Smith's"

Number of inhabitants: The conditional number of inhabitants who live in this apartment.

After clicking on the **"Confirm"** button, the following table will be displayed:

BAS-IP multi-apartment panel

Apartments

NEW APARTMENT

☐	Apartment address	Apartment name	Residents	Identifiers q-ty	Access codes q-ty	Forwards q-ty	Actions
☐	1-1-1-1	Smith's	1	1	0	Disabled	
☐	1-1-1-26	7898798	1	0	0	Disabled	
☐	2-3-1-23	23	1	0	1	Disabled	

Rows per page: 20 1 - 3 of 3

The table contains the following columns:

Apartment name: Apartment name.

Number of inhabitants: The conditional number of inhabitants in this apartment.

Number of identifiers: The number of identifiers that are issued for this apartment. Identifiers can be created in the **"Access management"** menu, tab **"Identifiers"**.

Number of access codes: The number of access codes issued for this apartment.

Number of redirects: The number of redirects configured for this apartment.

Actions: Editing or deleting an apartment.

Access management

In this menu, you can set general control parameters of the access control system, access rules and identifiers.

basIP < ≡ ⚠ OFFLINE EN

Dashboard
Network
Panel
Apartments
Access management
Forward
Advanced
Logs
Security
System

BAS-IP multi-apartment panel

COMMON SETTINGS IDENTIFIERS ACCESS RESTRICTIONS

Access management SUBMIT

Master card
8098534

☒ Use master code Master code
0000

Locks management SUBMIT

Lock #1

Lock open time(sec)	Lock open delay(sec)
3	2

Lock #2

Lock open time(sec)	Lock open delay(sec)
4	0

Common settings

Master card: Master card number.

Use master code: Enable/disable using master code to open the lock.

Master code: The code entered on the keypad for opening the lock.

When using the control module with two locks SH-42, when entering the master code on the panel, both locks will open.

Registering access cards via web interface

Enter 0 in the "Master Card" field and click the "Apply" button.

Next, bring the master card, necessary for registration, to the panel reader area - the text message "Admin Key" will be displayed and the signal "BEEP" will sound, which means that the master card has been successfully registered.

After that, in the area of the panel reader hold the user cards in turn. After each user card, the "BIP" signal will sound, which means the successful registration of the raised card. Also, the panel display shows that a new card has been added.

The time between adding cards should not exceed 10 seconds.

Locks management

The screenshot shows the basIP web interface. The top header includes the basIP logo, navigation icons, and a status indicator 'OFFLINE'. The left sidebar lists various system components: Dashboard, Network, Panel, Apartments, Access management (highlighted), Forward, Advanced, Logs, Security, and System. The main content area is divided into two sections: 'Locks management' and 'Open lock'. The 'Locks management' section contains two rows for 'Lock #1' and 'Lock #2', each with input fields for 'Lock open time(sec)' and 'Lock open delay(sec)'. The 'Open lock' section contains two rows for 'Lock #1' and 'Lock #2', each with a green 'OPEN LOCK' button. A red 'SUBMIT' button is located in the top right corner of the 'Locks management' section.

Lock #	Lock open time(sec)	Lock open delay(sec)
Lock #1	3	2
Lock #2	4	0

Lock #	Action
Lock #1	OPEN LOCK
Lock #2	OPEN LOCK

Lock #1, Lock #2

Lock open time (s): Time for which the panel relay contacts are closed or open.

Delay before opening: Time after which the contacts of the panel's relay will close or open.

Open lock

Lock #1, Lock #2

Open lock: The function of opening the selected lock from the panel WEB interface.

Additional settings

The screenshot shows the 'Additional settings' section of the basIP web interface. It contains a text input field for 'Floor number(elevator control)' with the value '12'. Below this is a checkbox labeled 'Monitor secure mode' which is currently unchecked. A red 'SUBMIT' button is located in the top right corner of the section.

Floor number (elevator control): The number of the floor on which the panel is installed for identification by the elevator module. The function works when using the appropriate elevator control module.

Monitor secure mode: Turns off the alarm on the internal monitor when you bring up a card that is connected to the logical address of this monitor.

Server manage access

Enabled: Turning on/off the panel operation mode, in which access cards and identifiers are not stored in the panel's memory and when placed to the reader, the panel will send a request to the server and wait for the answer - to give access or not.

Use a custom server: Enable/disable the use of custom server to control the panel.

Custom server server: The custom server URL address.

Identifiers

This menu displays a table of identifiers and access codes added to the multi-apartment panel memory.

basIP < ≡ OFFLINE

BAS-IP multi-apartment panel

COMMON SETTINGS IDENTIFIERS ACCESS RESTRICTIONS

NEW IDENTIFIER

☐	Apartment	Owner name	Owner type	Identifier type	Identifier number	Period restriction	Passes restriction	Lock #
☐		test	Owner	card	1111111	Infinitely	Infinitely	First

Rows per page 20 1 - 1 of 1 < >

New identifier

After clicking on the "New identifier" button, the following interface will appear:

The screenshot shows the 'New identifier' form in the basIP web interface. The form is titled 'New identifier' and contains the following fields:

- Apartment number:** 1-1-1 (Smith's)
- Owner name:** mr Smith
- Owner type:** Owner
- Identifier type:** Card
- Identifier number:** 12345678
- Access restrictions:** (Dropdown menu)
- Period restriction:** ☐
- Passes restriction:** ☐
- Lock #:** #1

The interface also shows a sidebar with navigation options: Dashboard, Network, Panel, Apartments, Access management, Forward, Advanced, Logs, Security, and System. The top bar indicates the system is 'OFFLINE' and the language is 'EN'.

Apartment number: Select an apartment from the existing list of apartments.

Name of the owner: Information about the owner of the identifier.

Owner Type: Select the type of owner ID. The Owner and Guest types are available.

Identifier Type: Select identifier Type.

There are 3 types of identifiers available:

Card - EM-Marin or Mifare card. In the next field "ID number" you must enter the ID number in decimal format, without comas. This ID usually is printed on the card. How to tranfer data from HEX to DEC described here.

UKEY - UKEY identifier. In the next field "ID number" you must enter the ID number in decimal format.

Access Code - the code to enter on the panel's keyboard. In the near field "Access Code", you must enter a digital code of no more than 30 characters.

Access Rule: Select an access rule from an existing list of rules.

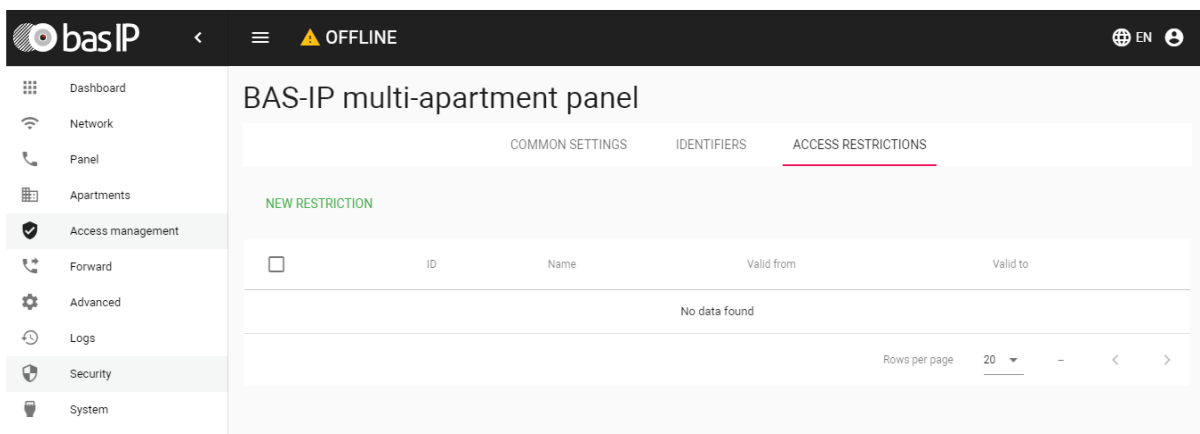
Expiration Time Limit: The expiration time of an identifier.

Pass limit: The number of passes for an identifier.

Lock #: Select the lock to open.

