BAB TECHNOLOGIE GmbH

INTERCOMMODULE
Documentation

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EN

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1 INTRODUCTION

We would like congratulate you for purchase of the new **INTERCOM**MODULE and we would like thank you for your trust. That you're able to cope right with the new device from the beginning, we recommend that you carefully read the operating manual.

That's how you get to know the **INTERCOM**MODULE quickly and comprehensively. In addition, the operating manual is given you advices for installing and using your new device.

BAB TECHNOLOGIE

Figure 1: INTERCOMMODULE IP

Product name:	**INTERCOM**MODULE IP
Usage:	The **INTERCOM**MODULE (ICM) provides the connection between an IP-capable video intercom system and a visualization application, such as CONTROL L based on EIB**PORT** or a client, equipped with the CONTROL **T** 2 software. Optional with KNX/TP interface (in preparation)
Mounting:	DIN rail mounting
Article number:	10582 (IP)

1.1 FUNCTION OVERVIEW

With the **INTERCOM**MODULE it will be able to display on a Computer via Software CONTROL **T** 2 an IP-capable video door-station system. In connection with the EIB**PORT** or **CUBEVISION**MODULE there is possibility, through the integrated visualizations on e.g. touch screen, receiving the sound and video image of a video door-station and also controlling these.

The **INTERCOM**MODULE is intended for usage in small systems and can provide up to 18 outdoor intercom stations and 18 indoor stations.

A special feature of the **INTERCOM**MODULE is that video door intercom station cab be mixed from different manufacturers.

1.2 **INTERCOM**MODULE **OPERATING PRINCIPLES**

The **INTERCOM**MODULE is an application server for video and VoIP (Voice over IP) based on the open-source software FreeSWITCH. SIP compatible control units can communicate with it.
It is important to distinguish whether the video door station is a SIP server or a SIP client. The SIP port 5060 is enabled for external communication of the **INTERCOM**MODULE.

A SIP server is e.g., the ABB Welcome. The ABB Welcome has an IP gateway (83342) that works as a server where it is required to be log in (at the **INTERCOM**MODULE).
Other intercom systems, such as the DoorBird or 2N only work as a client and therefore it isn't required to be explicitly configured in the **INTERCOM**MODULE.

The **INTERCOM**MODULE supports both SIP client and SIP server video door station. Thus, intercom door station can be operated in both versions as "client mode" as well as "server mode".

a) Currently supporting "Client Mode" video door stations:
   - Manufacturer DoorBird (Generic type, anonymous client mode)
   - Manufacturer 2N (Generic type, anonymous client mode)
   - Manufacturer AGFEO (Generic type, registered client mode)
   - Manufacturer MOBOTIX (Generic type, registered client mode)
   - Manufacturer AKUVOX (e.g., R20A and R27A)
   - Manufacturer Comelit (GATEWAY MASTER ViP 1456)

b) Currently supporting "Server mode" video door stations:
   - Manufacturer ABB / Busch-Jaeger Welcome together with the IP Gateway 83342
   - Manufacturer KOCH with SIP-GATEWAY AVS2100
   - Manufacturer Siedle (Smart Gateway SG150)

As indoor intercom station will be installed the software CONTROL **T** 2 on Windows Touch Panel PCs. The Touch Panel PC must be equipped with microphone and loudspeaker. To improve the voice quality, we recommend the use of a DSP chip (Digital Sound Processor) with echo and noise cancelling.

Another indoor intercom station is used the EIB**PORT**. The configuration for the EIB**PORT** is done by a TOKEN, which is generated by the **INTERCOM**MODULE. Thus, the intercom function can be used for CONTROL L. Other applications such as for **CUBEVISION**MODULE are still in the development progress.

Due to automatic configuration, automatically generated clients emerge in the configuration of the **INTERCOM**MODULE which are not editable but only erasable. The maximum number of clients is 18. It should be noted that the **INTERCOM**MODULE does not automatically delete automatically logged on clients. By repeatedly deleting the browser cache of the CONTROL L it can happen that the maximum number is reached and no new clients are accepted. Then the user himself has to remove clients in the **INTERCOM**MODULE.

1.3 TECHNICAL DATA

Article No. 10582 (IP)

- Operating voltage: 12–32V DC
- Typical power consumption: 300 mA / 12 V DC
- Power consumption: <= 5 W
- Connection: Power supplier over screw-type terminal
- Resistant to climate: EN 50090-2-2
- Ambient temperature: –5 to + 35 °C
- Rel. humidity (non-condensing): 5 % to 80 %

Mechanical data

- Mounting: DIN-rail housing 4 units
- Dimensions (W * H * D) in mm: 72 x 90 x 63
- Housing: Plastic
- Protection class: IP20 (according to EN 60529)

Interfaces:

- Ethernet over RJ45-feamle connector

Specific features

Software requirement

- Operating system: independent
- Communication: Network interface
- Browser: current standard browser

1.4 SCOPE OF DELIVERY AND INTERFACES

The **INTERCOM**MODULE will be delivered in carton with the following contents:

- 1x **INTERCOM**MODULE
- 1x screw-type terminal 2-way power supplier

A power supply unit for the device is NOT included in the scope of delivery!

In addition to the connection for the power supply (**12-32 V DC**), the **INTERCOM**MODULE has the following interfaces

- 1x RJ 45: Ethernet 100Mbit/s Full Duplex
- 4x USB-terminal (not supported)

Factory setting by delivery

- IP-address 192.168.1.221
- User name admin
- Password admin
- Device Name **INTERCOM**MODULE

2 MOUNTING INTERCOMMODULE IP

The device on picture is the **INTERCOM**MODULE IP, DIN-rail housing 4 units. Dimensions (width x height x depth): 70 x 90 x 63 mm

- So that the power supply can be connected easily, the screw-type terminals (see figure below) can be taken off.
- Now the cable of the power supply is connected to the screw-type terminals (see figure below). Please observe the polarity!
- Next, the screw-type terminals can be inserted again on the **INTERCOM**MODULE.
- Now the device can be snapped onto the DIN rail, according to DIN EN 60715.

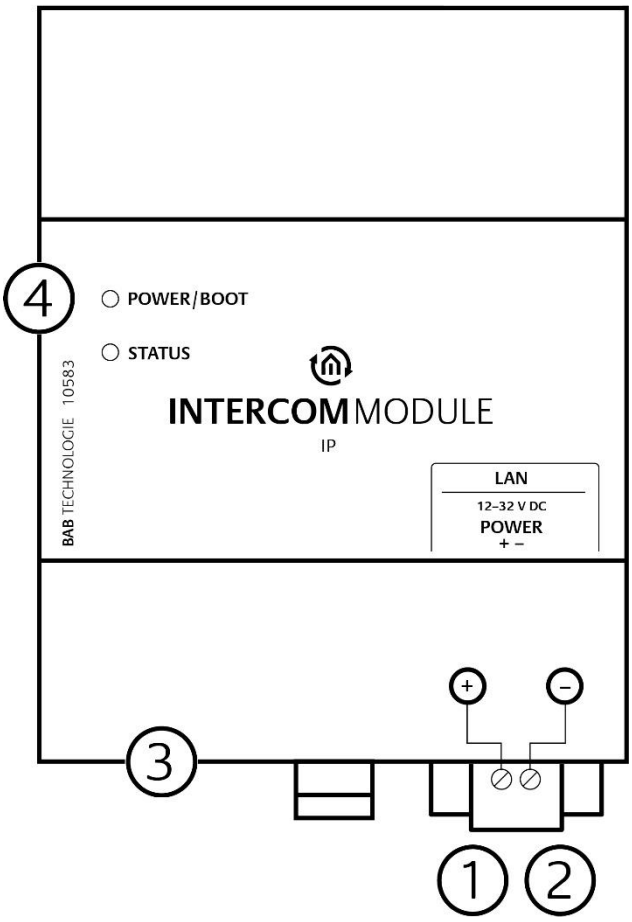


Figure 2: Connection drawing INTERCOMMODULE

	INTERCOMMODULE **features**
(1)	Power supplier via screw-type terminal 12-32V DC
(2)	RJ45-female connector for Ethernet LAN
(3)	USB-terminal (not in use)
(4)	Power / Boot LED

2.1 LED STATUS

The **INTERCOM**MODULE has two DUO LEDs ("Power / Boot" and "Status"). Each DUO LED has one green and one red LED. The upper LED is for power / boot, the lower LED is the status LED.

POWER / BOOT LED

LED display	Status
OFF	The device is not ready for operation. No operating voltage is supplied
GREEN	The device is ready for operation.
Flashing ORANGE	The device is booting.

STATUS-LED

LED display	Status
OFF	The device is booting.
Flashing GREEN	The device has been started; the LED simulates a "heartbeat". The flashing interval increases depending on the device utilisation.

Explanation:
The green "Power/Boot" LED lights up as soon as the **INTERCOM**MODULE is supplied with power. Two or three seconds after the power supply has been switched on, this LED also starts to flash red (flashing orange) until the booting process has been completed. Then the LED is permanently illuminated green, while the "Status" LED flashes green (simulates a "heartbeat"). The flashing frequency increases depending on the device utilisation.

The **INTERCOM**MODULE takes for starting approx. **2 minutes** for starting.

3 INITIAL OPERATION

If the **INTERCOM**MODULE has been mounted and started as described in chapter "*Mounting*", now can be continued the commissioning as specified below.

Factory setting by delivery:

IP-address	192.168.1.221
Subnet mask	255.255.255.0
Username	admin
Password	admin
Device name	**INTERCOM**MODULE

Note: The password must be changed immediately when logging in for the first time. If the password is lost, the device cannot be reset!

3.1 LANGUAGE

Web interface

The language used for the **INTERCOM**MODULE web interface is based on the language set in the browser. German and English are currently available in the **INTERCOM**MODULE. If the browser is set to a language other than German or English, English is displayed in the **INTERCOM**MODULE interface.

3.2 SYSTEM REQUIREMENTS

- Current browser (e.g., Firefox, Chrome, Safari etc.)

  Do not use Internet Explorer

3.3 ESTABLISHING CONNECTIONS

In order to configure the **INTERCOM**MODULE, a current browser and a network connection to the device are required. If the device is in the condition of delivery, it can be accessed at the above-mentioned IP address and the network settings must be adjusted to the address range, where necessary. Please follow the information given in the chapter "*Adjusting the network setting of your computer*" for this purpose.

3.3.1 BAB STARTER

If you do not know the network settings of the device, the BAB STARTER can help you to find out with which IP address the device is available. The software is available for Windows and MAC systems and can be found on the supplied CD or at www.bab-tec.de in the download section. For detailed information, please observe the separate documentation with respect to BAB STARTER!

BAB STARTER INSTALLATION

For Microsoft Windows, you receive a *.zip file to download. For MAC OS X, a *.mpkg file is available.

Note: A detailed description for BAB STARTER can be found in the related documentation on the supplied CD or can be downloaded at www.bab-tec.de.

Windows Installation

- Run "BAB_STARTER_[Version]_setup.exe" to start the installation.
- Follow the instructions in the InstallShield Wizard and click on "Continue".
- In the end, confirm the installation with "Finish".

Thereafter, the BAB STARTER can be found in the Windows Start menu folder "BAB TECHNOLOGIE GmbH".

MAC OS Installation

- Double click on "BAB STARTER_[Version].mpkg".

Note: It is possible that your system will advise you of a non-verified developer. In this regard, please note the information on the "Apple Gatekeeper"; see:
https://support.apple.com/de-de/HT202491 (as of 5 October 2015)

- Follow the instructions of the installation process and click on "Continue" to continue the installation.

The message "The installation was successful" confirms the successful installation. The BAB STARTER icon now appears in the "Programs" folder.

RUN BAB STARTER

Click on the BAB STARTER program icon to start the application

Figure 3: BAB STARTER icon

Note: With BAB STARTER, it is also possible to start the CUBEVISION Editor and EnOcean Editor separate from the search for devices described below, irrespective of whether a local Java Virtual Machine (JVM) is installed!

To display all active BAB devices in the network, click on the "Search for Devices..." menu after you have called up the STARTER.

Figure 4: BAB STARTER – start menu

DEVICES IN THE FOREIGN NETWORK AREA

Whether a device is in the network area of your computer is highlighted by the contrast intensity of the entries. If the entry is displayed with low contrast, the device is not in the same network area (subnet) and cannot be reached without changes.

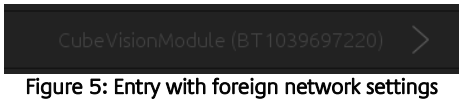


Figure 5: Entry with foreign network settings

To learn more about the network settings of the device, click on the respective entry and then on "Details".

The following display shows the serial number, firmware, IP address (host) and net mask (display not implemented).

Figure 6: Display of the device details

- To bring the device into the network area of your computer, please proceed as described in chapter "Adjusting the network settings of your computer".

DEVICES IN THE SAME NETWORK AREA

If the text is not greyed out, this means that the device is in the same network area (subnet) and can be accessed immediately.

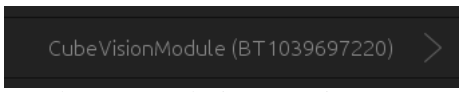


Figure 7: Entry in the same subnet area

Click on the entry so that the next menu opens.

3.3.2 ADJUSTING THE NETWORK SETTINGS OF YOUR COMPUTER

In order to adjust the network settings of your computer and establish a connection to the device, please proceed as described below:

- Open the IP address settings (under Windows 7):
- Click "Start Button" --> "Control Panel" --> "Network"
- Select "Network Connection", then "LAN Connection" ("Intel PRO1000 GT" in the figure below).

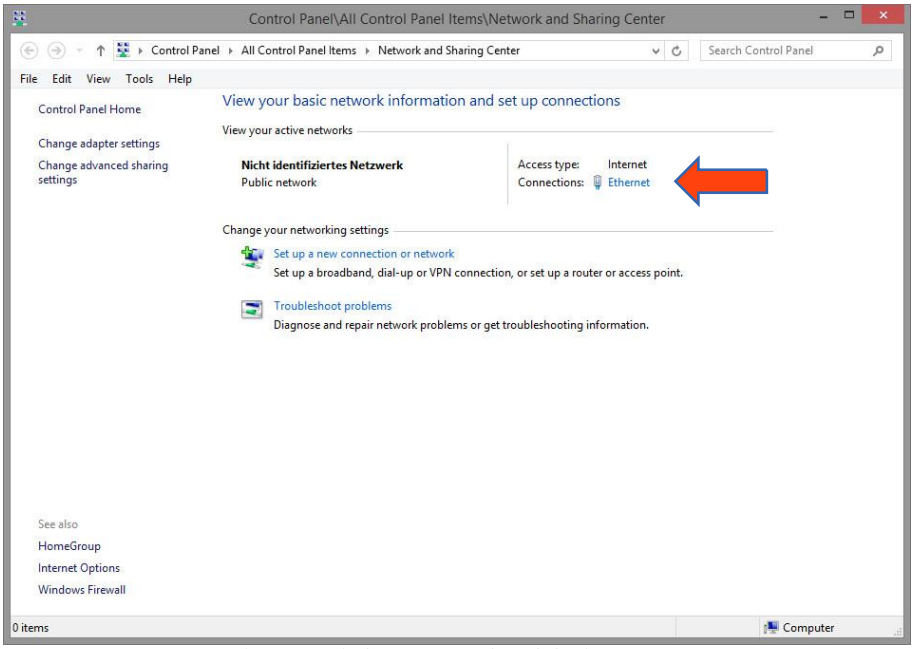


Figure 8: Windows - network and sharing centre

- Then click "Properties":

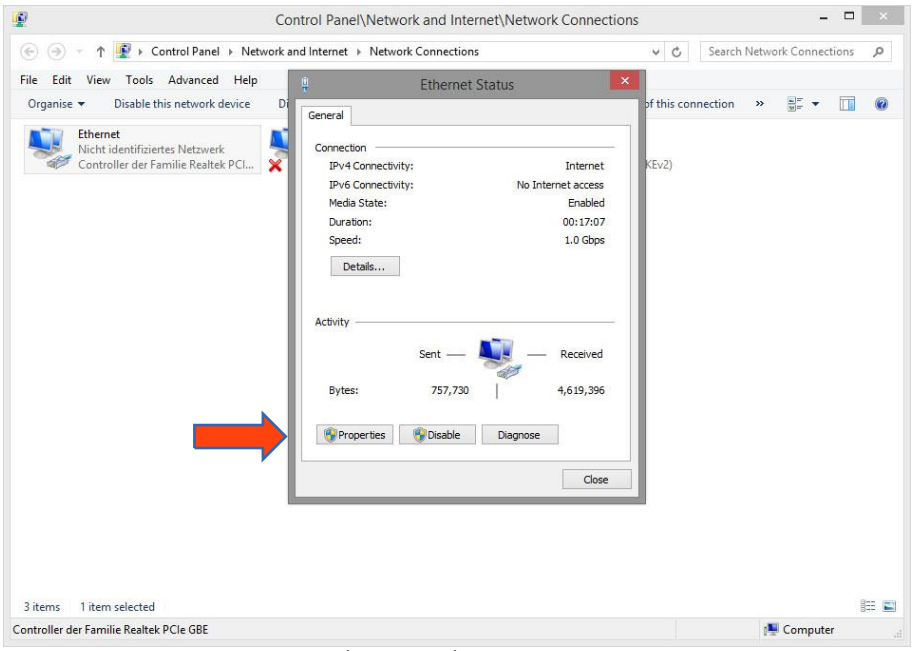


Figure 9: „Ethernet“status

- Select "Internet protocol Version 4 (TCP/IPv4)" and click "Properties" again:

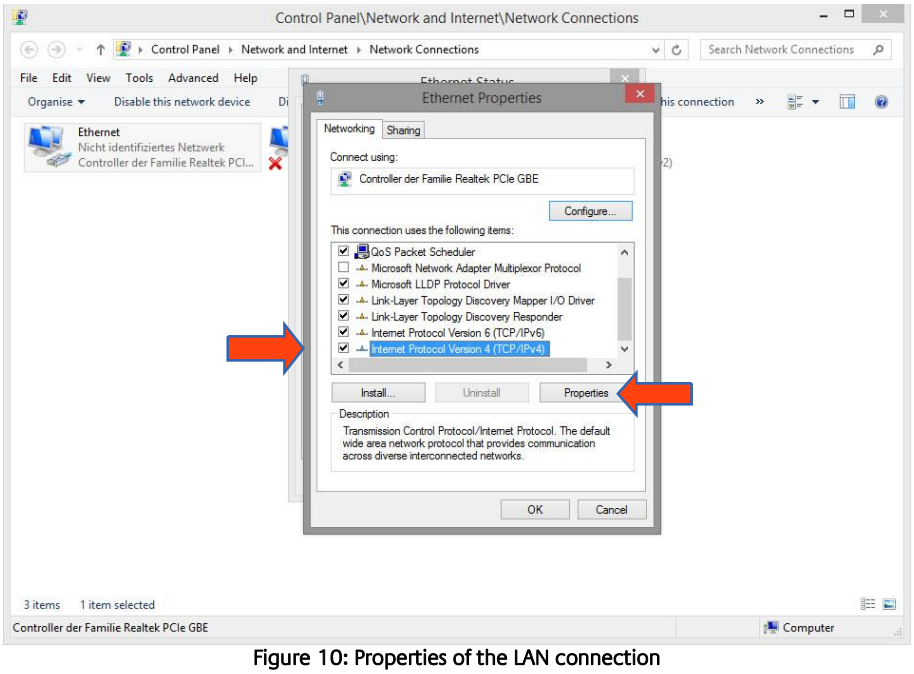


Figure 10: Properties of the LAN connection

- Now note down the current IP address settings or take a screenshot in order to ensure that you can reset the IP address setting following the configuration of the **INTERCOM**MODULE.
- Now change the IP address settings (IP address and subnet mask) as required:

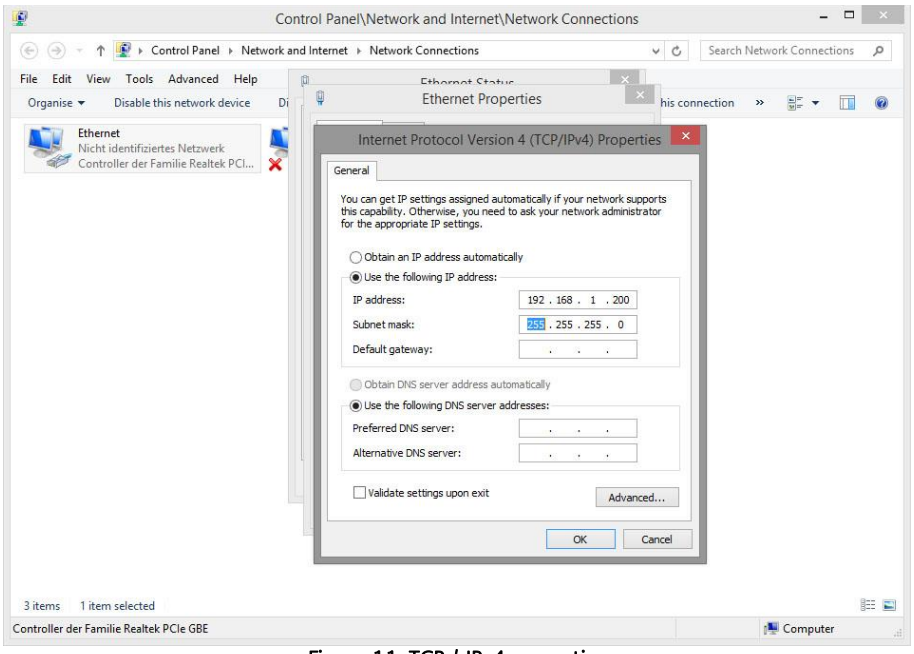


Figure 11: TCP / IPv4 properties

Example of a valid configuration for the factory settings of the **INTERCOM**MODULE:

- Free IP-address: 192.168.1.228
- Subnet mask: 255.255.255.0
- Now confirm your input with "OK".
- Close all windows until the "Windows Network and Sharing Centre Settings" window is shown.

Thus, you have adjusted the network settings of your PC to those of the **INTERCOM**MODULE. You can access the web interface of the **INTERCOM**MODULE by means of the browser. Restore the original network settings of your PC by following the steps described above as soon as you have configured the **INTERCOM**MODULE correspondingly.

If the IP address of your PC and your **INTERCOM**MODULE are in the same network mask, you can continue with the configuration.

3.4 ADJUSTING THE NETWORK SETTINGS OF THE INTERCOMMODULE

If the network prerequisites have been created, you can now access the configuration of the **APP**MODULE in order to adjust the network settings to the local requirements there. To do this, please proceed as described below:

- Enter the IP address of the **INTERCOM**MODULE in the address line of your browser (for factory settings: 192.168.1.221).

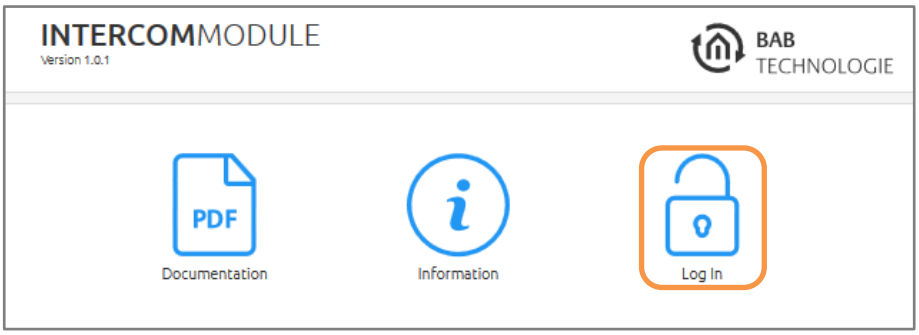


Figure 12: INTERCOMMODULE web interface log in

- The start page of the **INTERCOM**MODULE opens. Click on "Log in" on the left edge of the screen (see figure above, orange circle)
- A login dialog appears. For factory settings, the login data is as follows:

  Username: **admin**
  Password: **admin**

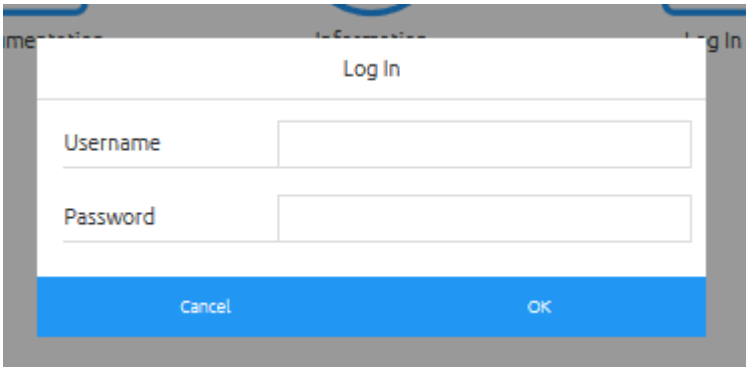


Figure 13: Log in dialog

Note: The password must be changed immediately when logging in for the first time. If the password is lost, the device cannot be reset!

Note: Logging in only works if the browser is authorised to save cookies!

- The view on the home page is changing. Now you can reach the following levels:
  - Intercom Configuration
  - Configuration
  - Information
  - Log Out
- To change the IP address of the **INTERCOM**MODULE please click on "CONFIGURATION"

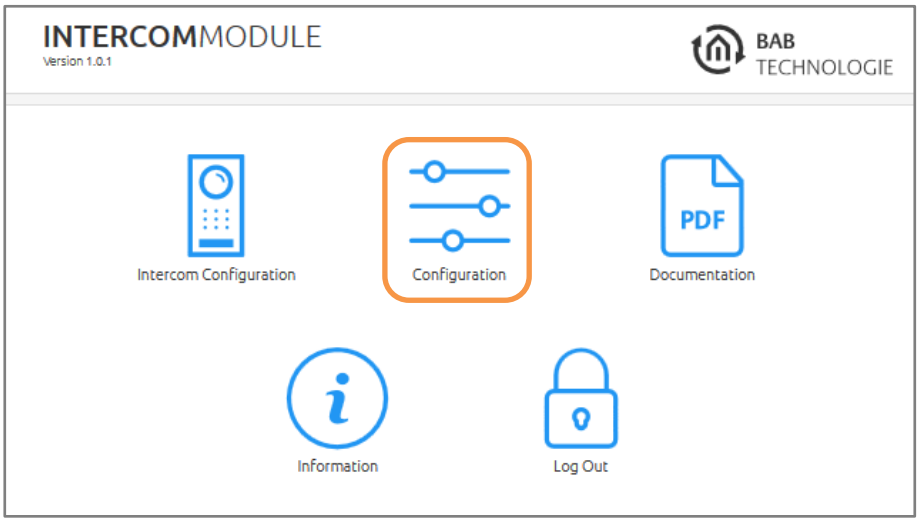


Figure 14: Web interface – open configuration

The configuration menu opens. In the menu item "Network" the following settings can be done:

IP-address/ subnet mask / gateway:	Field for the static assignment of IP addresses. Please make also sure that the subnet mask (often 255.255.255.0) and the gateway entry are correct. (Often the IP address of the WLAN router). **Note: Without a correct gateway entry, the device will not be able to communicate with the Internet.**
DNS server:	DNS is the abbreviation for Domain Name System. The DNS server converts Internet addresses, for example "www.bab-tec.de" into the IP addresses and vice versa. Without a valid DNS entry, NTP-, weather- or UPnP services do not work. (Often the IP address of the router. Alternatively, you can enter a public DNS server).
NTP server:	NTP is a free service for synchronising the system time of Internet-compatible devices. If it is not possible to establish the connection to an NTP-Server, the system time must always be checked and adjusted manually. NTP-Server list: e.g. http://www.pool.ntp.org/zone/europe

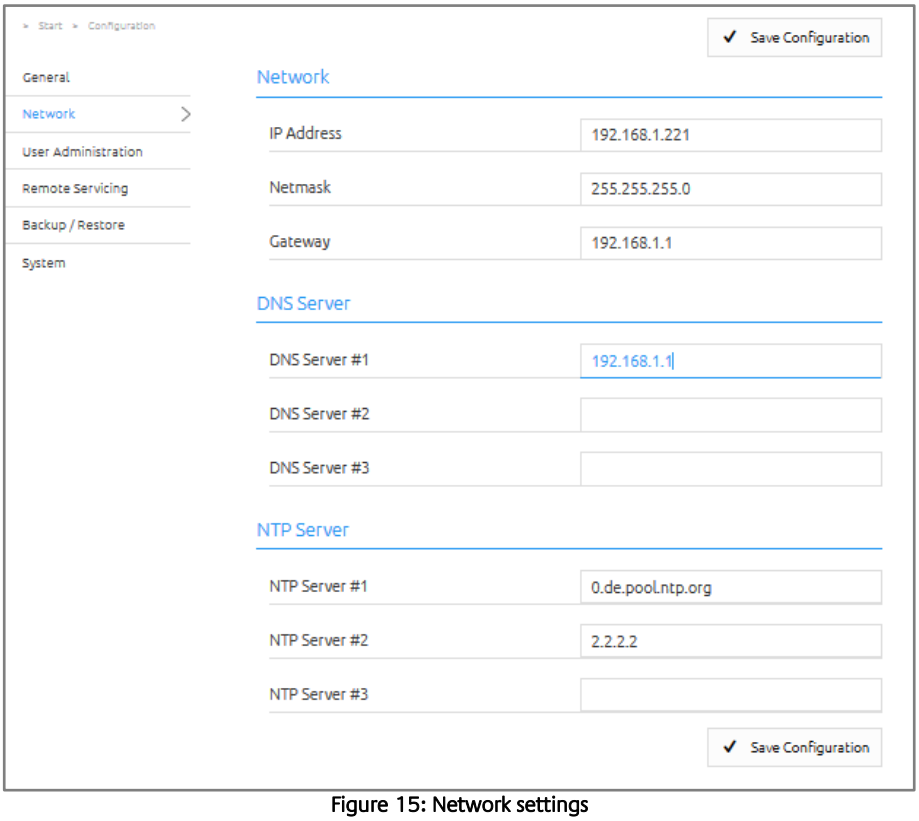


Figure 15: Network settings

Change the IP address settings as required. In order to save the settings made, click "Save Configuration". The server in the device is restarted; the browser automatically connects to the new IP address if possible.

Note: Please bear in mind that you might have to reset the IP address of your computer to the initial value in order to be able to access the INTERCOMMODULE after the change has been made.

4 CONFIGURATION **INTERCOM**MODULE

4.1 SAVING THE CONFIGURATION

As soon as you have made changes to the configuration, such as the name or the IP address of the **INTERCOM**MODULE, click on the field "Save configuration".

4.2 GENERAL

Click on “Configuration” to make changes to the general settings.

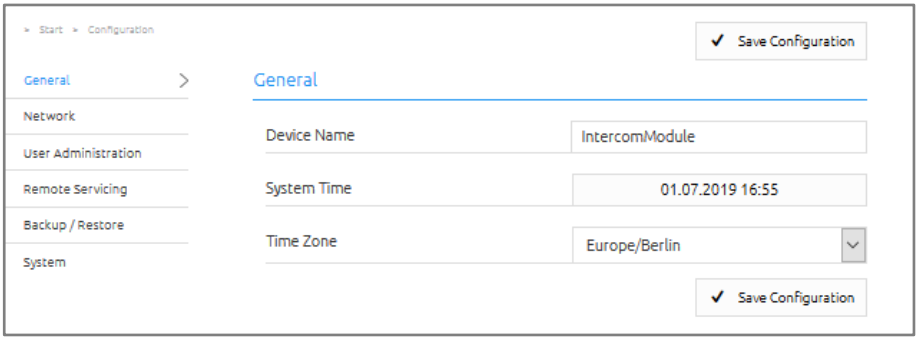


Figure 16: General configurations

Device name: Here, you can assign an individual device name for your **INTERCOM**MODULE. This name is then displayed in the “Discovery Tool” and BAB STARTER.

System time: The current system time of the device is shown. Clicking the button synchronises the system time of the device with that of the local PC. To synchronise the system time automatically, please use the NTP service. See chapter “*Network*”.

Location: Edit the installation site so that the correct time zone can be set.

Note: The system time must be correct for the software to run properly. Please make sure that the system time is always correct. If synchronisation with NTP is not possible, correct the system time manually.

4.3 NETWORK

The INTERCOMMODULE has no DHCP. The INTERCOMMODULE and the outdoor stations / gateways must have a fixed IP address. If the outdoor stations / gateways don't have a setting for a static (fixed) IP address, they must receive a permanently assigned IP address by the DHCP service inside from router or server.

IP-address/ network mask / gateway: The network settings must be carried out statically. In case of doubt, contact your network administrator as to which settings are to be carried out. Please note that an IP address may never be assigned twice!

DNS server: DNS is the abbreviation for Domain Name System. The DNS server converts Internet addresses, for example "www.bab-tec.de" into the IP addresses and vice versa. Without a valid DNS entry, NTP-, weather- and UPnP-service do not work. (Often the IP address of the router. Alternatively, you can enter a public DNS server).

NTP server: NTP is a free service for synchronising the system time of Internet-compatible devices. If time synchronisation is not possible, please correct the system time manually. NTP server list: e.g. http://www.pool.ntp.org/zone/europe

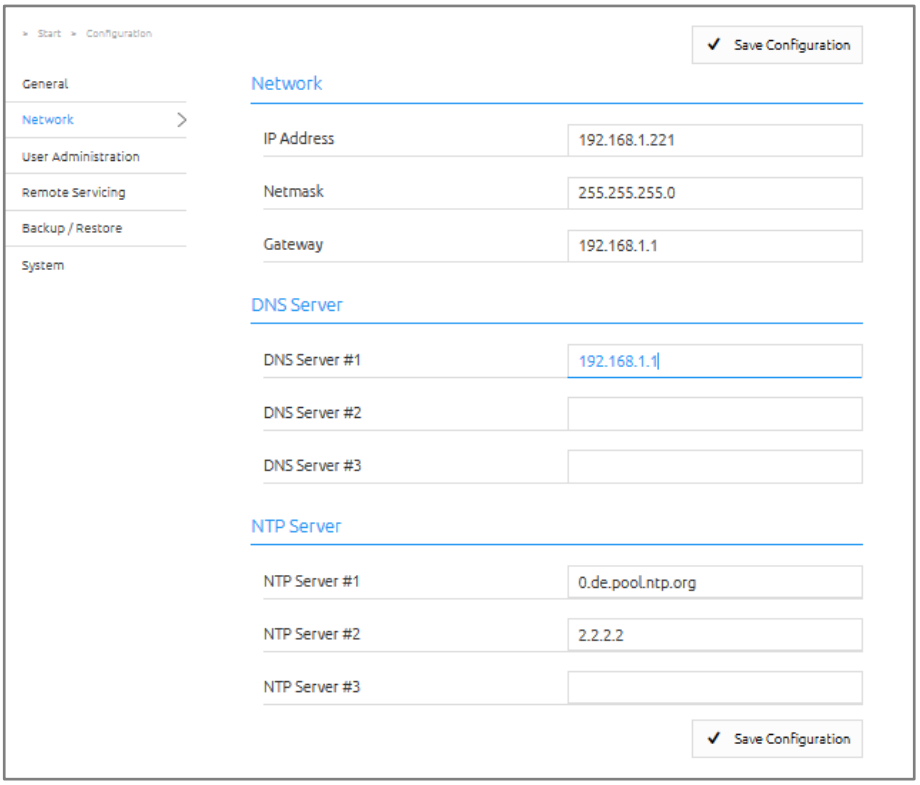


Figure 17: INTERCOMMODULE network settings

4.4 USER ADMINISTRATION

The user data required to access the **INTERCOM**MODULE web interface is managed here. To change or add users, click “User administration” in the “Configuration” menu item.

Note: Make sure that you always assign secure passwords and follow standard password guidelines.

DISABLE PASSWORD RECOVERY

If this option is selected, the password cannot be reset and the device must be sent in if you lose the password.

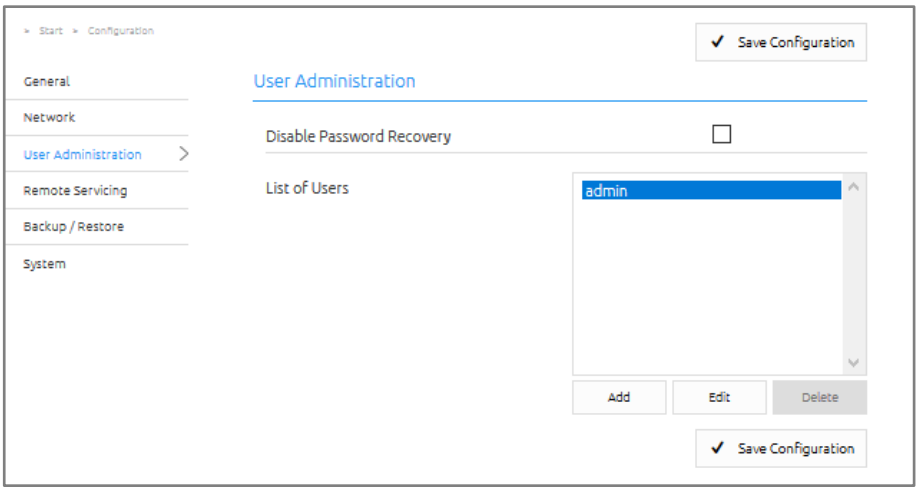


Figure 18: User administration

4.5 REMOTE SERVICING

Remote Servicing is available as of firmware version 1.3.7.

Activate the Remote Servicing Access of the **INTERCOM**MODULE. Select a time between 2-12 hours after which the Remote Servicing Access is automatically closed. Remote Servicing Access is also deactivated again if the **INTERCOM**MODULE is restarted; this is independent of the set time. Remote Servicing Access can be deactivated at any time by clicking on "Deactivate Remote Servicing Access".
Activate the Remote Servicing Access by clicking on "Activate Remote Servicing Access".
Remote Servicing access is started. This process takes a few seconds and the Remote Servicing Access ID is displayed. Copy the ID and send it to info@bab-tec.de.

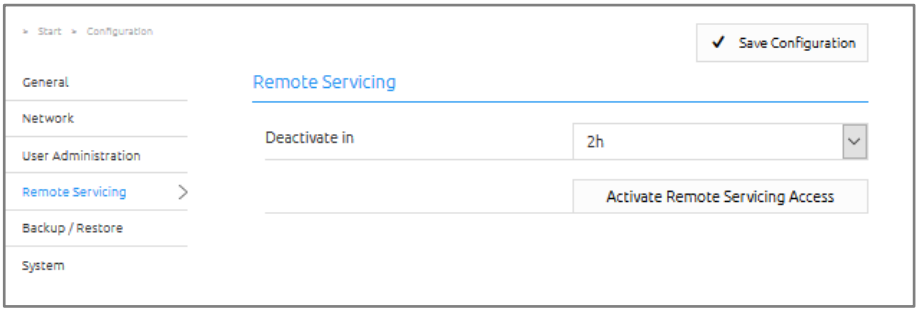


Figure 19: Remote servicing

Before you activate Remote Servicing Access, contact Support!

4.6 BACKUP THE SETTINGS

The configuration data of the **INTERCOM**MODULE should be backed up at regular intervals in order to ensure that the current configuration status can be restored at any time.

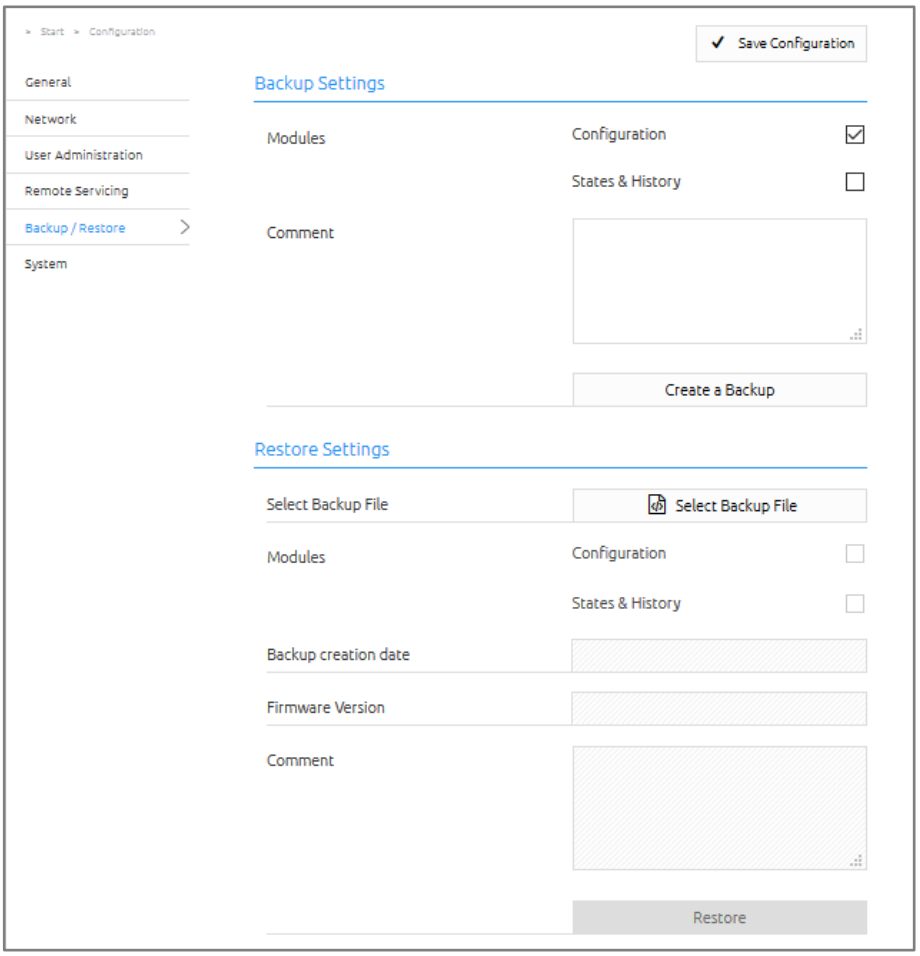


Figure 20: Backup / restore

CREATING BACKUP

Select the checkboxes under "Modules" to set which configuration data is to be backed up.

- *Configuration:* All configuration data of the **INTERCOM**MODULE.

Note: The network settings are not backed up; these are separate from the backup data.

Comments regarding the backup can be added in the "Comments" field.

- Click on "Create backup" to launch the backup process.
- The backup file is generated by the system and provided automatically for download using the browser download dialogue.

RESTORE A BACKUP

- Select an **INTERCOM**MODULE backup file using the “Select backup file” button. The files have the extensions “*.icm.bkp”.
- The “Modules” field shows which modules are available in the selected backup file. You can also use the checkboxes to select which modules are to be restored.
- Information for the selected file is displayed in the “Backup created on”, “Firmware version” and “Comments” fields.
- *Configuration:* All configuration data except for the app configuration data.

Note: The network settings are not part of the backup file.

4.7 SYSTEM / FIRMWARE UPDATE

SERVICE

Under this section, a restart of the "Device Software" can be triggered if required, or a reboot of the device.