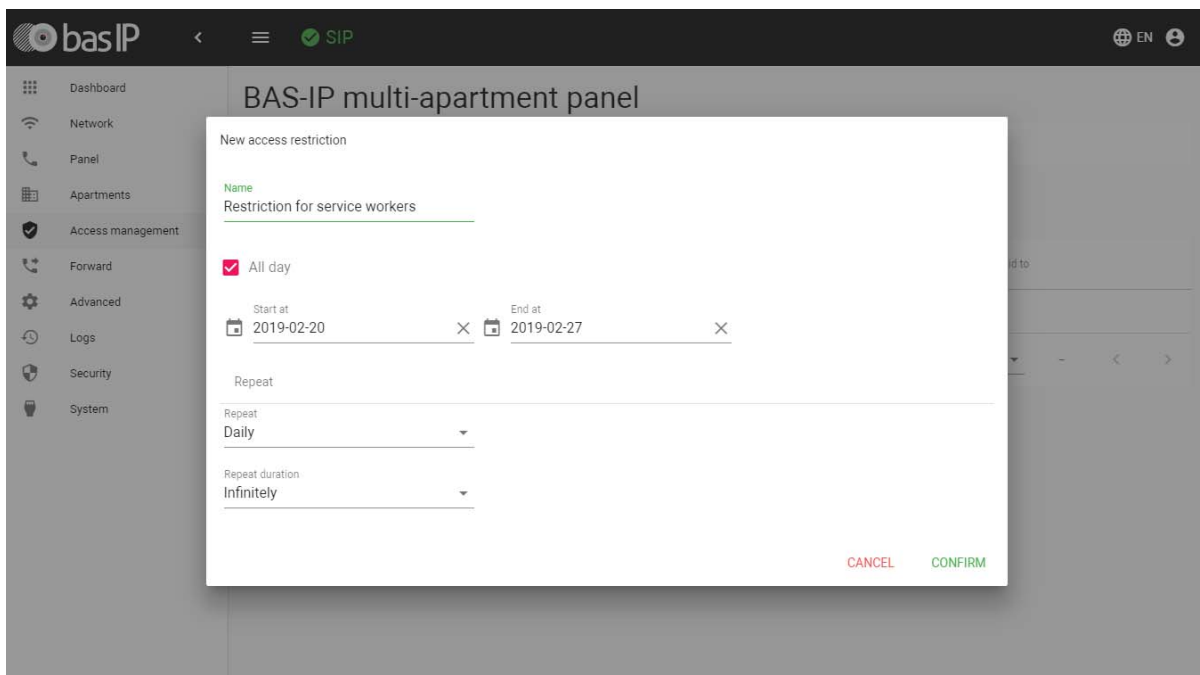
Access restrictions

In this menu, the access restrictions are set, according to which the level of access of various users and their identifiers will be determined.



New restriction

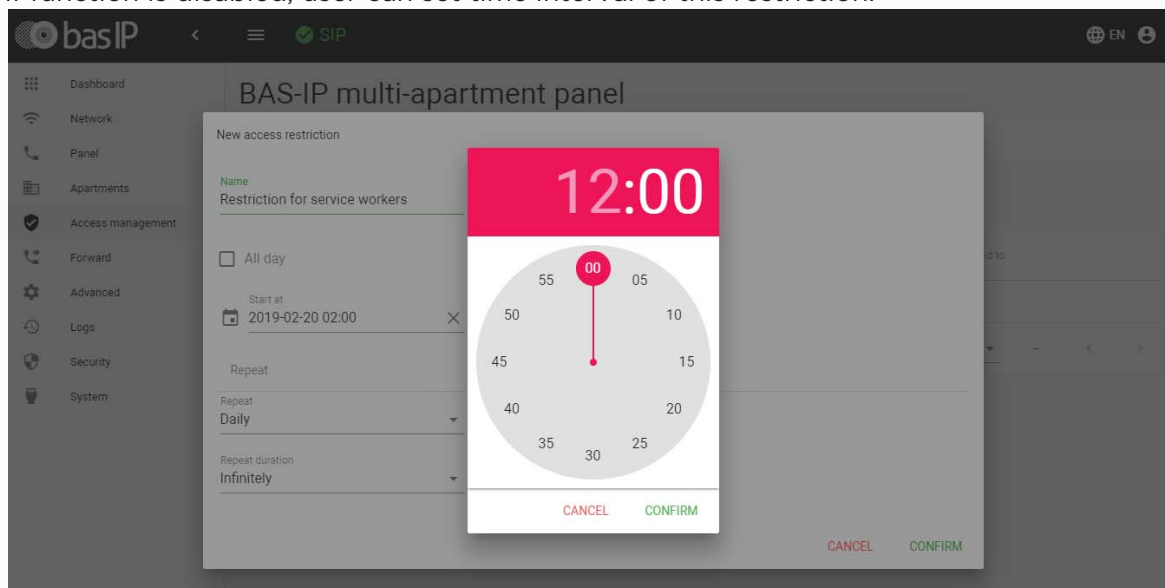
After clicking on the "New restriction" button, the following interface will appear:



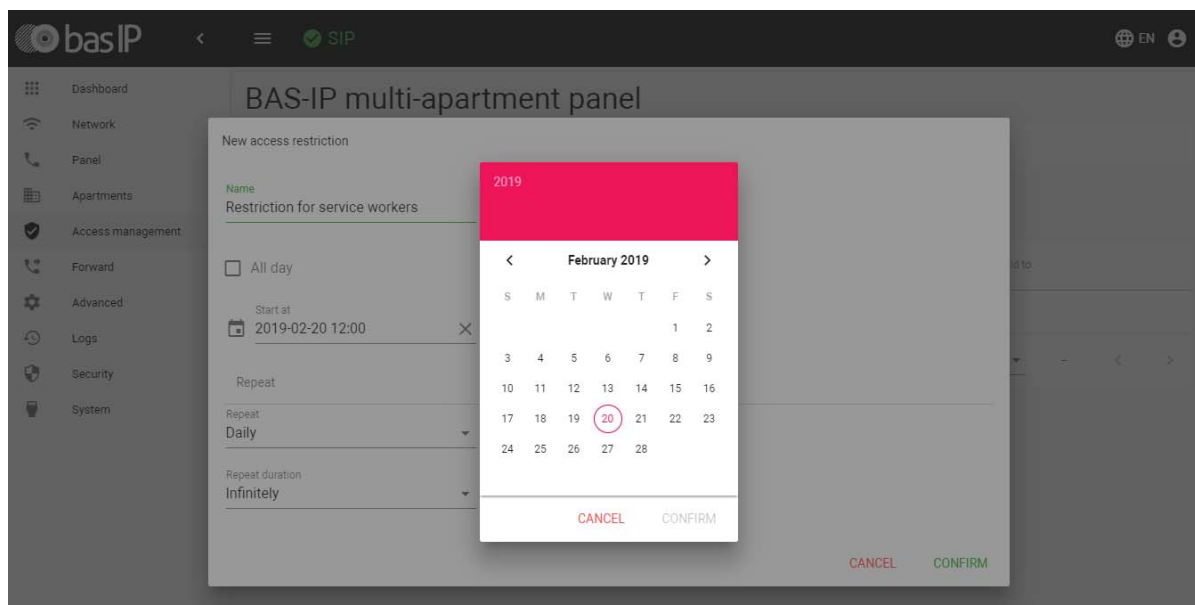
Name: The name of the rule.

All day: Enable/disable the time restriction interval per day.