FIRMWARE UPDATE

Each **INTERCOM**MODULE can be updated. The firmware update is free of charge. The current firmware files can be found on the BAB homepage. Proceed as follows to update the device:

- Download the current firmware image from the download area www.bab-tec.de.
- Unpack the file to any folder.

Note: Generate a new backup before you launch the update „*Backup the settings*“). The update process restores the factory settings.

- Open “Configuration” – “System”.

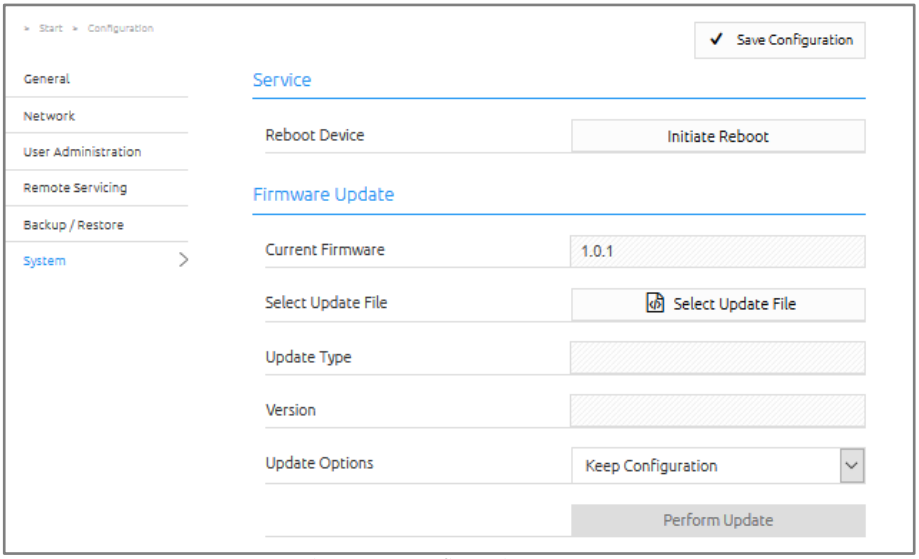


Figure 21: Configuration – system

- Select the firmware image file (*.bin extension) using the “Select update file” dialogue. Update type and version are displayed.

- Please choose one of the update options

  1. *Keep Configuration:* All settings, apps and instances will be preserved
  2. *Keep Network Settings:* Only the network settings will be preserved.
     Caution: all other settings as well as all your apps and their instances will be deleted
  3. *Reset Configuration:* The device will be reset to factory defaults during the update.

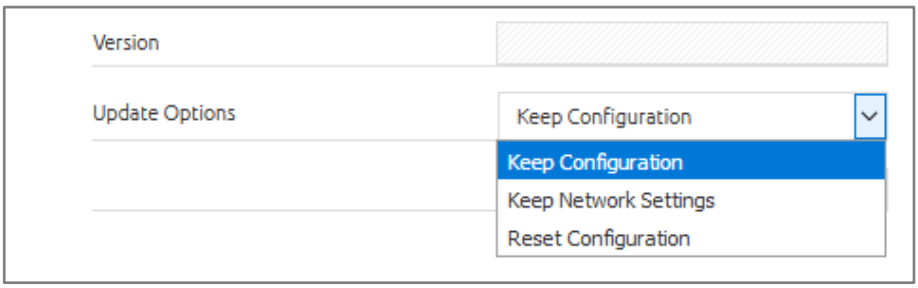


Figure 22: Keep network configuration

- Start the update process by clicking on "Start update".

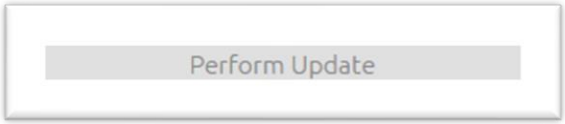


Figure 23: Perform update

- Wait until the update is complete. The web interface is updated automatically once the process has been successfully completed.

  The update restores the device factory settings (except for the network settings; see above). Individual settings are only loaded again when you restore a backup (see „*Backup the settings*“)

5 CONFIGURATIONS INTERCOM STATIONS

Before one of the supported door intercoms can be configured into the **INTERCOM**MODULE, it must be configured with the software provided by the manufacturer and integrated into the network. The following examples will be described only the settings in software of manufacturer which are important for the **INTERCOM**MODULE. If you have any questions about the settings or the software of the door intercom systems, please contact yourself the manufacturer of the door intercom system. For further procedure the basic knowledge about SIP communication of door intercom systems is required.

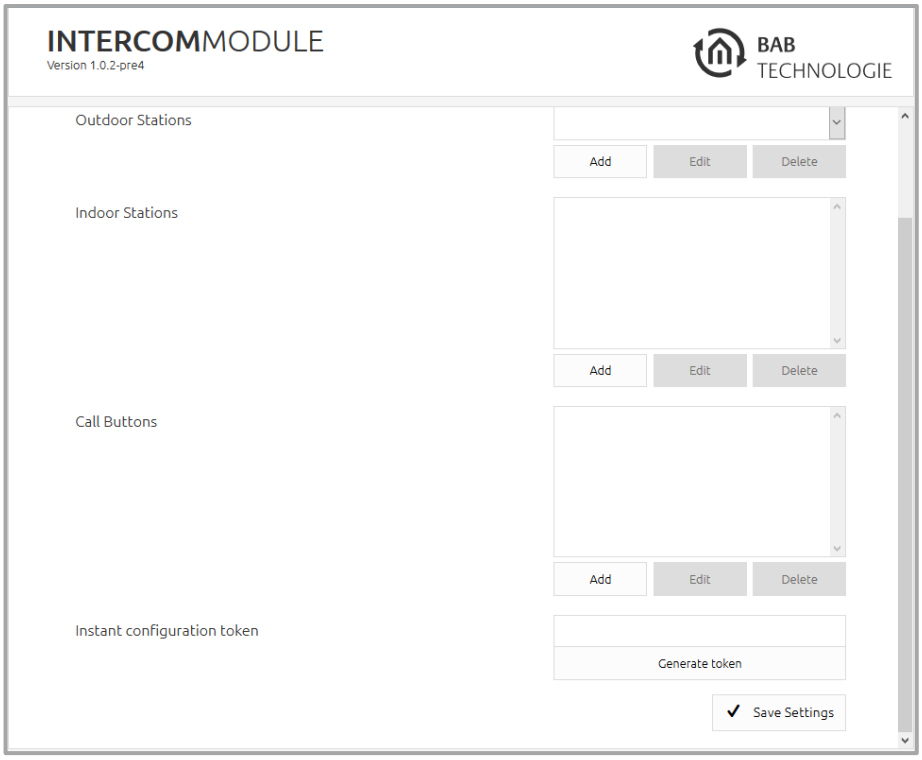


Figure 24: INTERCOMMODULE configuration page

For settings of the **INTERCOM**MODULE following information is required:

SIP-ID / SIP-number (Call number):	Each SIP participation (outdoor station, indoor station, telephone, button, ...) in the SIP network has its own SIP ID (number), which can be assigned once only. The number of digits in this SIP ID can vary widely and is always taken into account. The number of digits is mostly organizational.
SIP-servers (Proxy / Registrar):	There is always a server, proxy or registrar for managing a SIP network and communication. Communication goes between the participants and other so-called clients.
SIP-host/ Host of...	For easy understanding; the IP address of the server or client as well is usually used here.
SIP-address/ Domain:	Each SIP participation Every in the SIP network has a SIP ID and the associated domain results in its address "<SIP-ID>@<domain>. In most of the settings is entered only the SIP ID, since the address is then created automatically.
SIP-password	Belongs to the device access (authentication) of a SIP server or SIP client in a SIP network.

The use of the terms is quite different by the manufacturers, since different variations are possible anyway. When using them, please ensure that the correct assignment is always made and that a clear assignment is possible.

5.1 OUTDOOR STATION

Here you can configure one or more outdoor stations. Click on "Add" to configure an outdoor station. Enter a name, ASCII-characters only and without spaces are allowed, for the outdoor station and then select the type of door intercom according to your outdoor station. The manufacturer-specific settings are very different, so that appropriate adjustments were taken into account by selecting a device.

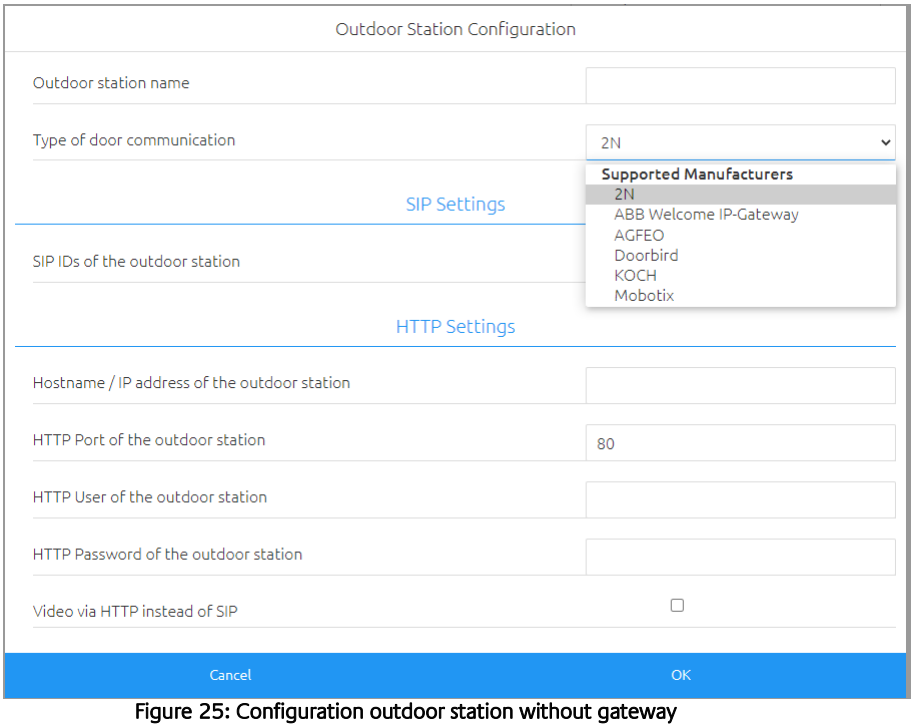


Figure 25: Configuration outdoor station without gateway

In case of intercom systems with a gateway (e.g., ABB Welcome IP Gateway), the IP address of the gateway and the user's name as well the password of the ComfortPanel must be entered. The **INTERCOM**MODULE is registered on the gateway with this data. The IP gateway must have a static IP address, since the **INTERCOM**MODULE will not notice a possible change of IP address by DHCP.

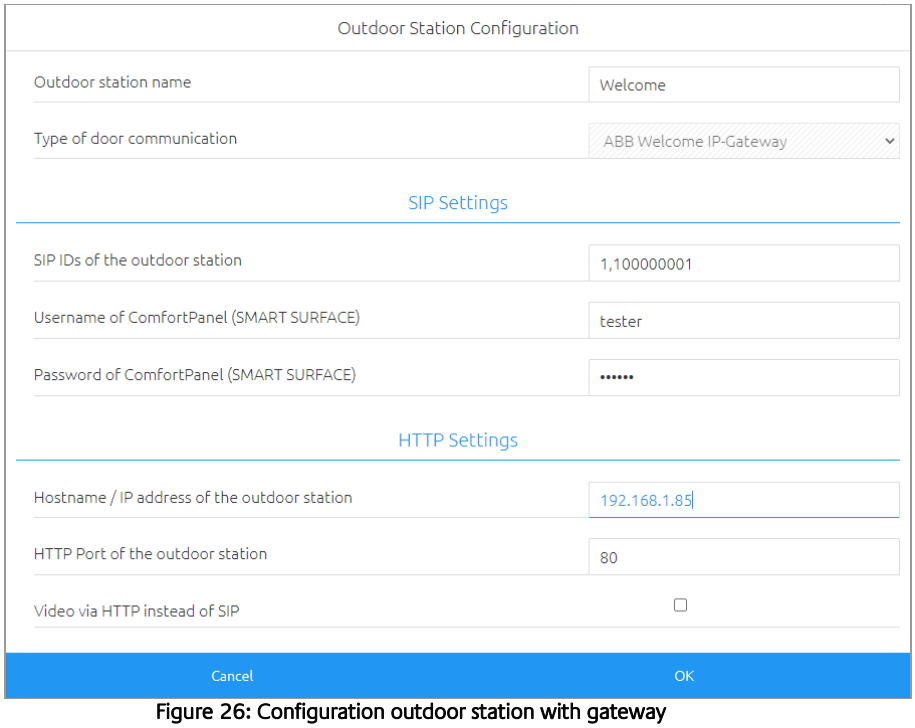


Figure 26: Configuration outdoor station with gateway

Note: The use of functions door opener and light switch is already included in the programming of the manufacturer-specific clients. The respective default values (DTMF tones) are used. Changes to these settings lead to the loss of that functions. It should also be noted whether additional licenses from the manufacturer are required to use this function (e.g. 2N).

The connection to other intercom station manufacturers is subject to constant expansion. Because manufacturers are also constantly updating their products, version differences must be observed. As far as possible, reference is made to the tested version.

Among other the following door intercoms are supported:

- ABB Welcome IP-Gateway (Generic gateway type, server mode)
- 2N (Generic type, anonymous client mode)
- DoorBird (Generic type, anonymous client mode)
- AGFEO IP-Video TFE 1 (Generic client type, registered client mode)
- MOBOTIX T25 (Generic client type, registered client mode)

In the SIP communication of the door stations is distinguished between the server and client mode, wherein the client mode can be executed as anonymous or as a registered client. The SIP port 5060 is enabled for external communication of the **INTERCOM**MODULE.

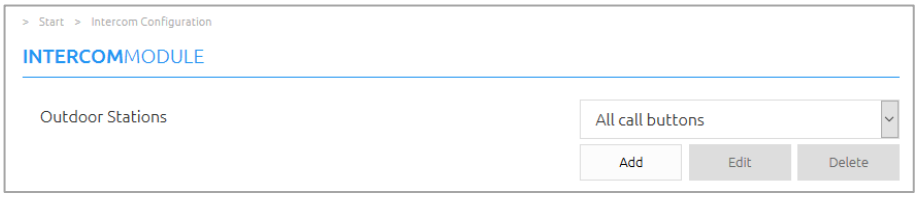


Figure 27: Configuration outdoor station, call buttons

Note:

The display of the call buttons depends on the selected outdoor station.
You must assign each external station its own SIP ID of call buttons.
It is best to make a note of all the call buttons IDs (and identifiers) assigned to the outstations before assigning them to the **INTERCOM**MODULE (by call button configuration).
If more than two outdoor stations are configured, select an outdoor station to display only the call buttons added for the selected outdoor station. Select "All call buttons" to display all call buttons configured in the **INTERCOM**MODULE for all outstations.

5.2 INDOOR STATIONS

Here you can configure one or more indoor stations (e.g., Windows client with CONTROL **T** 2). Click on "Add" to connect an indoor station via its individual SIP ID to the **INTERCOM**MODULE.

The configuration data of the indoor station such as "name of the indoor station" (without space), password of the indoor station "as well as the 1-9-digit individual" SIP ID of the indoor station "can be specified here and must be taken over in the CONTROL **T** 2 software. (See documentation CONTROL **T** 2).

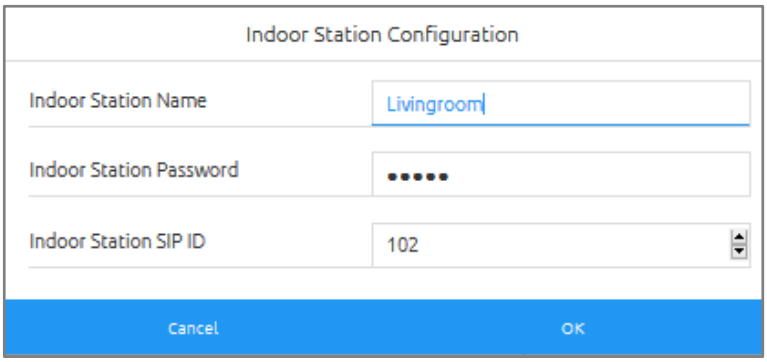


Figure 28: Configuration indoor station

Note:

Indoor stations can be assigned outdoor station with multiple call buttons (see "Call Button Configuration" for more detailed information). You can even assign an indoor station call buttons from different outdoor stations.
Up to 18 different indoor stations (Windows client with CONTROL **T** 2) can be configured.

In addition to the manually configured indoor stations, additional indoor stations are generated by integrating a TOKEN. The use of the TOKEN in visualizations is described separately below (Chapter 5.4 Configuration for EIBPORT).

5.2.1 CONTROL **T** 2 – INTERCOM SYSTEM CONFIGURATION

In the settings of the CONTROL **T** 2, the connection to an intercom and door intercom is created.

Via the menu items "Set up the connection to the INTERCOM module" and "Add intercom system" you can integrate SIP intercoms with video stream. Each item opens a window, where you enter the configuration of your systems and devices. With "Save" the respective settings are stored into the software.

Please note there are intercom systems which are externally activated or started, before a connection is establishing. (Dependent on manufacturer). Only this will allow you to check the correctness of your configuration, after a connection has been established.

CONFIGURATION OF INTERCOM SYSTEM

With "Add intercom system", you can integrate your own door intercoms or other SIP intercom systems. In the menu item "Type" you have a choice of systems can be selected. After your selection the further menu items will be specified.

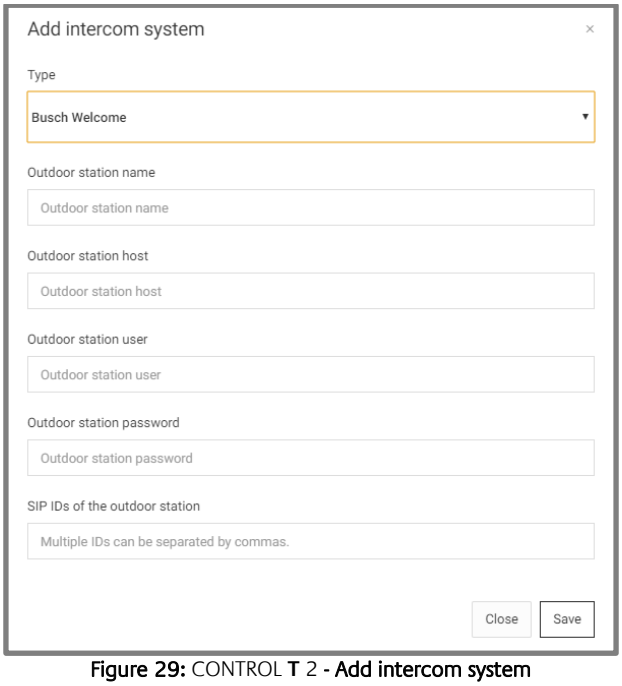


Figure 29: CONTROL **T** 2 **- Add intercom system**

According to the selected intercom system, please enter the right data of your system here. Please use also the manuals of the respective manufacturers. Some examples of configuration are described in this documentation.
With further product development we reserve the right to add further systems. It is also possible that existing settings and device specifications are also applicable to other manufacturers, e.g., as result of product cooperation.

CONFIGURATION **INTERCOM**MODULE

With menu item "Set up the connection to the INTERCOM module" will be configured and established the connection to the **INTERCOM**MODULE. To integrate and set up it is needed to know the settings as it was done in the **INTERCOM**MODULE.

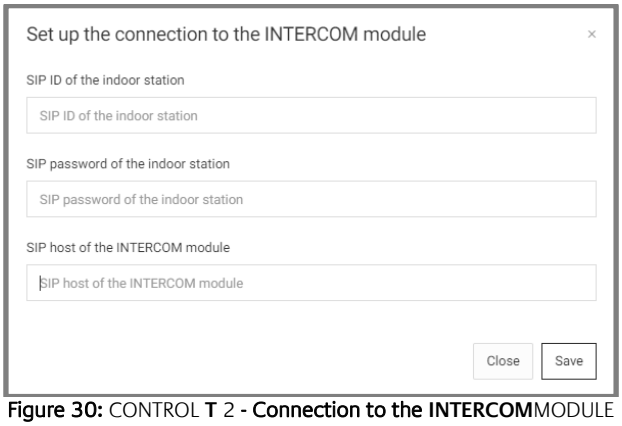


Figure 30: CONTROL **T** 2 **- Connection to the INTERCOM**MODULE

Furthermore, you will find examples of configuration that clearly it is shown the necessary steps and settings.

5.3 CALL BUTTONS

Here you can assign the call buttons to the indoor and outdoor stations. The call buttons must be configured previously in the outdoor system software. How to configure the call buttons in the software of outdoor system refer to the documentation of the outdoor system.

Click on "Add" to connect a call button via its individual SIP ID to the associated outdoor station. Continue to assign the call button to the (already configured) indoor station (s) by selecting them under "Assign Indoor Units". Up to 18 different call buttons can be configured.

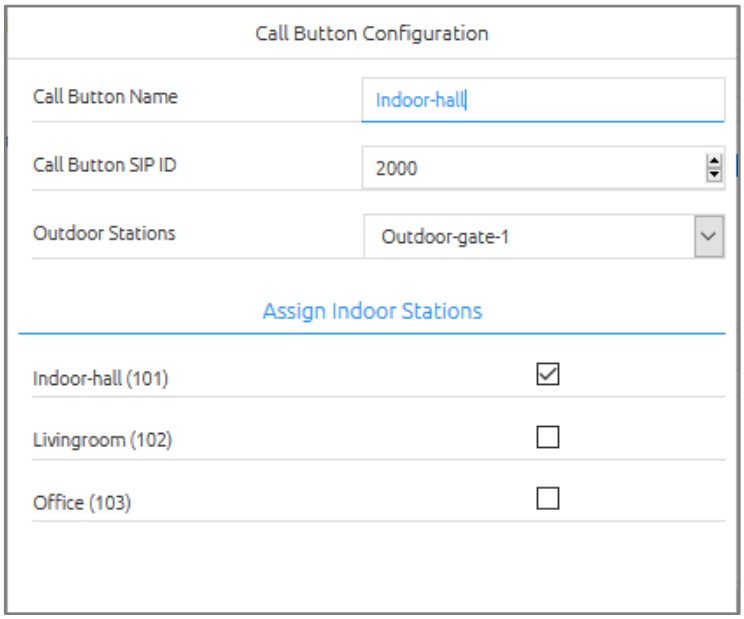


Figure 31: Configuration call buttons

5.4 CONFIGURATION FOR EIBPORT

In order to adopt the settings for the indoor station at EIB**PORT**, now can be generated a TOKEN. This TOKEN must be copied to insert it into the configuration of the visualization at EIB**PORT**.

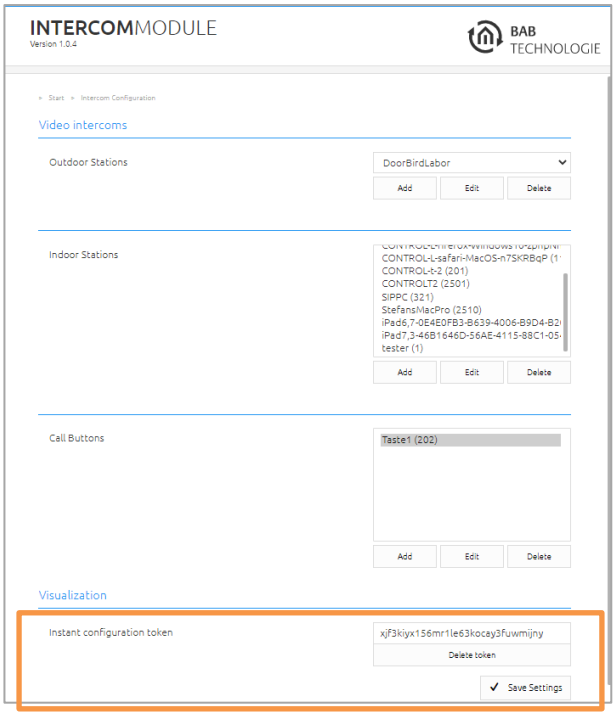


Figure 32: TOKEN INTERCOMMODULE

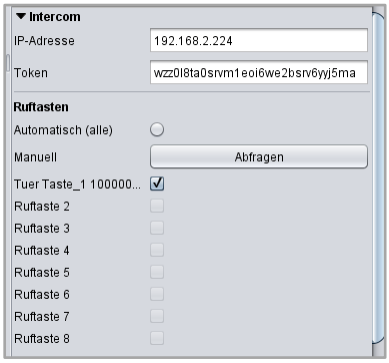


Figure 33: Activation of intercom in the EIBPORT

All settings are transmitted by using the TOKEN, but it is still necessary to specify whether the connection to the **INTERCOM**MODULE should be activated by all configured call buttons or make your selection.

5.4.1 **INTERCOM**MODULE IN CONTROL L

At CONTROL L visualization the **INTERCOM**MODULE can be used to generate an integrated communication window. The configuration is quite simple and will be described in detail below.
At first insert the TOKEN of **INTERCOM**MODULE into the basic settings of your CONTROL L visualization and activate the required call buttons. By saving, the required settings are already done. The communication window itself generates automatically when a call is received.

Note:

The TOKEN contains the connection settings for communication with the **INTERCOM**MODULE. In this respect, it is not necessary to generate a new TOKEN for device-specific settings and changes. However, the new settings must be saved in the device after being changed.

At last, only the connection between the **INTERCOM**MODULE and the EIB**PORT** has to be established, which will be done at first time when the visualization is opened.

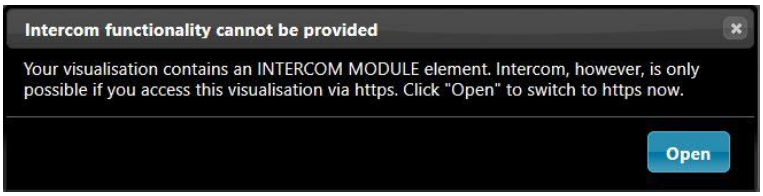
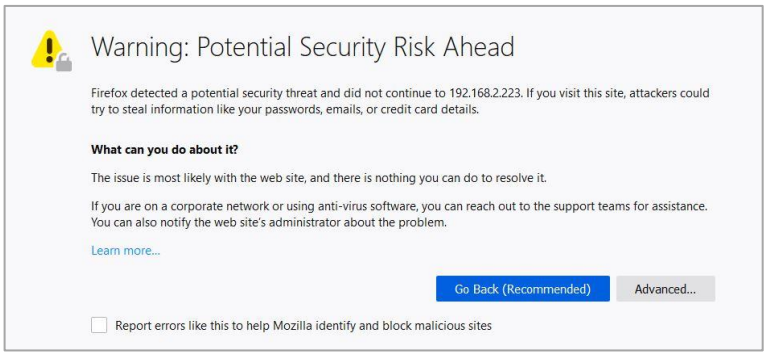


Figure 34: Intercom web interface sign in

Due to the necessary use of secured connections, corresponding messages appear in the browser. To establish the connection between the modules, you must allow the security exceptions accordingly. This is done for both modules.



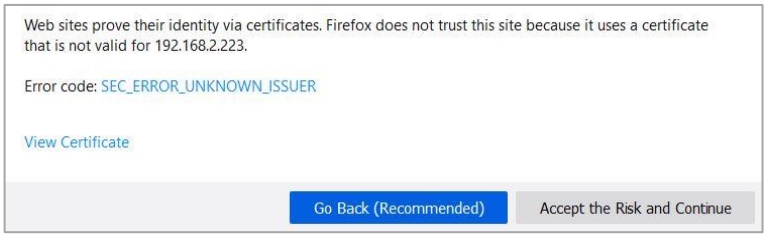


Figure 35: web interface login accepts security risk

After establishing the connection, you must sign-in into the **INTERCOM**MODULE.

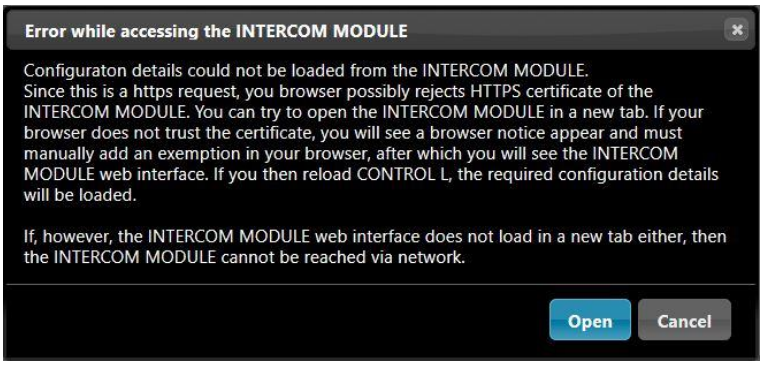


Figure 36: Access to the **INTERCOM**MODULE

The connection between the modules is active and you can see these connections in the "Intercom configuration" of the **INTERCOM**MODULE; it is listed as an indoor station and the connection to the call buttons.

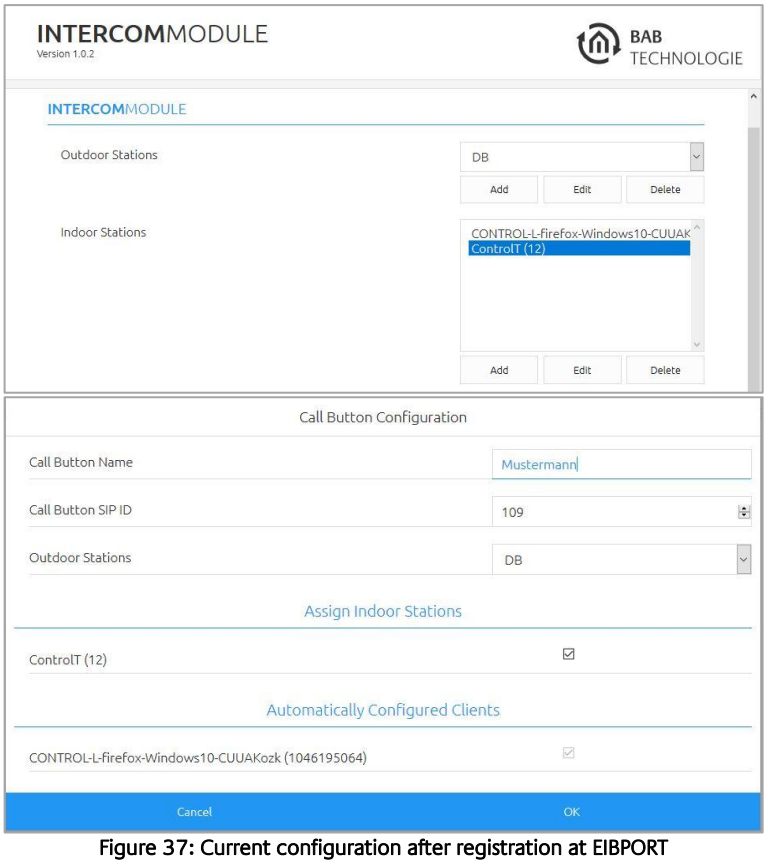


Figure 37: Current configuration after registration at EIBPORT

When the call button is activated, a communication window opens automatically in the visualization of CONTROL L. When the call is accepted, the video connection to the door station is streamed.

Note:

Do not forget to activate the access (release) for loudspeakers, microphone and camera as well for the IP of used device in your browser application. Cookies must also be allowed.

Figure 38: CONTROL L communication window

Note:

Due to an immediate configuration of automatically generated clients at **INTERCOM**MODULE for the visualization in CONTROL L, these clients are displayed as indoor stations. In principle, the connection is only established once and used permanently. These clients cannot be edited, they can be deleted only. The maximum number of clients is 18. Please note that the **INTERCOM**MODULE does not delete automatically generated clients. By repeatedly deleting the cache in the browser, using different browsers for the visualization with CONTROL L, it can happen that the maximum number is reached and no new clients are accepted. Then the user himself has to delete unused clients in the **INTERCOM**MODULE.

5.4.2 **INTERCOM**MODULE IN CUBEVISION 2+

In the CUBEVISION 2+ App, the **INTERCOM**MODULE can be used to build an integrated communication window. The configuration is quite simple and is shown in detail below.

The prerequisite for setting up an INTERCOM function is that a door intercom has been set up in your **INTERCOM**MODULE. Open in your CUBEVISIO 2+ App the settings and move to the bottom menu items of the settings. Activate the menu item SET UP **INTERCOM**MODULE.

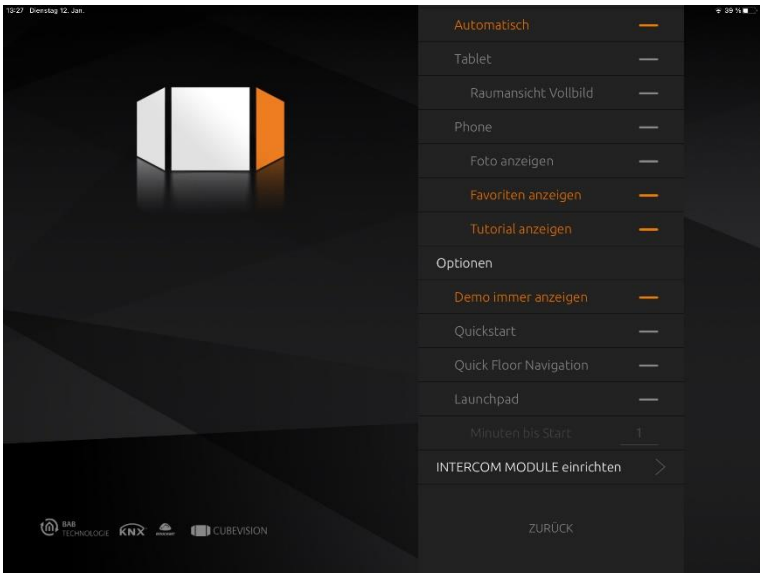


Figure 39: CUBEVISION 2+ App - settings

A further menu item opens to set up the connection to the **INTERCOM**MODULE. Enter the IP address of your **INTERCOM**MODULE. After that, you must enter the TOKEN generated in **INTERCOM**MODULE. You can transfer this TOKEN by opening the web interface of the **INTERCOM**MODULE in your mobile device. In this way, the TOKEN can be copied to the settings of the CUBEVISION 2+ App.

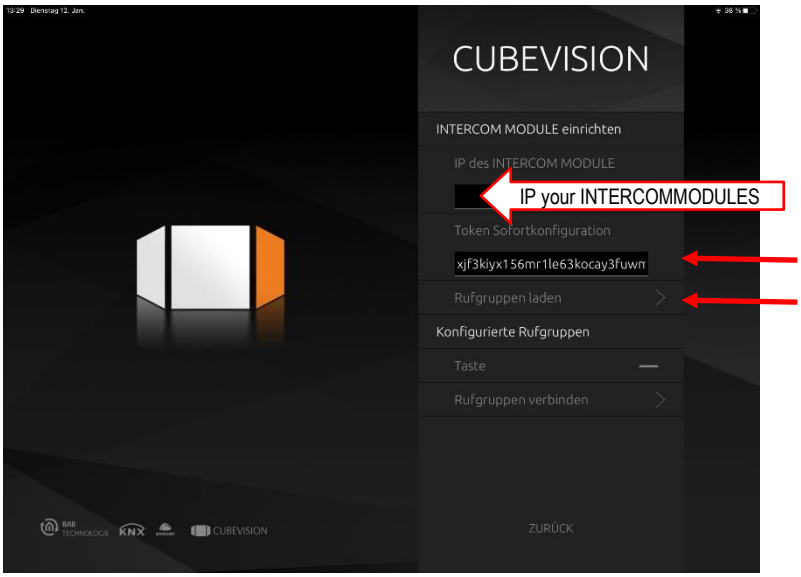


Figure 40: CUBEVISION 2+ App - INTERCOMMODULE set up

By clicking on "Load Call Groups" the connection to the **INTERCOM**MODULE is established now.

With successful connection, the configured call buttons in the **INTERCOM**MODULE are displayed.

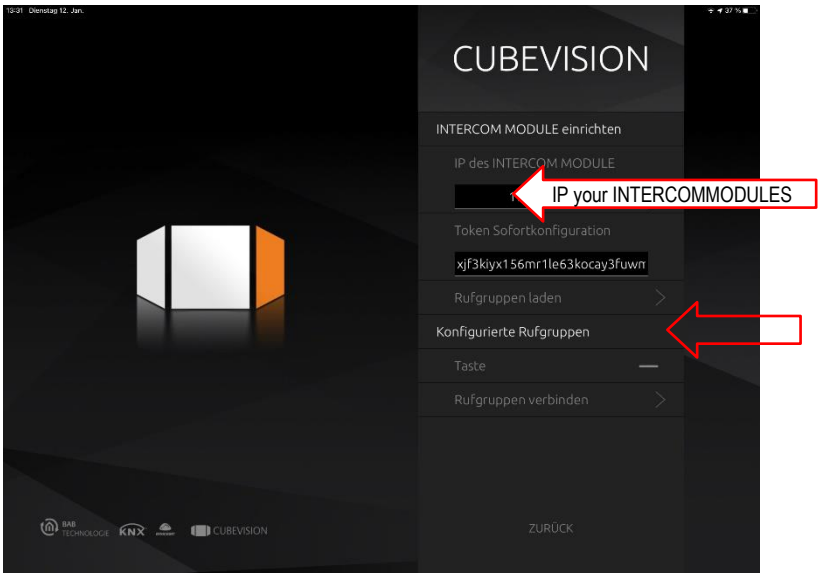


Figure 41: CUBEVISION 2+ App - call groups

Now select the call buttons with which you want to open the communication window by receiving a call. Finally, click the "Connect Call Groups" function. With the display "Call groups could be successfully connected" the configuration of the INTERCOM function in your CUBEVISIO 2+ App is successfully completed.

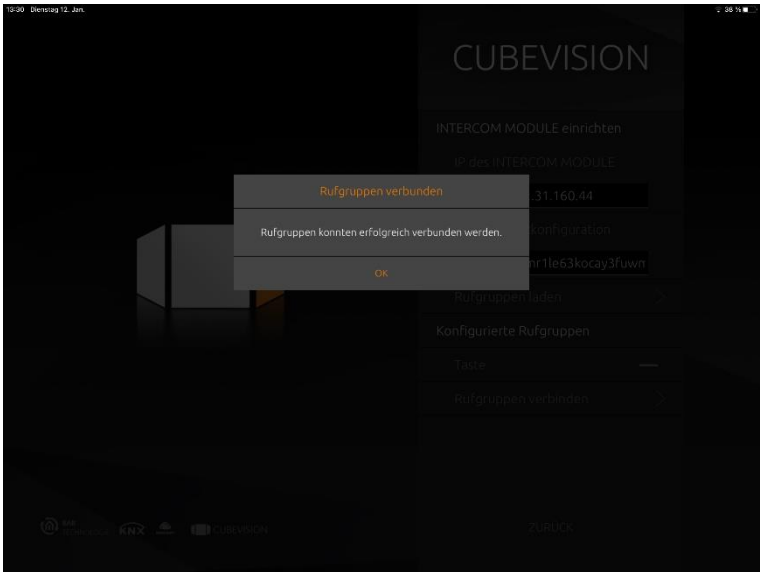


Figure 42: CUBEVISION 2+ App - INTERCOMMODULE set up

Note: If you make changes to the settings of your door station and the **INTERCOM**MODULE, you should load the call groups again, select the desired buttons and reconnect the selected call groups.

5.4.3 **INTERCOM**MODULE IN **HTS**10

The CUBEVISION 2 of the **HTS**10 has an integrated communication window to the **INTERCOM**MODULE. In order to be able to use this function, you must configure the connection to your **INTERCOM**MODULE.

The prerequisite for setting up an INTERCOM function is that a door intercom has been set up in your **INTERCOM**MODULE. Open the "Settings" menu in the CUBEVISION 2 visualisation.

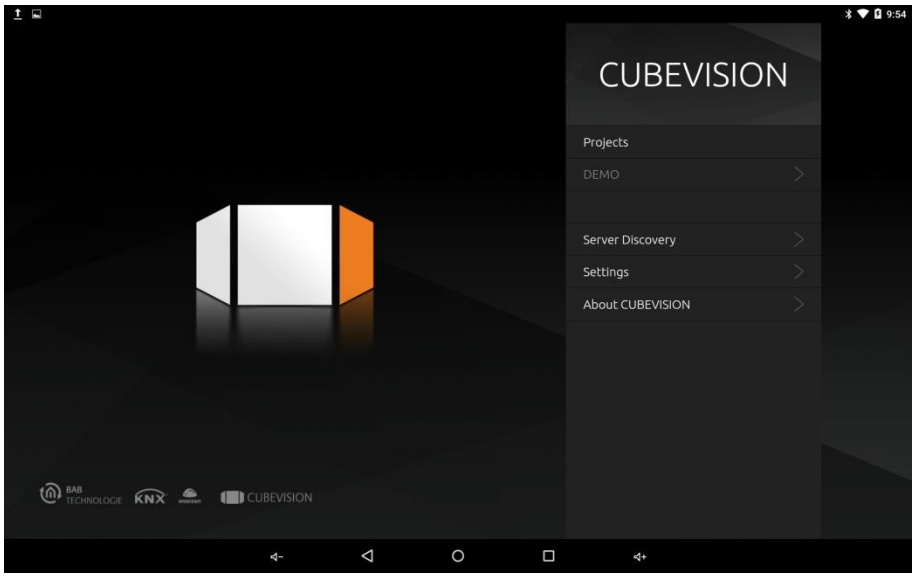


Figure 43: HTS10 CUBEVISION 2+ - Setting

Scroll down and activate the **INTERCOM**MODULE setting menu item.

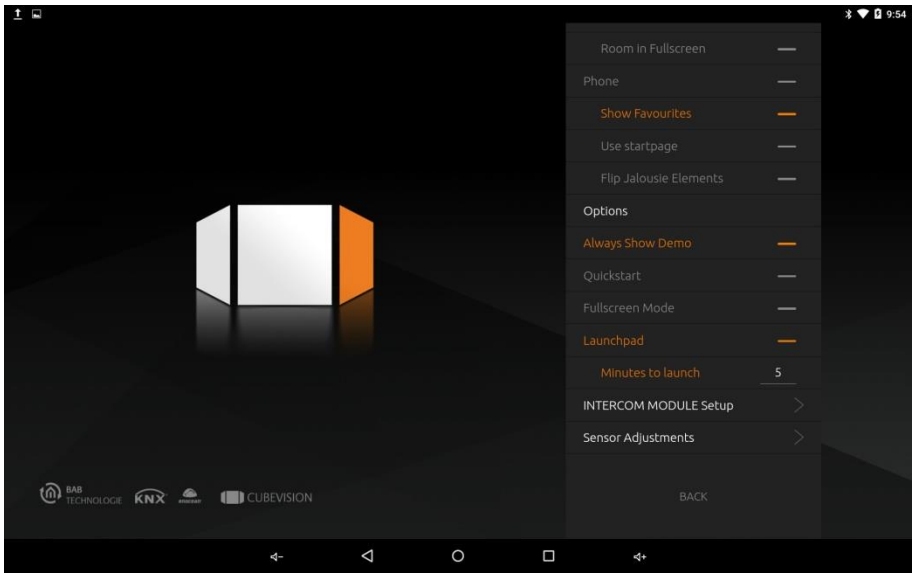


Figure 44: HTS10 CUBEVISION 2+ - INTERCOMMODULE set up

Further menu items open for setting up the connection to the **INTERCOM**MODULE.