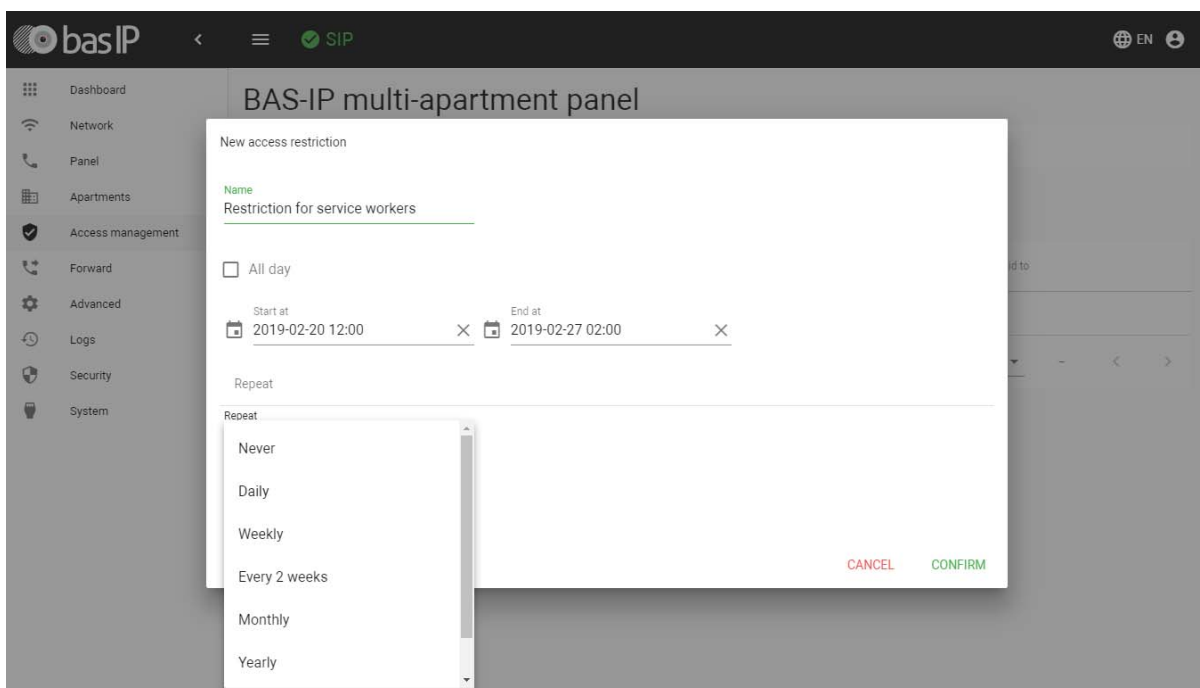
If function is disabled, user can set time interval of this restriction.



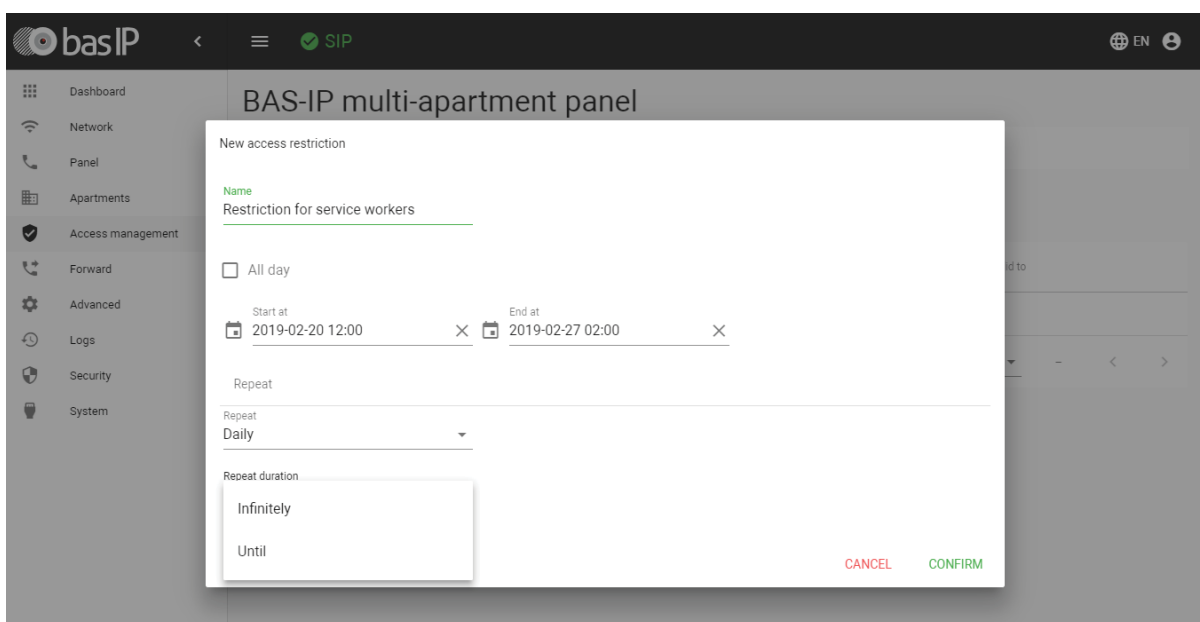
Start at - End at: Select the interval of action for this restriction.



Repeat: Specify the duration of repetitions of this restriction.



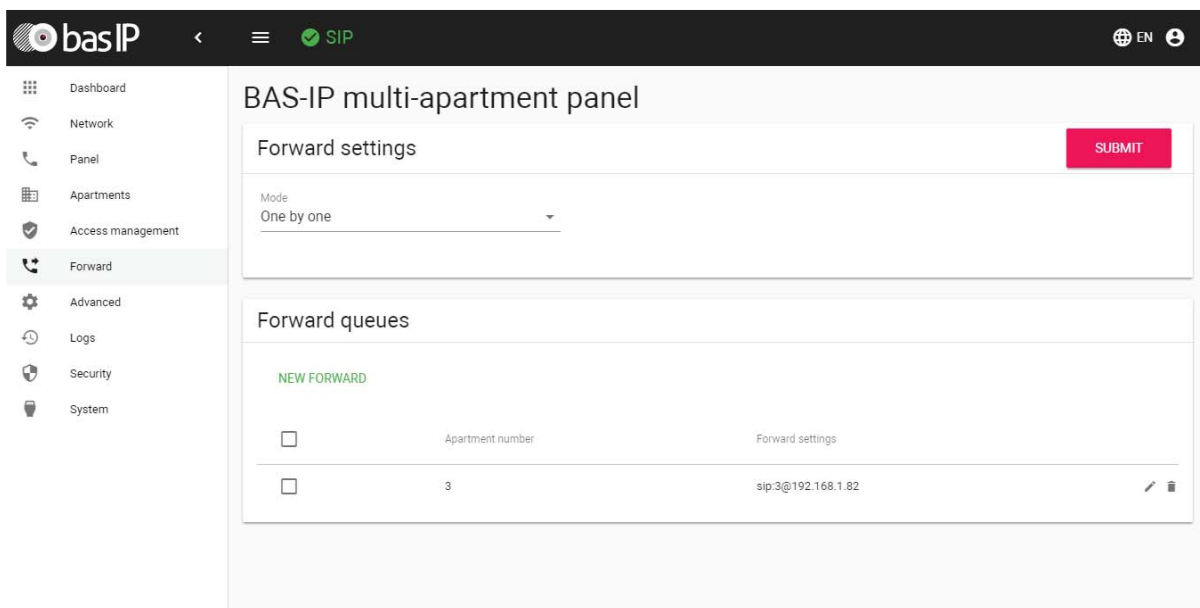
Duration of repetitions: Select the number of repetitions of this restriction.



If you select the "Infinitely" option, rule will always act. If you select the "Until" option, you can set the end date for the action of this restriction.

Forward

This section is used to substitute numbers by panel when making calls to internal monitors when there is no monitor or it is turned off, or to any given SIP number.