Enter the IP address of your **INTERCOM**MODULE. Then you have to copy the TOKEN generated in **INTERCOM**MODULE (point 1).
The connection to the **INTERCOM**MODULE is established by clicking on "Load call groups" (point 2). If you have made changes at your **INTERCOM**MODULE, carry out this step as well, even if call groups from previous settings are already displayed.

1

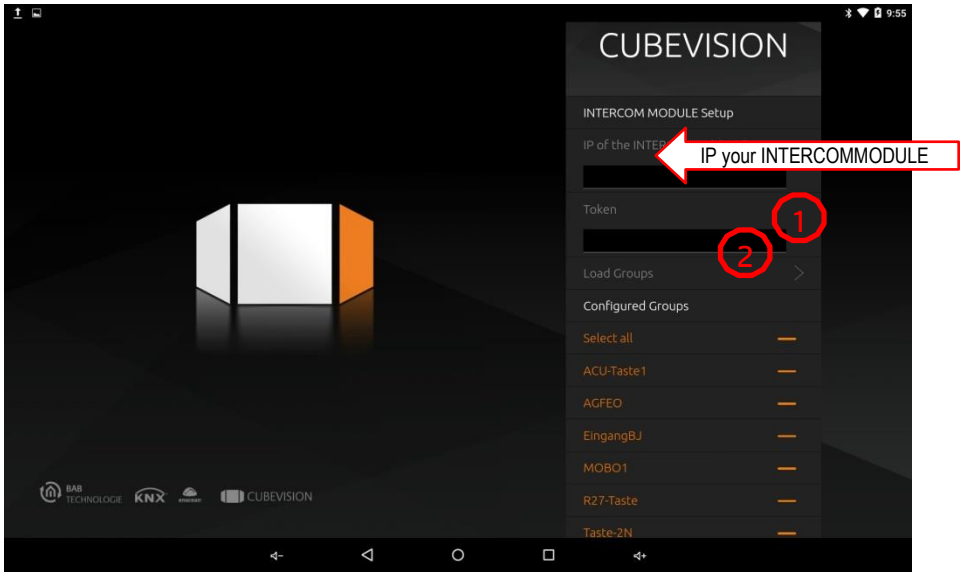


Figure 45: HTS10 CUBEVISION 2+ - INTERCOMMODULE groups

Once the connection has been successfully established, the call buttons configured in the **INTERCOM**MODULE are displayed. Select individual or all call groups from which your **HTS**10 should accept a call. Click on Connect Groups to establish the connection.

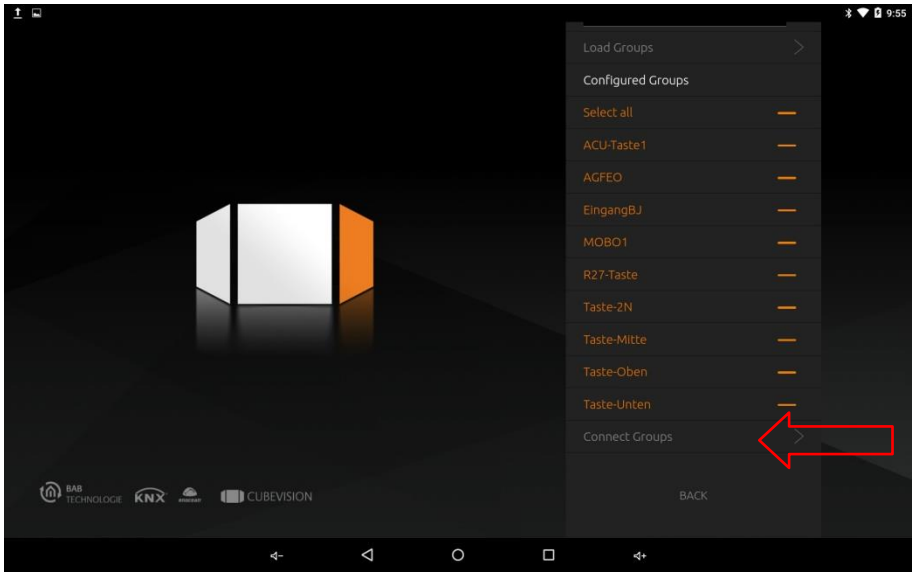


Figure 46: HTS10 CUBEVISION 2+ – connect groups

The configuration of the INTERCOM function in your **HTS**10 is successfully completed with the display "Call groups could be connected successfully". You can now exit the settings and go to your visualization.

Your **HTS**10 is now configured to receipt calls.

Figure 47: HTS10 - Intercom call

6 CONFIGURATION INTERCOM STATIONS

6.1 INTERCOM STATION CONFIGURATION DOORBIRD OUTDOOR STATION WITH THREE BUTTONS

Prerequisite is that the DoorBird was set up in the network and works with the DoorBird App (iOS, Android). The station setup is only complete when you hear the announcement from the door station: "Successfully connected to internet". If you do not hear this message, check the connection of your door station or, if necessary, contact the manufacturer of this device.
The following settings are described based on a **DoorBird IP video door station D2103V**.

SETTINGS AT DOORBIRD

The following settings must now be done in the DoorBird App.

1. Enter to the settings and log into administrations account.
2. Navigate to the SIP settings and open them.
3. Activate SIP
4. Enter the IP address of the **INTERCOM**MODULE under SIP Proxy.
5. For SIP user enter a freely selectable 1-9-digit number, which is comparable to a telephone number. That SIP account will be needed later in CONTROL **T** 2
6. A SIP password is not required.
7. Allow incoming calls

Other settings are not required for the **INTERCOM**MODULE. Save the settings.

Figure 48: DoorBird SIP settings

8. Navigate to SIP numbers and open the settings.
9. Click Add.
10. Enter a freely selectable 1-9-digit number in the "name" field. This number may not be the same number that was entered under SIP user (see in fig: DoorBird SIP settings).
11. Enter the number in the "SIP address" field as it was previously entered in the "name" field followed by a @ and the IP address of the **INTERCOM**MODULE, then save the settings.
    Example: 101@192.168.1.221

For each bell button must have configured its own freely selectable 1-9-digit number that does not match with another number and the SIP address, as described in point 10 and point 11.

Figure 49: DoorBird SIP numbers configure

12. Navigate to Settings configuration buttons and open the settings.
13. Open the configuration buttons of the button you want to configure.
14. Assign a freely selectable display name.
15. Choose a validity type. In each validity type you have to activate SIP.
16. Weekly schedule
17. Select in weekly schedule the category "SIP calls"

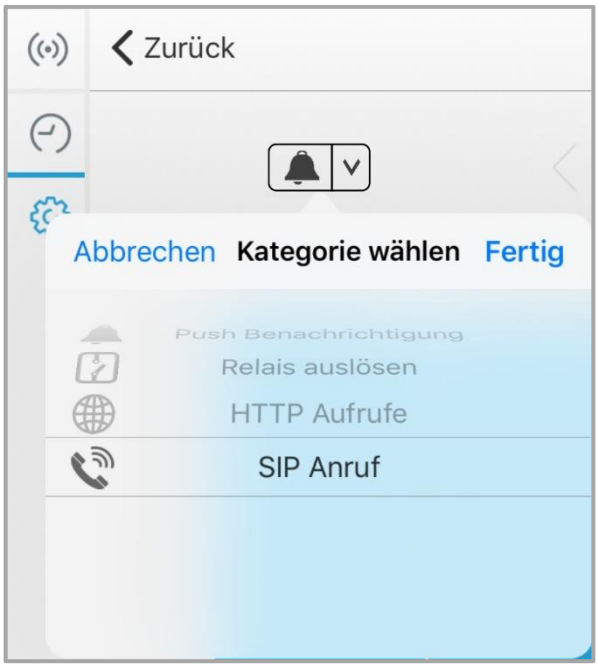


Figure 50: DoorBird SIP configure

- Date range

Activate the respective number of buttons for "SIP Call" under "Actions" in the validity type "Date Range".

Figure 51: DoorBird SIP call buttons

- Unique.

Activate the respective number of buttons for "SIP Call" under "Actions" in the validity type "Unique".

Information about the validity types can be found in the DoorBird documentation.

For a door intercom system with call buttons (bell buttons) we recommend the validity type "weekly schedule" and an activation 24/7. If you set other activation times in the weekly schedule or select a different validity type, please note that DoorBird does not establish a connection via SIP to the INTERCOMMODULE during the deactivation period and by that the call isn't forwarded to the indoor station.

18. The "door opener" button is used in the **INTERCOM**MODULE via an http request. Depending on the basic configuration of the DoorBird, the setting may different. It is therefore necessary to check that "API Operator" and "Relay 1" are enabled in the administrator menu.
19. By default, the use of the "Light" button is associated with the additional lighting for the camera.

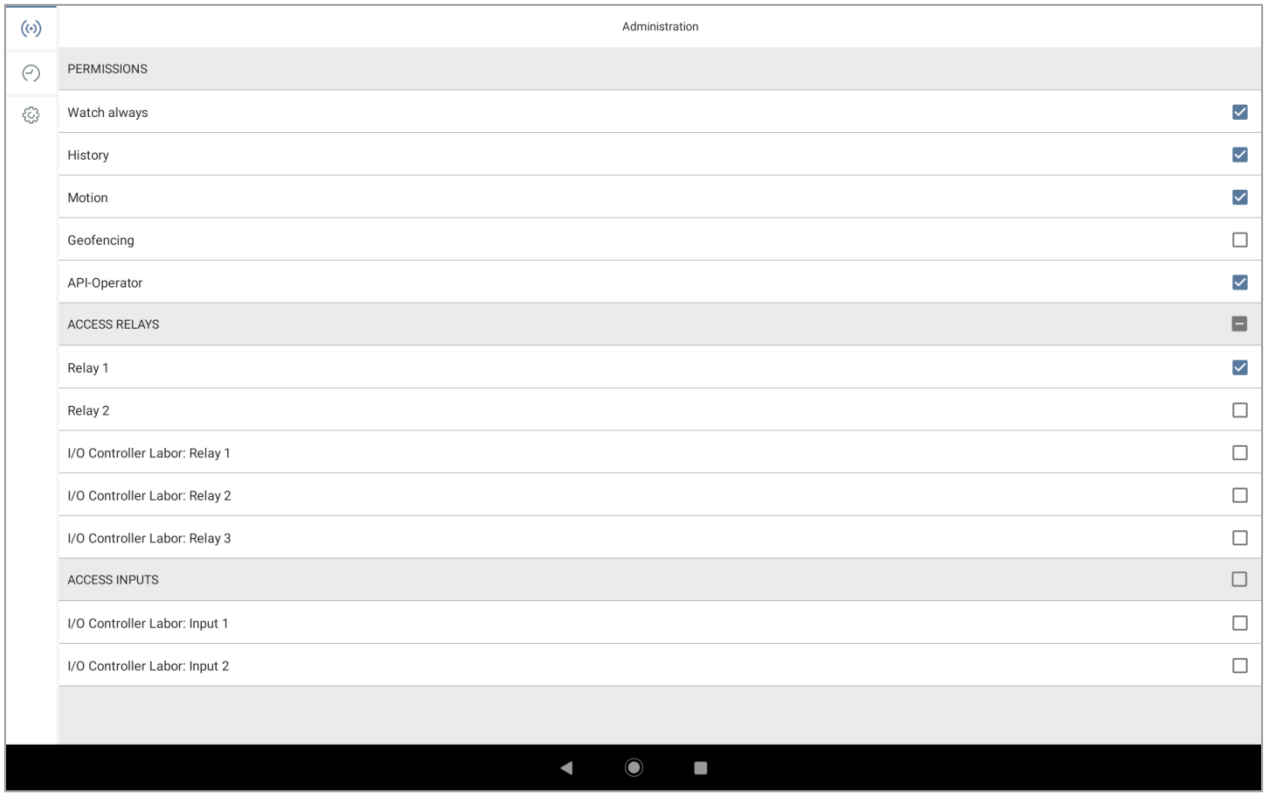


Figure 52: DoorBird Relay Door opener

RELEASE NOTES IN DOORBIRD SETTINGS

The settings may be labeled differently for other DoorBird version types, or even the DoorBird menu may look completely different.

Example. If a 1-button version is used, the weekly schedule is located under the menu item "Time-based actions".

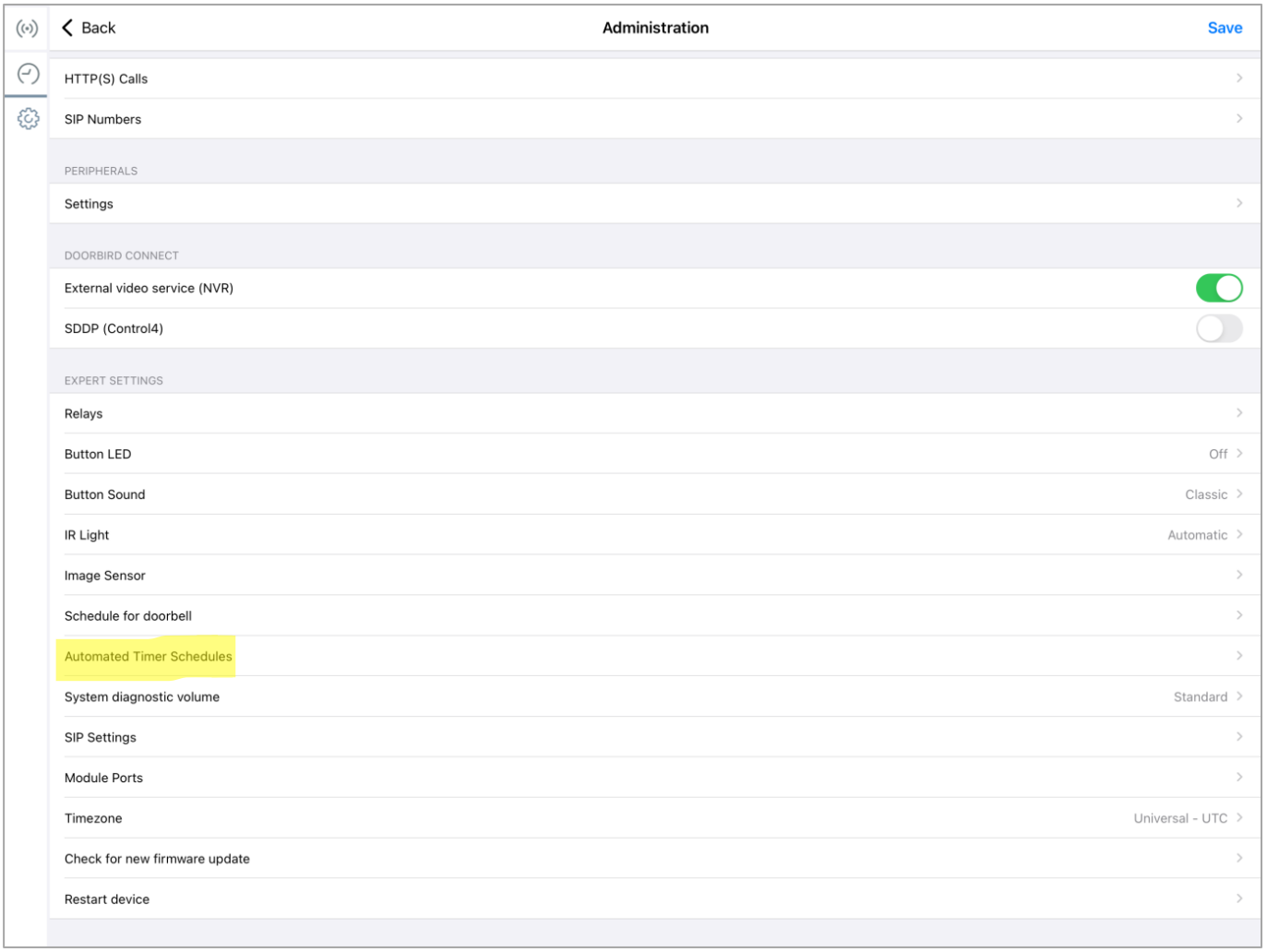


Figure 53: DoorBird Menu with one Call Button only

You may have to contact the manufacturer or their DoorBird sales and service partner.

Note: The DoorBird outdoor intercom system obtains it IP address via DHCP. For a faultless connection to the INTERCOMMODULE it is important to assign a fixed IP address from the DHCP service to the DoorBird outdoor station.

SETTINGS IN **INTERCOM**MODULE - DOORBIRD

Accordingly, the data of the DoorBird must be entered to the settings of the **INTERCOM**MODULE.

Now transfer the data from the DoorBird configuration to the Outdoor Station configuration of the **INTERCOM**MODULE (Outdoor Stations -> Add).

Outdoor station name: Enter a name for the outdoor station
Type of door communication: Doorbird
SIP IDs of the outdoor station: Corresponds to user name of SIP address and authentication of DoorBird
Hostname /IP address of the outdoor station: Is the IP of your DoorBird
HTTP Port of the outdoor station: Is 80
HTTP User of the outdoor station and ***Password of the outdoor station:*** Login-data of DoorBird
Video via HTTP instead of SIP: leave on SIP.

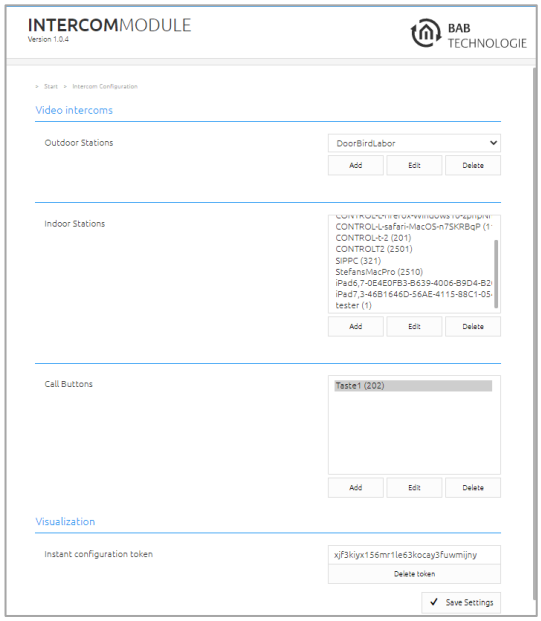


Figure 54: INTERCOMMODULE configuration DoorBird

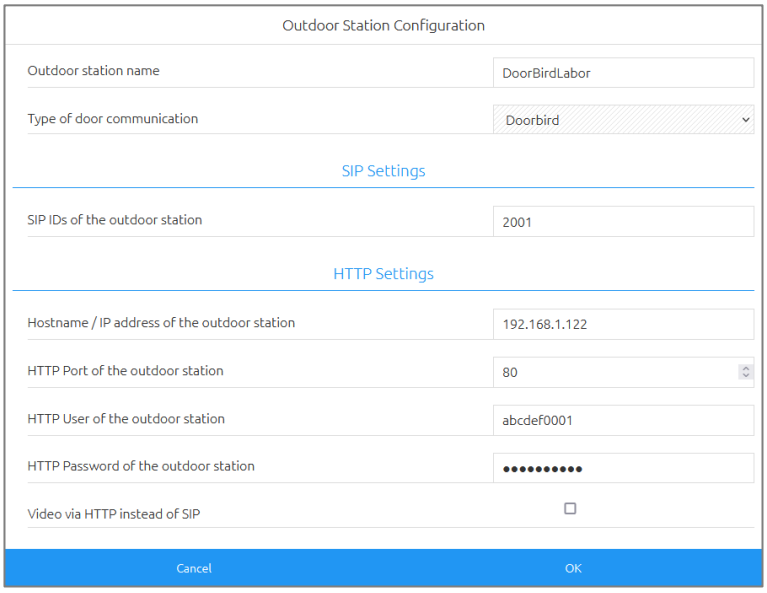


Figure 55: INTERCOMMODULE configuration DoorBird Outdoor Stations

For the settings of the indoor station, specify the information as described in Chapter 5.2. You need this data, e.g. for communication with CONTROL **T** 2. When integrated into the visualization of the EIB**PORT**, the configuration is carried out using the TOKEN and after the EIB**PORT** has registered with the **INTERCOM**MODULE.

To complete the settings in the **INTERCOM**MODULE, the call button of the DoorBird must be added. Enter the ***Call Button Name*** and the ***Call Button SIP ID*** under "Add". The outdoor station is your DoorBird.

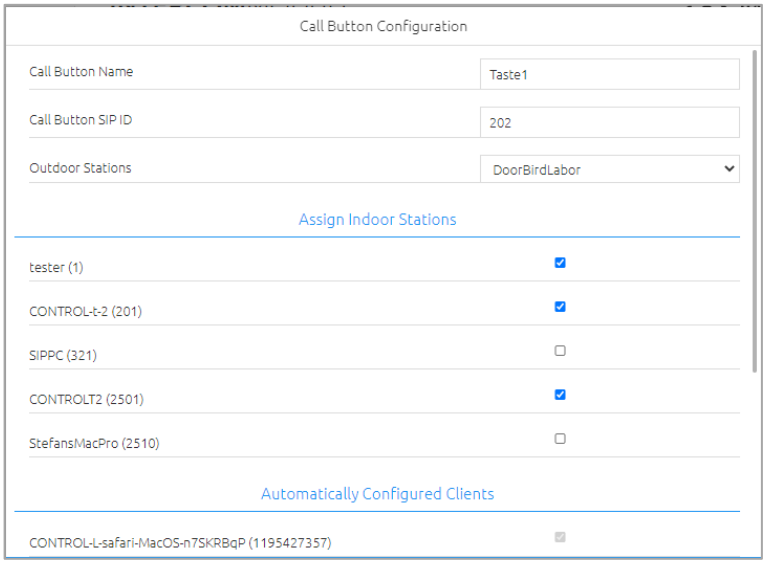


Figure 56: INTERCOMMODULE configuration DoorBird Call

With "Save settings" the device configuration is transferred to the module.

6.2 INTERCOM STATION CONFIGURATION 2N® IP VERSO

Prerequisite is that the 2N® IP Verso is set up into the ***Network***, a user is set up for each bell button, for SIP phone (web interface 2N®) and an HTTP API account with camera access is activated.

SETTINGS OF 2N® IP VERSO

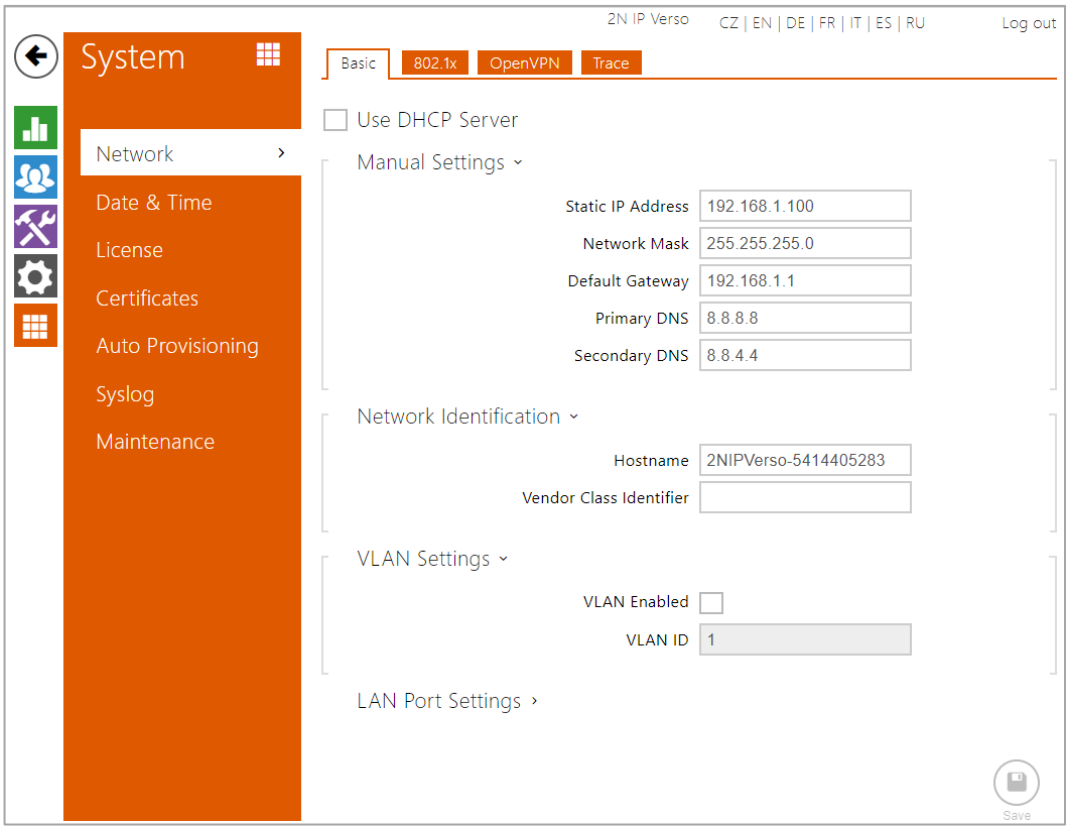


Figure 57: 2N® network settings

The following settings must now be done in the 2N® IP Verso web interface.

1. Log in to the web interface of your 2N®.
2. Navigate to ***Services*** | ***Phone*** and configure the SIP (see fig: 2N® SIP configuration)

Identity of the intercom

- *Display name:* This field is not important for the **INTERCOM**MODULE configuration.
- *Telephone ID:* Assign any 1-9-digit number here.
- *Domain:* Enter the IP address of the **INTERCOM**MODULE here.

Authentication is optional. For the **INTERCOM**MODULE the authentication isn't necessary.

SIP proxy

- ***Proxy address:*** Enter the IP address of the **INTERCOM**MODULE here.
- ***Proxy port:*** The proxy port is set to port 5060 by default.

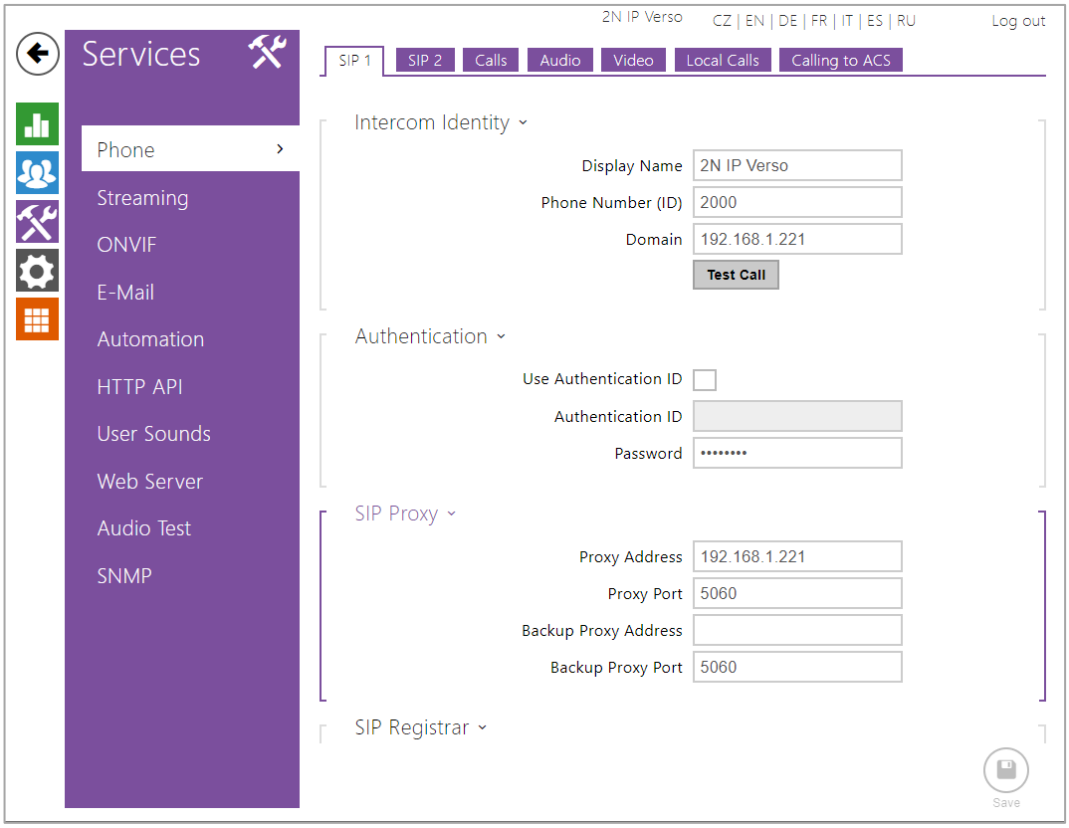


Figure 58: 2N® SIP configuration

NOTE:
In order to be able to use the additional functions door opener, relay (e.g. for light), an additional license is required and purchased separately. You need to activate this so-called "2N® Gold License" in the web interface of your 2N® IP Verso.

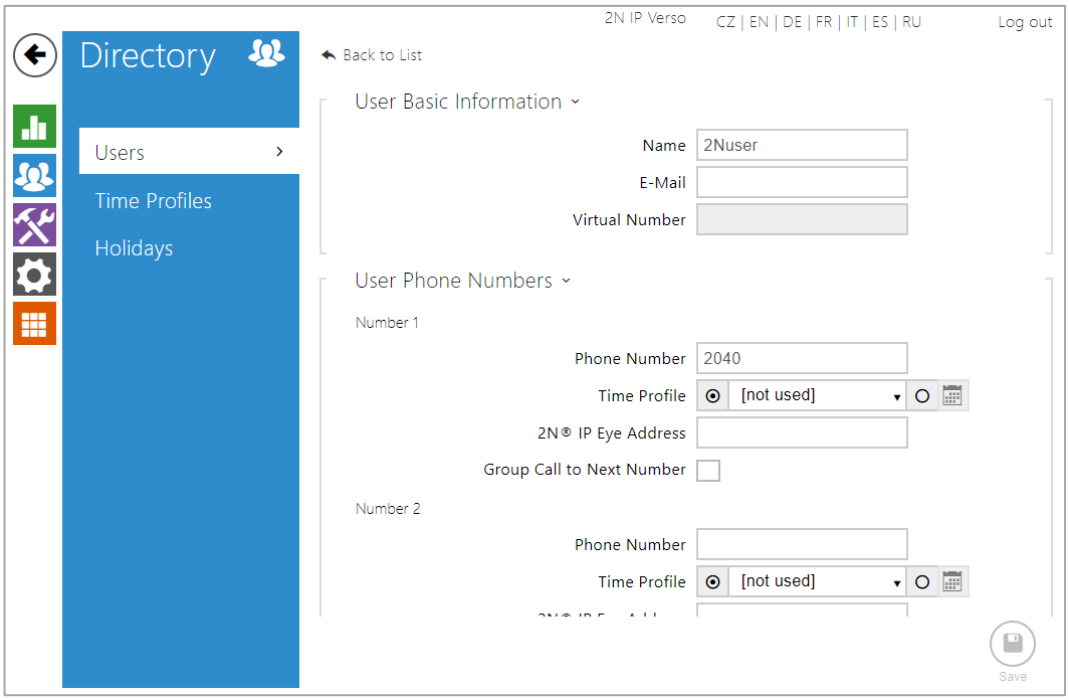


Figure 59: 2N® Phone numbers of the user

3. Navigate to ***Directory*** | ***User*** (see fig: 2N® Phone numbers of the user) and assign each bell button its own 1-9 digit phone number. In this example, the 2N® system has only one bell button. For each additional button you have to jump up one tab at the top.

   Number:

   - ***Phone number:*** Enter any 1-9-digit phone number here:
     Be sure to assign a separate phone number to each bell button.
   - ***Time profile:*** A time profile isn't necessary for using the **INTERCOM**MODULE.
     Please note that a time profile has an influence on the behaviour of the 2N®. If, for example, you limit the time of the SIP phone calls, that no SIP call is forwarded to the **INTERCOM**MODULE during this time.
   - ***2N® IP Eye address:*** Isn't necessary for the operation of the **INTERCOM**MODULE.
   - ***Parallel call for the following number:*** Activation for the parallel call to several clients isn't necessary at this item; you can also configure this function in the **INTERCOM**MODULE.

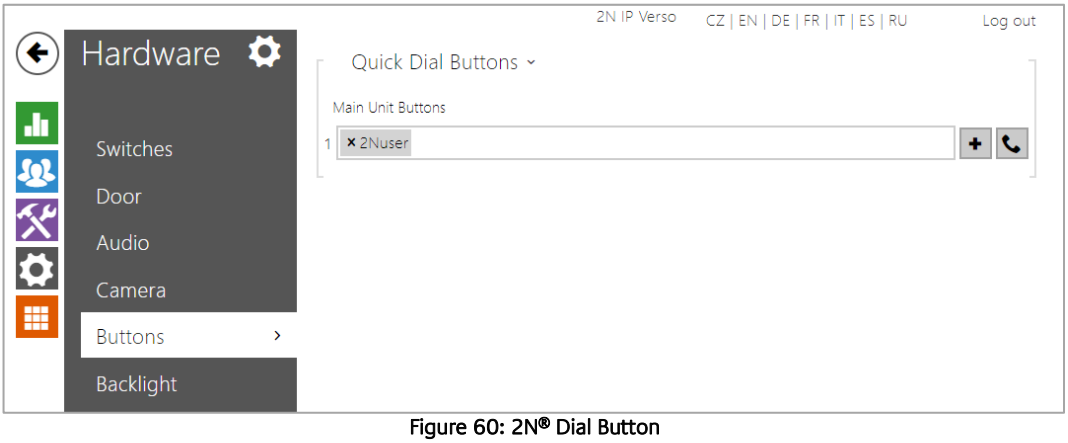


Figure 60: 2N® Dial Button

The created telephone number is now to be assigned to the button of the door intercom. This setting is made via the ***Hardware*** menu under ***Buttons***. Another window opens under "+" (Add) to select the user and the telephone number.

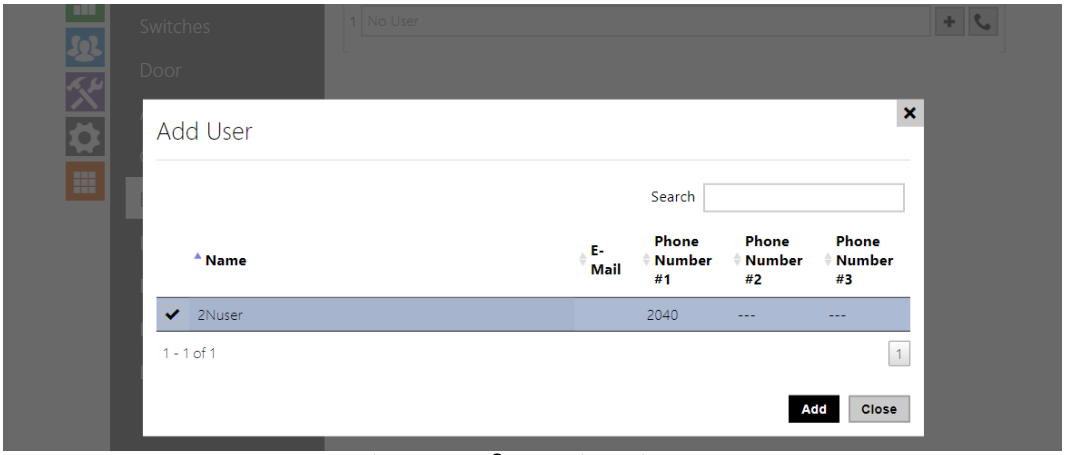


Figure 61: 2N® user assign to button

4. Navigate to the HTTP API; The adjustments to the transmission protocols are made under ***Services***. Deviating from the default settings:
   - ***Switch API*** is adapted to connection the type "Unsecure TCP" and authentication "Basic".
   - ***Camera API*** is adapted to the connection type "TCP" and authentication "Basic".

   Save your changes

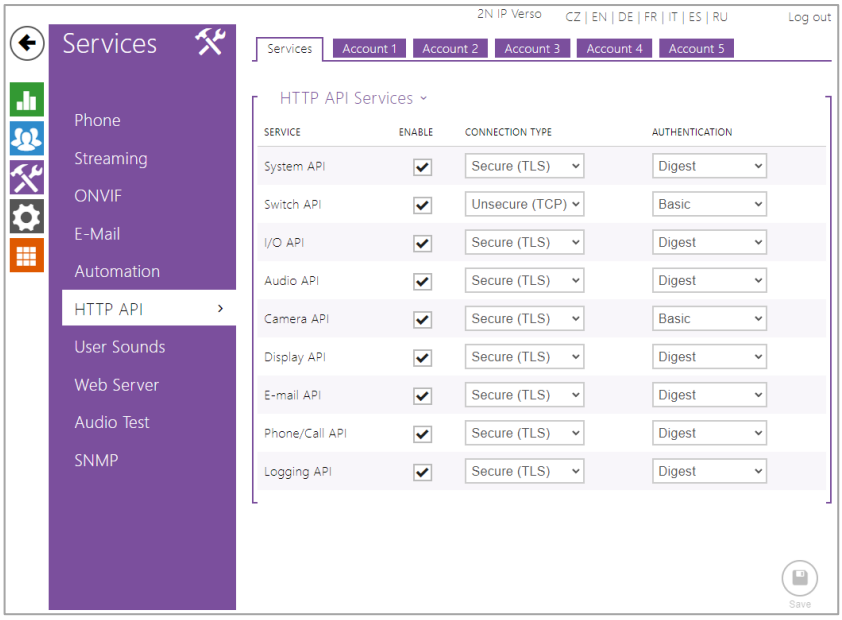


Figure 62: 2N® Configuration HTTP API services

5. Enable an account (see fig: 2N® Configuration HTTP API). These settings are important for audio and video transmission.

   User settings:
   - Username: This name is required for authenticating the client at **INTERCOM**MODULE.
   - Password: The password is required for authenticate the client at **INTERCOM**MODULE.

   User permissions:
   - Here you must activate the camera access for monitoring. All other settings are not necessary for video transmission.

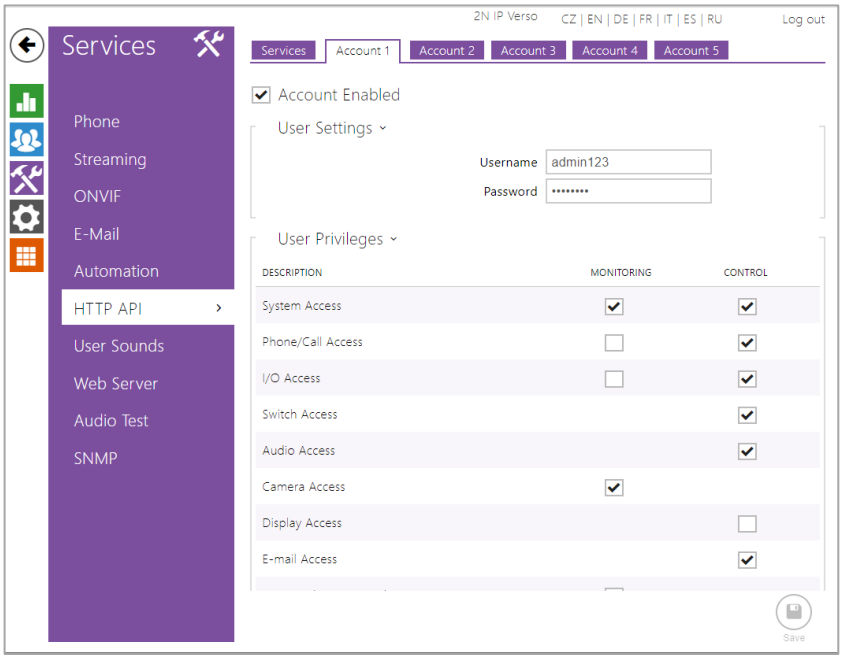


Figure 63: 2N® Configuration HTTP API

SETTINGS IN **INTERCOM**MODULE - 2N® IP VERSO

Configuration of the 2N® in the **INTERCOM**MODULE

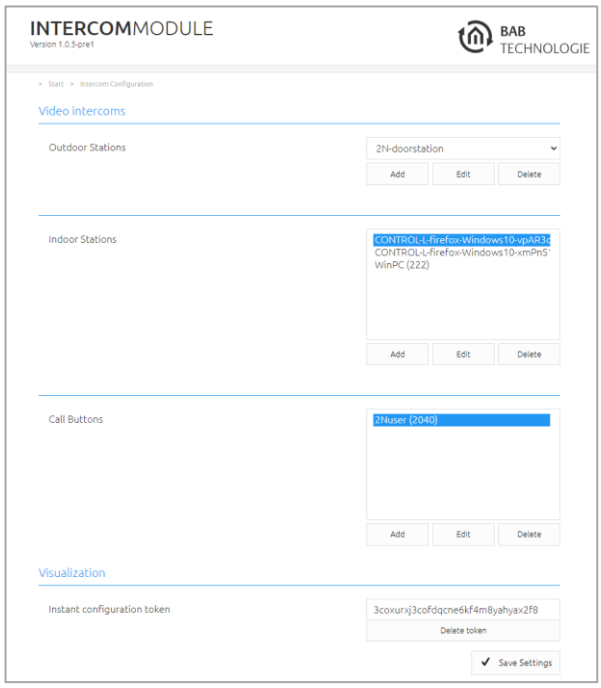


Figure 64: INTERCOMMODULE configuration 2N®

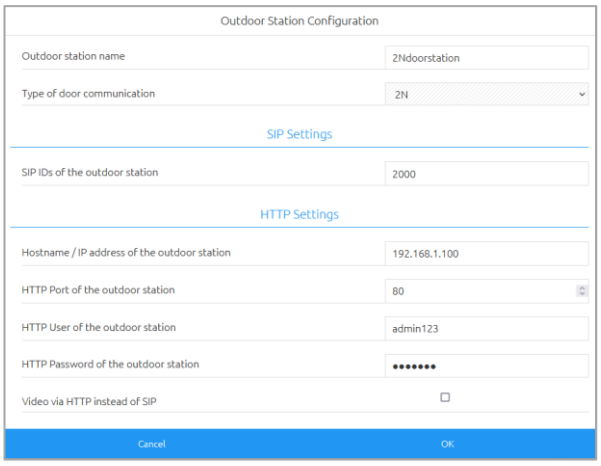


Figure 65: INTERCOMMODULE configuration 2N® Outdoor station

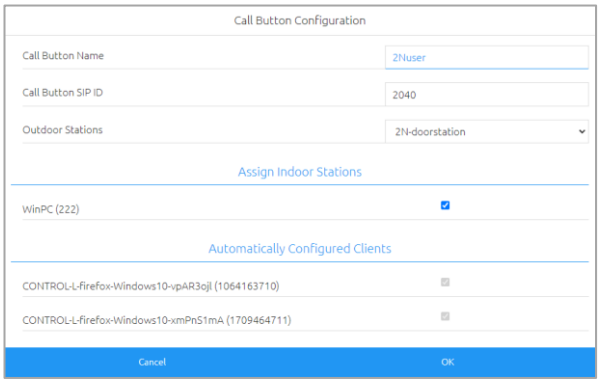


Figure 66: INTERCOMMODULE configuration 2N® Call Buttons

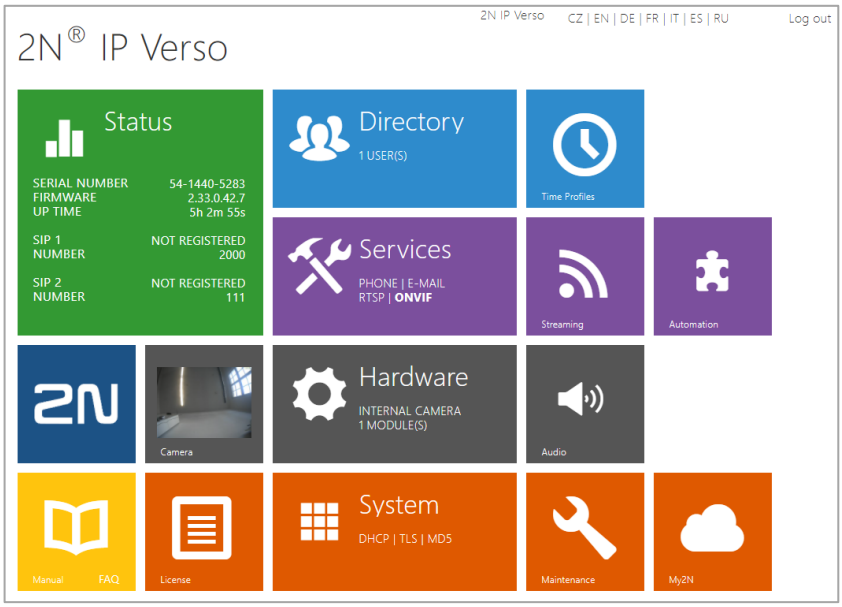


Figure 67: 2N® device overview

Note: In the 2N® IP Verso device overview it is not necessary that the SIP for the **INTERCOM**MODULE is displayed as registered.

6.3 INTERCOM STATION CONFIGURATION ABB-WELCOME® WITH IP-GATEWAY 3 BUTTON OUTDOORSTATION

The following settings were made with the IP gateway 83342 based on firmware 6.10. Changes to the firmware can lead to changes in the behaviour of the respective devices. In this case, we have no influence here and for updating our devices require sufficient time for adjustments in product development. Basically, only one call button can be assigned to the IP gateway 83342, which is used to transmit the calling SIP ID to other IP devices registered on the IP gateway 83342.

The prerequisite is that the IP gateway and the ABB-Welcome® outdoor station are set up in the network. The following settings must be done in the IP gateway.

SETTINGS AT ABB-WELCOME® IP-GATEWAY

Network configuration:

For a faultless connection to the **INTERCOM**MODULE the IP gateway must get a static IP address. If you work with DHCP, it may happen that the IP gateway gets a different IP address than what you entered during the configuration. These must be checked and re-entered in case of a faulty connection.

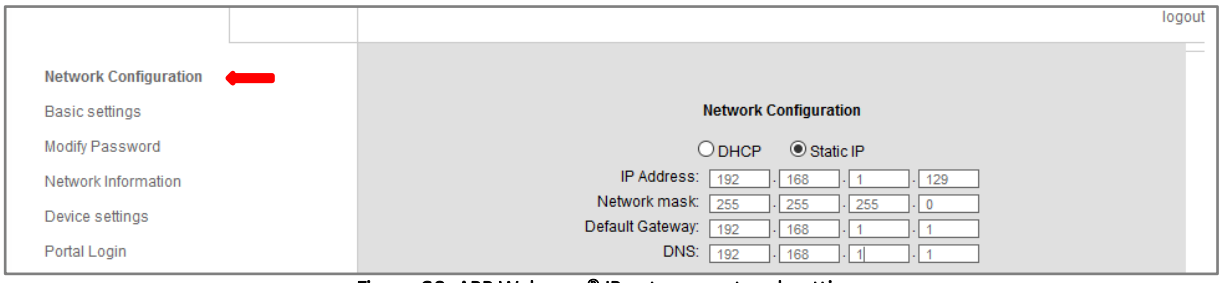


Figure 68: ABB-Welcome® IP gateway network settings

Basic settings

The "Indoor station address" is used to assign which button of the front-door station transmits the SIP call to the IP devices. The call button sequence is from the top with "1" to the bottom. Example: Outdoor station with 3 call buttons – here "2" the middle button.

The "Default outdoor station" should be left at the default setting of "1", provided the setting controls on the speech module of the outdoor station have not been changed.

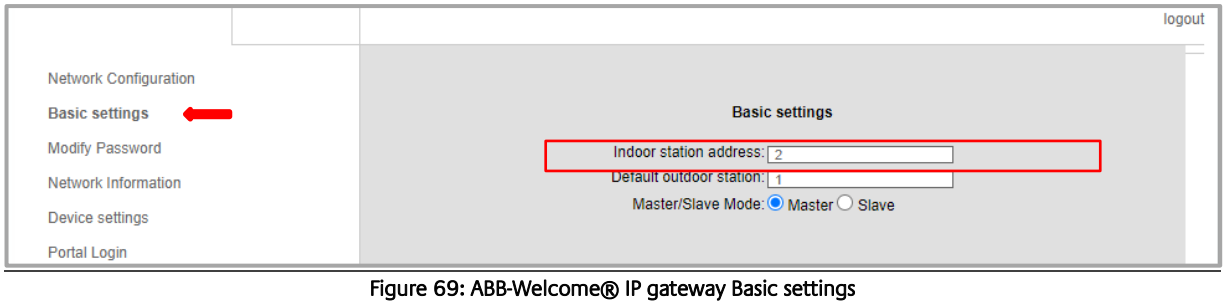


Figure 69: ABB-Welcome® IP gateway Basic settings

Note: Only one call button address can be assigned to the IP gateway 83342 at a time. If the settings are changed, the IP gateway should be rebooted after saving so that the required settings and assignments take full effect.

Device settings:

Here you must add at least one outdoor station.

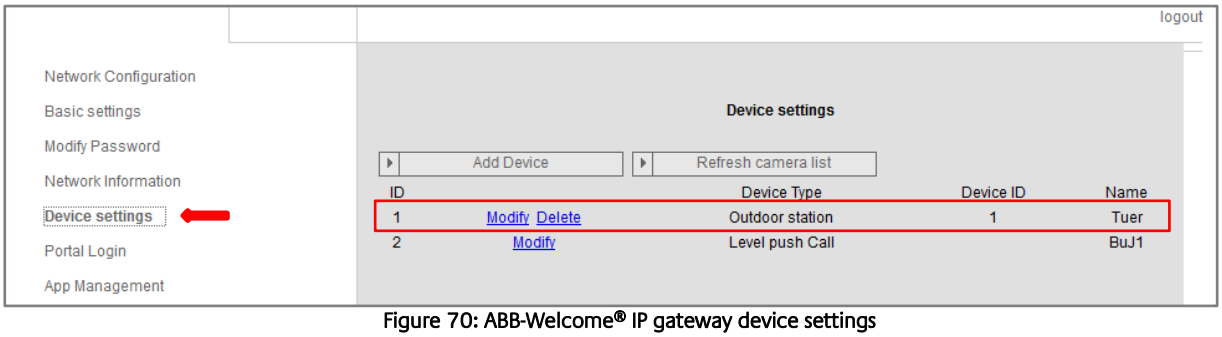


Figure 70: ABB-Welcome® IP gateway device settings

Appropriate authorisations can be set for the outdoor station.

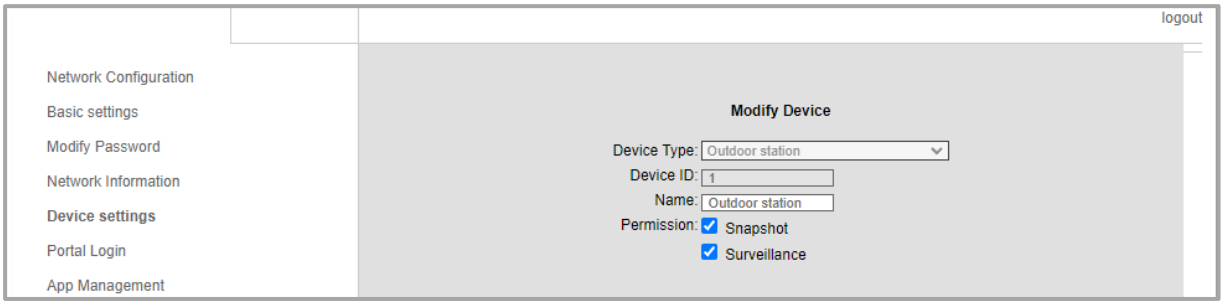


Figure 71: ABB-Welcome® IP gateway Basic settings / Permission

Associated ComfortTouch 2.x:

Activating the "Yes" compatibility mode of the "Associated ComfortTouch 2.x" determines which function of the additional door opener or light relay keys can be used. In order to be able to use the door opener function, the IP should not correspond to that of the **INTERCOM**MODULE. In other cases, as well as if the compatibility mode is "No", only the light function can be used.
Further configuration settings are made in the ComfortTouch 3.x menu.

Figure 72: ABB-Welcome® - Associated ComfortTouch 2.x

Associated ComfortTouch 3.x:

Create a user under "Associated ComfortTouch 3.x". You will need this user in the **INTERCOM**MODULE for the configuration of the outdoor station as well as in the CONTROL **T** 2 software for the configuration of the intercom system. The CONTROL **T** 2 software is described in a separate documentation.

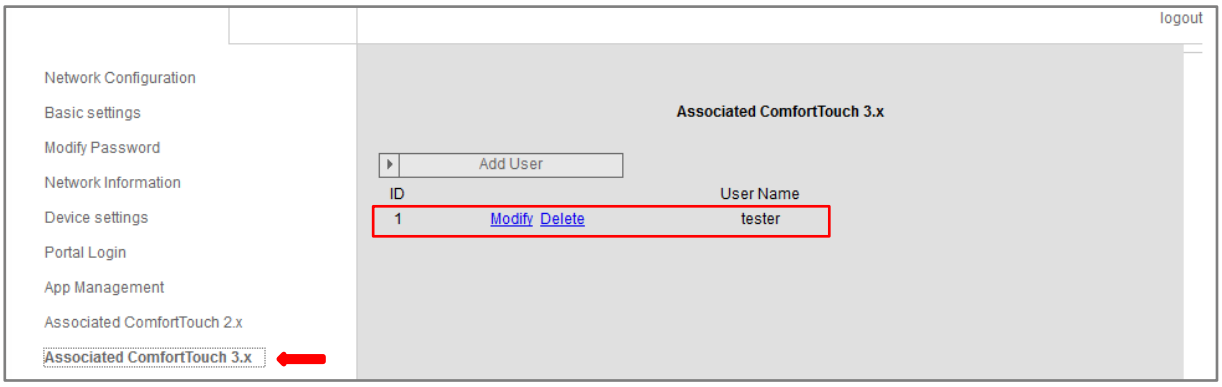


Figure 73: ABB-Welcome® IP gateway create user

Appropriate authorizations must be set so that the created user can use the door opener and light switching functions. In general, this should take place automatically when you create it, but you should check it under Edit and correct it if necessary.

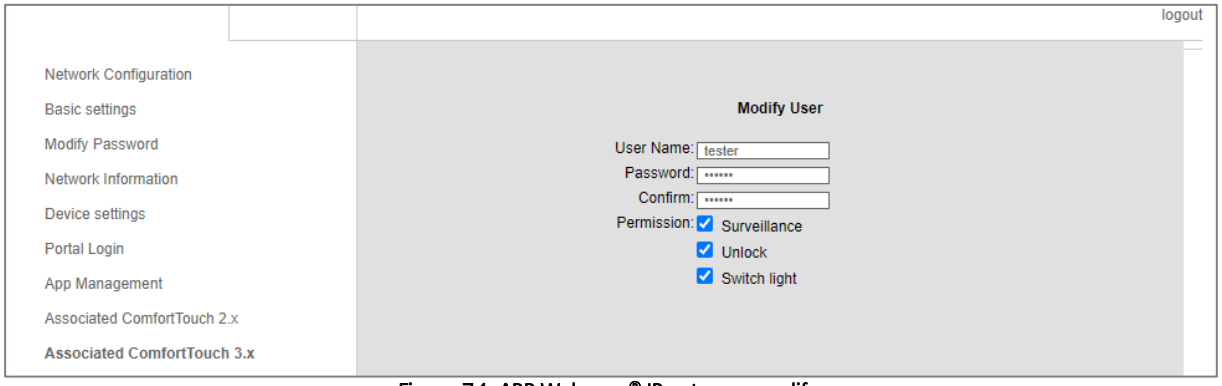


Figure 74: ABB-Welcome® IP gateway modify user

Note: The door opener function (TÖ = Unlock) and the switching function for light (Switch light) are permanently set in the **INTERCOM**MODULE to the DTMF tones "1" (TÖ) and "2" (light). The default setting of the ABB-Welcome® IP gateway should correspond to this, or it may need to be adjusted in your ABB-Welcome®.

Now configure your Welcome outdoor station.
For the **INTERCOM**MODULE there are three potentiometers on the back side of the outdoor station, there are important. Here you set the SIP ID of the call buttons.

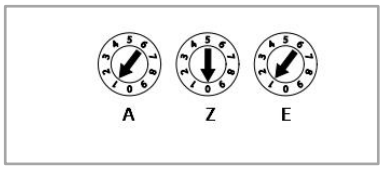


Figure 75: SIP-ID call buttons

The left potentiometer indicates the address of the outdoor station. The middle and right potentiometer indicate the address of the upper bell button of the outdoor station. The underlying bell buttons are numbered from top to bottom in order. Thus, for this example, a SIP ID for the upper bell button arises as follows.

1. Address of the outdoor station (Y) = 1
2. Now 6 zeros are added internally
3. Address of the indoor station composed of tens place (Z) and one place (E).

Y000000ZE = 100000001

For the underlying bell button, it then behaves as follows:
Y000000ZE+1 = 100000002
Y000000ZE+2 = 100000003

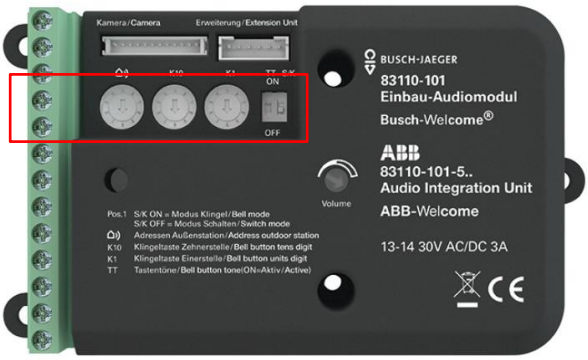


Figure 76: SIP settings module 83110-101

To check and inform yourself about the settings of your IP Gateway 83342, you can download the configuration file from the device and open it with a text editor. Here you will also find the set SIP ID with which the call is made.

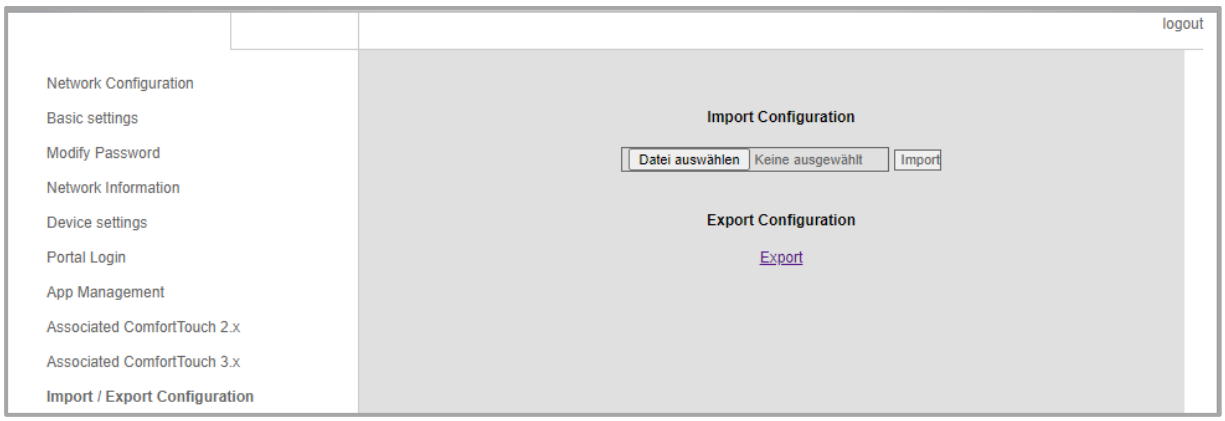


Figure 77: ABB-Welcome® IP-Gateway- Configuration file

SETTINGS IN INTERCOMMODULE - ABB-WELCOME® IP-GATEWAY

Outdoor Station Configuration

After the configuration of the ABB-Welcome® has been carried out, these settings must be made in the configuration of the **INTERCOM**MODULE.
First, the settings for the ABB-Welcome® outdoor station are made. The **INTERCOM**MODULE has integrated a manufacturer-specific device profile for this purpose, so that these settings are now quite simple.
Outdoor station name: Assign a name for this door intercom connection, e.g., ***"Welcome"***.
Type of door communication: Now select the ***"ABB Welcome IP-Gateway"*** profile.
SIP IDs of the outdoor station: "1,100000001", corresponding to the IDs in the ABB-Welcome®, separated by a comma without spaces ("1" for the SIP front-door station itself and "100000001" for the button).
Username ComfortPanel (Substitute CONTROL L CUBEVISION or CONTROL T2): ***"tester"***, as this user was created in the IP gateway and ***Associated ComfortPanel 3.x***.
Password ComfortPanel (Substitute CONTROL L CUBEVISION or CONTROL T2): ***"tester"***, as this password was created in the IP gateway and ***Associated ComfortPanel 3.x***.
Hostname / IP address of the outdoor station: is the IP of the IP gateway ***"192.168.1.129"***.
HTTP port of the outdoor: Leave the port at ***"80"***.

Now save the entries with OK. There is a temporary storage, only when the entire instance is saved are these entries permanently stored in the **INTERCOM**MODULE.

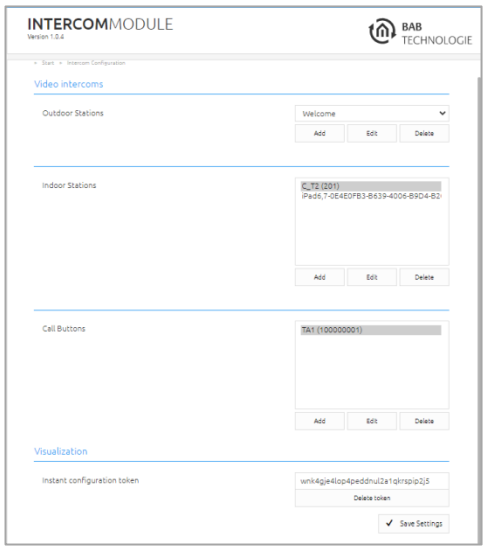


Figure 78: INTERCOMMODULE configuration ABB-Welcome®

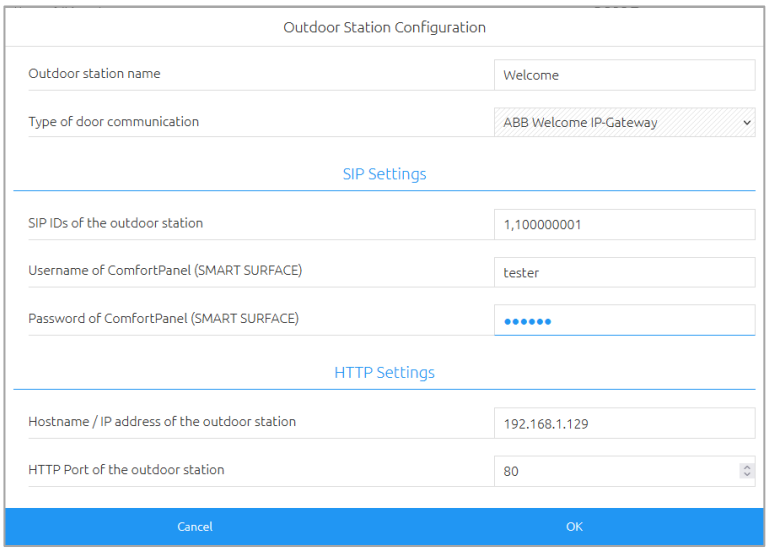


Figure 79: INTERCOMMODULE configuration ABB-Welcome®/ Outdoor station

Indoor Station Configuration

Most indoor stations, as well as visualisations CONTROL L and the CUBEVISION 2+ App, are automatically configured via a token. In addition, further indoor stations (e.g., a Surface with Control **T** 2 “C_T2”) or SIP clients can also be added manually. You can therefore enter the name, the SIP ID and the password of your required indoor station here. Please note the information in the "Indoor stations" chapter.

Cal Button Configuration

Call Button Name: Enter a name for the call button, e.g. the person to be called, in our example ***"TA1"***.
Call Button SIP-ID: ***"100000001"***, according to the setting in ABB-Welcome®.
Outdoor Stations: Select the relevant outdoor station, our example ***"Welcome"***.

Assign Indoor Stations: If manual indoor stations have been created, they must be activated for the call button so that the call to these indoor stations is established.

Automatically configured Clients: When setting up the connection via the token, all call buttons are always activated. In the visualization itself, it can be determined on which call button a connection is established.

Now confirm the entries with OK. Finally, save the entire instance. This means that these entries are permanently stored in the **INTERCOM**MODULE.

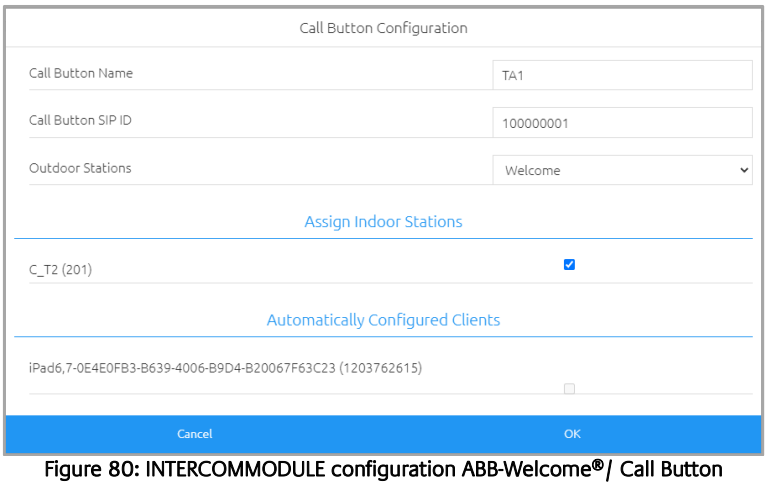


Figure 80: INTERCOMMODULE configuration ABB-Welcome®/ Call Button

CONFIGURATION IN CONTROL T 2 FOR BUSCH ABB-WELCOME® IP-GATEWAY 3-BUTTONS OUTDOORSTATION

Requirement is that the IP-gateway and the ABB-Welcome® outdoor and indoor stations are installed with right settings into the network and the INTERCOMMODULE has correspondingly correct setup. In the following make the settings as it was done in the IP gateway and INTERCOMMODULE.

Menu item "Add intercom system" or "Edit intercom system" for changes:

Select the device type "Busch Welcome". Thereafter other input fields are adapted. Now enter the appropriate values. Please have attention to the right data format.

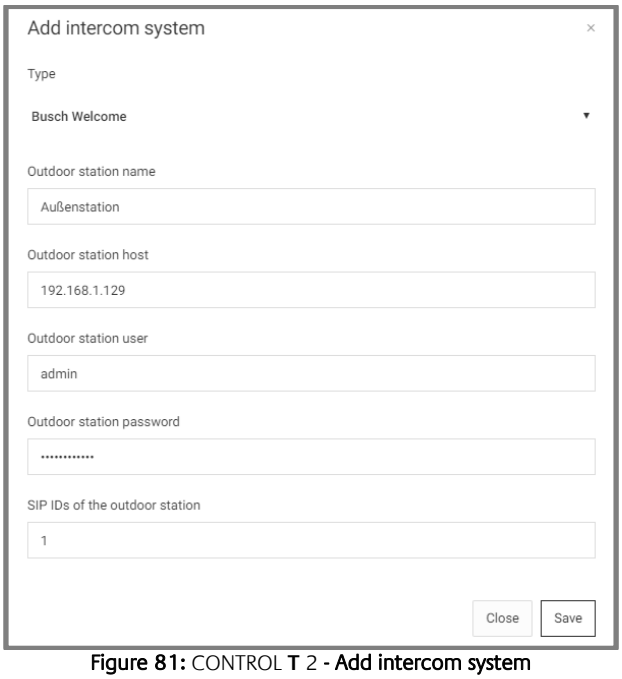


Figure 81: CONTROL T 2 - Add intercom system

NOTE:

- Outdoor station host: the IP-address of your IP-gateway e.g. 192.168.x.y
- Outdoor station user: - if not changed, here the user's name of the IP-gateway
- Outdoor station password: - if not changed, here the IP-gateway password
- SIP IDs of the outdoor station: the standard, IP-gateway takes here "1"

With "Save" the data is stored to your configuration and you will see these current entries in the software.

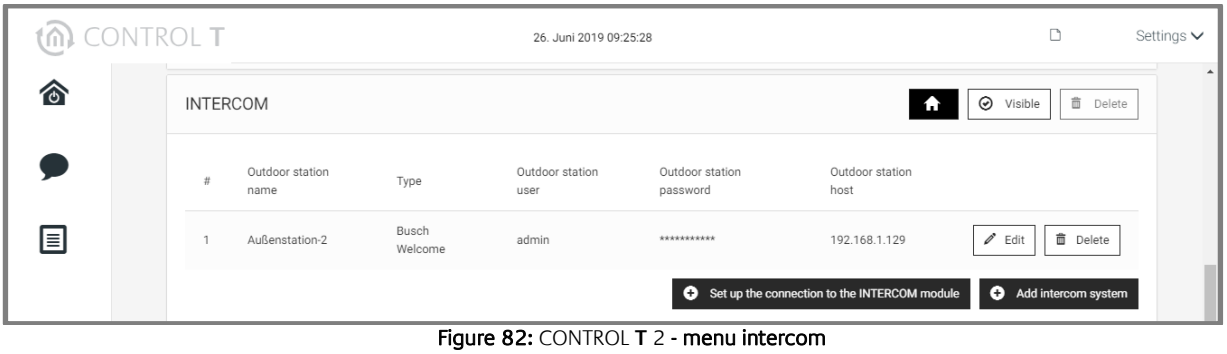


Figure 82: CONTROL T 2 - menu intercom

Menu item “Set up connection to the INTERCOM module”:

Make the settings as it was done in the IP gateway and **INTERCOM**MODULE.

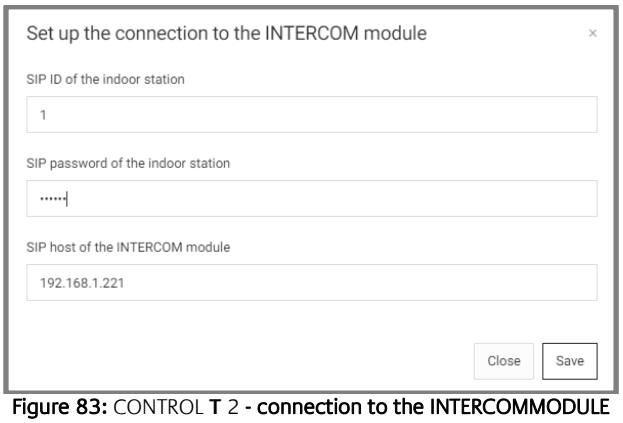


Figure 83: CONTROL **T** 2 - connection to the INTERCOMMODULE

NOTE:
SIP ID of the indoor station: the standard, the IP gateway takes here "1"
SIP password of the indoor station: as it was assigned in the IP gateway under "associated ComfortPanel"
SIP host of the INTERCOM module: here only the IP-address of the **INTERCOM**MODULE in the format e.g., 192.168.x.y
With "Save" the data is stored to your configuration.

TROUBLESHOOTING:
For systems where data is also synchronized over the Internet, e.g., IP-gateway, the failure of the Internet connection can lead to limitations in displaying the CONTROL **T** 2. Thus, in case of incorrectness of behavior misconduct of the software please check your respective connections and also to the Internet.

6.4 INTERCOM STATION CONFIGURATION AGFEO IP-VIDEO TFE 1

The prerequisite is that the AGFEO IP-VIDEO TFE 1 is set up and available in the network. Make sure that the AGFEO gets a static IP network address so that is possible a stable communication between the devices. Now you can carry out the necessary configuration in the **INTERCOM**MODULE and then transfer these settings to the configuration of the AGFEO IP-VIDEO TF 1.

SETTINGS IN **INTERCOM**MODULE

Following setting must be made next:

1. Go to the menu: "Intercom configuration" / outdoor station; Under Add, select the outdoor station AGFEO as ***Type of door communication.***
2. For the ***Outdoor station name*** enter your name.
3. ***IP address of gateway/ outdoor station:*** <IP of your AGFEO>: 8080

Note: Because the default port isn't used here, the port: 8080 must be added!
The AGFEO must have a static IP network address, which you can assign as static via your system (router).

4. ***SIP IDs of the outdoor station:*** Your choice; a 1-to-9-digit number, not beginning with "0". This SIP ID is the authentication name for the AGFEO settings and must also be used as well as username. Both names must be the same!
5. ***User of the outdoor station*** and ***password of the outdoor station***: Here you enter the login data of your AGFEO.
6. ***SIP-ID (registration*** of the AGFEO at the **INTERCOM**MODULE): as under item 4. the same authentication.
7. ***Password (registration*** of the AGFEO with the **INTERCOM**MODULE): Define a password A-Z, a-z; 0-9 and special characters are possible).

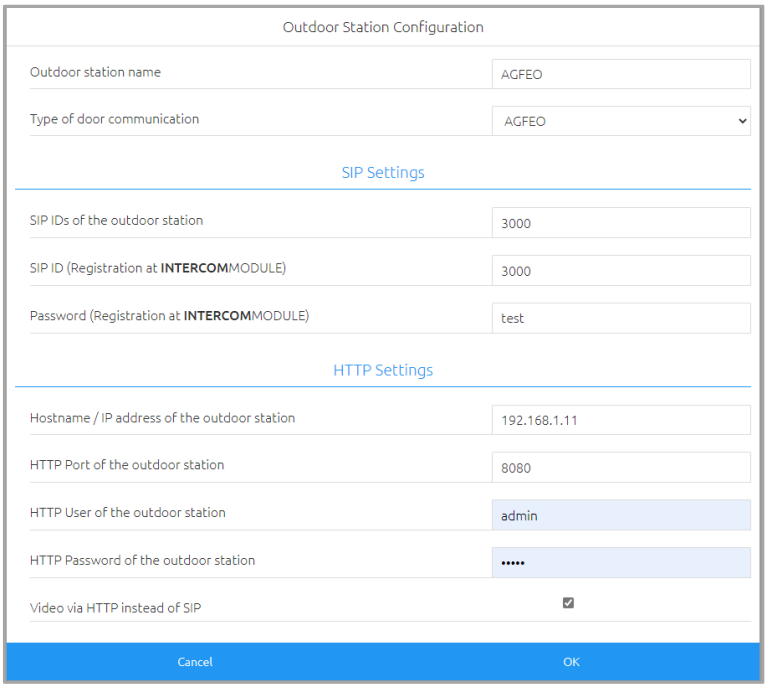


Figure 84: INTERCOMMODULE – Outdoor station configuration AGFEO

8. For the settings of the indoor station please specify the settings as described in chapter 5.2. You need these settings, e.g. communication with CONTROL **T** 2. When integrated into the visualization of the EIB**PORT**, the configuration is carried out by using a TOKEN and after the EIB**PORT** has logged in to the **INTERCOM**MODULE.

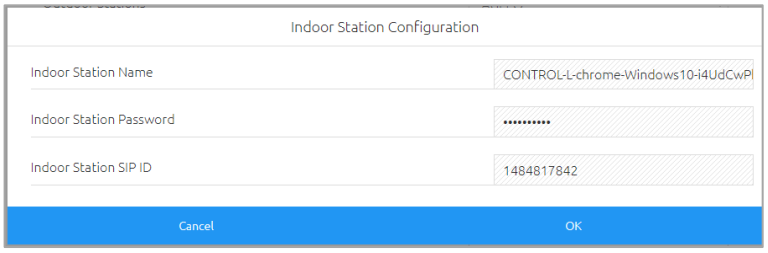


Figure 85: **INTERCOM**MODULE – Indoor station configuration AGFEO

To complete the settings at **INTERCOM**MODULE the call button of the AGFEO IP video TFE1 must still be created. Go to "Add" via the menu of the call button:

9. ***Call button name***: Enter a name here. This name appears e.g. in the EIBPORT if integrated.
10. ***Call button SIP ID***: Set a numeric ID. This must be entered then in the AGFEO.
11. ***Outdoor stations***: Select here the connection to the AGFEO.

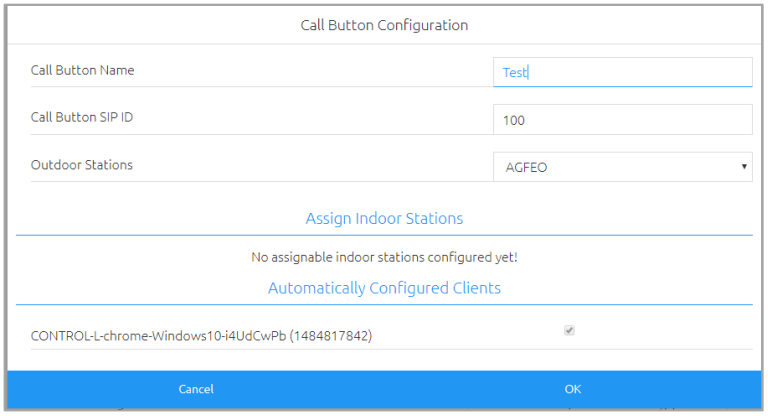


Figure 86: INTERCOMMODULE – Call buttons configuration AGFEO

If you use the intercom with the visualization at EIB**PORT** after the auto-registration of the EIB**PORT** at the **INTERCOM**MODULE (by using that TOKEN) the connection information appears in the configuration field of this window.

SETTINGS AT AGFEO IP-VIDEO TFE 1

Once the required settings have been defined and made in the **INTERCOM**MODULE these settings must now be taken over in the AGFEO.

Because of previous settings at **INTERCOM**MODULE you're already familiar with the access to your AGFEO. Log into your AGFEO and open the menu "Network (LAN)". If necessary, you can change the network settings of AGFEO here.

For the network settings make sure that the AGFEO IP video TFE 1 has a static IP network address. You can either assign a static address here in the settings or your system (router) assigns a static address.

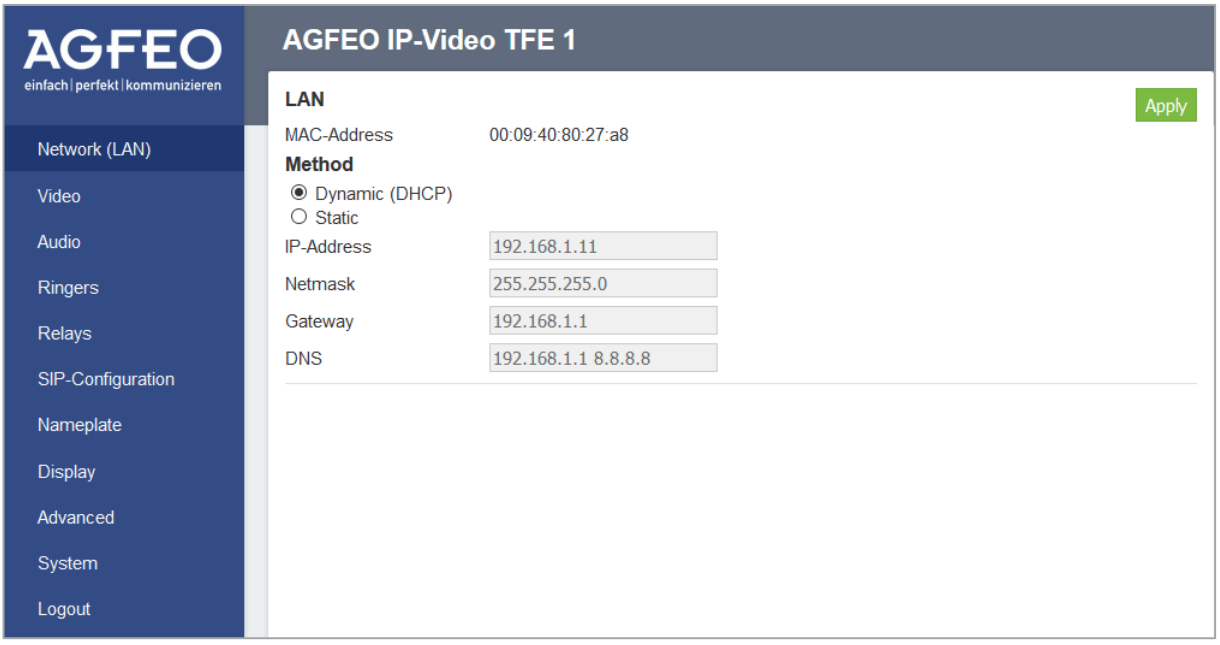


Figure 87: AGFEO Network

Further on open the menu item of AGFEO "Video", here you can make the desired settings and also you'll find URL addresses for image display, which you can use in various elements of the visualization. Please have attention to the privacy statements when using it.

Figure 88: AGFEO Video

The next menu item is "Ringers" (doorbell button) and adjust the settings accordingly. Please note that the call duration is chosen to be sufficiently in time that a communication between the outdoor and the indoor stations can be established and the user has enough time to accept the call at the indoor station.

Dial number: as already assigned stated, here in the example SIP = 100.
Dial timeout: duration: 30 seconds should be sufficient.
Max. talk time: here in the example is limited to 600 seconds.
Further settings are optional and not mandatory.

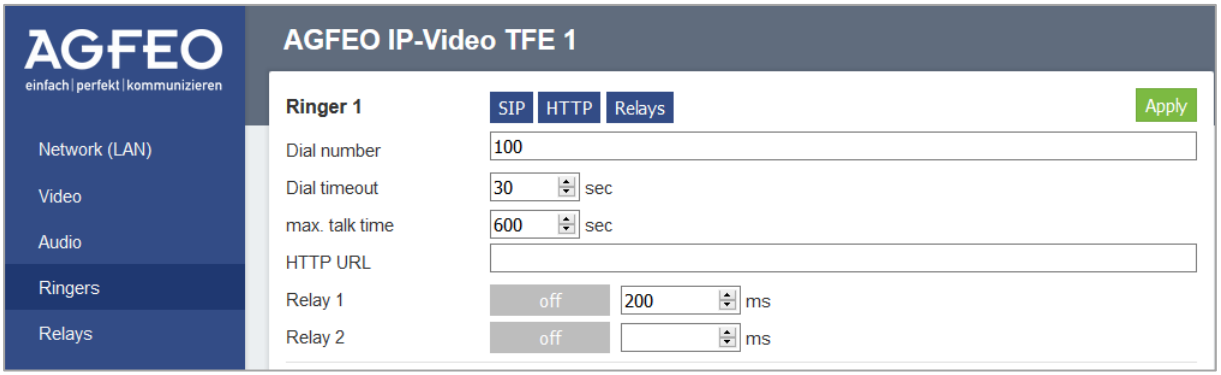


Figure 89: AGFEO Doorbell buttons / ringers

At last please open the settings for SIP- configuration. Enter here:
as server: <IP of the ICM>
Username and Authentication name (both equal): as already specified the numeric SIP
Password: accordingly, as already defined in the **INTERCOM**MODULE settings of the door station.
If all entries are correct and a connection to the **INTERCOM**MODULE has been established, the status changes to green.

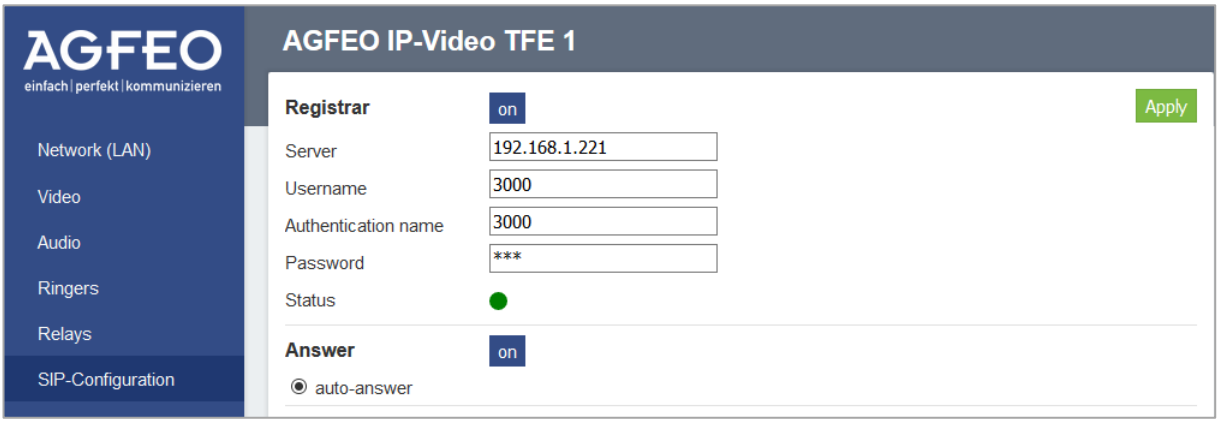


Figure 90: AGFEO SIP-configuration

After successful configuration a first video connection may be taken a little longer time. If you have enabled storage for this connection in the browser, further connections / calls are much faster for establishing.

6.5 INTERCOM STATION CONFIGURATION MOBOTIX T25

The prerequisite is that the MOBOTIX T25 is set up and available in the network. Make sure that the MOBOTIX gets a static IP network address so that is possible a stable communication between the devices. Depending on, whether the MOBOTIX T25 already has been set up and configured, the required data for the communication must be transferred from the settings of the MOBOTIX to the configuration of the **INTERCOM**MODULE.

SETTINGS AT MOBOTIX, IF NOT CONFIGURED

If the MOBOTIX T25 has not been configured yet, you must do this before integrating it into the **INTERCOM**MODULE. The manufacturer offers a variety of tools and procedures. If you have any questions, please get in touch to manufacturer directly. So there is available application software, such as "MxSoftPanel" to check the functionality of your MOBOTIX station. This can be very helpful in testing communication with your system and detecting any differences in settings.