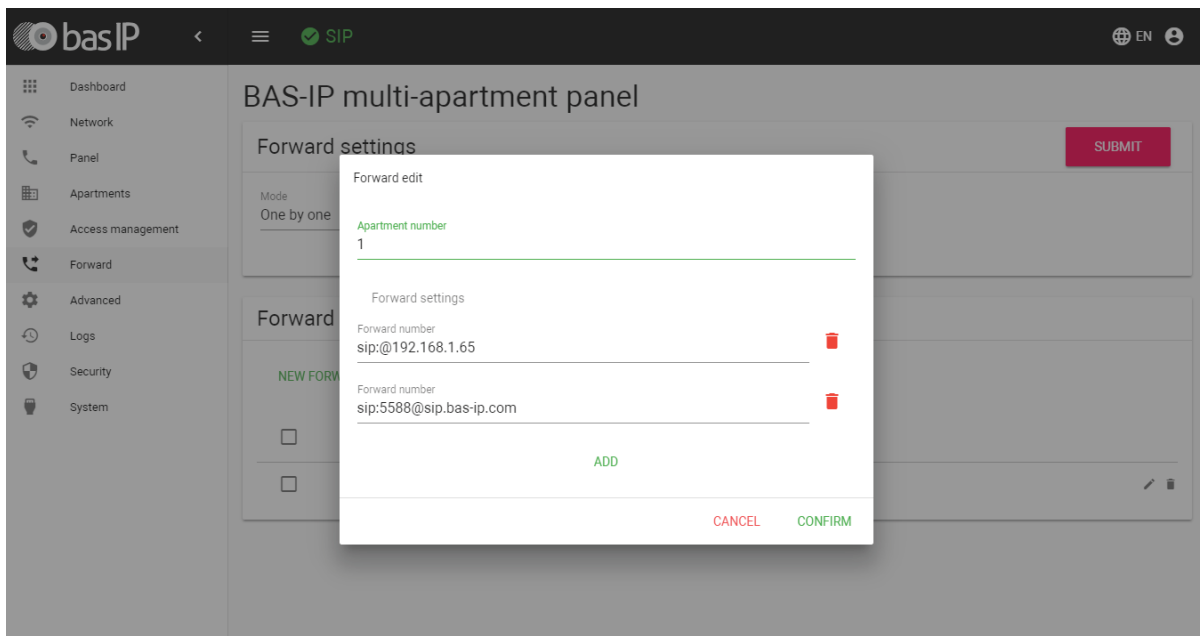
Mode: Mode of the forwarding.

All at once - the call is made to all numbers simultaneously.

One by one - the call is made to the numbers in turn with a delay of 20 seconds.

New forward queue

After clicking on the "New Forward" button, the following interface will be displayed:



Apartment number: Number dialed on the panel's keypad.

Forward Number: The direction in which the call will be made when you enter the corresponding number on the keypad. It can be used both for calls within the LAN via P2P, and for SIP calls.

Input format for internal calls

sip:1@192.168.1.65, where **1** is the desired number to be displayed by the called party, **192.168.1.65** is the IP address of the called SIP client (in the case of using a softphone, the IP address of the device where the softphone is installed).

Call to SP-02:

sip:192.168.1.99, where **192.168.1.99** is the IP address of the called handset.

Input format for SIP calls

sip:5588@sip.bas-ip.com, where **5588** is the SIP number of the device being called, **sip.bas-ip.com** is the address of the SIP server, which can be specified either by the IP address or by the domain name.

Advanced

This section is used to substitute the advanced settings of the panel.

The screenshot shows the 'BAS-IP multi-apartment panel' web interface. The top navigation bar includes the 'basIP' logo, a hamburger menu, and an 'OFFLINE' status indicator. A sidebar on the left lists various settings: Dashboard, Network, Panel, Apartments, Access management, Forward, Advanced (selected), Logs, Security, and System. The main content area is titled 'BAS-IP multi-apartment panel' and contains an 'Announcement' section. This section has a 'SUBMIT' button and a form with the following fields: 'Announcement' (text input), 'Enabled' (checkbox), 'URL' (text input with the value 'http://192.168.1.75'), and 'Timeout' (text input with the value '10').

Announcement

Enabled: Enable/disable displaying announcement (HTTP page or RTSP stream) in standby mode.

URL: The URL of the displayed HTTP page or RTSP stream.

Timeout: The timeout for advertising (10 - 300 minutes).

RTSP Feed

The function of viewing additional IP cameras during a call (up to 4 streams). This feature is available for v4 monitors and any other SIP devices with a keyboard.

The screenshot shows the basIP web interface. On the left is a sidebar menu with options: Dashboard, Network, Panel, Apartments, Access management, Forward, Advanced (selected), Logs, Security, and System. The main content area has two sections:

- RTSP feed:** Includes a 'SUBMIT' button, 'Total count: 1', 'ADD' and 'REMOVE ALL' buttons, a URL input field containing 'rtsp://admin:123456@192.168.1.169:8554/ch01', and a 'REMOVE' button.
- Custom notifications:** Includes a 'SUBMIT' button, 'Required audio file options' (Format: wav, Channels: mono, Bit rates: 16, Sample Rate: 8000 Hz), 'Keys pressing' section with checkboxes for 'Message text' and 'File' (both checked), and input fields for 'Message text' (containing 'Call: Apartment № -> # Concierge: 0000 -> # Open: # -> Code -> # C') and 'File' (containing 'press.wav').

During a call, it is possible to switch between streams by pressing keys from **1** to **5** in the monitor menu. The key **"1"** corresponds to the stream of the outdoor panel, the keys from **"2"** to **"5"** - to additionally added streams (transmission is carried out by DTMF RFC2833).

URL: URL of the RTSP stream which could be displayed during a call.

Example:
rtsp://admin:123@192.168.1.189:8554/ch01

Custom notifications

Window for editing user notifications for various actions.

During activation of various triggers, the panel displays text on the display and plays an audio message.

In this menu, the text and sound file for each action can be changed to custom.

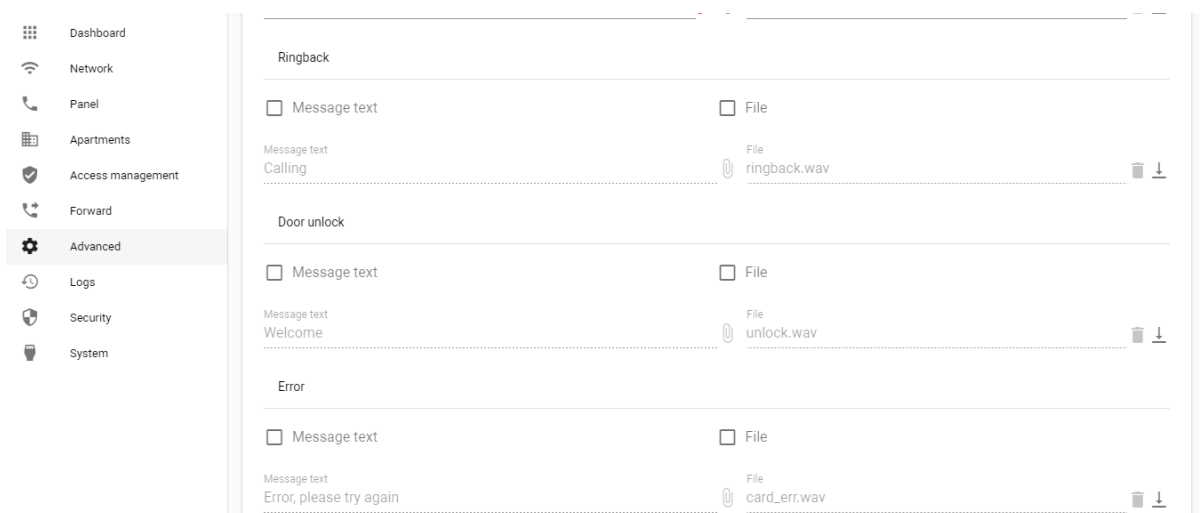
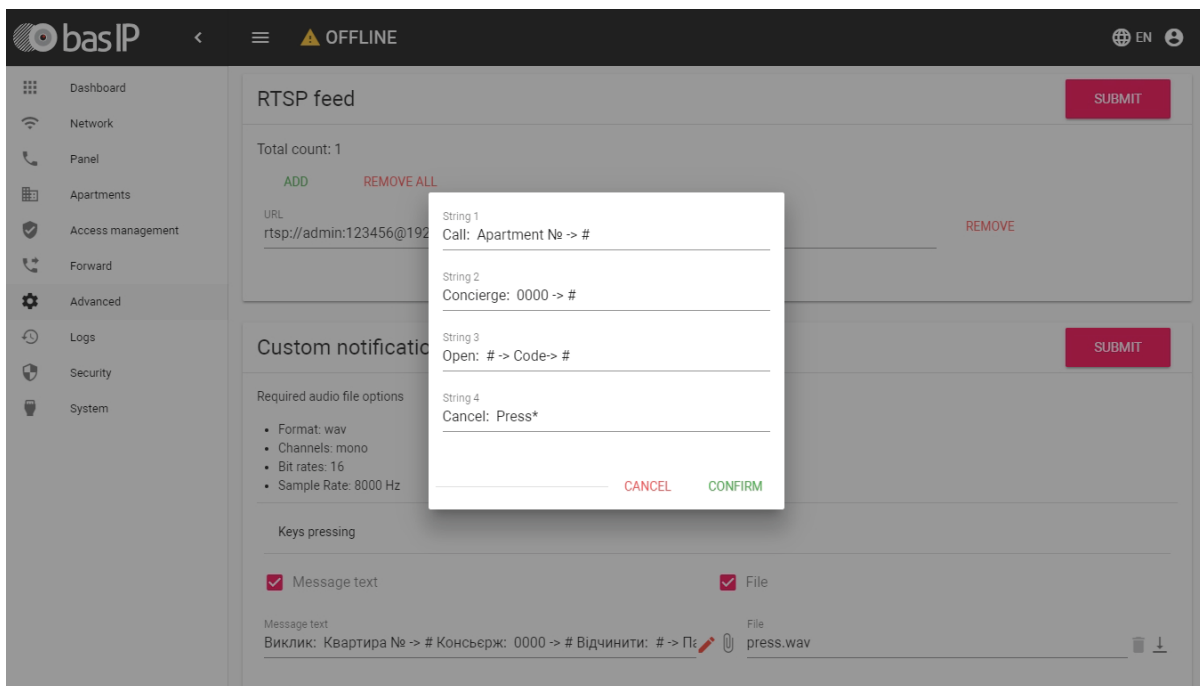
Also there is an ability to change the text displayed on the main screen of the panel.

Required audio file options

- Format: wav
- Channels: mono
- Bit rates: 16
- Sample Rate: 8000 Hz

Key pressing: Sound when you press the panel keys.

Message text: The text displayed on the main panel screen. In this field you can enter, for example, the number of the concierge for communication or the name of the residential complex.



Ring back: Sound and text message "Calling" when panel make an outgoing call.

Door unlock: Sound and the text message "Welcome" when panel receive a signal to open the lock.

Error: Sound and text message "Error" when entering an unregistered subscriber number, the lock opening code and the presentation of an unregistered identifier.

Emergency

☐ Message text
 ☐ File

Message text
 124

☐ File

Emergency: Sound and text alert "Alarm!" when switching the panel to emergency mode. Switching occurs programmatically through BAS-IP Link or through third-party software using API.

In emergency mode, locks connected to the panel are also opened.

If any of the functions is turned off, the standard sound and the standard text message will be used.

Logs

In this section all actions what happened with a panel are displayed.

< ☰ ⚠️ OFFLINE
🌐 EN 👤

- Dashboard
- Network
- Panel
- Apartments
- Access management
- Forward
- Advanced
- Logs**
- Security
- System

BAS-IP multi-apartment panel

Log

FILTERS

From

To

Column

Condition

Value

Date/time	Category	Priority	Event	Info
2019-02-19 10:57:52	System	Medium	Login to the web interface	Successful (admin) login to the web interface
2019-02-19 10:49:19	Pass	Medium	General access code entered	
2019-02-19 10:48:34	System	Medium	Login to the web interface	Successful (admin) login to the web interface
2019-02-19 10:47:32	Pass	Medium	General access code entered	
2019-02-19 10:44:09	System	Medium	Login to the web interface	Successful (admin) login to the web interface
2019-02-19 10:42:12	Pass	Medium	General access code entered	
2019-02-19 10:41:46	System	Medium	Login to the web interface	Successful (admin) login to the web interface

Security

In this section you can change admin and manager password.

The screenshot shows the BAS-IP multi-apartment panel web interface. The top header includes the basIP logo, a menu icon, an 'OFFLINE' status indicator, and language/user icons. A left sidebar contains navigation links: Dashboard, Network, Panel, Apartments, Access management, Forward, Advanced, Logs, Security (highlighted), and System. The main content area is titled 'BAS-IP multi-apartment panel' and contains a 'Passwords management' form. The form has a 'SUBMIT' button in the top right. It includes a 'Username' dropdown menu currently set to 'Admin'. Below this are three password fields: 'Old', 'New', and 'Confirm'. Each field has a red error message below it stating 'Should be alphanumeric'.

Administrator - has full access to all panel settings.

Manager - has access to the panel settings, but he has limited access to the access control menu. Typically, access to this account is provided to installers to install and configure the system.

The manager can only change the manager's password.
The administrator can change the manager password and the administrator password.

Old password: The field to enter the current password.

The default administrator password is **123456**.
The default password for the manager is **1234**.

New password: The field to enter a new password.

Confirm: The field to confirm the new password.

System

In this section, backup and restoration of the panel settings, software update, language change and software reboot are performed.

basIP < ≡ OFFLINE

Dashboard, Network, Panel, Apartments, Access management, Forward, Advanced, Logs, Security, System

BAS-IP multi-apartment panel

Settings

Restore settings

Choose file

Save settings

Device language

Language
English

Settings

Choose file: Selecting the panel configuration file from the PC file system.

Set default settings: Reset all panel settings to factory defaults.

Backup all settings: Save and export configuration files.

basIP < ≡ OFFLINE

Dashboard, Network, Panel, Apartments, Access management, Forward, Advanced, Logs, Security, System

Device language

Language
English

Firmware upgrade

☒ Use custom server

Custom server
https://cdn.bas-ip.com/files/Software/Firmware_v4/test/

Choose file

Export/Import data

The screenshot shows the basIP web interface. The top navigation bar includes the basIP logo, a back arrow, a menu icon, an 'ERROR' status indicator, and language/user icons. A left sidebar lists navigation options: Dashboard, Network, Panel, Apartments, Access management, Forward, Advanced, Logs, Security, and System. The main content area is divided into two sections. The 'Export/import data' section contains an 'Import data' area with a 'Choose file' button and a 'CONFIRM' button, and an 'Export data' area with a 'DOWNLOAD' button. The 'Device language' section features a dropdown menu currently set to 'English' and a 'SUBMIT' button.

Choose file: Choosing the path to the backup file in the PC's filesystem.

When importing data into the panel, all data in the **Apartments**, **Forward**, **Identifiers** and **Access restrictions** tables will be deleted and replaced with new data without the possibility of restoring old data.

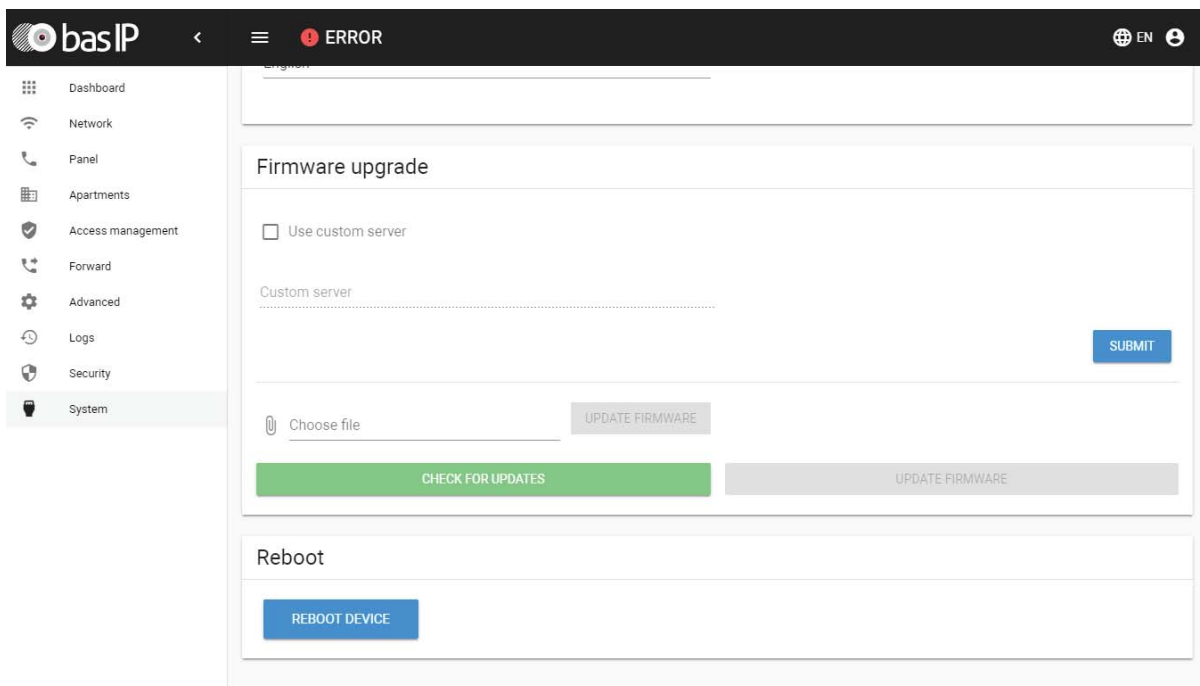
Export data: Makes an export of time profiles, identifiers, forwards and apartments data.