After the MOBOTIX T25 has been configured, please proceed further as described below.

SETTINGS AT MOBOTIX, IF ALREADY CONFIGURED

The MOBOTIX T25 has been configured accordingly and you have checked the audio / video connection by using the mentioned software. To register the MOBOTIX T25 at **INTERCOM**MODULE, log in to the settings of your MOBOTIX if enter the corresponding IP address in the browser. The required device settings can be found in the "Admin Menu".

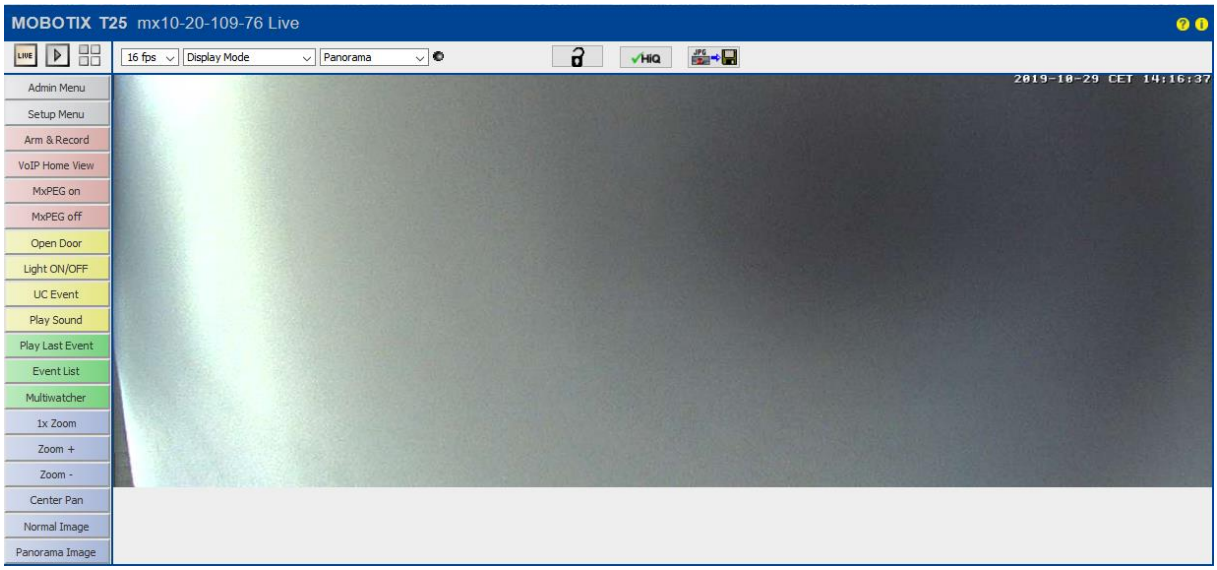


Figure 91: MOBOTIX T25 Settings

After you have logged into the Admin menu, the device settings are required from the following menu items:

- Ethernet interface
- Audio- and VoIP telephony
- Video door station

Other additionally named menu items relate primarily to checking deviations from the assumed default values.

When changing settings, the functions of the menu keys must be observed:

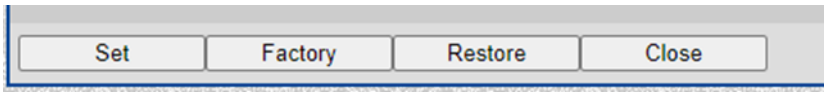


Figure 92: MOBOTIX T25 – Menu buttons

Set - Your changes are set to take effect, but are not yet saved permanently.

Factory - If you have set up your system via auto-configuration, it is possible that your settings do not correspond to the default values that form the basis for the configuration with the **INTERCOM**MODULE. Instead of resetting the entire system, please use the reset to default settings in the respective submenus. Please note, however, that this reset also affects other submenus, so that you must recheck all settings that have already been changed.

Restore - The last saved configuration from the permanent memory of the MOBOTIX T25 is restored here.

Close - Your settings are only transferred to the device memory of the MOBOTIX T25 for permanent use when you close it.

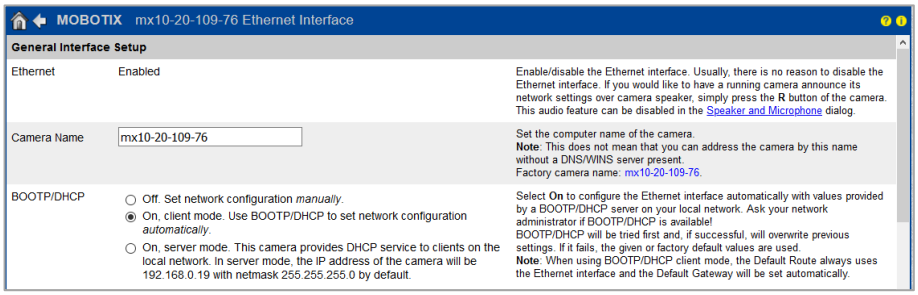


Figure 93: MOBOTIX T25 Ethernet-interface

The menu item “Ethernet interface” is only for testing: Device name, activated, device in client mode, as well as DHCP or static IP address.

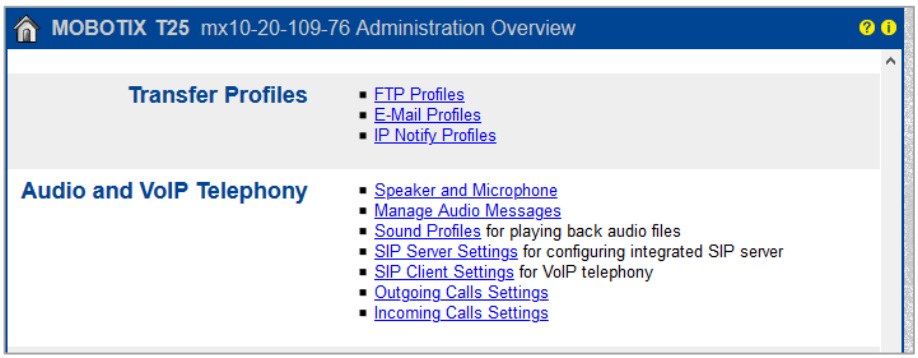


Figure 94: MOBOTIX T25 Menu - Audio and VoIP telephony

From menu for the audio and VoIP telephony you need information like:

- SIP-client-settings
- Outgoing call settings

Before you configure the settings for the SIP client, make sure that the MOBOTIX T25 is switched off as a SIP server.

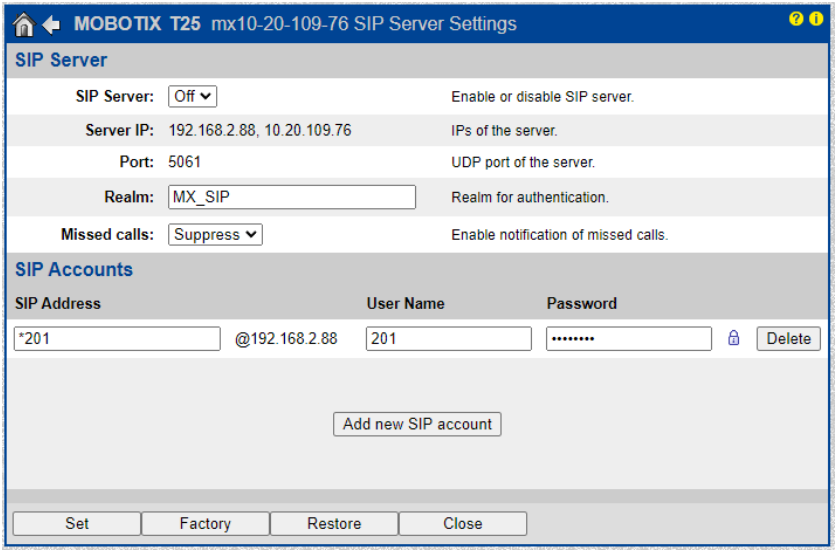


Figure 95: MOBOTIX T25 - SIP server settings

Open the menu item ***SIP Client Settings***.

If no sub-item ***SIP accounts*** is displayed after opening, change the ***Setup Mode*** from "Quick Setup" to "Expert Setup". (Marked red).

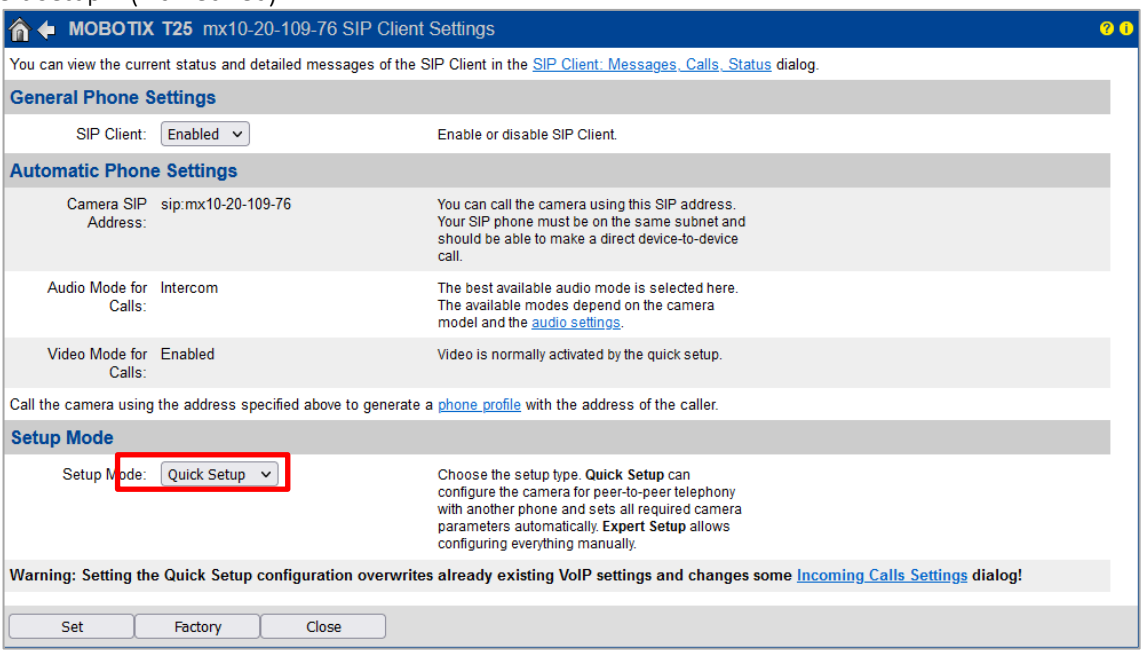


Figure 96: MOBOTIX T25 - SIP configuration

After changing the Setup Mode, you will find the configuration for SIP accounts to adapt your SIP server, and thus for the **INTERCOM**MODULE.

In the next step activate the field ***SIP client***. If there is no input for SIP accounts, enable ***Add new SIP account***.

In the SIP-client-settings you must enter the SIP data of your **INTERCOM**MODULE. The numerical SIP-ID and "@ <IP of the INTERCOMMODULE>" is the complete SIP-address of your **INTERCOM**MODULE, whereby the communication is going via the port enabled in the **INTERCOM**MODULE. Please enter this port (5060) accordingly in the MOBOTIX settings.
Enter the login data / authentication exactly the same as in the outdoor station configuration of the **INTERCOM**MODULE. Password: A-Z; a-z; 0-9 and special characters are possible.
Enter additional information as shown in the image; Time for audio data ... set to 60s. The ***Incoming call greeting*** can be disabled.
The configuration is saved with ***Set***.

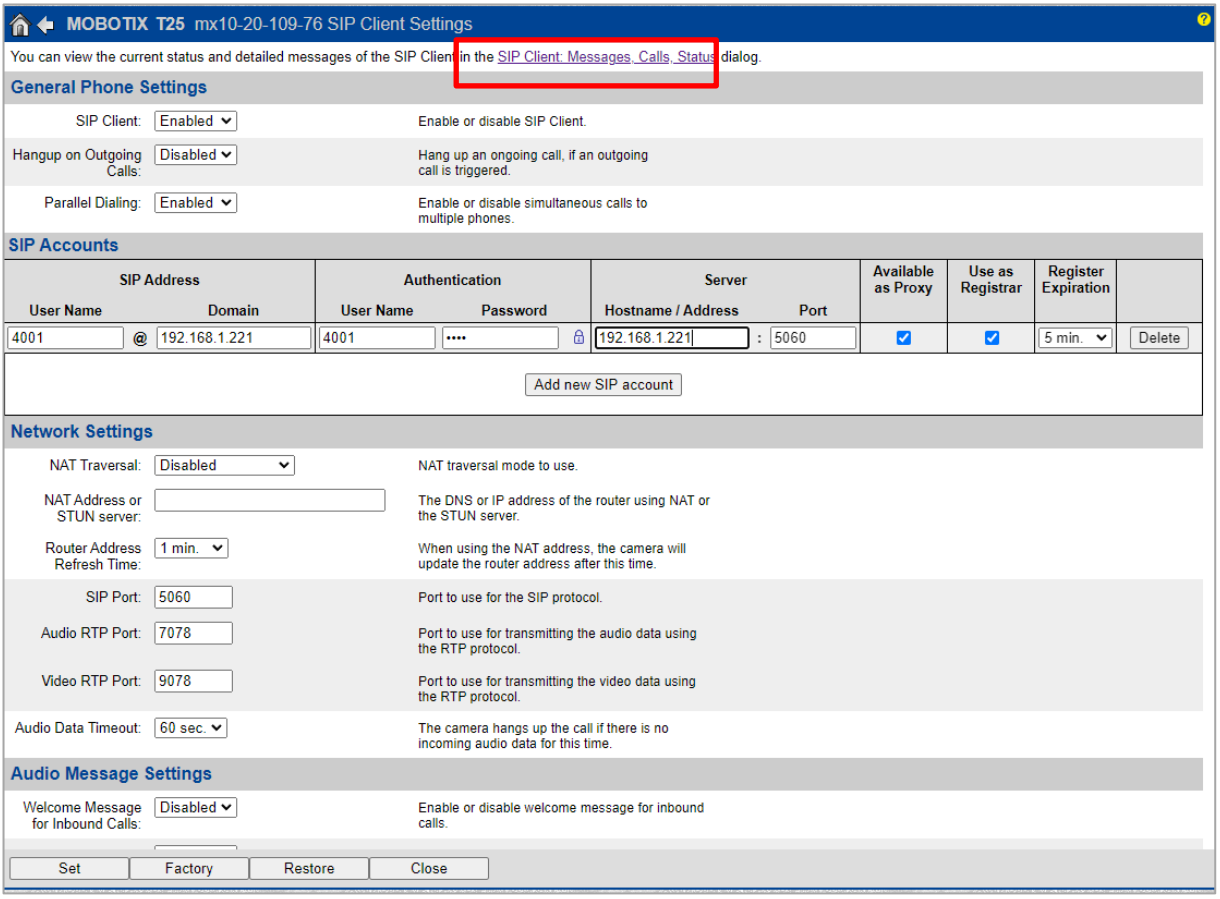


Figure 97: MOBOTIX T25 SIP-client-settings

SIP Client Messages Calls Status (Red) - You can use this link button to check that the MOBOTIX T25 has established a successful connection to the **INTERCOM**MODULE.

In the settings for outgoing calls the configuration takes place according to the call button configuration in the **INTERCOM**MODULE. (Telephone number = SIP ID of the call button). SIP Proxy is the SIP address of the **INTERCOM**MODULE. The profile name is specified by the system itself and must not be changed.

Change ***Connection type*** to "SIP Video", ***Message name*** to "DoorBell" and ***After the message has been sent*** to "Intercom" accordingly. Save the settings with ***Set***. If the settings are available in the **INTERCOM**MODULE, carry out ***Test***.

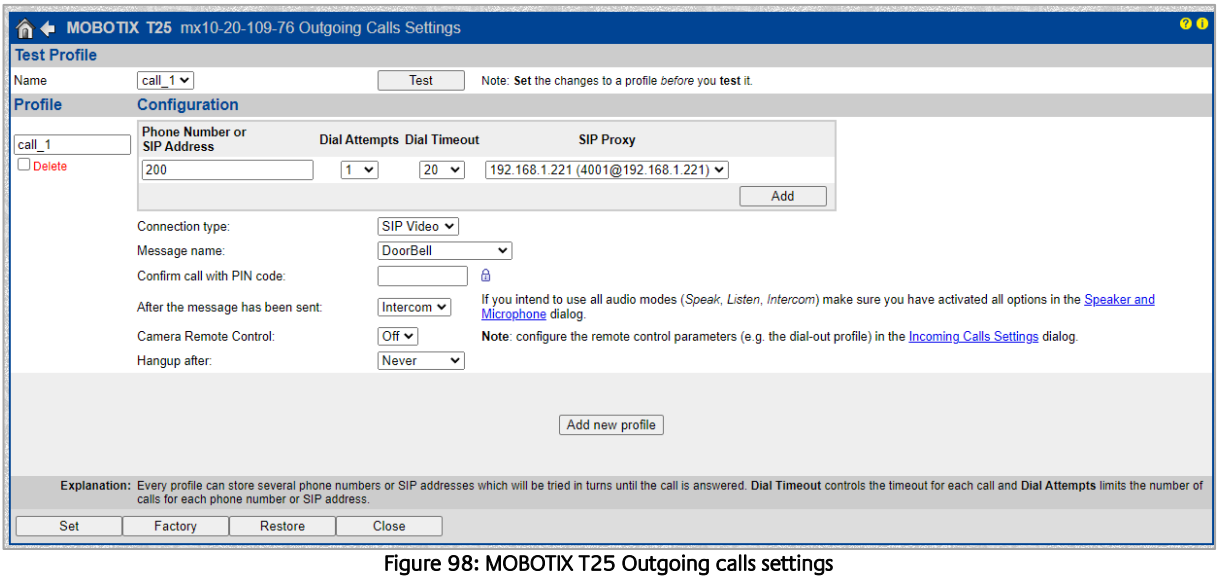


Figure 98: MOBOTIX T25 Outgoing calls settings

At menu of the video door station the following submenus are required for integration into the **INTERCOM**MODULE:

- Bell behaviour and video mailbox
- Automatic configuration

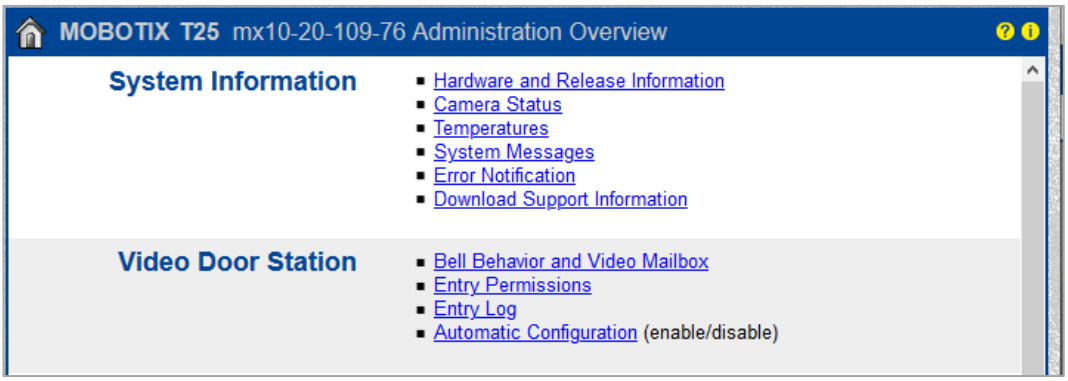


Figure 99: MOBOTIX T25 Menu Video-door-station

Then go to the menu of the Video Door Station
-> Bell behaviour and Video Mailbox.

At menu “Bell behaviour and video mailbox” no settings should be required (factory settings). But it is used to check that your settings have been correctly applied. If you have a new installation, it may be necessary to select the profile created under "Outgoing Calls Settings" and to make an assignment under "Addressee-specific settings" to "Assign bell button / contact number". For the visualization e.g. as for CONTROL L, the "signalling order of the door stations" must be set.

Please note, in case that the item "Set remote stations for door stations" isn’t visible the extended view must be activated ***More*** (Red frame).

Figure 100: MOBOTIX T25 - Extension menu

The following settings are required for the new setup:

- Enabling of the ***Door Station Bell*** on "DoorBell"
- If "call_1" is not displayed under ***Remote Stations of Door station***, add this as selected devices
- Adopt the settings with ***Set*** to device

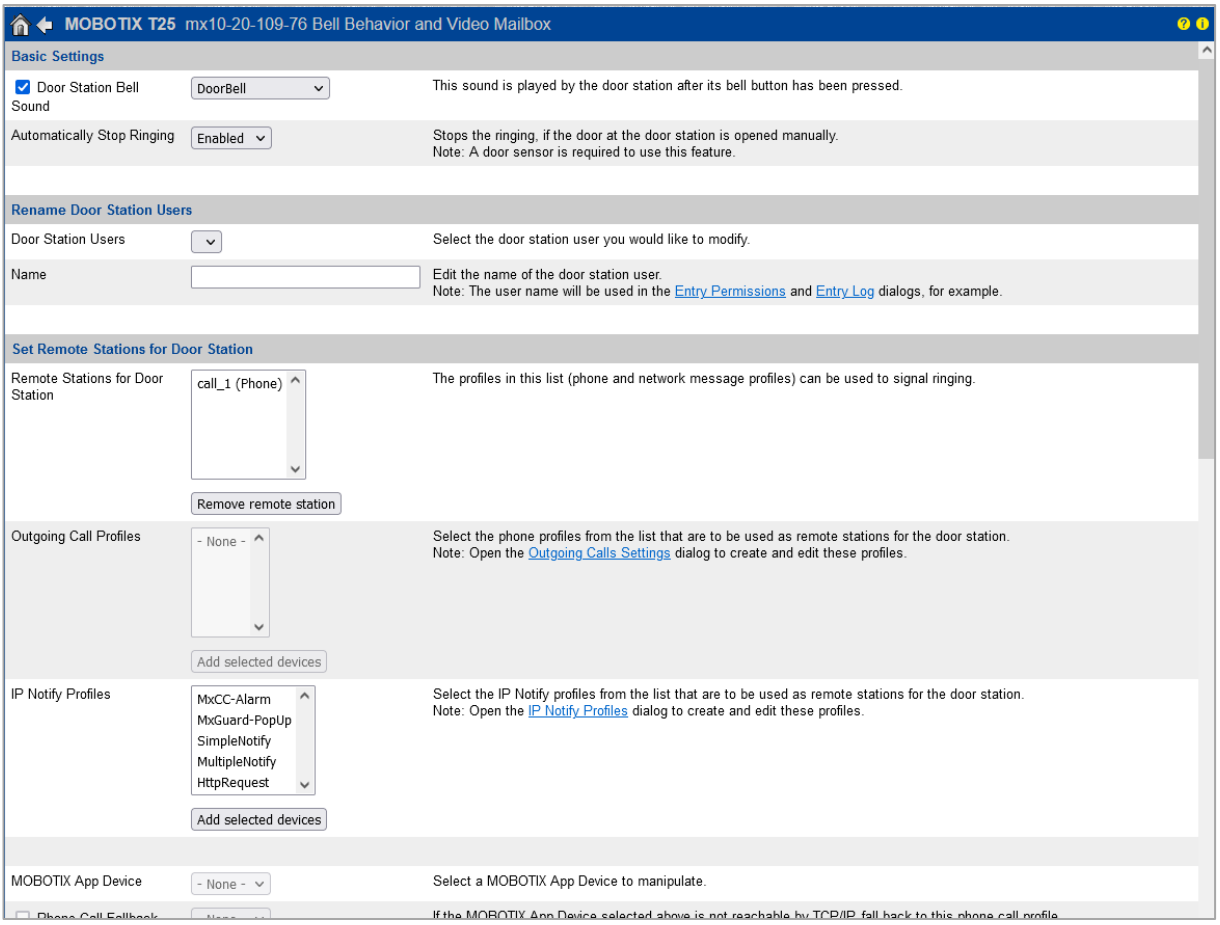


Figure 101: MOBOTIX T25 Bell behaviour and video mailbox

Note: Using the test function in ***Outgoing Calls Settings*** you can test the profile you have created and “call” the visualization. This supports you when configuring the modules / bell buttons. Make sure to store your configuration in the "permanent" memory so that it is retained after a restart in test mode.

In order to be able to use the button function (door opener, light) in your visualization, you must check the respective settings and configure them if necessary.

You can find the settings for this in the hardware configuration.

Figure 102: MOBOTIX T25 - Hardware Configuration

The assignment of the keys is configured in the ***Assign Wires*** menu. The connections should be assigned during automatic configuration. Here you can find out which outputs on your MOBOTIX T25 were forwarded to. In the figure below, the keys have been assigned as follows:

- ***Door Release Actuator*** - on the ***MX-DoorMaster OUT2*** module output
- ***Lights*** button - on the relay output ***Keypad OUT***

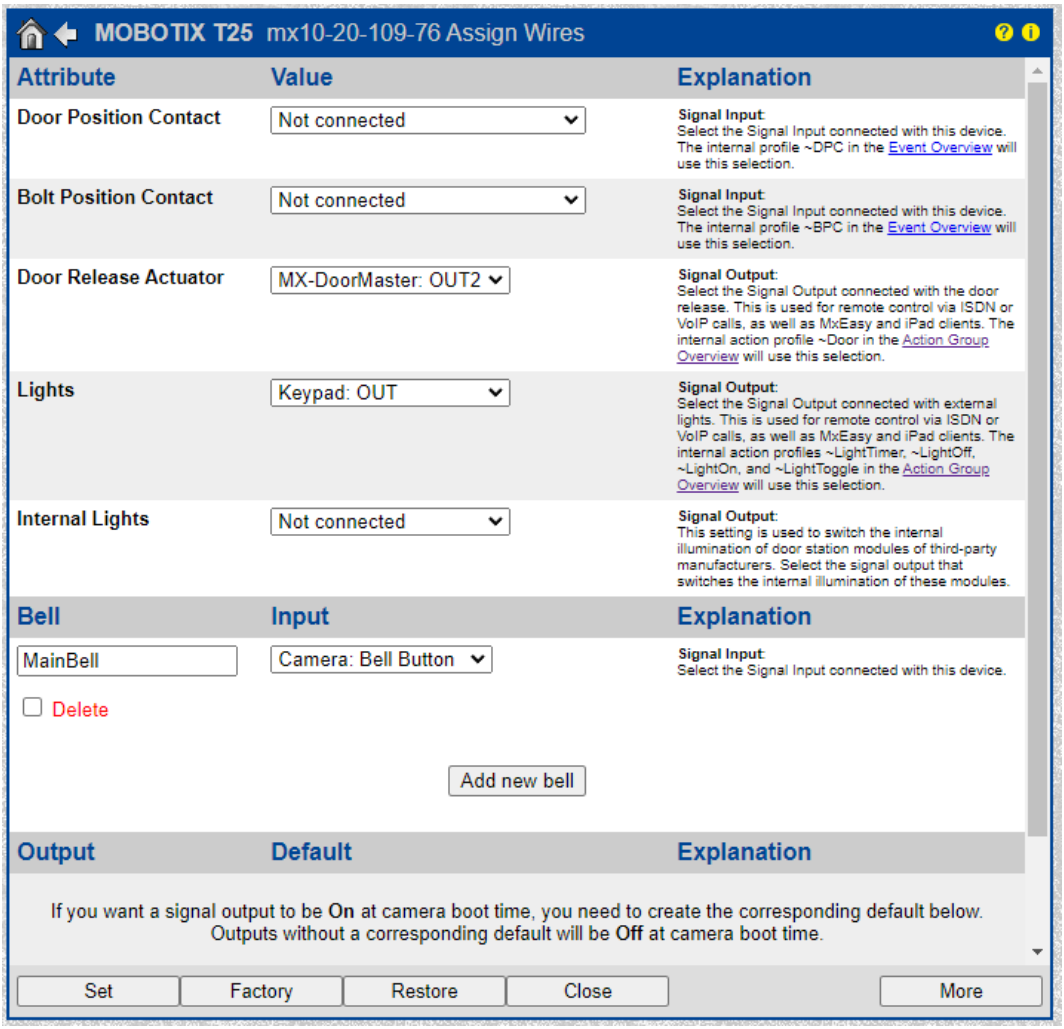


Figure 103: MOBOTIX T25 - Assign Wires

Note at menu item ***Automatic Configuration*** that this is enabled.
Thus, all necessary settings of the MOBOTIX T25 are made and now you have the required device settings to transfer them to the **INTERCOM**MODULE.

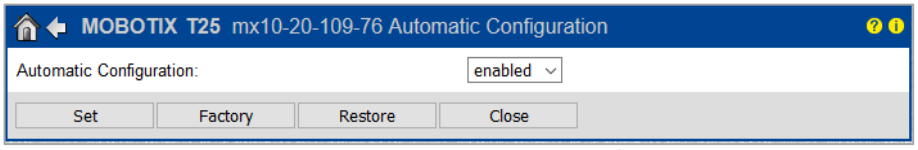


Figure 104: MOBOTIX T25 - Automatic configuration

After editing the Admin Menu, a corresponding action must be created so that the modules can also communicate with each other.

Go to the ***Setup Menu***

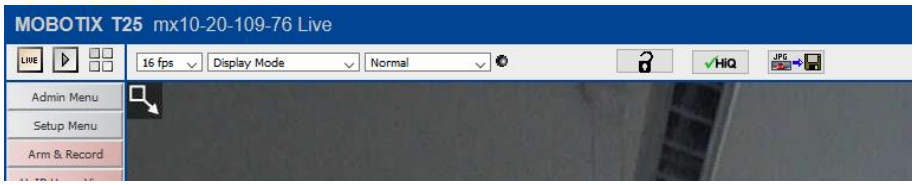


Figure 105: MOBOTIX T25 - Setup Menu

Open the submenu ***Action Groups Overview***

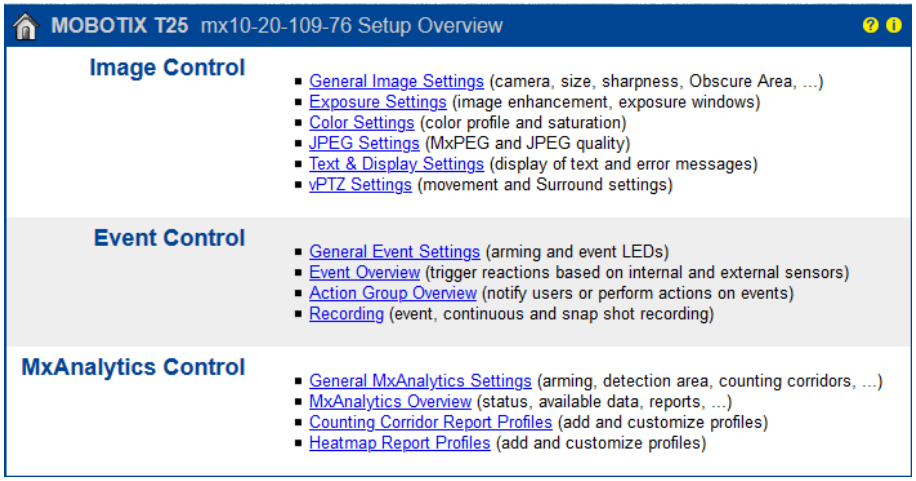


Figure 106: MOBOTIX T25 - Event Control

Here you can designate or rename your ***Action Group:*** e.g., "Intercom". The action group must be activated. Under the ***Action 1***, assign the “call_1” from the selection. Specify a ***Duration*** of the action time, e.g., 120s.
With ***Set*** and ***Close*** these settings are permanently applied to the device.

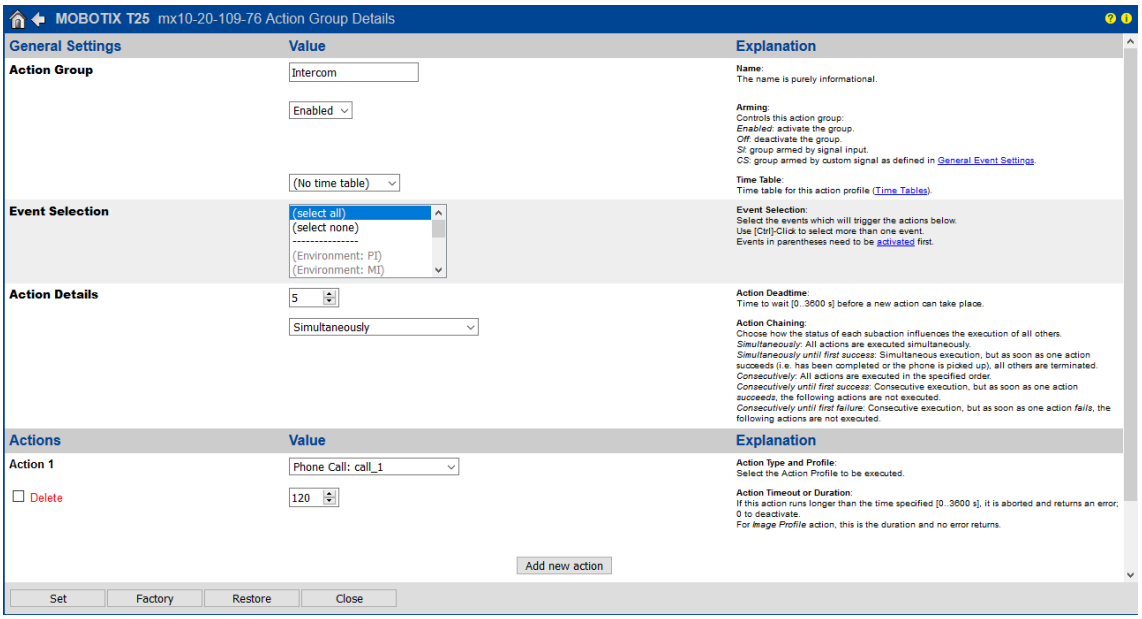


Figure 107: MOBOTIX T25 - Action group / Action

SETTINGS IN **INTERCOM**MODULE

At settings of **INTERCOM**MODULE the device settings of the MOBOTIX must be entered accordingly now.

Now transfer the data from the configuration of the MOBOTIX T25 to the outdoor station configuration of the **INTERCOM**MODULE (outdoor station -> Add). The host of the outdoor station is the IP of your MOBOTIX T25.
Outdoor station name: e.g., "GateM" and ***Type of door communication***: "MOBOTIX"
SIP IDs of the outdoor station: corresponds to the user's name of the SIP address (here "4001") and authentication of the MOBOTIX T25
***SIP ID (registration at* INTERCOM**MODULE)**:** equal to the SIP ID of the outdoor station.
***Password (registration at* INTERCOM**MODULE)**:** is the password for authentication.
Hostname/ IP address of the outdoor station: is the IP of your MOBOTIX T25. ***HTTP-Port:*** 80
HTTP User of the outdoor station and ***HTTP Password of the outdoor station***: Login data of the MOBOTIX T25
Video via HTTP instead of SIP: both settings are possible. Preference should be video via SIP. It should be noted that OSD for PTZ control is not supported. However, the OSD functions are hidden again after the video starts.

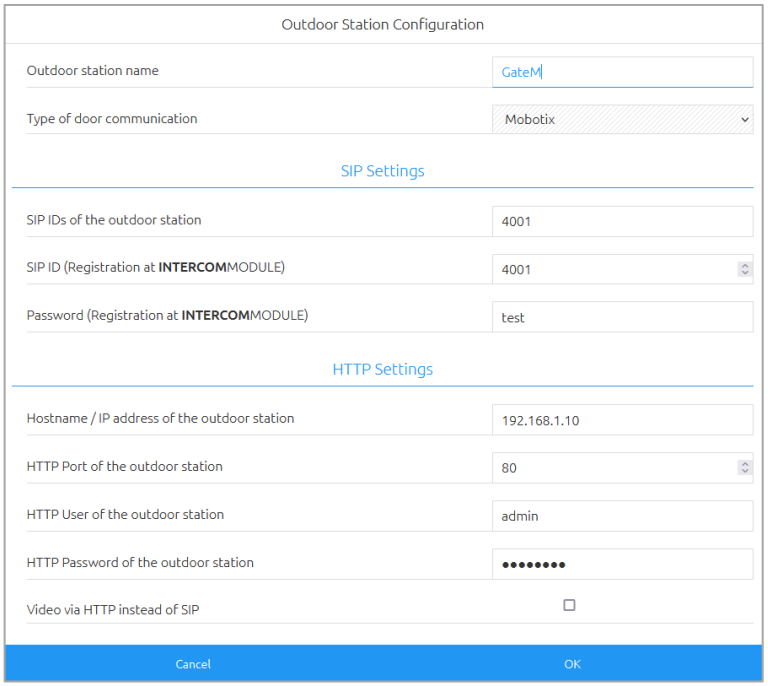


Figure 108: INTERCOMMODULE **– Outdoor station configuration MOBOTIX**

For the settings of the indoor station please specify the settings as described in chapter 5.2. You need these settings, e.g. communication with CONTROL **T** 2. When integrated into the visualization of the EIB**PORT**, the configuration is carried out by using a TOKEN and after the EIB**PORT** has logged in to the **INTERCOM**MODULE.

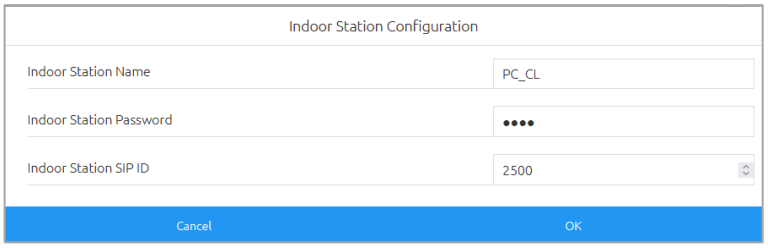


Figure 109: INTERCOMMODULE **– Indoor station configuration MOBOTIX**

To complete the settings in the **INTERCOM**MODULE the call button of the MOBOTIX T25 must be added. Under "Add" enter the ***Call button name*** e.g., "Button1"and ***Call button SIP ID:*** as configured already "200". The ***Outdoor Station*** as you named "GateM".

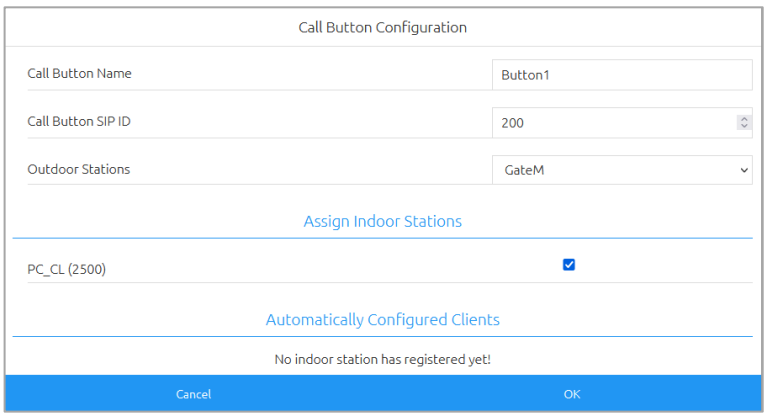


Figure 110: **INTERCOM**MODULE – Call button configuration MOBOTIX

After successful configuration an initial connection can take a little longer time. If you have enabled storage for this connection in the browser further connections / calls are establishing much faster.

Practical tip: Some of the connections to the **INTERCOM**MODULE and service can be checked from the web interface of the MOBOTIX T25, but functional restrictions of the MOBOTIX internal BUS are not recognized as a result. It is therefore helpful to check whether your MOBOTIX MODULE has been correctly recognized and is also active. If errors are detected, please contact your MOBOTIX sales partner or the MOBOTIX hotline.

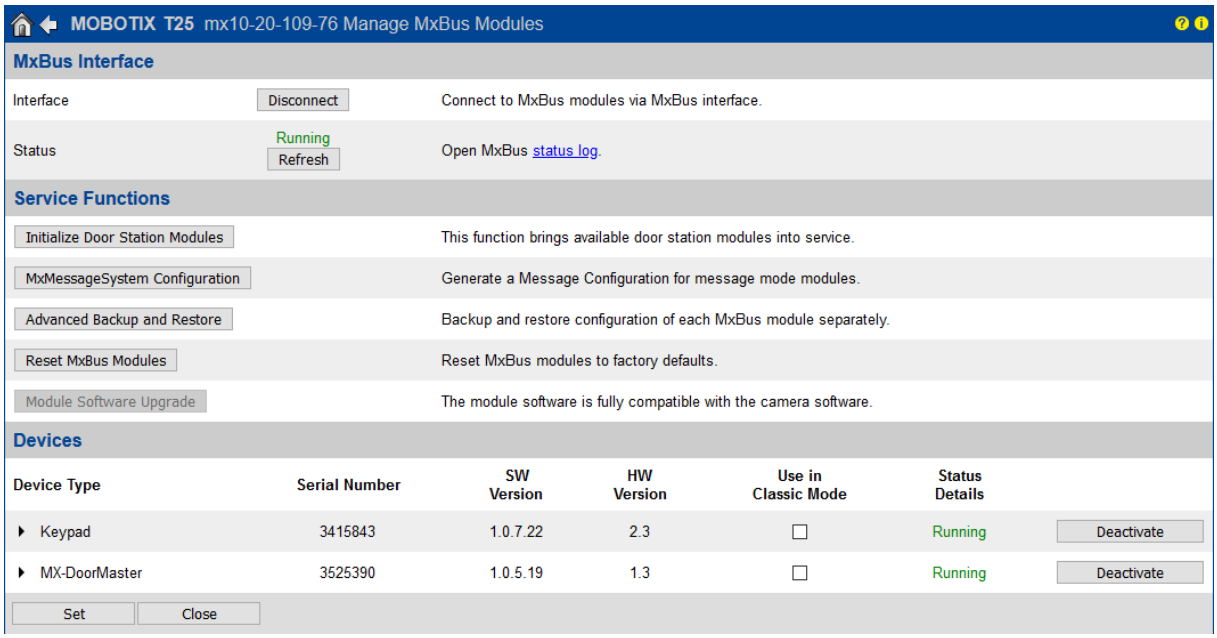


Figure 111: MOBOTIX T25 - Hardware / MxBus

6.6 INTERCOM STATION CONFIGURATION KOCH WITH SIP-GATEWAY

Prerequisite is that the SIP-Gateway AVS2100 with outdoor station was set up in the network and the web interface of the SIP-GATEWAY can be reached via PC by a browser (Chrome, Firefox, Safari, ...). The SIP-GATEWAY supports SIP communication in server mode (internal server) and client mode (external server).

In the following is described the configuration in client mode so that the **INTERCOM**MODULE implements the SIP management as a server.

SETTINGS AT KOCH AND IN **INTERCOM**MODULE

Please log in into the menu of the SIP-GATEWAY AVS2100. Perhaps you have made already network changes, you know the password. Otherwise, if the preset IP is suitable for your system, the password = serial number of the gateway. Note that communication is only possible if the SIP-GATEWAY AVS2100 has a permanent fixed IP in the network. Adjustments to the network can be found in the menu under "Settings".

Note: The installation, wiring and settings of the KOCH modules among each other are not described. For this please use the information and services of the manufacturer.

The following settings must be made for SIP adaptation in the menu "VoIP Settings".

1. Call up the menu "Door calls". Here you can assign the buttons to call destinations (SIP). A TC: BUS serial number is linked to a SIP phone number. A call button is thus assigned with SIP ID.

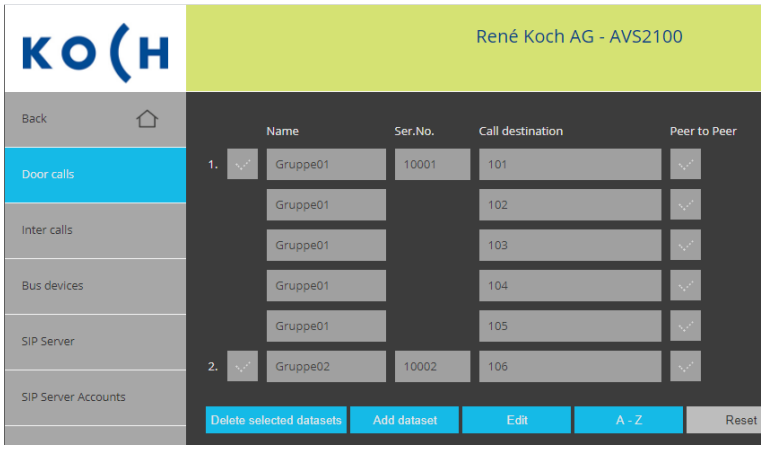


Figure 112: AVS2100 - Door calls

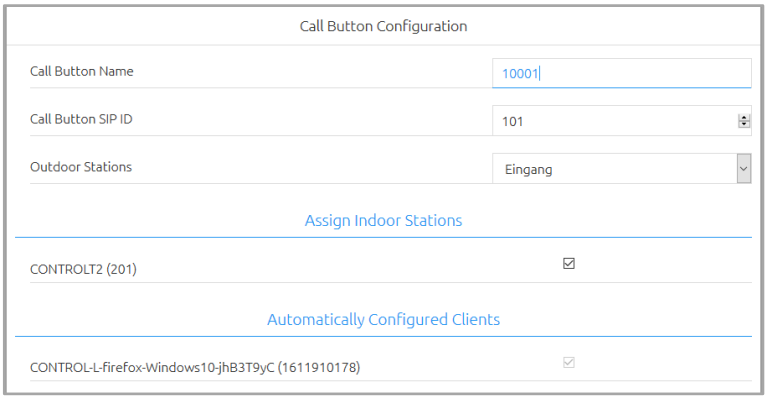


Figure 113: INTERCOMMODULE – Call Button Configuration

2. Navigate to the settings "SIP server" and open them. The **INTERCOM**MODULE is now entered as an external SIP server.
   - SIP server type - set to "use external SIP server".
   - SIP server - IP address or URL of the external SIP server. These settings are determined by the **INTERCOM**MODULE (server SIP and IP of the module)
   - SIP server port - the **INTERCOM**MODULE also uses 5060
   - SIP domain - is the name or IP address of the SIP server
   - Signal Port - as default 10120
   - RTP port - leave 6000 as the default

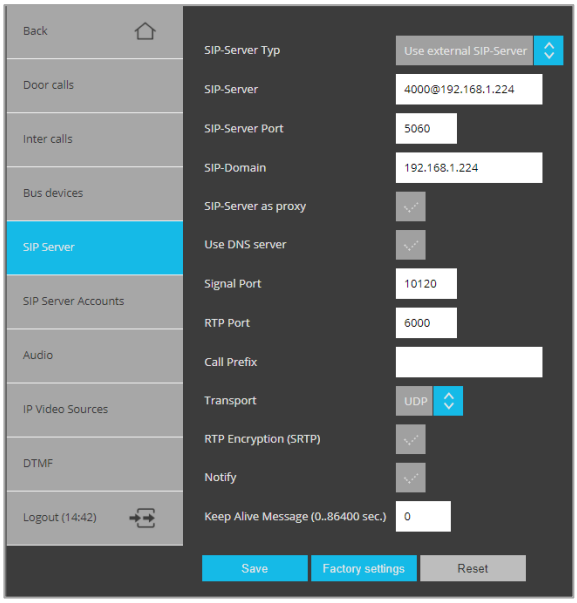


Figure 114: AVS2100 - SIP-server

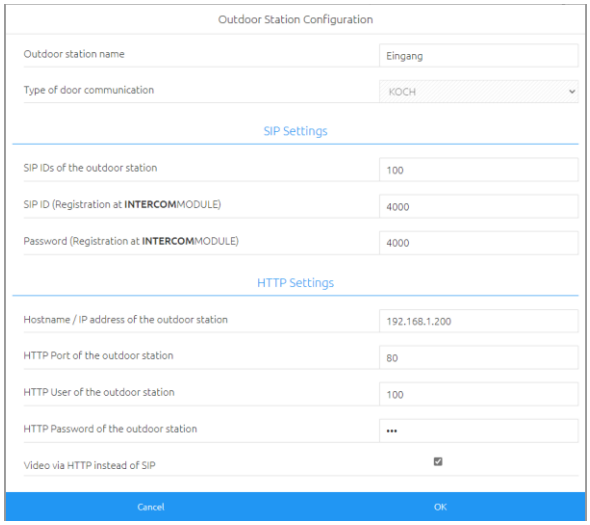


Figure 115: INTERCOMMODULE – Outdoor Station-Configuration

When you save the GATEWAY goes into restart mode, which starts automatically with a delay or it can be carried out quickly with confirmation. The new settings take effect.

Note: In addition to a reset button on the GATEWAY device itself you can restart under “Settings” -> “General”. The device recognizes settings on the GATEWAY which only become effective after a restart.

3. Now go to the device management of the SIP GATEWAY AVS2100 "TC: BUS devices". Here you insert the SIP devices with which the GATEWAY communicates externally. In addition, a green dot is displayed when a connection has been established. Possibly it is necessary to restart the GATEWAY so that all data are up to date.

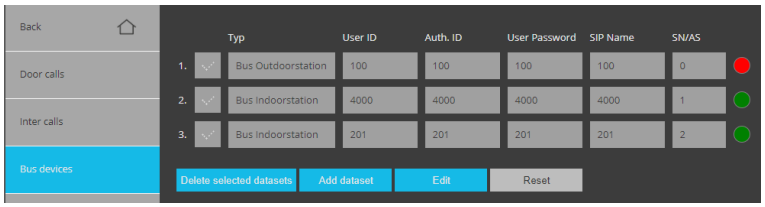


Figure 116: AVS2100 - Bus devices

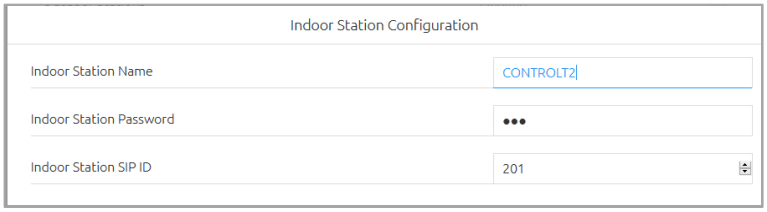


Figure 117: INTERCOMMODULE - Indoor Station Configuration

- Add the SIP server (**INTERCOM**MODULE) as a BUS device. This is used to control the SIP application in the CONTROL L visualization.
- Add e.g., a WINDOWS application such as CONTROL **T** 2 as an additional indoor station. You select the required free SIP settings yourself and enter them in the **INTERCOM**MODULE as well as in the SIP GATEWAY AVS2100.

All other settings are not required for the **INTERCOM**MODULE. Save the settings.

6.7 INTERCOM STATION CONFIGURATION AKUVOX DOOR STATION

AKUVOX intercom stations can be integrated in various modes, including with a cloud service. The integration by **INTERCOM**MODULE takes place locally, without a cloud service. The integration of the door station R20A and R27A are described as an example. Other versions of this manufacturer may also be integrable. The respective special features and deviations from the door station R20A must be clarified directly with the manufacturer.

6.7.1 CONFIGURATION AKUVOX DOOR STATION R20A

Based on the default settings* of the AKUVOX R20A, the door station must be available on the common network and have a consistent IP. Either assign a static IP network address or it is assigned by the network router at DHCP setting.

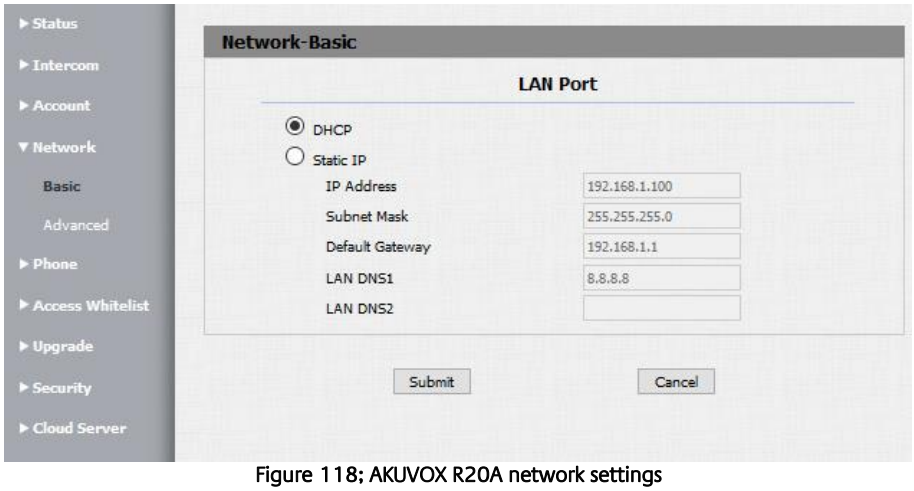


Figure 118; AKUVOX R20A network settings

The AKUVOX R20A door station is set up as a SIP client. For this purpose, it makes sense that the necessary configuration is first made in the **INTERCOM**MODULE, so that the **INTERCOM**MODULE can be found for registration during the configuration of the door station AKUVOX R20A.
For the settings via the respective web interfaces, use following browsers Chrome, Firefox or SAFARI.

(*) Note: To reach the default settings, use the factory reset in the Upgrade -> Basic menu:

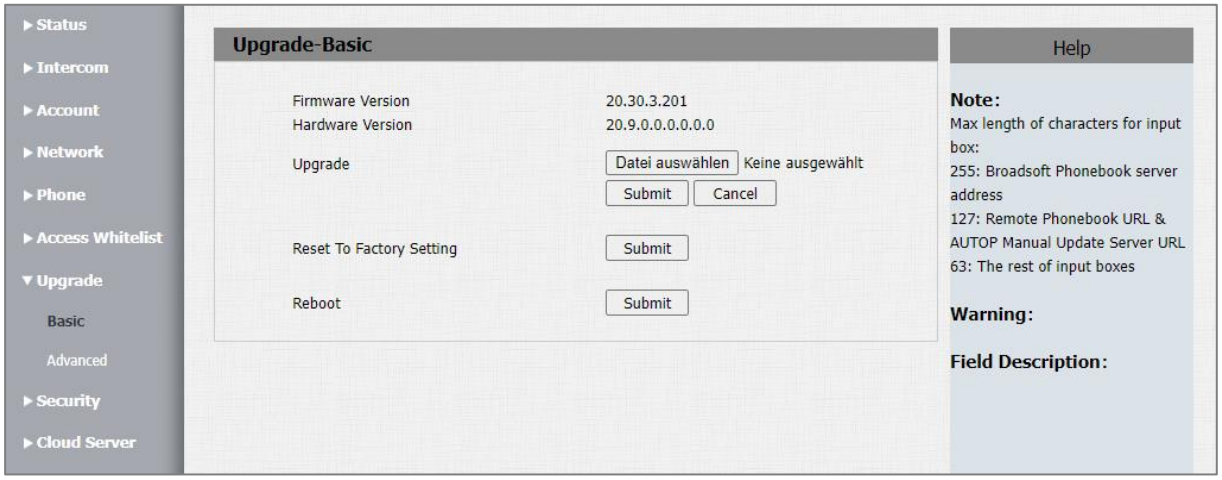


Figure 119: AKUVOX R20A - default settings

SETTINGS IN **INTERCOM**MODULE - AKUVOX R20A

The following settings must be made now:
Go to the menu "Intercom Configuration"/Outdoor Stations; using Add, select the AKUVOX as the *Type of door communication.*

1. Enter your name under the name of the ***Outdoor station name***. Only ASCII characters and without spaces are allowed for this.
2. Enter here the ***SIP IDs of the outdoor station***. However, make sure that SIP ID is not assigned twice.
3. The ***SIP ID*** (Registration at **INTERCOM**MODULE) is here equal to the SIP ID of the outdoor stationt.
4. Determine a ***Password*** (Registration at **INTERCOM**MODULE). Only ASCII characters and without spaces are allowed for this.
5. Enter the ***Hostname / IP address of the outdoor station:***< IP Your R20A>, is the assigned address of the door station on the network.
6. Enter the ***HTTP-Port of the outdoor station*** as standard is used 80.
7. Enter the ***HTTP User of the outdoor station***, can correspond to the SIP ID.
8. Enter a ***HTTP Password of the outdoor station***, corresponds to the password for registering at the **INTERCOM**MODULE.
9. ***Video via HTTP instead of SIP***: Leave on SIP

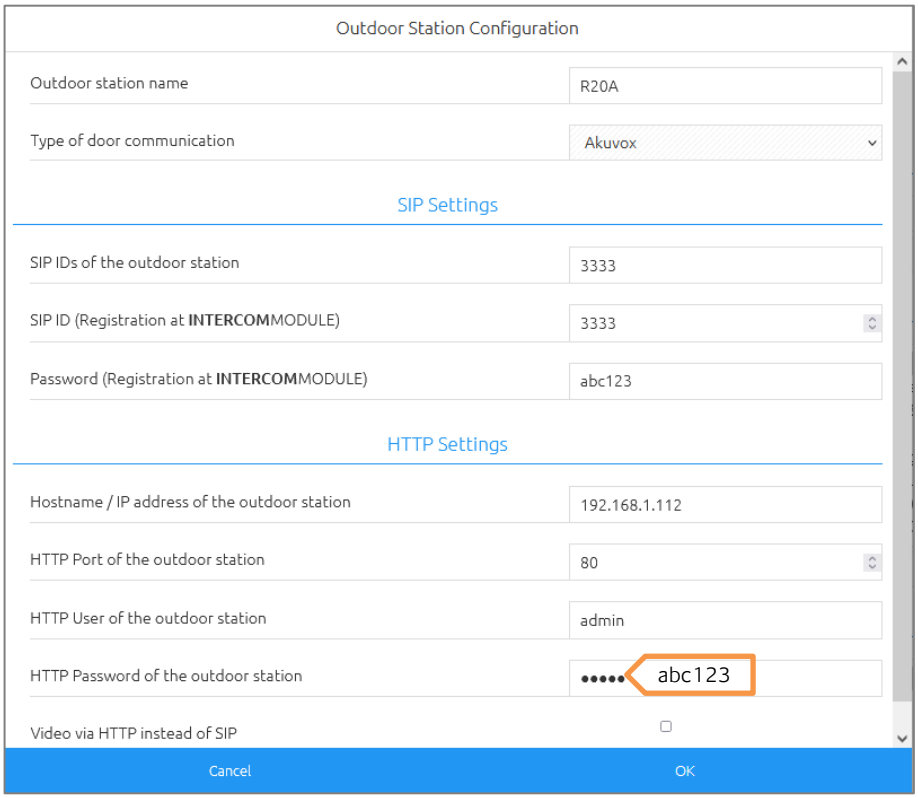


Figure 120: INTERCOMMODULE - Outdoor Station Configuration R20A

Menu "Intercom Configuration"/Indoor stations: In most cases, the indoor stations are generated automatically via TOKEN. These TOKENs are entered into the visualization, such e.g. CONTROL L. After successful connection, the entry automatically is displaying at the indoor stations. In SIP client mode the indoor stations are not registered at outdoor station. Settings for manually configurable indoor stations are described in the menu under 5.2 indoor stations.

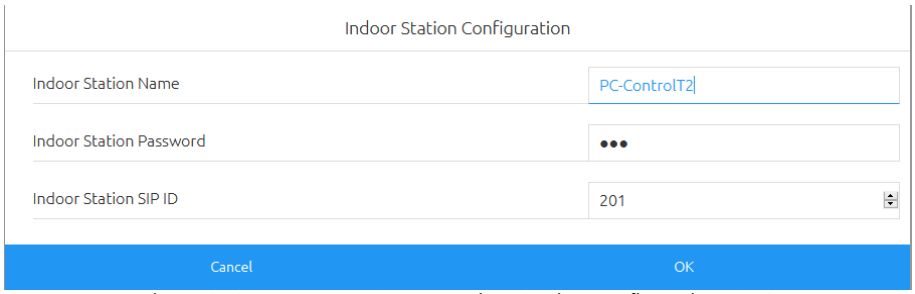


Figure 121: INTERCOMMODULE - Indoor Station Configuration R20A

Go to the menu "Intercom Configuration" menu/Call Buttons; using Add, the call button configuration opens:

1. Enter your name at ***Call Button Name***. For this purpose, only ASCII characters and without spaces should be entered.
2. Enter here the ***Call Button SIP ID***. However, make sure that SIP ID is not assigned twice.
3. At the ***Outdoor Stations*** it must be checked that the correct outdoor station, your given name of the outdoor station, is displayed here.
4. Make sure that at ***Assign Indoor Stations*** the manually created indoor stations have been activated as assigned if necessary.
5. All settings of this door station are transferred to the **INTERCOM**MODULE with ***Save Settings***.

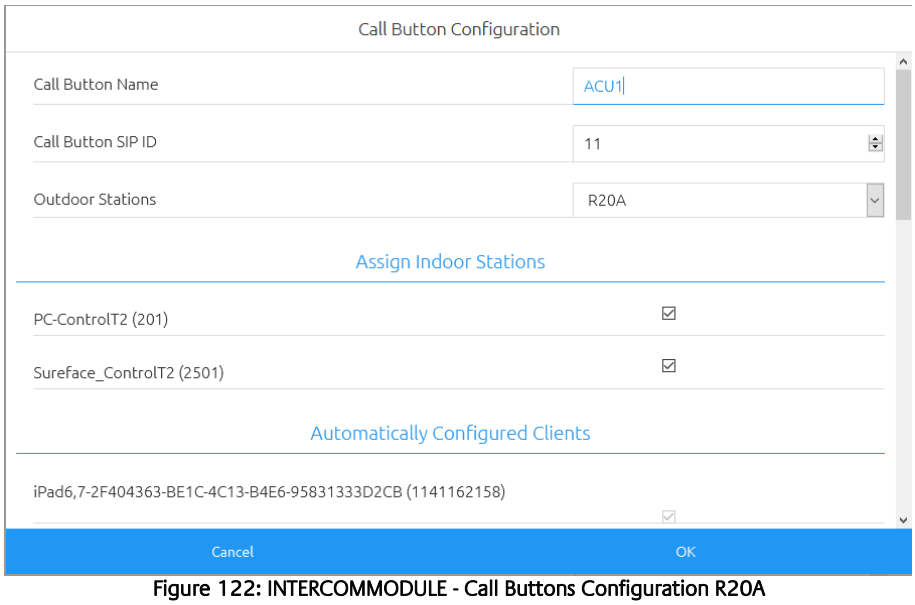


Figure 122: INTERCOMMODULE - Call Buttons Configuration R20A

SETTINGS AT AKUVOX R20A

Log in to the menu of your intercom station AKUVOX R20A via the web interface.
In the menu ***Account***, open the menu item ***Basic***.

At ***SIP Account*** make the following settings:
Account Active: Set to Enabled
Further entries such as the settings of the outdoor station
Display Label
Display Name
Register Name
User Name
Password

At least one SIP server must be registered. For this purpose, set the **INTERCOM**MODULE.
Enter as ***SIP Server 1*** the ***Server IP*** the IP address of your **INTERCOM**MODULE.
192.168.1.221
The port is 5060.
Other default values must be left.

Save changes in the intercom station with ***Submit.***

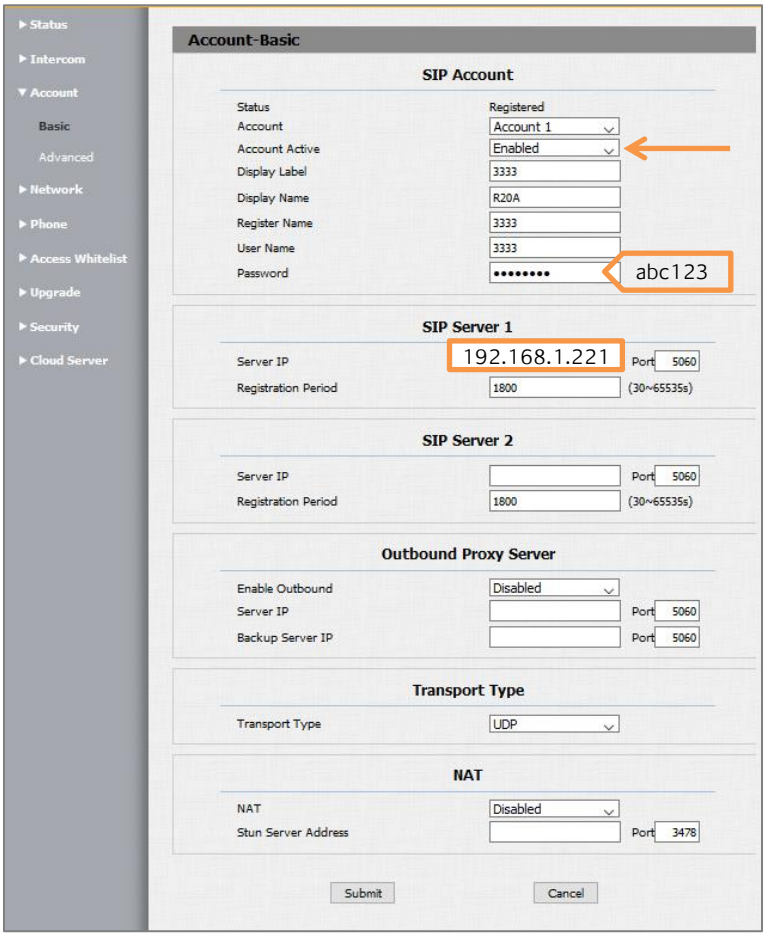


Figure 123: AKUVOX R20A - Account / Basic

The settings of the call buttons at door station can be made via menu ***Intercom*** using item ***Basic*** .
Select Account: here, assign to the ***Account 1***.
DTMF Unlock: set ***All Number***

At ***Push Button*** enter the SIP-ID of the call button (push button).
Other settings remain on de default values.
Save changes with ***Submit*** at the door station.

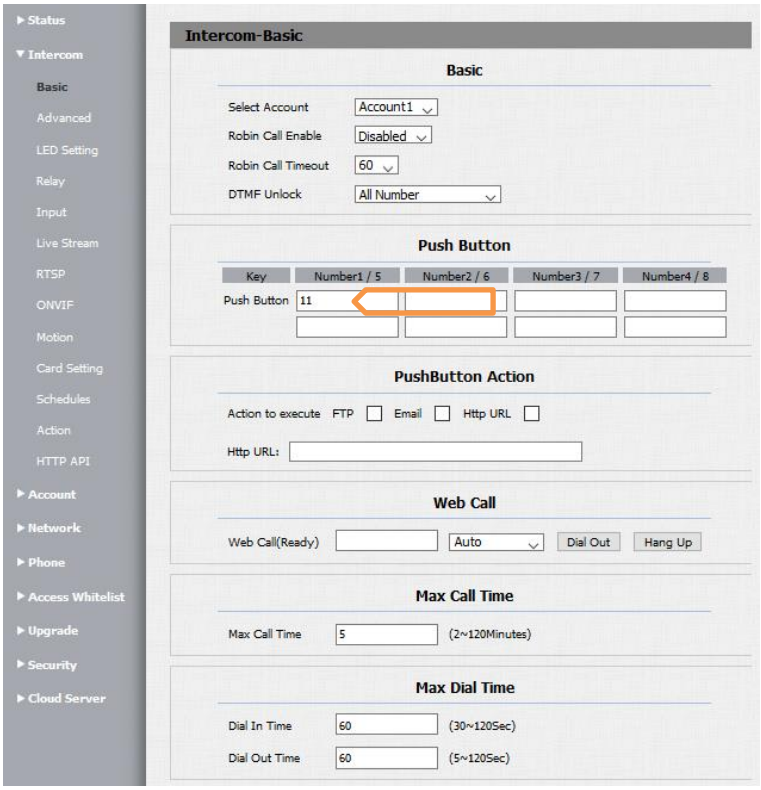


Figure 124: AKUVOX R20A - Intercom Call (Push) Button

If all values have been right entered and taken over correctly, the door station can be registered on the SIP server, your **INTERCOM**MODULE.

Additional settings are required to operate the additional buttons for door opener and light (2nd relay). These relays are controlled via the visualization via HTTP.
Switch: set to "Enable" here.
UserName: the name of your outdoor station AKUVOX R20A
Password: the password of your outdoor station AKUVOX R20A

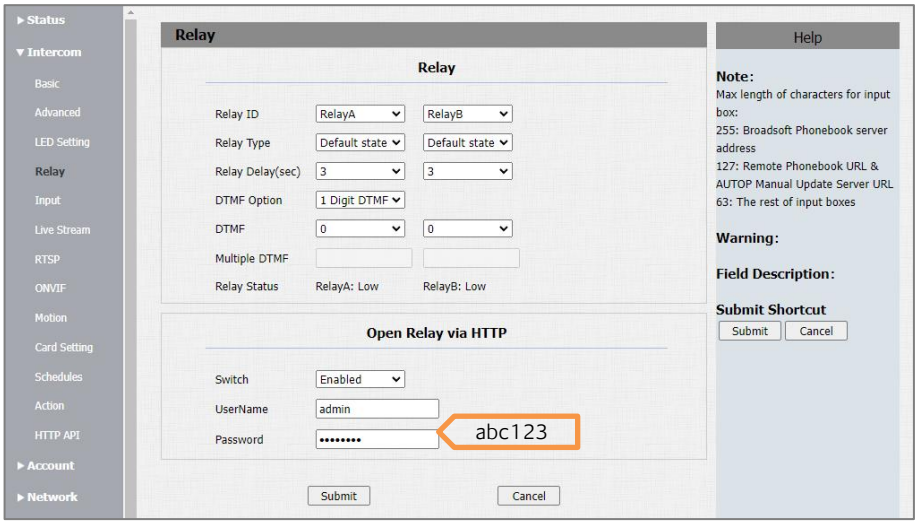


Figure 125: AKUVOX R20A - Intercom / Relay

Under Status you can check the registration and your entries of the door station. The settings are completed for the intercom station AKUVOX R20A and the **INTERCOM**MODULE.

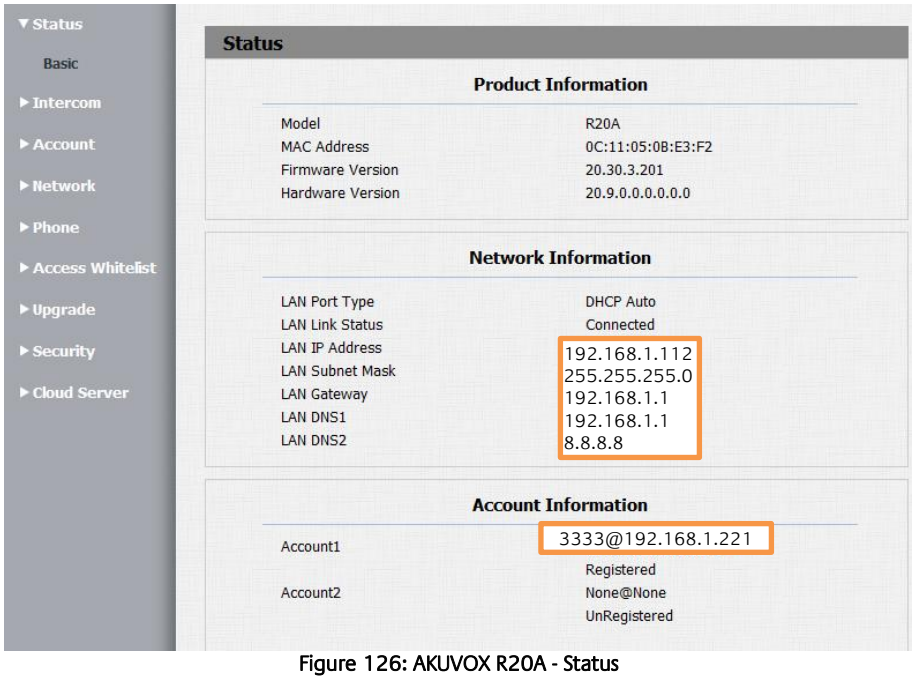


Figure 126: AKUVOX R20A - Status

6.7.2 CONFIGURATION AKUVOX DOOR STATION R27A

Based on the default settings of the AKUVOX R27A, the door station must be available on the common network and have a consistent IP. Either assign a static IP network address or it is assigned by the network router at DHCP setting.

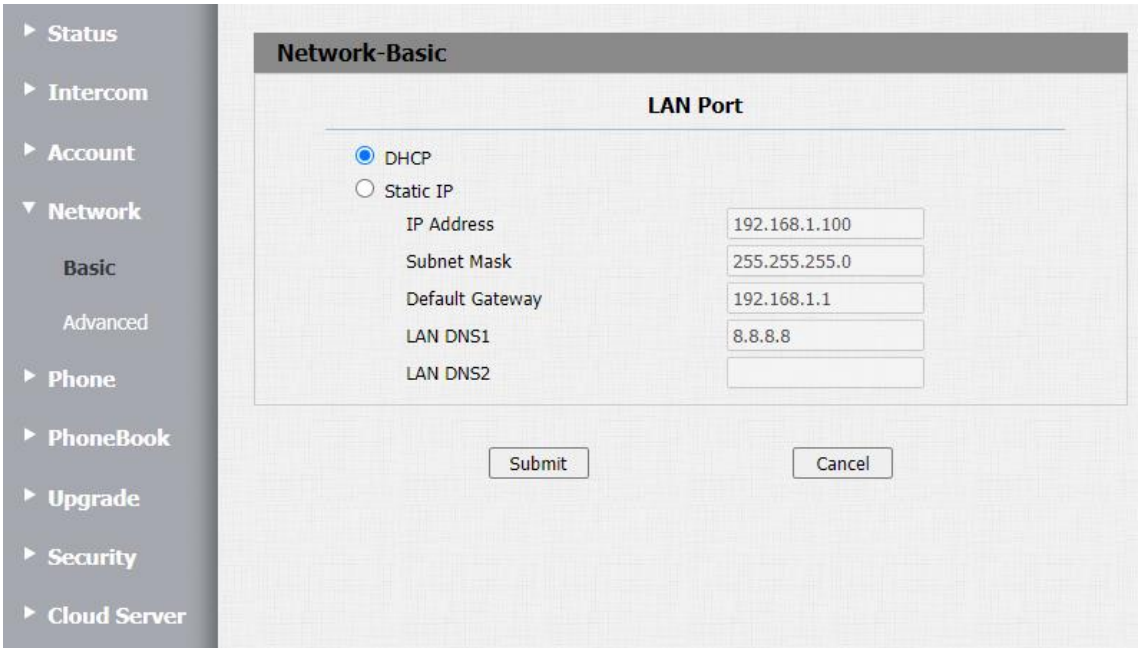


Figure 127: AKUVOX R27A network settings

The AKUVOX R27A door station is set up as a SIP client. For this purpose, it makes sense that the necessary configuration is first made in the **INTERCOM**MODULE, so that the **INTERCOM**MODULE can be found for registration during the configuration of the door station AKUVOX R27A.
For the settings via the respective web interfaces, use following browsers Chrome, Firefox or SAFARI.

SETTINGS IN **INTERCOM**MODULE - AKUVOX R27A

The following settings must be made now:
Go to the menu "Intercom Configuration"/Outdoor Stations; using Add, select the AKUVOX as the ***Type of door communication***.

1. Enter your name under the name of the ***Outdoor station name***. Only ASCII characters and without spaces are allowed for this.
2. Enter here the ***SIP IDs of the outdoor station***. However, make sure that SIP ID is not assigned twice.
3. The ***SIP ID*** (Registration at **INTERCOM**MODULE) is here equal to the SIP ID of the outdoor stationt.
4. Determine a ***Password*** (Registration at **INTERCOM**MODULE). Only ASCII characters and without spaces are allowed for this.
5. Enter the ***Hostname / IP address of the outdoor station:***< IP Your R27A>, is the assigned address of the door station on the network.
6. Enter the ***HTTP-Port of the outdoor station*** as standard is used 8080.
7. Enter the ***HTTP User of the outdoor station***, can correspond to the SIP ID.
8. Enter a ***HTTP Password of the outdoor station***, corresponds to the password for registering at the **INTERCOM**MODULE.
9. ***Video via HTTP instead of SIP***: Leave on SIP

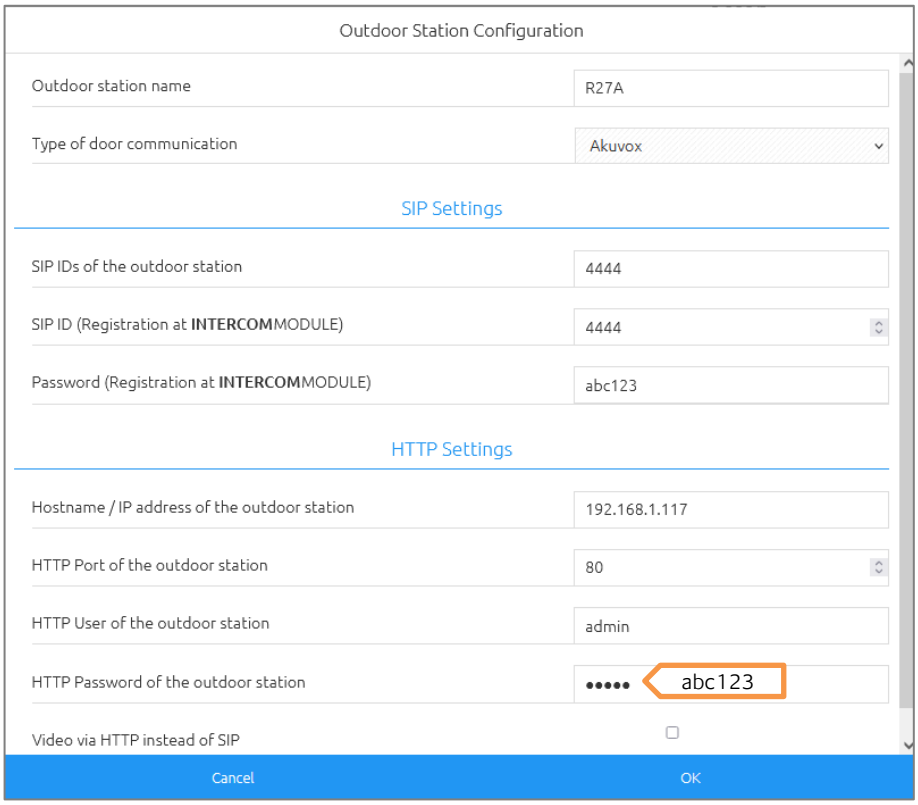


Figure 128: INTERCOMMODULE - Outdoor Station Configuration R27A

Menu "Intercom Configuration"/Indoor stations: In most cases, the indoor stations are generated automatically via TOKEN. These TOKENs are entered into the visualization, such e.g. CONTROL L. After successful connection, the entry automatically is displaying at the indoor stations. In SIP client mode the indoor stations are not registered at outdoor station. Settings for manually configurable indoor stations are described in the menu under 5.2 indoor stations.

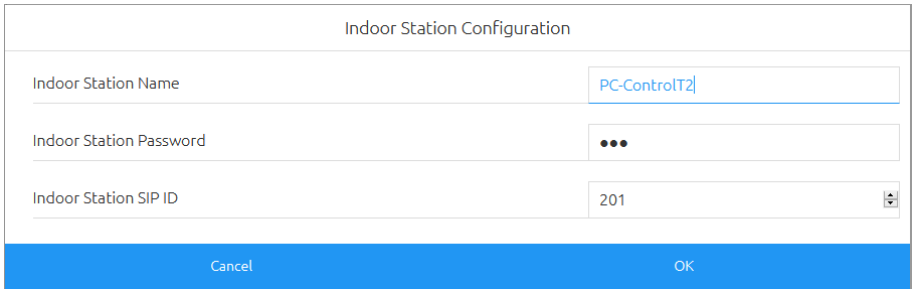


Figure 129: INTERCOMMODULE - Indoor Station Configuration R27A

Go to the menu "Intercom Configuration" menu/Call Buttons; using Add, the call button configuration opens:

1. Enter your name at ***Call Button Name***. For this purpose, only ASCII characters and without spaces should be entered.
2. Enter here the ***Call Button SIP ID***. However, make sure that SIP ID is not assigned twice.
3. At the ***Outdoor Stations*** it must be checked that the correct outdoor station, your given name of the outdoor station, is displayed here.
4. Make sure that at ***Assign Indoor Stations*** the manually created indoor stations have been activated as assigned if necessary.
5. All settings of this door station are transferred to the **INTERCOM**MODULE with ***Save Settings***.

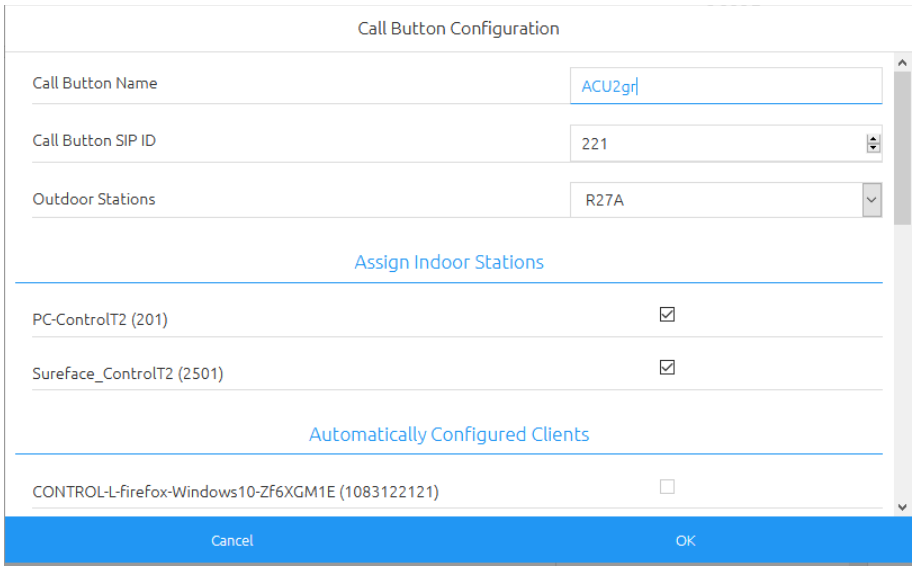


Figure 130: INTERCOMMODULE - Call Button-Configuration R27A

SETTINGS AT AKUVOX R27A

Log in to the menu of your intercom station AKUVOX R27A via the web interface.
In the menu ***Account***, open the menu item ***Basic***.

At ***SIP Account*** make the following settings:
Account Active: Set to Enabled
Further entries such as the settings of the outdoor station
Display Label
Display Name
Register Name
User Name
Password

At least one SIP server must be registered. For this purpose, set the **INTERCOM**MODULE.
Enter as ***SIP Server 1*** the ***Server IP*** the IP address of your **INTERCOM**MODULE. 192.168.1.221
The port must be 5060. (Note when switching from cloud IP to on-premises SIP server)
Other default values must be left.

Save changes in the intercom station with ***Submit.***

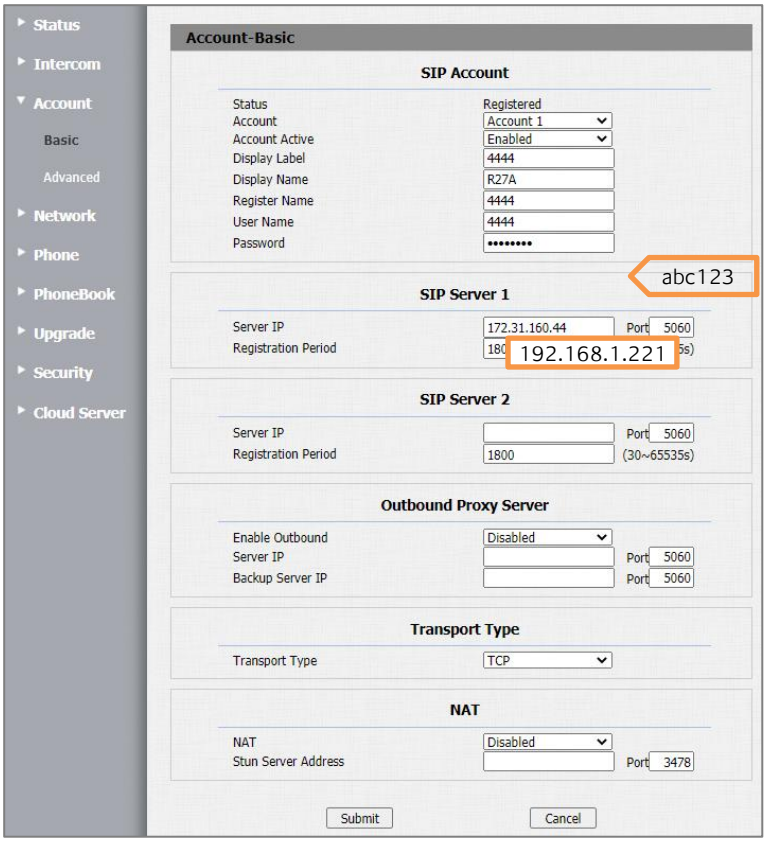


Figure 131: AKUVOX R27A - Account / Basic

The settings for a call button on the door station are made in the menu ***PhoneBook***.
Here you can order the phone number (SIP keys= Phone, your name. Unless there is a cloud connection anyway, the ***Show Cloud Contact*** should be as ***Disabled***.
Under ***Contact Setting***, enter the contacts and phone numbers and add them to the list.
Name: here is the name for the display in the display
Phone: is the SIP ID of the call button under which the connection is established.
Group: as default if no groups are set.
Priority of Call: by given priority.
Account: Either a selection or on Auto (automatic).
Lift Floor Number: Your input
Activation in the check box allows you to edit your entries at any time.
Other settings remain on de default values. Save changes with ***Submit*** in the door station.