When exporting data from the panel, a secured ZIP archive is created, which contains all data from the **Apartments**, **Forward**, **Identifiers** and **Access restrictions** tables.

Device language

Choosing the language of the device.

Software upgrade



Use custom server: Enable/disable use of custom update server. Used in closed intercom networks.

Custom server: The input field for the IP address or domain of the custom update server.

Select file: Select software update file from PC file system. After selecting the file, you must click on the "Update Software" button.

Check for update: Check for software update on BAS-IP server or user server.

Update software: Start software update.

IMPORTANT:

Before each software update it is necessary to create a backup copy of the panel settings.

Features of the system backup:

When updating the system via WEB or a graphical interface, a backup copy of all applications installed on the call panel is automatically created, and all configuration files are saved. Each subsequent update will overwrite the backup file. The system creates a backup of all panel settings, passwords, user notifications, SIP settings, lock settings, network settings, panel operation mode.

Reboot

Reboot: Soft reset of the panel.

Installation and connection

This page describes the process of installation and connection of the outdoor panel.

- [Completeness check of the product](#)(see page 41)
- [Electrical connection](#)(see page 41)
- [Mechanical mounting](#)(see page 45)
- [Connection of additional modules](#)(see page 46)

Completeness check of the product

Before installation of the outdoor panel, it is necessary to check that it is complete and all components are available.

Outdoor panel kit includes:

Outdoor panel	1 pcs
Flush mount bracket	1 pcs
Installation instructions	1 pcs
Set of wires with connectors for connection of power supply, lock, and additional modules.	1 pcs
A set of plugs for connections	1 pcs
Wrench set screws	1 pcs

Electrical connection

After verifying whether a device is complete, you can switch to the connection step.

For connection you will need:

- An Ethernet UTP CAT5 or higher cable connected to a network switch/router.

Cable length recommendations

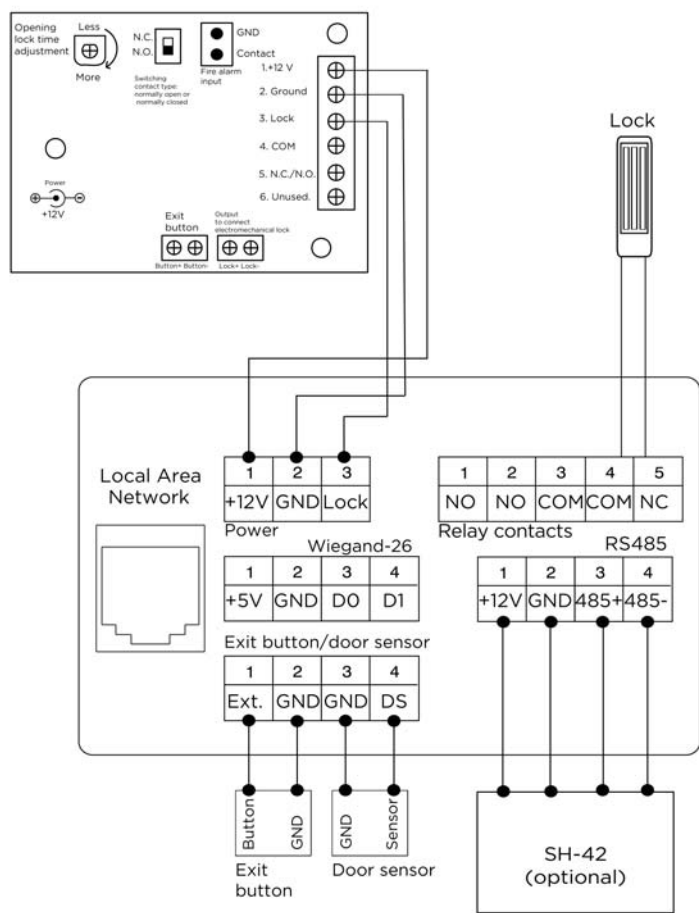
The maximum length of the UTP CAT5 cable segment should not exceed 100 meters, according to the IEEE 802.3 standard.

- Power supply at + 12V, 2 amps.
- Wires must be brought for connecting the lock and additional modules (optional).

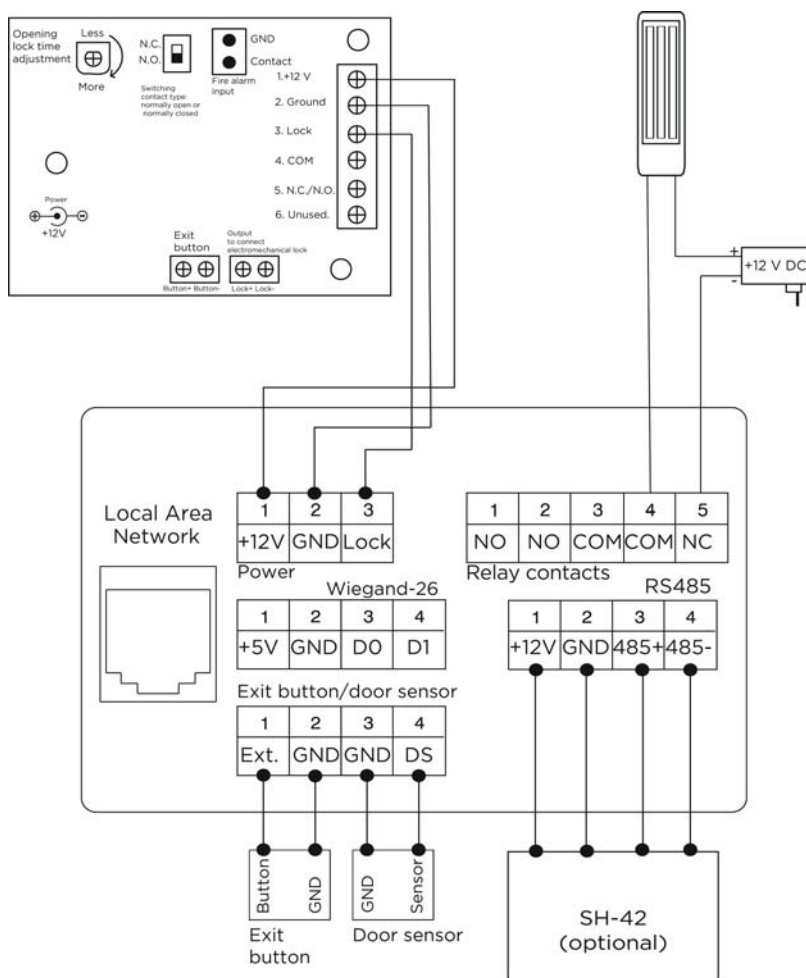
You can connect any type of electromechanical or electromagnetic lock for which the switched current does not exceed 5 Amps.