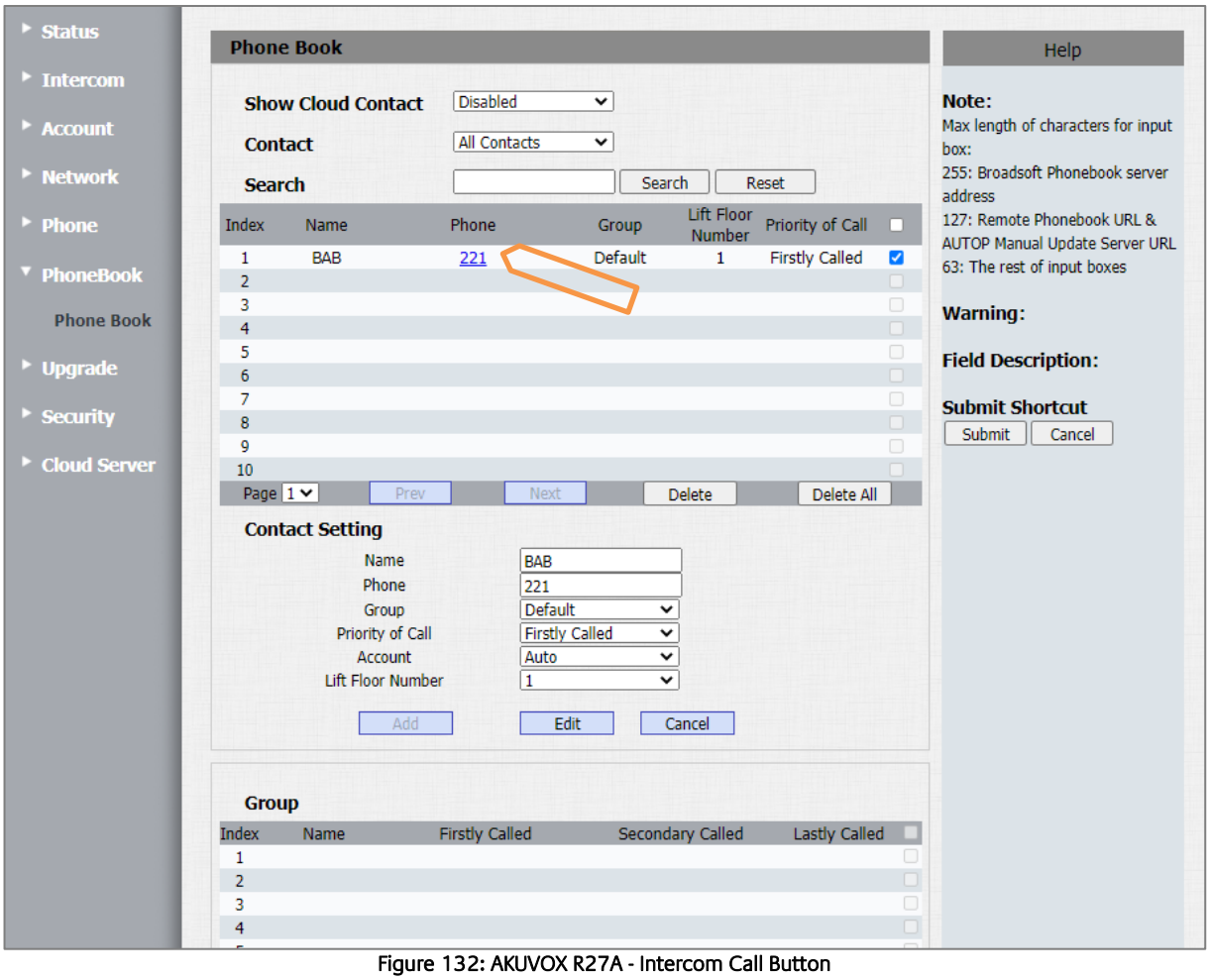


Figure 132: AKUVOX R27A - Intercom Call Button

If all values have been right entered and taken over correctly, the door station can be registered on the SIP server, your **INTERCOM**MODULE.

Note: In case of connection troubles, it may be helpful to enable the reset button to reset undefined settings, since the factory setting (delivery state) prefaces the cloud server.

Additional settings are required to operate the additional buttons for door opener and light (2nd relay). These relays are controlled via the visualization via HTTP.
Switch: set to "Enable" here.
UserName: the name of your outdoor station AKUVOX R27A
Password: the password of your outdoor station AKUVOX R27A

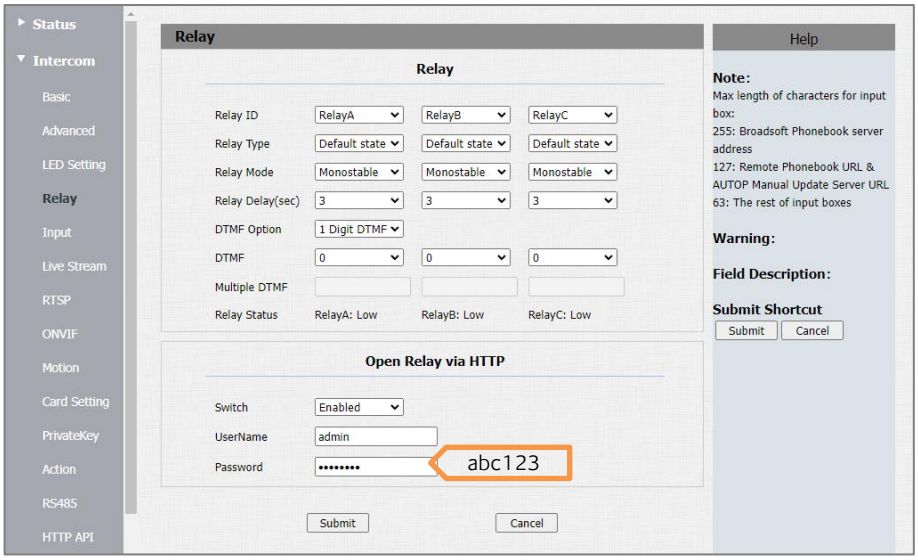


Figure 133: AKUVOX R27A - Intercom / Relay

Under Status you can check the registration and yours the entries of the door station.

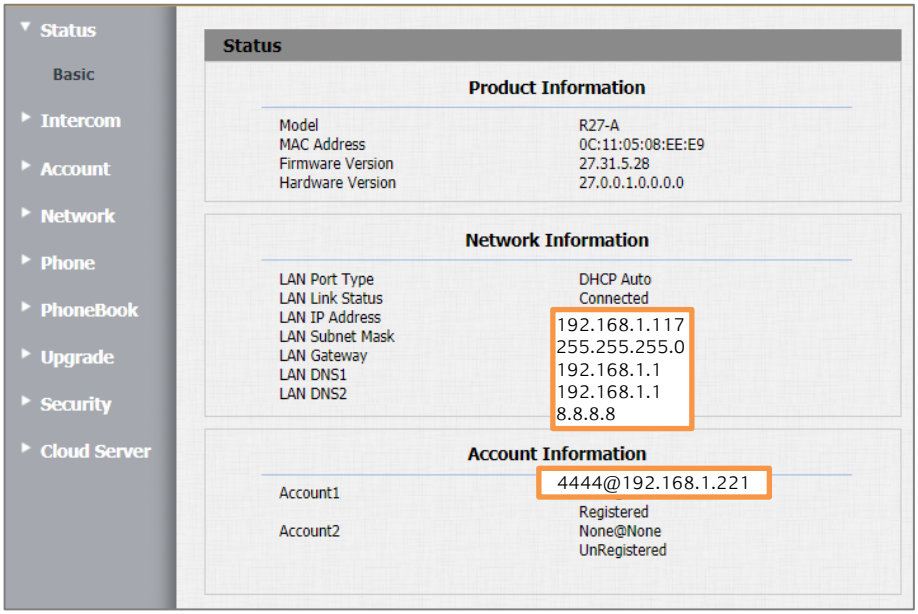


Figure 134: AKUVOX R27A - Status

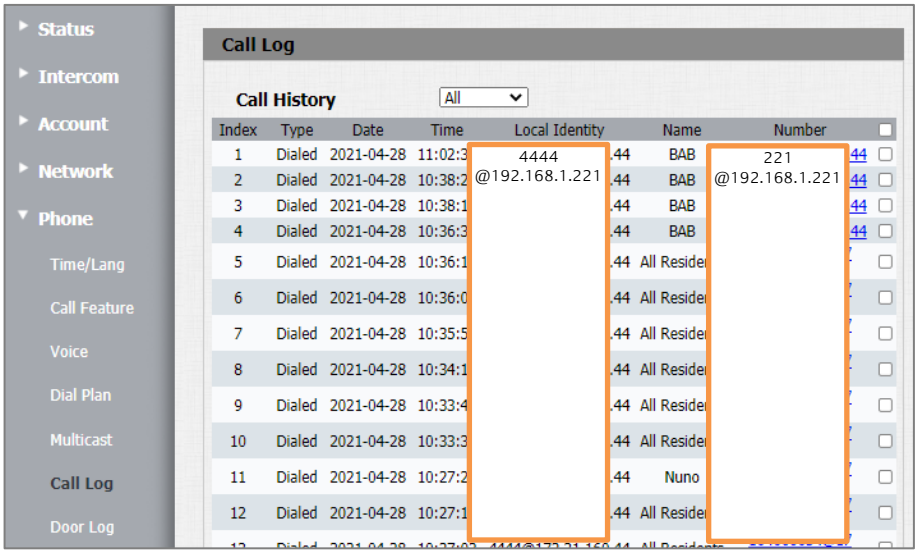


Figure 135: AKUVOX R27A - Phone / Call Log

For connection checking outgoing calls and accesses, there is the Menu ***Phone***:
Call Log and
Door Log.

The settings are completed for the intercom station AKUVOX R27A and the **INTERCOM**MODULE.

6.8 INTERCOM STATION CONFIGURATION COMELIT WITH GATEWAY MASTER VIP

The prerequisite is that the GATEWAY MASTER VIP 1456 is set up with a VIP intercom station in the network. The web interface of the GATEWAY MASTER VIP can be reached by a PC using a browser (Chrome, Firefox, SAFARI, ...). The GATEWAY MASTER VIP supports SIP communication in client mode (external server) with an **INTERCOM**MODULE.

The configuration in client mode is described below so that the **INTERCOM**MODULE implements the SIP management as a server. Configuration is possible via the web interface of the GATEWAY MASTER VIP. However, the "VIP Manager" configuration software offers an extended range of functions, so that we describe this configuration below.
The "VIP Manager" configuration software can be downloaded from the manufacturer's website.

SETTINGS AT OUTDOOR STATION/ COMELIT GATEWAY

Start the software „VIP Manager“
Under the menu item "Options" you create a local connection for your PC in order to be able to configure your Comelit.
Here e.g. creation of ***Local Connection 1***.

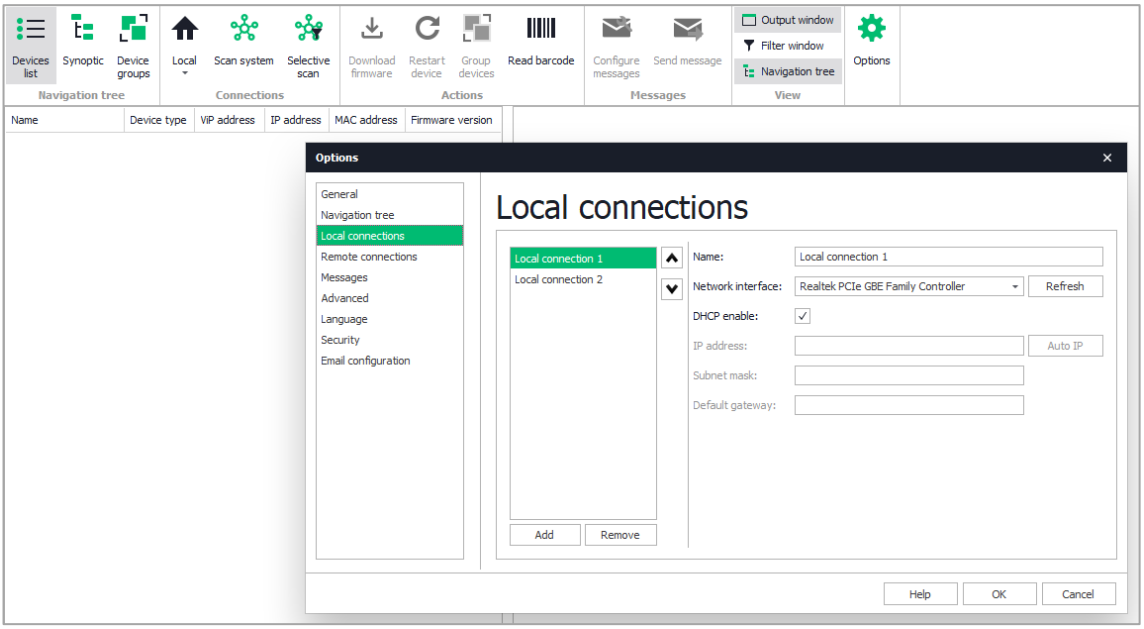


Figure 136: Comelit VIP Manager - Options/ Local connections

As a further step, you carry out a Scan system via the created local connection.

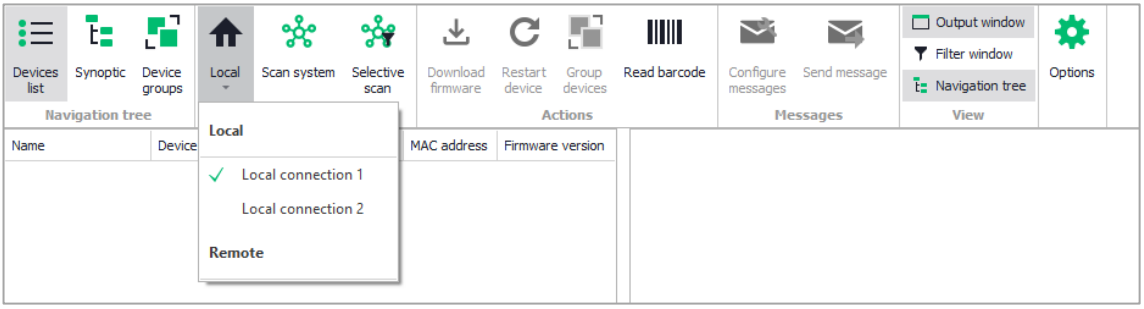


Figure 137: Comelit VIP Manager - Local connection

After the ***Scan system***, the available devices are displayed. This means that all modules of the Comelit system can now be configured.
In the example, the devices are:
Comelit external unit (outdoor station unit) with IP 192.168.1.145,
Comelit IP master gateway with IP 192.168.1.143 and
Comelit internal unit video with IP 192.168.1.144
This means that all devices (modules) of the Comelit system can now be configured.

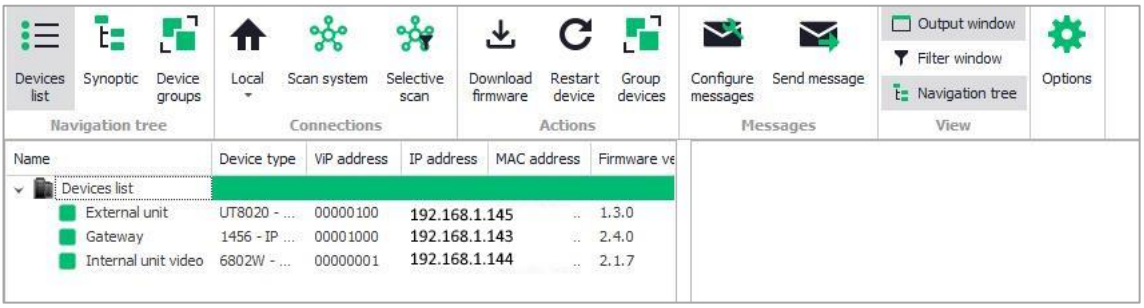


Figure 138: Comelit VIP Manager – Scan system

The settings in the gateway must now be adjusted accordingly for the connection and communication between the **INTERCOM**MODULE and the Comelit system. To do this, open the configuration window by double-clicking on the gateway in the device list:

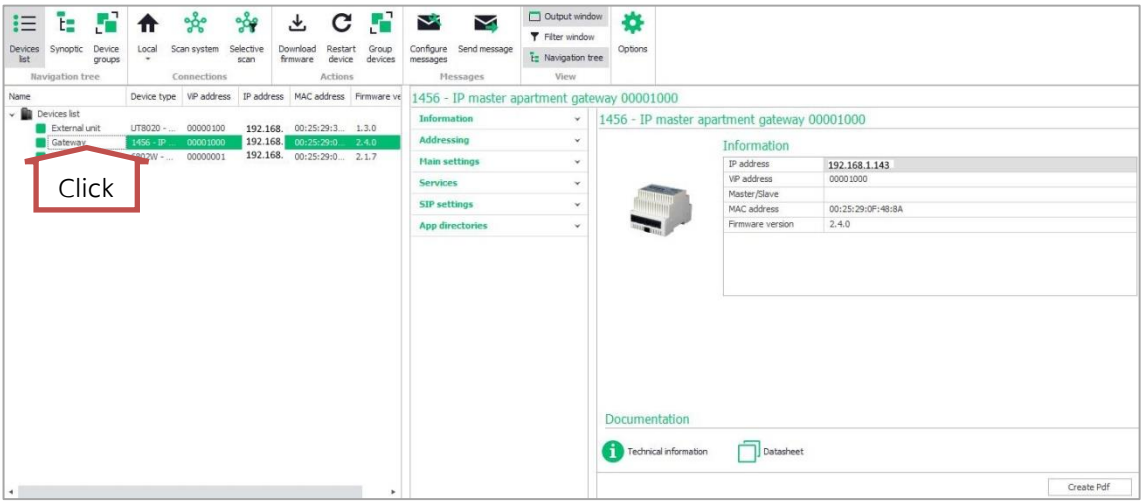


Figure 139: Comelit VIP Manager - Settings 1456 - IP Master Gateway

After clicking, the device window opens with information and for device settings.

Info:

Here are displayed basic information about the device.

Addressing:

The ***ViP addresses*** are for the internal communication of the Comelit system. These are usually preconfigured. Use the manufacturer's commissioning documentation for this or if you have any questions about these settings, please contact Comelit or its sales partner.

The ***IP address***; Either under Info, with DHCP or here you set the IP address under which the gateway is to be registered in **INTERCOM**MODULE. Note that the IP addresses must be assigned statically by the gateway and must be fixed in your network.
It is important to note how the gateway is connected to your network. There is a connection side "A" and "B". In the setup described here, everything is connected to the “A” side; the LAN connection to your network, as well as the modules of the Comelit system.

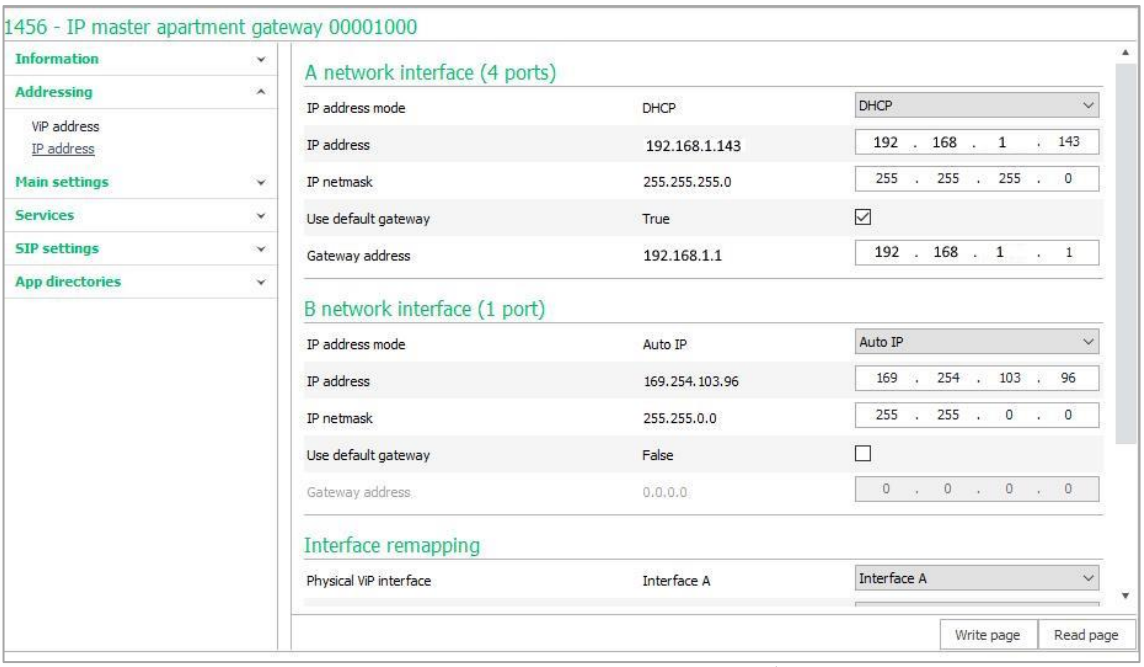


Figure 140: Comelit VIP Manager - IP Master Gateway/ Interface

Main settings:

In the main settings for communication with the **INTERCOM**MODULE, only the menu item "Subscriber" is required only for the configuration in order to set a call subscriber. If necessary, clarify the relevance and meaning of the other menu items with Comelit or its sales partner.

User (Call Button):

Users are assigned to a group that belongs to an apartment. The apartment address, an internal ViP address must already be assigned. The license is on “slave”.
The following settings must be made.
The ***Users*** must be "activated".
As ***Device type*** select ***"Phone"***.
In ***Description***; enter your notes, e.g., **INTERCOM**MODULE
As the “Phone number” is to be entered here the complete SIP address of the call button, just as the connection is established via the **INTERCOM**MODULE.
SIP ID (of the call button): ***“77”.*** You determine this SIP ID yourself. In principle, all characters and numbers can be used, and there are no specifications for their quantity. The SIP ID must be unique and unique in the system. To avoid mistakes, 2 to 4-digit numbers are very useful.
IP address: IP address of your **INTERCOM**MODULE, e.g., ***“192.168.1.224”***
As Results of the ***Phone number*** (SIP address) is: “77@192.168.1.224 “.

Changes are transferred to the device with ***Write page***.

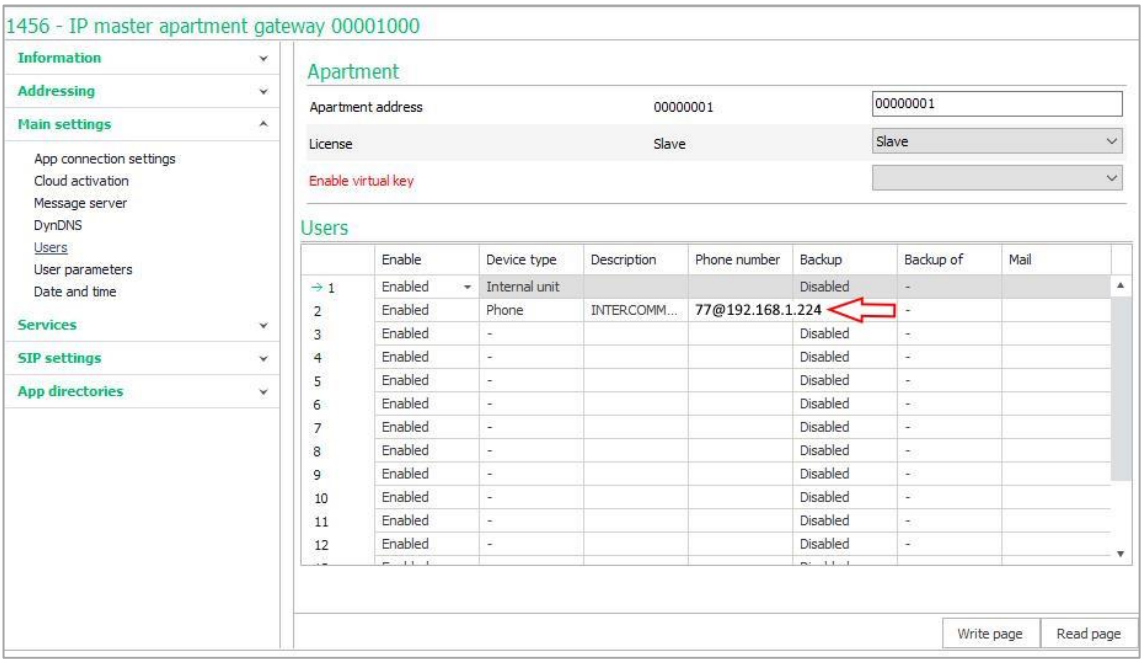


Figure 141: Comelit VIP Manager - IP Master Gateway/ Participants

Services:

No changes need to be made here for the settings of the **INTERCOM**MODULE.

Settings SIP server

In this menu item further adjustments are made between the internal BUS of the Comelit and the connection to the **INTERCOM**MODULE.

Settings Vip to Sip

The following settings must be made or checked.
Call mode Vip to Sip must be set to "Direct".
IP/ host name SIP server: the IP address of the **INTERCOM**MODULE should be entered here. In our example, this would be ***"192.168.1.224"***.
SIP server port: the value must be 5060.
Timeout registration: leave the factory setting here.
SIP route IP/Hostname: no settings required.
Check that **DTMF opening relay 1** and **relay 2** are set to "010" and "020" respectively.
The 3rd relay DTMF opening is not integrated into the **INTERCOM**MODULE.
Codec Preference must be set to PCMA PCMU.
IP/ host name SIP proxy: no settings required.

Sip video settings

Video streaming via RTSP cannot be activated and leave the ***video resolution*** at the factory default.

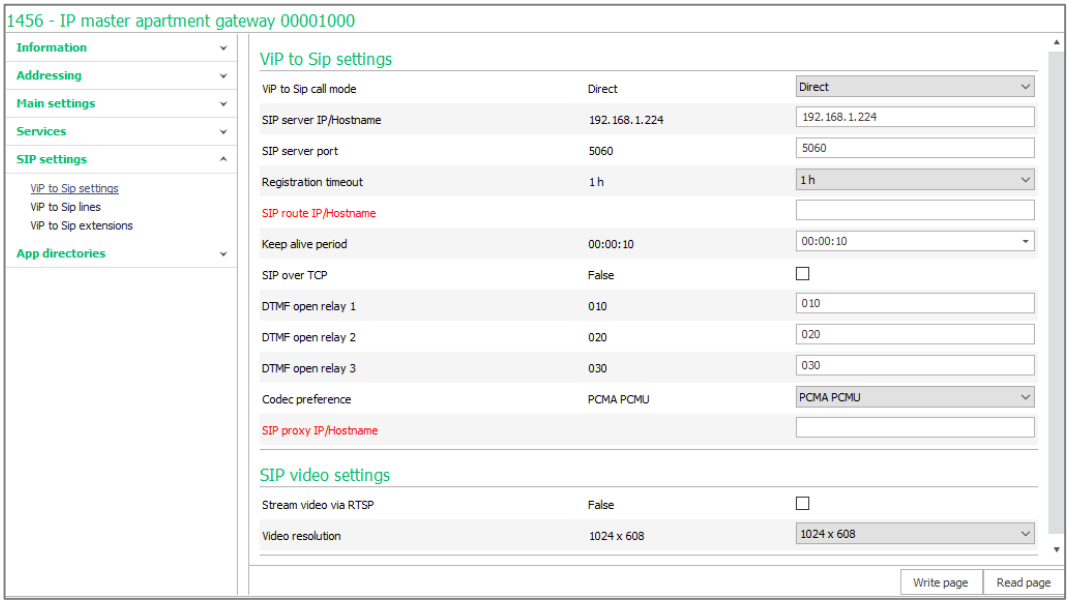


Figure 142: Comelit VIP Manager - IP Master Gateway/ SIP Settings

Settings Vip to Sip lines

Folgende Einstellungen sind vorzunehmen.
Eine Leitung ist als Wahr zu setzen, und mit den Einstellungen des Teilnehmers zu konfigurieren.
Hierfür wird für die ViP Adresse 00000100 der ***Benutzer*** 77 eingetragen.

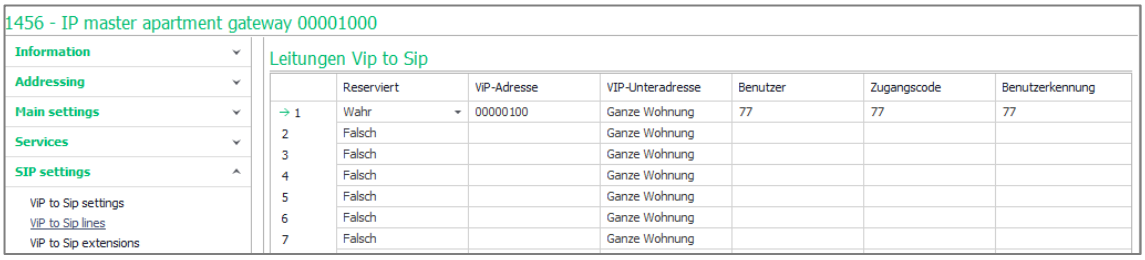


Figure 143: Comelit VIP Manager - IP Master Gateway/ SIP lines

SETTINGS AT **INTERCOM**MODULE

Outdoor Station Configuration

Because the devices do not register with each other, the **INTERCOM**MODULE can now be configured after the Comelit devices have been configured.
First, the settings for the Comelit outdoor station are made. In this case, only the connection to the Comelit IP master gateway is actually configured. The **INTERCOM**MODULE has integrated a manufacturer-specific device profile for this purpose, so that these settings are now quite simple.
Outdoor station name of your outstation: Assign a name for this door intercom connection, e.g. ***"Door"***.
Type of door communication: Now select the ***"Comelit"*** profile.
SIP IDs of the outdoor station: e.g. ***"77"***, only one SIP ID is used in communication with the Comelit system, which sets up the call (call button) and thus the communication connection.
Hostname / IP address of the outdoor station: is the IP of the Comelit IP master gateway ***"192.168.1.143"***.
HTTP port of the outdoor: Leave the port at ***"80"***.

Now save the entries with OK. There is a temporary storage, only when the entire instance is saved are these entries permanently stored in the **INTERCOM**MODULE.

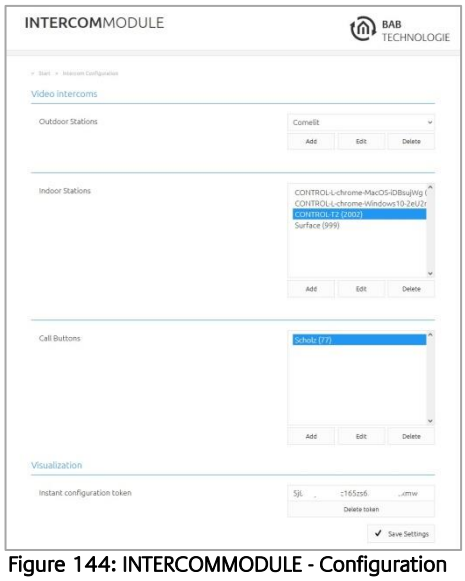


Figure 144: INTERCOMMODULE - Configuration Comelit

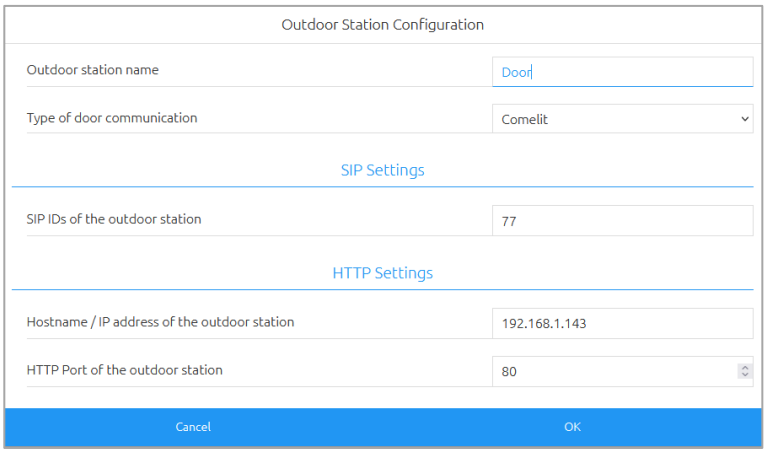


Figure 145: INTERCOMMODULE - Outdoor Station Configuration Comelit

Indoor Station Configuration

Most indoor stations, as well as visualisations CONTROL L and the CUBEVISION 2+ App, are automatically configured via a token. In addition, further indoor stations (e.g. a Surface) or SIP clients can also be added manually. You can therefore enter the name, the SIP ID and the password of your required indoor station here. Please note the information in the "Indoor stations" chapter.

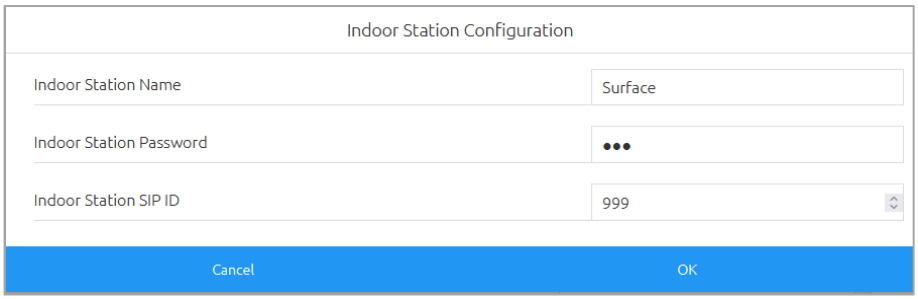


Figure 146: INTERCOMMODULE - Indoor Station Configuration

Cal Button Configuration

Call Button Name: Enter a name for the call button, e.g. the person to be called, in our example ***"Scholz"***.
Call Button SIP-ID: e.g. ***"77"***. You determine this SIP ID yourself. In principle, all characters and numbers can be used, and there are no specifications for their number. The SIP ID must be unique and unique in the system. To avoid mistakes, 2 to 4-digit numbers are very useful.
Outdoor Stations: Select the relevant outdoor station, our example ***"Door"***.

Assign Indoor Stations: If manual indoor stations have been created, they must be activated for the call button so that the call to these indoor stations is established.

Automatically configured Clients: When setting up the connection via the token, all call buttons are always activated. In the visualization itself, it can be determined on which call button a connection is established.

Now confirm the entries with OK. Finally, save the entire instance. This means that these entries are permanently stored in the **INTERCOM**MODULE.

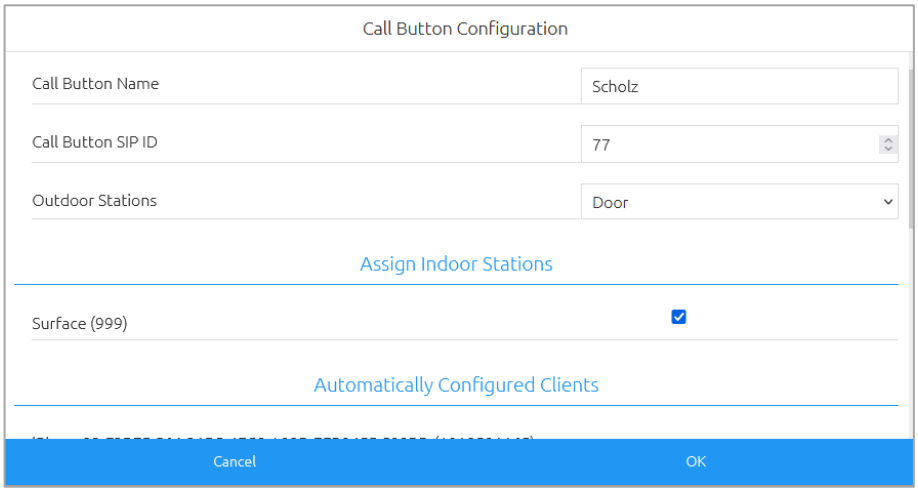


Figure 147: INTERCOMMODULE - Call Button Configuration Comelit

This completes the configuration.

6.9 INTERCOM STATION-CONFIGURATION SIEDLE WITH SMART GATEWAY SG150

The Siedle Smart Gateway SG150 is the interface between an In-Home bus, IP networks, the Internet and the mobile network. Call, audio and video signals are thus transmitted from the door to the IP network and can also be used with the **INTERCOM**MODULE. In such a system, the Siedle Smart Gateway is the server (as well cloud service) and the **INTERCOM**MODULE is integrated as a client.

The prerequisite is that the Smart Gateway SG150 is set up and connected to a Siedle intercom station in the network. The web interface of the Smart Gateway SG150 can be reached on a PC using a browser (Chrome, Firefox, SAFARI, ...).

In order to connect the **INTERCOM**MODULE to the Siedle system as a client or participant, a free telephony license must be available in the Smart Gateway SG150. All other settings are based on default values.

To check the settings and make the necessary adjustments, log into the Smart Gateway SG150 via the web interface.
Under the menu item Status -> Overview you can see the status of the licenses, among other things.

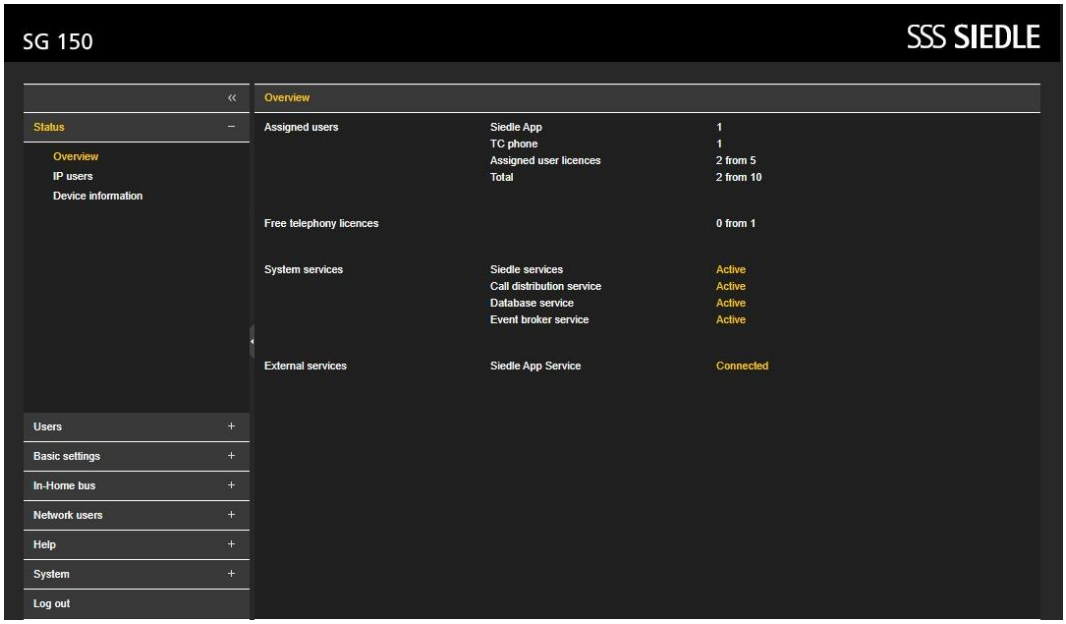


Figure 148: Smart Gateway SG150 - Status/ Overview

The general administration of the licenses takes place in the Siedle Portal via your Siedle Service customer account. You can see your standard licenses for the Smart Gateway SG150 here. The maximum possible number of licenses of the respective license types is shown (regardless of whether it is freely available or available for purchase).

You can add possible licenses via the portal.

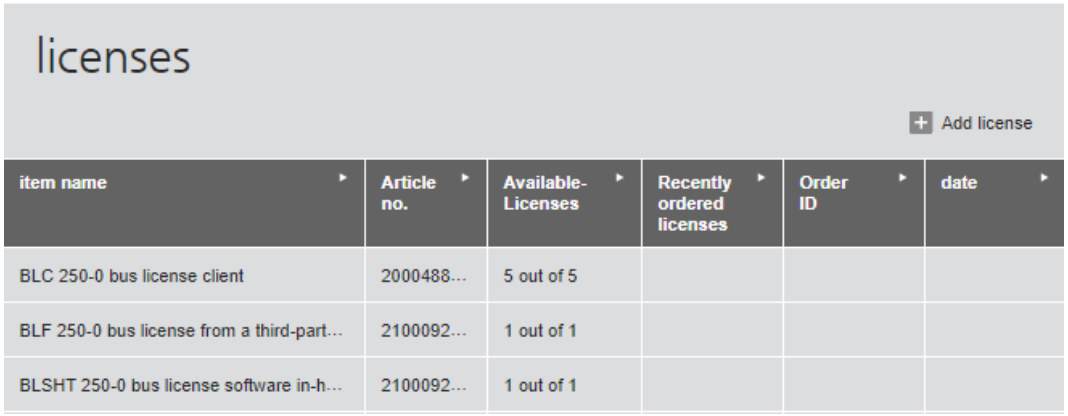


Figure 149: Siedle Service portal

If you have received additional license files, you can add or activate them via the web interface of the Smart Gateway SG150.

Under the menu item: ***Network users*** -> ***Licences***, the licenses are managed in the device and thus also added.

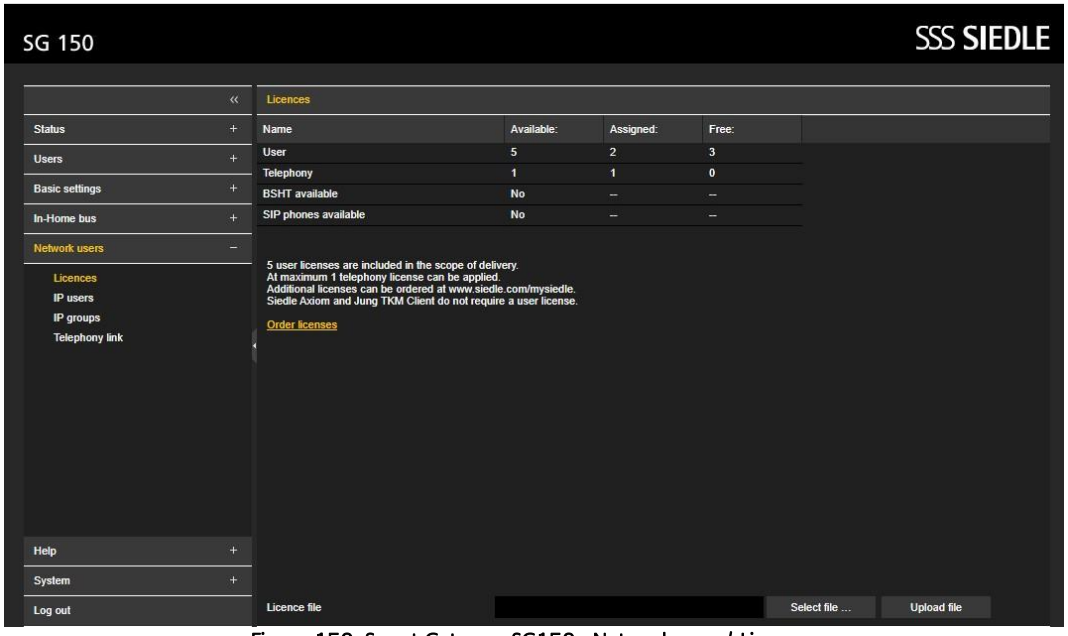


Figure 150: Smart Gateway SG150 - Network users/ Licences

An example setting is described below. The **INTERCOM**MODULE must register itself as a SIP client on the Smart Gateway SG150 / SIP server. Therefore it is recommended to make at first the settings in the **INTERCOM**MODULE. Adopting these settings enables the required registration on the Smart Gateway SG150.