The following are typical connection schemes of all elements to the outdoor panel:

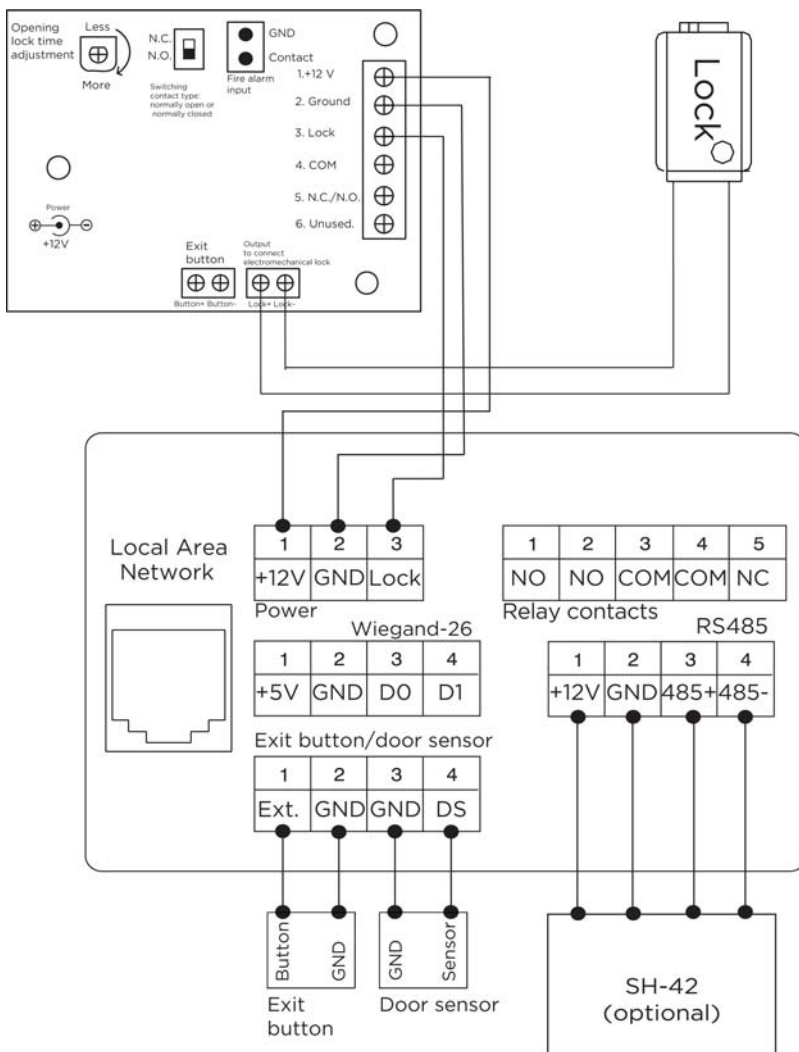
1. Connection scheme of electromagnetic lock using uninterruptible power supply UPS-DP-S.



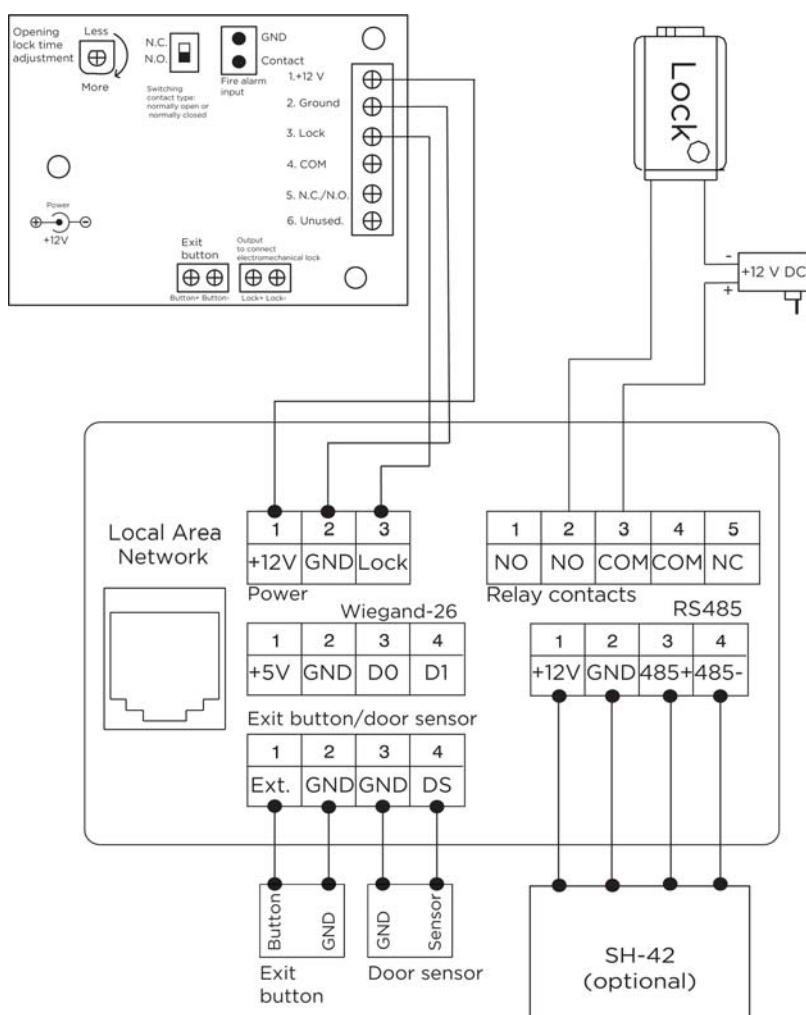
2. Connection scheme of electromagnetic lock using third-party power supply for the lock.



3. Connection scheme of electromechanical lock using uninterruptible power supply UPS-DP-S.



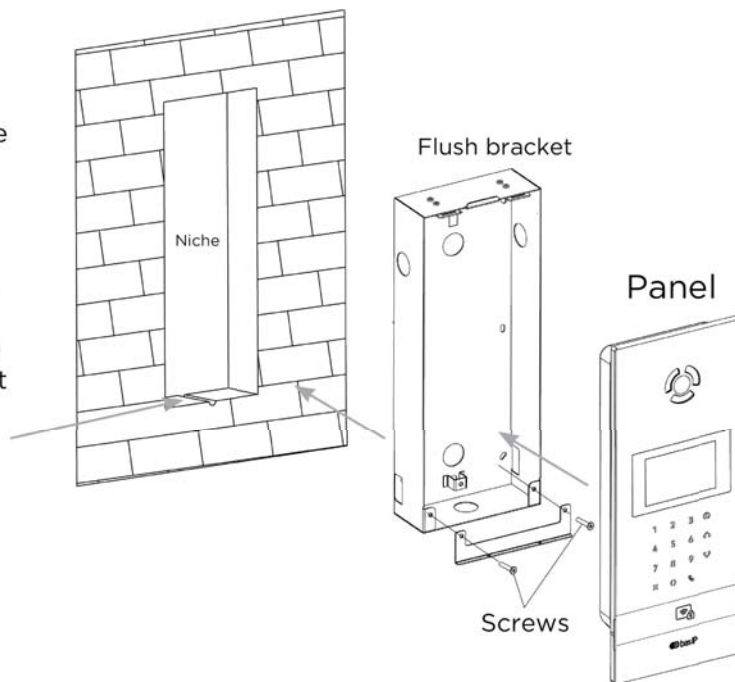
3. Connection scheme of electromechanical lock using third party power supply for the lock.



Mechanical mounting

Before installation of the outdoor panel it is necessary to provide a hole or a recess into a wall with dimensions 141×359×58 mm (for flush mount) dimensions of the bracket (mounting box) = 140×358×57 mm. It is also necessary to provide supply of a power cable, additional modules and the local network.

Attention: The hole at the bottom of the bracket is designed to drain the water, do not intentionally close it. Also it is necessary to make a drain for water at the bottom of the niche which will serve to divert water out.



Installation height recommendations:

The outdoor panel should be installed at a convenient height for you. Approximate height of installation is 160-165 cm of the camera level.

Connection of additional modules

The following modules can be connected to all multi-apartment panels:

- Module to control two locks SH-42
- Module to control elevator equipment EVRC-IP
- Multifunction reader with the support of UKEY technology BME-03

Device usage

- [UKEY mobile access](#)(see page 47)
- [Receiving the RTSP stream from the panel's camera](#)(see page 51)

UKEY mobile access

Description

Ukey Mobile Access from BAS-IP is a universal technology for gaining access to the premises or to the territory of an object with the possibility to use in one reader simultaneously: EM-Marine cards and MIFARE/encrypted cards MIFARE Plus/MIFARE Classic, cell phone (Bluetooth and NFC).

Advantages of UKEY:

- Ability to use several standards of identification simultaneously: EM-Marine, MIFARE, Bluetooth and NFC
- Ability to use a cell phone as an identifier
- Adjustable range of mobile identifier (when using Bluetooth)
- Low power consumption
- A special encryption algorithm for mobile IDs and MIFARE Plus cards
- Ability to apply to any types of objects
- Ability to install UKEY Mobile access in previously acquired outdoor panels
- Convenience in use

Working principle

Identification and unlocking is possible due to the presence of the built-in module BME-03 in the panels, supporting UKEY Mobile Access.