SETTINGS IN THE **INTERCOM**MODULE

Outdoor Station Configuration

First, the settings for the Siedle outdoor station are made. The **INTERCOM**MODULE has integrated a manufacturer-specific device profile for this.
Outdoor station name: Assign a name for this outdoor station connection, e.g. ***"SG150"***.
Type of door communication: Now select the ***"Siedle"*** profile
SIP IDs of the outdoor station: Insert here the SIP IDs with which communication to the Smart Gateway SG150 is to take place. You can define these SIP IDs yourself. We recommend using numeric sequences. It must be ensured that these sequences of numbers are unique in the system. For our example ***"7788,788"***
SIP ID (Registration at INTERCOMMODULE): As previously specified, the SIP ID ***„7788“***.
Password (Registration at INTERCOMMODULE): We use the same sequence of numbers here as the SIP ID. However, it can also be a different (or central) password. In our example ***"7788"***
Hostname / IP address of the outdoor station: it is the IP of Smart Gateway SG150 ***„192.168.1.125“***.
HTTP-Port of the outdoor station: Set the port to ***„63506“***.
Authentication Token: The token is generated in the Smart Gateway SG150 after the **INTERCOM**MODULE is registered there.
Video via http instead of SIP: this function must be activated.

Now save the settings with OK. There is a temporary storage, only when the entire instance is saved are these entries permanently stored in the **INTERCOM**MODULE.

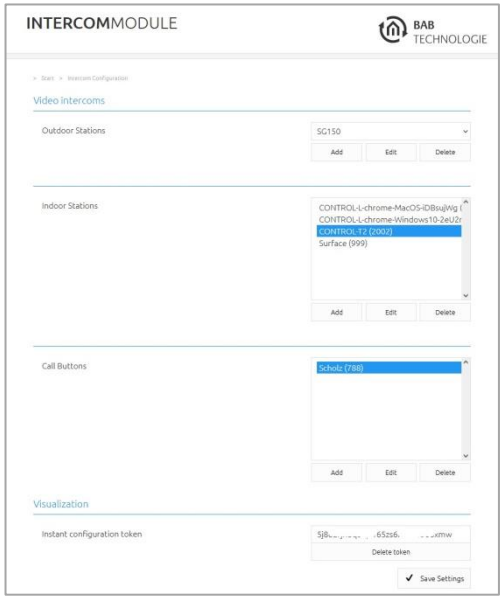


Figure 151: INTERCOMMODULE - configuration Siedle

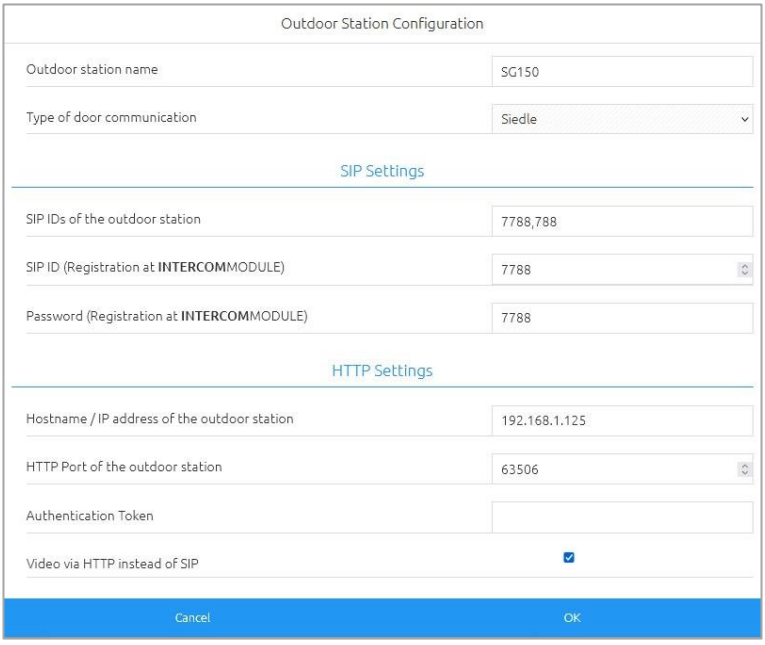


Figure 152: INTERCOMMODULE - Outdoor Station Configuration Siedle

Indoor Station Configuration

Most indoor stations, as well as visualisations CONTROL L and the CUBEVISION 2+ App, are automatically configured via a token. In addition, further indoor stations (e.g. a Surface with Control **T** 2) or SIP clients can also be added manually. You can therefore enter the name, the SIP ID and the password of your required indoor station here. Please note the information in the "Indoor stations" chapter.

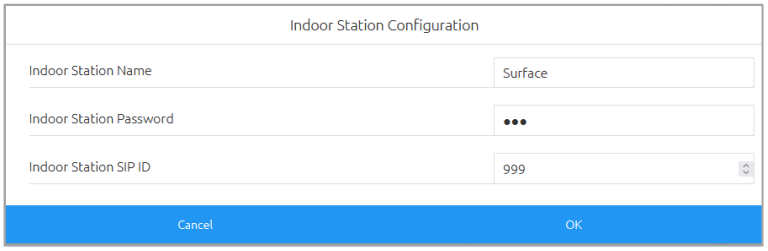


Figure 153: INTERCOMMODULE - Indoor Station Configuration

Call button configuration

Call Button Name: Insert a name for the call button, e.g. the person to be called, in our example ***"Scholz"***.
Call Button SIP ID: e.g. ***"788"***, you define this SIP ID yourself. In principle, all characters and numbers can be used, and there are no specifications for their number. The SIP ID must be unique and unique in the system. To avoid mistakes, 2 to 4-digit numbers are very useful.
Outdoor Stations: Select the associated outdoor station, our example ***"SG150"***.

Assign Indoor Stations: If manual indoor stations have been created, they must be activated for the call button so that the call to these indoor stations is established.

Automatically Configured Clients: When setting up the connection via the token, all call buttons are always activated. In the visualization itself, it can be determined on which call button a connection is established.

Now confirm the entries with OK. Finally, save the entire instance. This means that these entries are permanently stored in the **INTERCOM**MODULE.

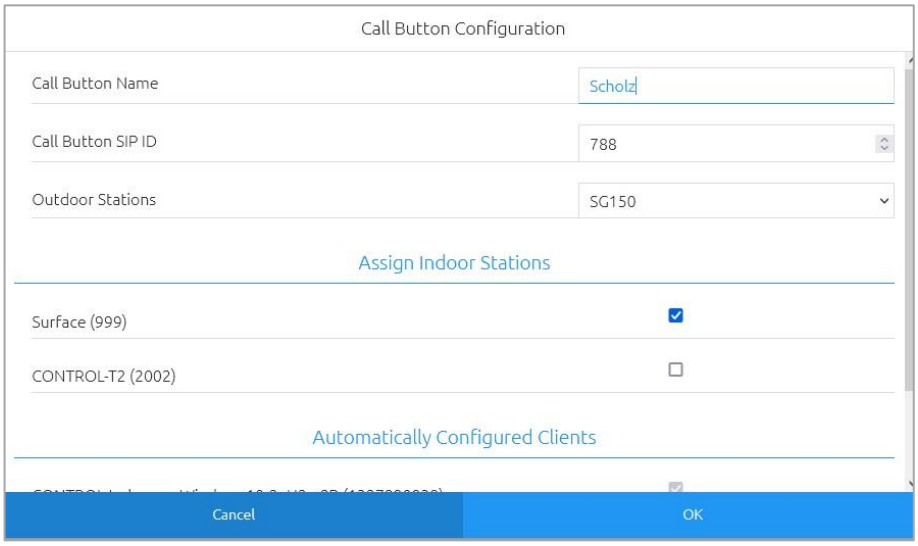


Figure 154: INTERCOMMODULE - Call Button Configuration Siedle

This completes the configuration of the **INTERCOM**MODULE for the meantime.

SETTINGS OF THE INTERCOM STATION/ SMART GATEWAYS SG150

The configuration for a SIP client is described below in order to register the **INTERCOM**MODULE as a client on the Siedle SIP server. You are already logged into the web interface of the Smart Gateway SG150.

First, the participants for the communication are created. You can integrate the Siedle App here as an IP subscriber. Create the participant and transfer it to your mobile device via image scan.
Another IP participant is the **INTERCOM**MODULE. The subscriber type TC telephone is required for this subscriber. In order for this to be available for selection, a Telephony link must be created.

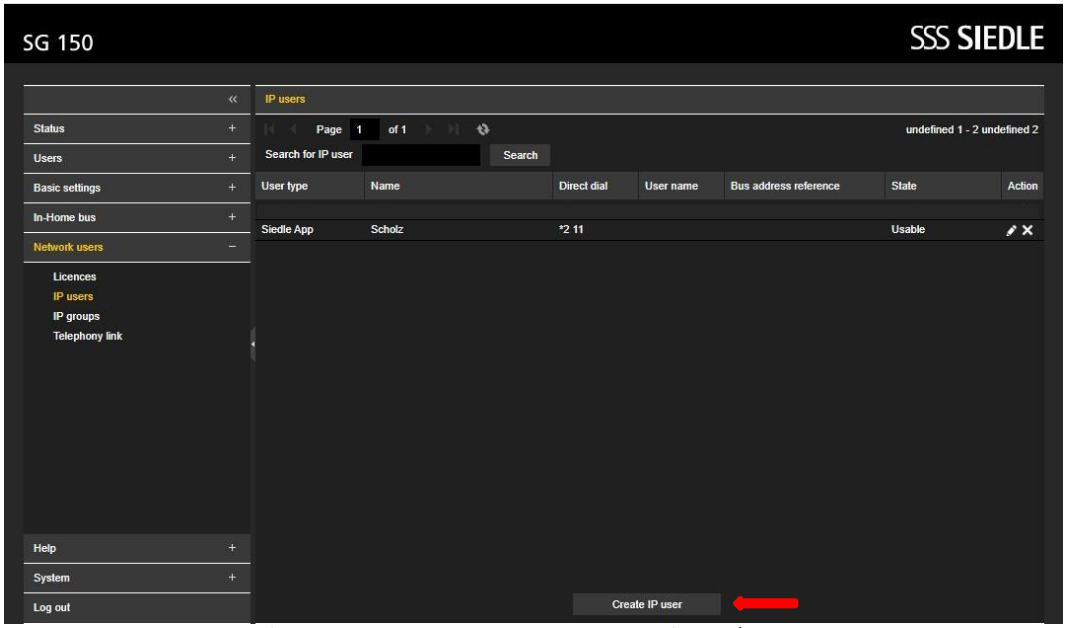


Figure 155: Smart Gateway SG150 - Network users/ IP user

If a telephony license is available, the (SIP) telephony link can now be created.
Under network participants -> ***Telephony link***
Connection type: select here ***"SIP client"***.
Name: enter the SIP client or the SIP ID of the **INTERCOM**MODULE here ***"7788"***.
Address: enter here the IP of the **INTERCOM**MODULE ***"192.168.1.224"***.
TC login name: (SIP ID of the **INTERCOM**MODULE) "7788"
TC password: (SIP PW of the **INTERCOM**MODULE) "7788", can also be different from the name.
Save the settings with ***"Submit"***.

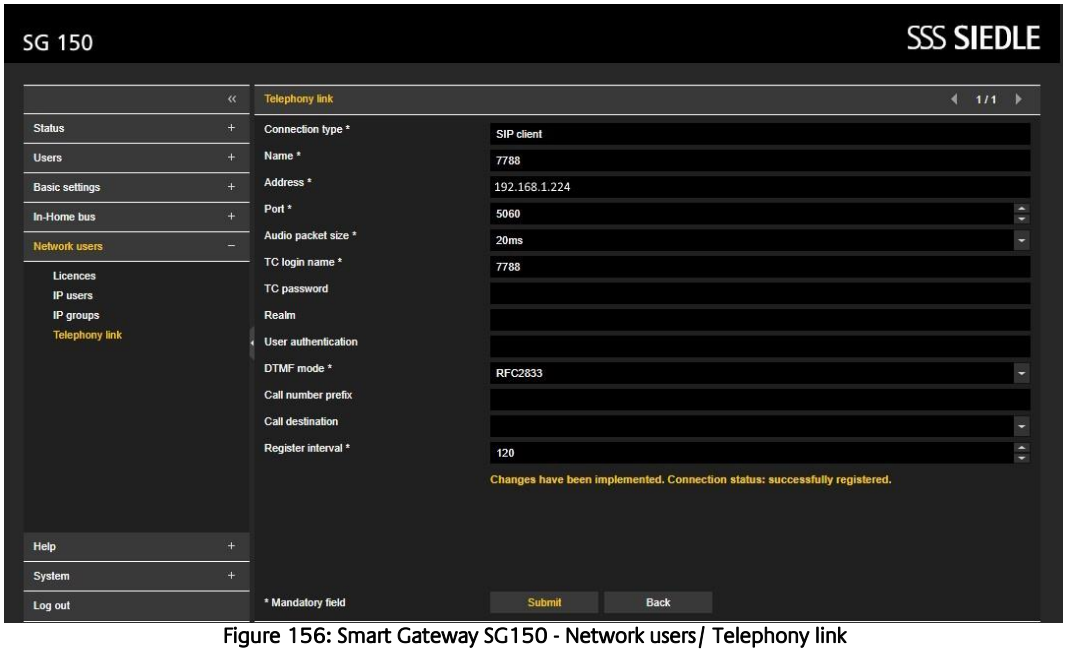


Figure 156: Smart Gateway SG150 - Network users/ Telephony link

If the settings for the telephone link have been made, they must be saved by applying them to the Smart Gateway SG150. With the message "Changes have been implemented. Connection status: successfully registered." Is the INTERCOMMODULE connected to the Smart Gateway SG150.

Now the IP user for the **INTERCOM**MODULE can be created. To do this, go to the IP user's menu item and click on the Create IP subscriber field (marked red). The input window opens.
User type: select ***"TK phone"***.
Name: Enter the SIP ID of the call button here ***"788"***.
Telephony link: select ***"7788"***, the previously created connection.
External direct dial: is in turn the SIP ID of the call button in the **INTERCOM**MODULE, ***"788"***.
Video decoupling: activate this field so that the video URL is displayed.
The video URL displayed here is required to determine further configuration values for the INTERCOMMODULE: http://<IP-Siedle-Gateway>:<Port for video stream>/vE/<Video stream token>, thus http://192.168.1.125:63506/vE/QWERTZUIOP123

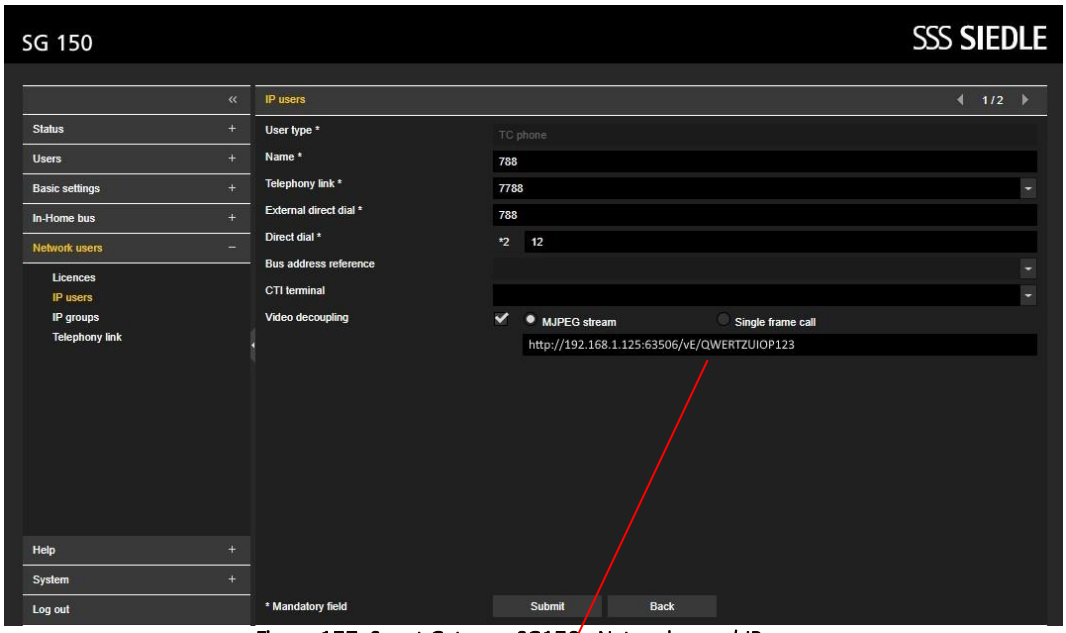


Figure 157: Smart Gateway SG150 - Network users/ IP users

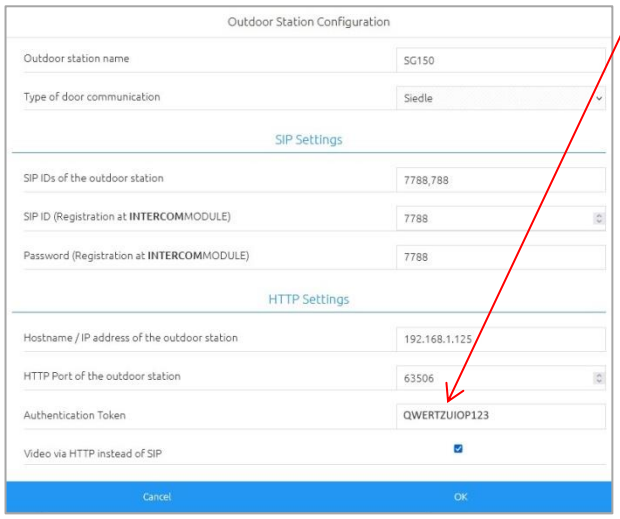


Figure 158: INTERCOMMODULE - Video token

Now transfer the determined token to the configuration of the outdoor station configuration in the **INTERCOM**MODULE.

Confirm the entry with OK and do not forget to save the entire instance (door intercom) to the **INTERCOM**MODULE.

So that all IP users are called when the doorbell rings, they must be combined in a group. In our example, the user (created in Siedle App) and the user (telephony link) are combined in a group through.

Create IP groups:
By combining the participants to be called in a group, this call group receives a valid bus address reference related to the call button.
Go to the IP Groups menu item and click on ***Create IP Group***. (marked red)
IP group: assign a name, e.g. ***"Tuer"***

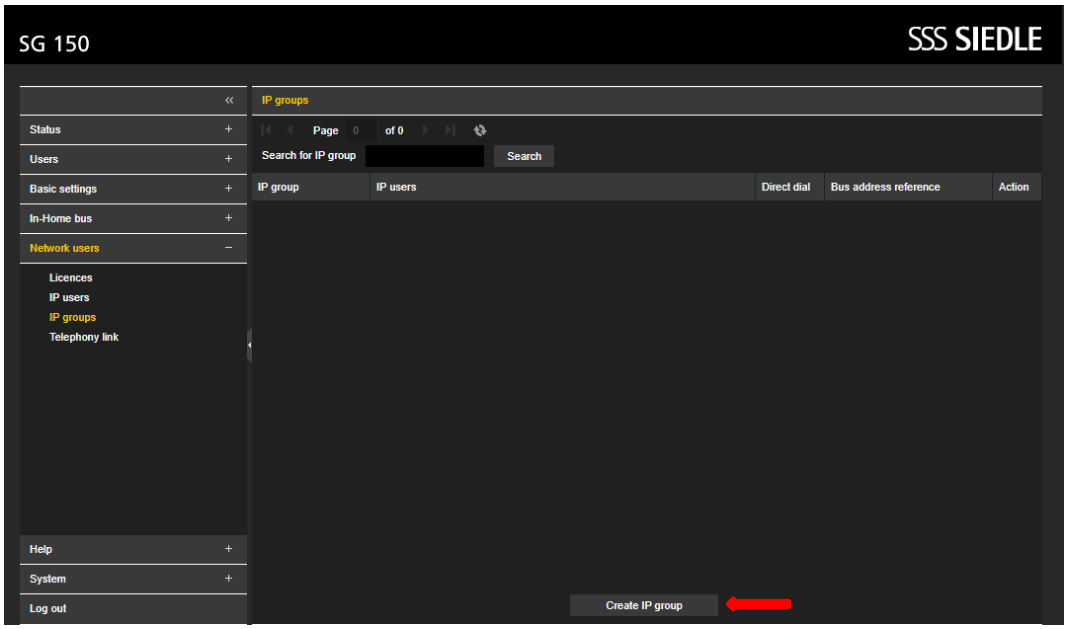


Figure 159: Smart Gateway SG150 - Network users / Create IP group

Direct dial: a direct dial number is created sequentially and does not need to be changed, although it could be.
Bus address reference: a virtual user ("Teilnehmer") is displayed in the selection window, which is used as an address reference for this IP group. This Bus address reference was created by the Siedle system when it was set up and is the call number for the call button on the outdoor station. Select that "Virtueller Teilnehmer"
Click ***Add user***.

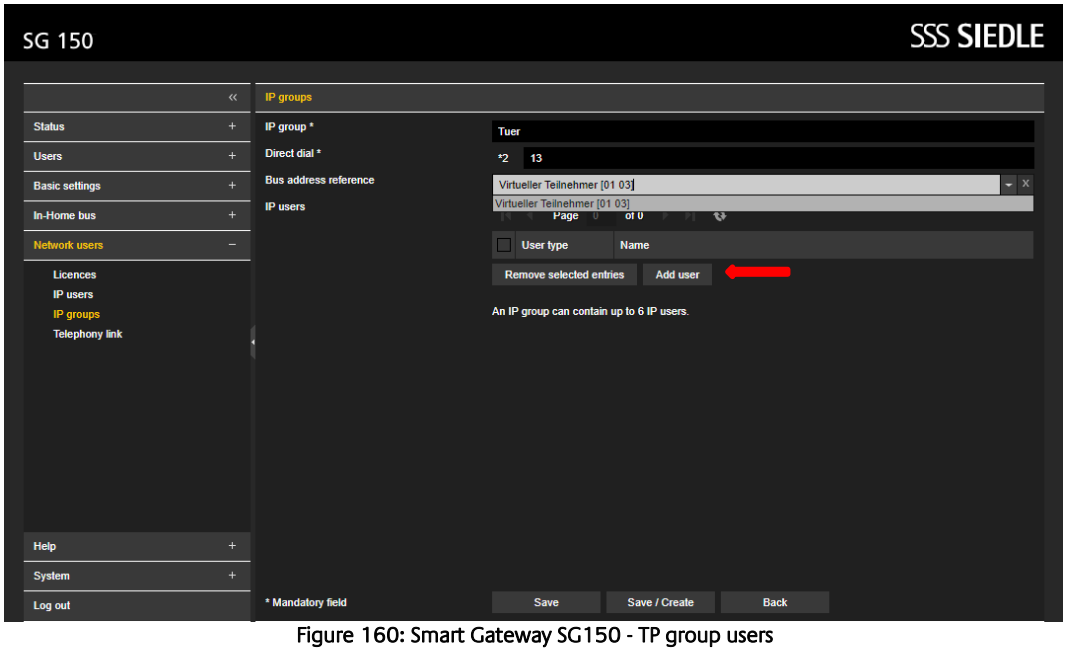


Figure 160: Smart Gateway SG150 - TP group users

Now the users who are assigned to this IP group are selected.
IP users: add or delete the respective users. After selection, close the window.
Save the entries.

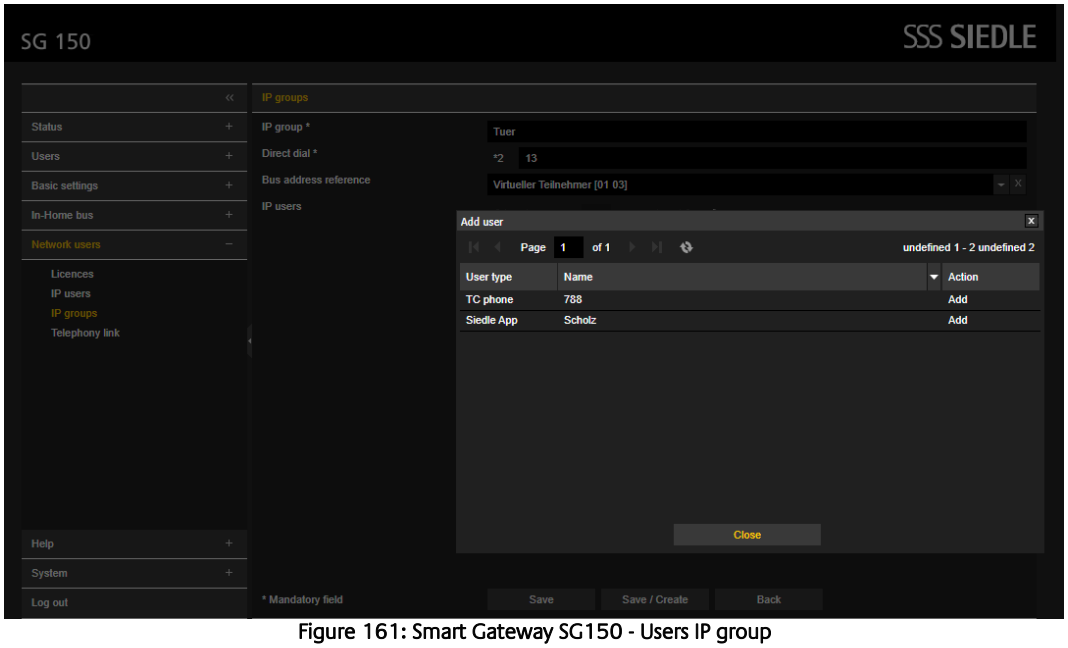


Figure 161: Smart Gateway SG150 - Users IP group

To complete the IP groups, ***Save*** them.

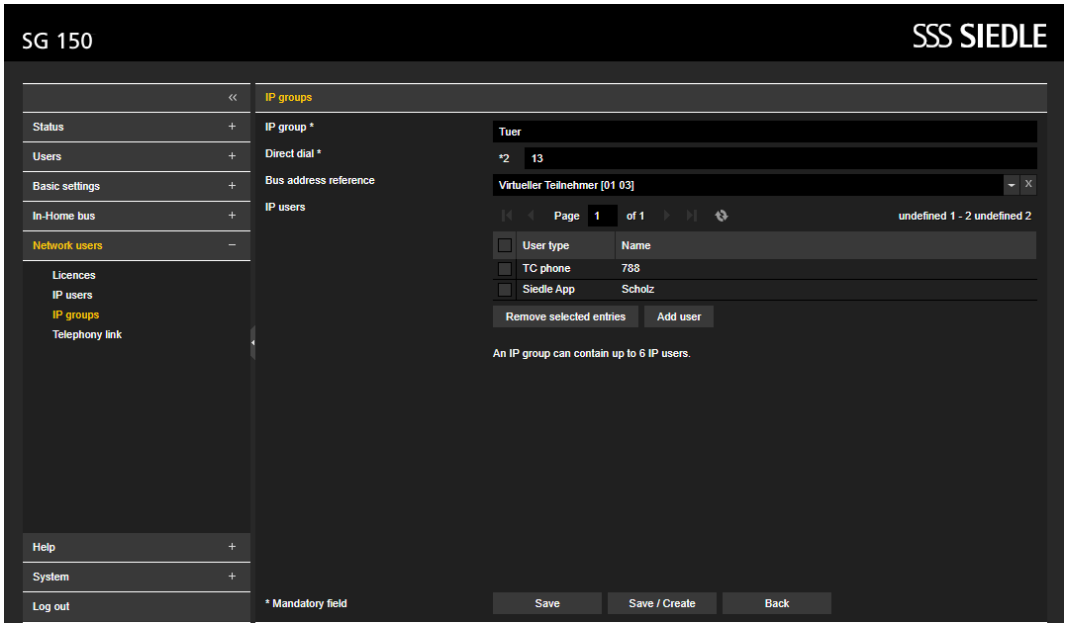


Figure 162: Smart Gateway SG150 - IP groups settings

The successful transfer of the data is indicated by the system.
This completes the IP group and connects it to the call button of the station.

Figure 163: Smart Gateway SG150 - Network users/ IP- groups

A notice:
The ***door opener*** and ***door light*** are on according to the factory settings
#61 and #50 respectively. These are also stored in the **INTERCOM**MODULE.

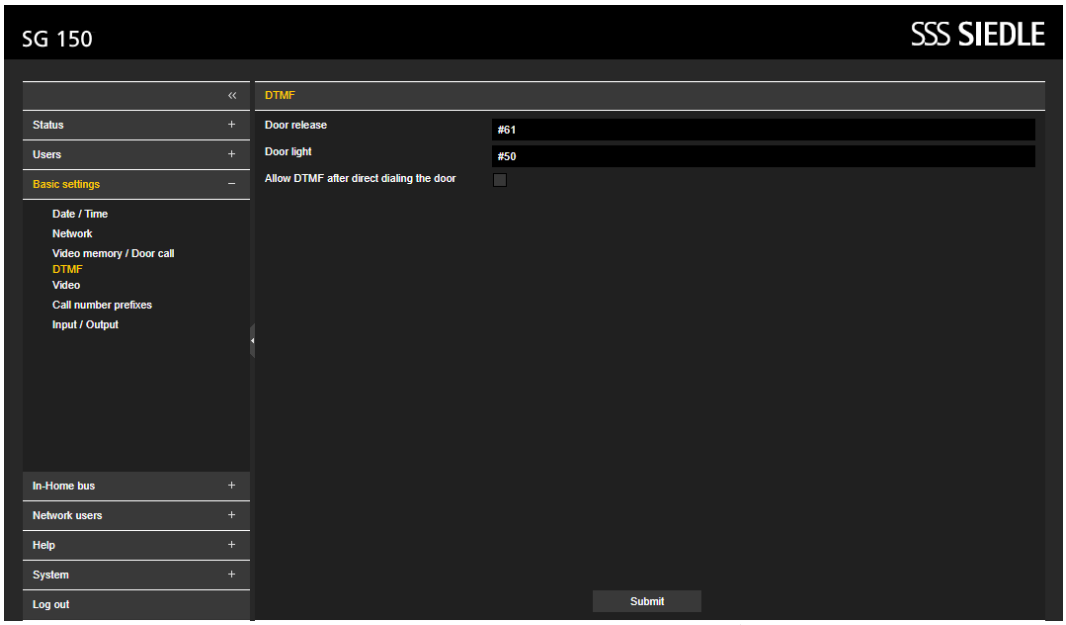


Figure 164: Smart Gateway SG150 - Basic settings/ DTMF

This completes the configuration for integrating the Siedle intercom station into the **INTERCOM**MODULE.

7 APPENDICES

7.1 DEVICE / INTEGRATION OVERVIEW

The device designations named in the table below are the outdoor stations at which the respective device profiles for the station selection were adapted and tested. For the settings described in these manual, there are only the changes to the settings that are to be carried out based on the respective factory settings are listed.
In case of doubt, e.g. if the settings are not known, it is recommended to perform a factory reset. Make sure that you have the necessary keys, passwords, PINs, ... etc. If possible, you should also make a backup of the current settings.

Device profile - Outdoor Station	**Manufacturer**	**Device designation**
2N	2N TELEKOMUNIKACE a.s.	2N® IP VERSO
ABB Welcome IP-Gateway	Busch-Jaeger Elektro GmbH	Busch-Welcome® IP-Gateway 83342
AGFEO	AGFEO GmbH & Co. KG	AGFEO IP-VIDEO TFE 1
Akuvox	AKUVOX (XIAMEN) NETWORKS CO., LTD.	Akuvox R20A
		Akuvox R27A
Comelit	Comelit Group S.p.A. Deutschland	GATEWAY MASTER ViP 1456
Doorbird	Bird Home Automation GmbH	DoorBird IP Video Türstation D2103V
KOCH	René Koch AG	Video SIP-Gateway AVS2100
Mobotix	MOBOTIX AG	MOBOTIX T25MX
Siedle	S. Siedle & Söhne, Telefon- und Telegrafenwerke OHG	Smart Gateway SG150

The intercom outdoor stations listed in the table are the so-called basic models. Most manufacturers offer different modifications and types of devices. Differences in the settings to the basic models must be found out from the respective manufacturers.
Due to the high variety of devices, we cannot offer any support for this.

7.2 PRACTICE TIPS

7.2.1 TESTING AND DETECTING SIP SETTINGS OF THE ABB WELCOME WITH IP-GATEWAY

With help of SIP software tools (e.g. PhonerLite) you can test the SIP configuration of the IP-GATEWAY and by the way the correct SIP of the call button will be displayed.
As ***Proxy/registrar*** of the SIP Software Tool: enter the IP of your IP-GATEWAY here
User name and ***Password*** of the SIP Software Tool: Here you enter the assigned entries as they are in the ComfortTouch 3.x.
This completes the required configuration.
Your SIP Software Tool should now have registered with the IP-GATEWAY. If no registration has taken place, there is an incorrect setting.
You can thus trigger the call from the door station. Your SIP Software receives the call. When calling, the calling SIP address is displayed (e.g. 100000001@192.168.1.129) here is:

- 100000001 is the SIP ID of the call or bell button
- 192.168.1.129 the IP address of the IP-GATEWAY

You can therefore also check whether the call button SIP ID assigned in the **INTERCOM**MODULE is correct.

7.2.2 SIP-SOFTWARE AS INDOOR STATION OF THE INTERCOMMODULES FOR COMMUNICATION TEST

In order to be able to test INTERCOM connections of the **INTERCOM**MODULE, you have the option of configuring SIP Software Tools as an indoor station (SIP client).

With help of SIP Software Tools (e.g. PhonerLite) you can test the SIP configuration and the correct SIP IDs, e.g. a call button, will also be displayed.
Enter an ***Indoor Station Name***.
Set an ***Indoor Station Password*** and determine the ***Indoor Station SIP ID***.

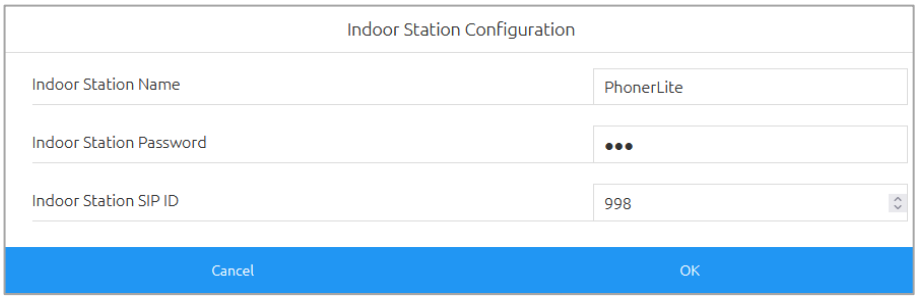


Figure 165: SIP Software as Indoor Station

The following settings of the SIP Software Tool are required:
Proxy/Registrar: is the IP address of your ***INTERCOM***MODULE (e.g. 192.168.1.221)
Username: is the SIP ID of the indoor station
Password: is the password of the indoor station

If all settings are correct, the connection will appear as registered.

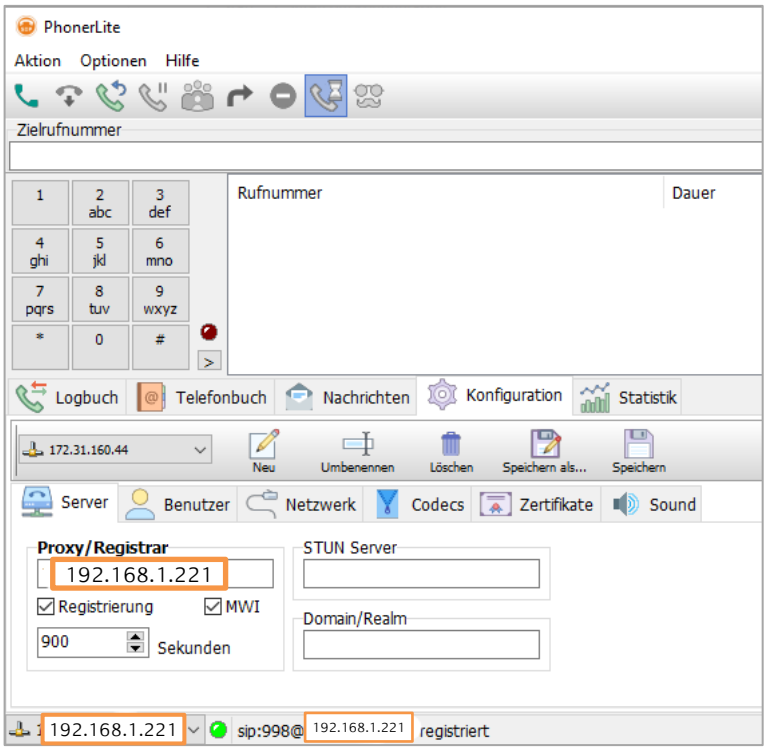


Figure 166: SIP Software Tool - PhonerLite

When get a call, you see the calling SIP address (<SIP-ID>@<Registrar>).

Note that this SIP Indoor station must be activated for the respective call button so that the call is forwarded accordingly.

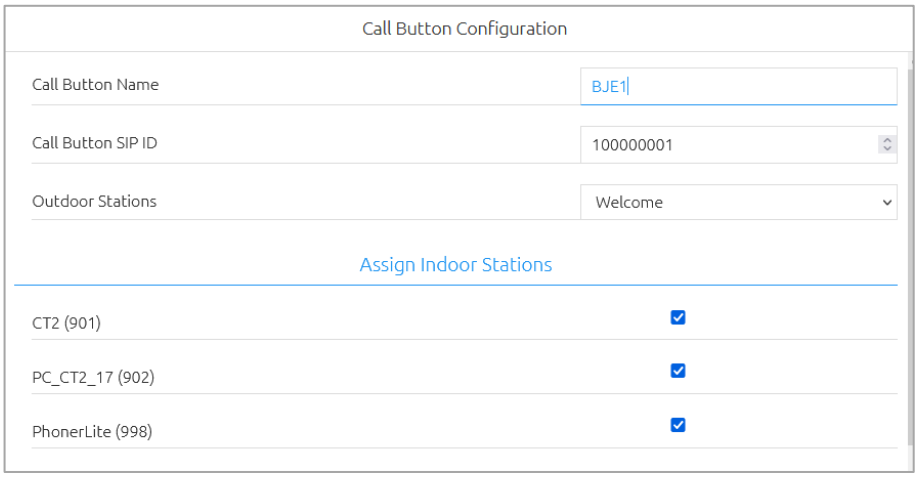


Figure 167: INTERCOMMODULE Call Button Configuration – SIP Software Tool

7.2.3 SIP-SOFTWARE AS MOBILE INDOOR STATION OF INTERCOMMODULES FOR COMMUNICATION TEST

In order to be able to test INTERCOM connections of the **INTERCOM**MODULE, you have the option of configuring SIP Software Tools as a mobile indoor station (SIP client).

With help of SIP Software Tools (e.g. Linphone) you can test the SIP configuration and the correct SIP IDs, e.g. a call button, will also be displayed.
The settings of the indoor station are the same as in the previous chapter.
Enter an ***Indoor Station Name***.
Set an ***Indoor Station Password*** and determine the ***Indoor Station SIP ID***.

The settings on your mobile device are illustrated in the following images:

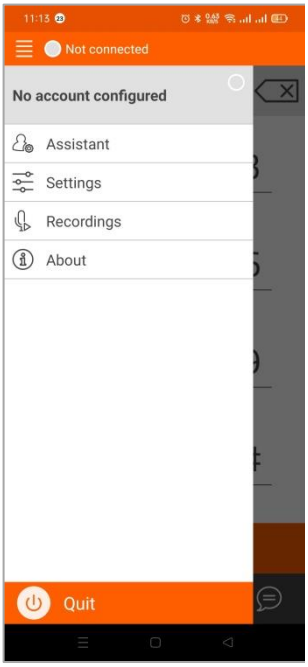


Figure 168: Linphone - start Assistant

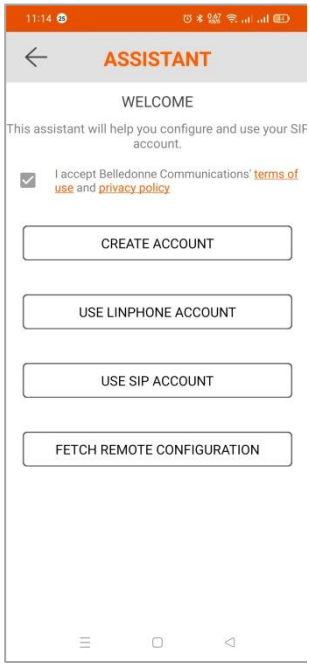


Figure 169: Linphone - configure USE SIP Account

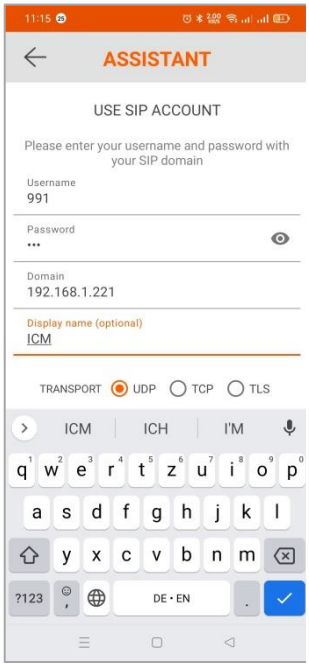


Figure 170: Linphone - insert value of Indoor Station

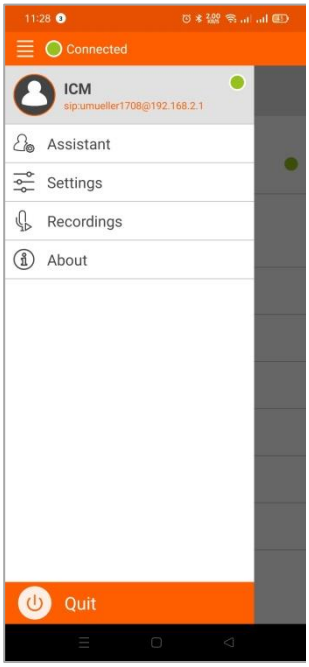


Figure 171: Linphone - Login, establishing connection

Note: Depending on the existing door station (manufacture) the video communication is also possible. The shown installation is not a customer solution, as not all necessary settings are accessible. However, this installation can be very helpful for the analysis of your SIP network.

7.3 CONFIGURATION TEMPLATE

This table can be printed out and entered login data and information for setting up the intercom for documentation.

Configuration for: _____

Manufacturer	
Location	
IP-address	
Login	
Password	
Outdoor Station	
Name	
SIP-ID Outdoor Station	
User (C-P / ICM)	
Password (C-P / ICM)	
IP-address	
HTTP-Port	
User	
Password	
Video via	SIP
Indoor Station	
Name	
SIP-ID Indoor Station	
Password	
Call Buttons	
Name	
SIP ID	
INTERCOMMODULE	
IP-address	