Multi-format Module BME-03 which can be equipped with all the outdoor panels BAS-IP with a built-in reader, allows you to identify the user by the UKEY technology using different identifiers (cards, pendants, cell phone), and performs the role of universal reader of access control system.

Mobile access with [UKEY application](#)⁴

⁴ <https://wiki.bas-ip.com/basipidapp>

For users' ease of operation with BAS-IP outdoor panels equipped with multi-format readers, the company BAS-IP has released a new mobile Ukey application which, after receiving the mobile ID, is used to open the doors/gates/parking gate arms.

For each outdoor panel equipped with a reader module with support for UKEY Mobile access, a different range of the mobile ID can be configured, in the range of 2 centimeters to 10 meters. The response distance depends not only on the selected mode, but also on the thickness of the walls in the room, weather conditions (when placing the panel outside) and other factors.

Operation modes (operational range of mobile ID):

- Touch (working distance up to 2 centimeters)
- Door (working distance up to 1 meter)
- Gate/barrier (adjustable distance from 0,5 meters to 10 meters)

Triple-clicking setup in UKEY Cfg application

Application abilities:

- Adjusting operating mode of EM-Marin cards, MIFARE and BLE (Bluetooth Low energy) - enable/disable standards of reading
- Setting encryption for UKEY identifier. This will enable you to link the encrypted ID key to the selected reader
- Enable/disable encrypting mode in MIFARE Classic and MIFARE Plus cards
- Enable diversification for MIFARE Classic and MIFARE Plus cards
- Adjusting sound confirmation when waving mobile identifiers near the reader in standby and reader mode
- Setting operating mode: door, touch, gate/barrier
- Adjusting range operating mode when select gate/barrier mode
- In connection with reader TR-03, a configurator allows you to record MIFARE Classic and MIFARE Plus encryption cards
- Storing a file with settings for defining reader
- Ability to download configuration file with settings for restoring reader parameters and copying settings to other readers

Ways to get the mobile ID and access card

Scan QR-code with the UKEY Application

The user submits an application to purchase the required number of QR-codes to the administrator of his service company, wherein one QR-code = one mobile device. Afterward, the

user gets the QR-code in the printed form or in electronic form (by e-mail, Viber, Telegram, etc.). Then the user scans the code received or imports it from the file system and thus gets the mobile ID.

Before the identifier is issued to the user as a QR-code, it is recorded by the administrator of the management company in the Management Software. The QR code cannot be reused on multiple cell phones, as it is linked to only one mobile device, providing a high level of reliability and security of mobile identifiers. You cannot copy or duplicate an identifier.

Using BAS-IP TR-03B reader

In order for the administrator of the management company to be able to use TR-03B to issue mobile identifiers or to record access cards, it is necessary to specify the master-card, which will be needed for the reader to work in the future. The Master- card is specified when the reader is first started.

Create a master card:

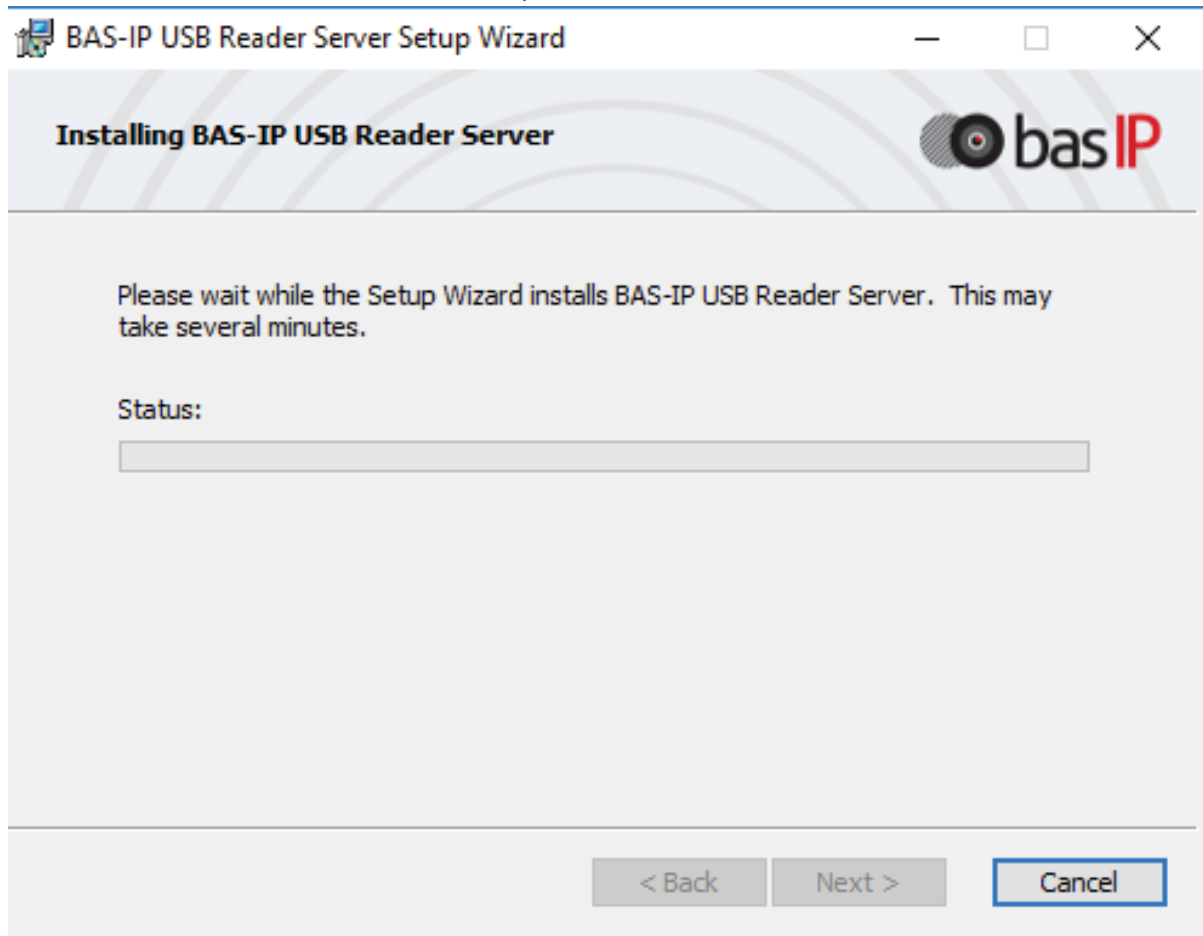
1. Download and install UKEY Cfg mobile application;
2. Connect TR-03B reader to the power source +5V (USB);
3. Launch UKEY Cfg app and press Search button;
4. The app will find the reader, it is necessary to enter the settings, More menu, then Change master-card tab;
5. Bring EM-Marin card or MIFARE to the reader;
6. Reader will make a record to the card with encryption, after that it becomes a master-card to this reader;
7. To keep on working with the reader, you should reconnect to it in the UKEY Cfg App.
8. For more details about the features of the desktop reader, follow the link

Once the master-card has been created, the administrator can issue mobile ID's as well as add encrypted keys to MIFARE Plus cards.

Obtain Mobile IDs using TR-03B

1. Download and install UKEY mobile application;

2. Install and launch the program on a PC with the Windows Family OS to write the identifiers "BAS-IP USB Reader Server";



3. Connect the reader to PC;
4. Bring a master-card to the reader;
5. Bring a cell phone to the reader (make sure Bluetooth is on) and enter UKEY App, then press Obtain button or select Obtain BAS-IP TR-03 key.
6. The reader will transmit a mobile ID to your cell phone, thus "Your key is ready" will appear in the app.

 Clear

 Copy

 Save

Receiving the RTSP stream from the panel's camera

To get the RTSP stream from the camera of the call panel to the video surveillance system, you need to put in the add line of the camera <rtsp://admin:123456@192.168.1.16:8554/ch01>, where **admin** is the login, **123456** is the password to access the WEB interface, **192.168.1.16** is the IP address of the panel, **8554** is the port of access to the camera, **ch01** is the channel number.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.