



Zennio GetFace IP

IP Video Intercom (Basic Unit)

ZVP-CAM/ZVP-WOCAM

User manual version: [2.32]_d
Firmware version 2.32

www.zennio.com

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DOCUMENT UPDATES

Version	Changes	Page(s)
[2.32]_d	Changes regarding the access mobile application with the Bluetooth module	
[2.32]_c	Indication about earth connection in the device wiring diagram.	
[2.32]_b	Indication about limitation of liability regarding to ZenCom application.	
[2.32]_a	<p>Change of location of the parameters “Answer Incoming Call by Button” and “Button Function During Outgoing Call” to the Services → Telephone → Calls tab.</p> <p>Removed “Default to” address in E-mail → E-mail tab.</p> <p>Keypad module options included in Phone → Services → Calls</p> <p>Change in the recommended authentication configuration of the system API.</p> <p>Removal of the section dedicated to the ZVP-FINGER module (discontinued).</p> <p>Minor text changes.</p>	
[2.26]_a	<p>Possibility of remote control via ZenCom application.</p> <p>Change in the recommended configuration of the system API.</p> <p>Test button which simulates a quick dial button press.</p> <p>Possibility of restoring only certain configuration options when loading a backup.</p> <p>Minor corrections and changes.</p>	
[2.25]_a	<p>Display → The touch display module can be configured to show icons instead of texts.</p> <p>E-Mail → Automatic sending of system action e-mails.</p> <p>Option to pick up an incoming call via a selected speed dial button.</p> <p>Enhanced security due to the TLS version option.</p>	

	<p>User Virtual Number → can be a number of 1 to 7 digits.</p> <p>Minor corrections and changes.</p>	
[2.24]_a	<p>New structure of the section Directory → Users. Up to 10,000 users available.</p> <p>New structure of the section Display → Phonebook.</p> <p>Possibility to set the user's location in the directory in the user's configuration. Calling groups.</p> <p>Quick Dial Buttons: multi-user call.</p> <p>Possibility of establishing specific time profiles (different from the predefined ones) for each user number.</p>	
[2.23]_a	<p>Fingerprint reader module (ZVP-FINGER) configuration.</p> <p>Up to two cards per user for accessing with the module ZVP-RFSMN.</p>	
[2.22]_a	<p>New section for door configuration: Hardware / Door.</p> <p>Minor corrections.</p>	
[2.21]_a	<p>Reset configuration to default state.</p> <p>Clarification about "Phone Number (ID)"</p> <p>Automation Configuration.</p> <p>Accesses E-Mail Configuration.</p> <p>Hardware configuration of the ZVP-RFSMN module</p> <p>Minor text changes.</p>	
[2.20]_a	<p>Bluetooth Module Configuration.</p> <p>Configuration of RFID cards in Hardware section.</p> <p>Minor corrections.</p>	
[2.18]_b	<p>Minor text changes.</p>	

1 INTRODUCTION

Zennio GetFace IP is the video intercom solution from Zennio. In combination with the supported Zennio indoor units (e.g., Z41 COM, Z70 v2, Z100, etc.), it provides integration for **video-call** management between the entrance door of a residential environment (like single-family homes, apartment blocks or housing states with a common access) and the interior of the dwelling. Or between the interior of any environment with similar characteristics, as an office building, and the access door.

Furthermore, through the **ZenCom** mobile application (*) (available for Android and iOS) it is possible to interact with the video intercom from anywhere. This application allows seeing who is knocking on the door, having a conversation and even opening remotely from a mobile device.

The most outstanding features of Zennio GetFace IP are:

- High resolution video camera (1280x960 resolution) and IR emitter for darkness situations (ZVP-CAM).
- Operating temperature: -40 to 60 °C.
- Operating relative humidity: 10 to 95%.
- RJ-45 connector and Fast Ethernet standard support.
- PoE (Power over Ethernet) 802.3af – Class 0 – 12.95W power supply possibility.
- Reset button and pilot lights (yellow, red and green).
- Audio output (Line Out).
- Relay output NO/NC 30V/1A (AC/DC) for opening and closing functions.
- Active or passive input (-30 – 30VDC).
- Active output (8 ... 12VDC, I_{MAX}=400mA).
- Several Opening Methods.
- Remote Control via ZenCom application (*).

(*) LIMITATION OF LIABILITY

Zennio informs the user that the correct functioning of ZenCom depends on several factors, among which the following stand out:

- ZenCom must have all the permissions it requests.
- ZenCom must have an active user account consisting of, at least, an identifier and a password provided by Zennio.
- The outdoor units must be parameterized according to the requirements established by Zennio (consult the documentation for each device).
- The outdoor units must be registered in ZenCom servers using the specific credentials provided by Zennio for each unit.
- For the correct operation of the service, both the outdoor unit(s) and the smartphone(s) must have internet access, and this connection must have these features at least:
 - Minimum of 10Mb/s upload and download.
 - Unlimited use of, at least, the following protocols and technologies: SIP, SRTP, HTTPS, SDP, Google and Apple push notification services.

However, it is noted that certain companies limit some of the necessary services for the ZenCom ecosystem. In these cases, Zennio cannot be held responsible for the correct functioning of ZenCom, so they must be communicated and managed with your Internet Service Provider. These limitations can be present in any of the networks to which the outdoor units and in the devices where the ZenCom application is installed.

In case of doubt, gather as much information as possible about your issue and contact Zennio's Technical Service (support@zennio.com).

2 INSTALLATION

2.1 DEVICE WIRING DIAGRAM

Zennio GetFace IP provides several optional modules which can be connected individually to expand the number of the device functions or features.

- Keypad module (ZVP-KEYPAD),
- 5-button module (ZVP-NAME5),
- Touch display (ZVP-TOUCHD),
- Information panel (ZVP-INFOP),
- Access card reader module RFID (ZVP-RFSMN),
- Magnetic induction module (ZVP-ILOOP),
- I/O module (ZVP-INOUT).
- Smart card RFID reader NFC ready (ZVP-RFSMN).
- Bluetooth Module (ZVP-BLUET).

Notes:

- *A reboot of the intercom is necessary after connecting a module prior to accessing its configuration.*
- *Locating a specific module at any time is possible by entering the web Hardware → Extenders section within the web interface (please refer to the next sections of this document).*
- *The video intercom can be powered by a 12V external supply or through the PoE input.*
- *If audio coupling problems are observed during a call, a filter of the acoustic feedback is required (see section 3.2.4.1).*

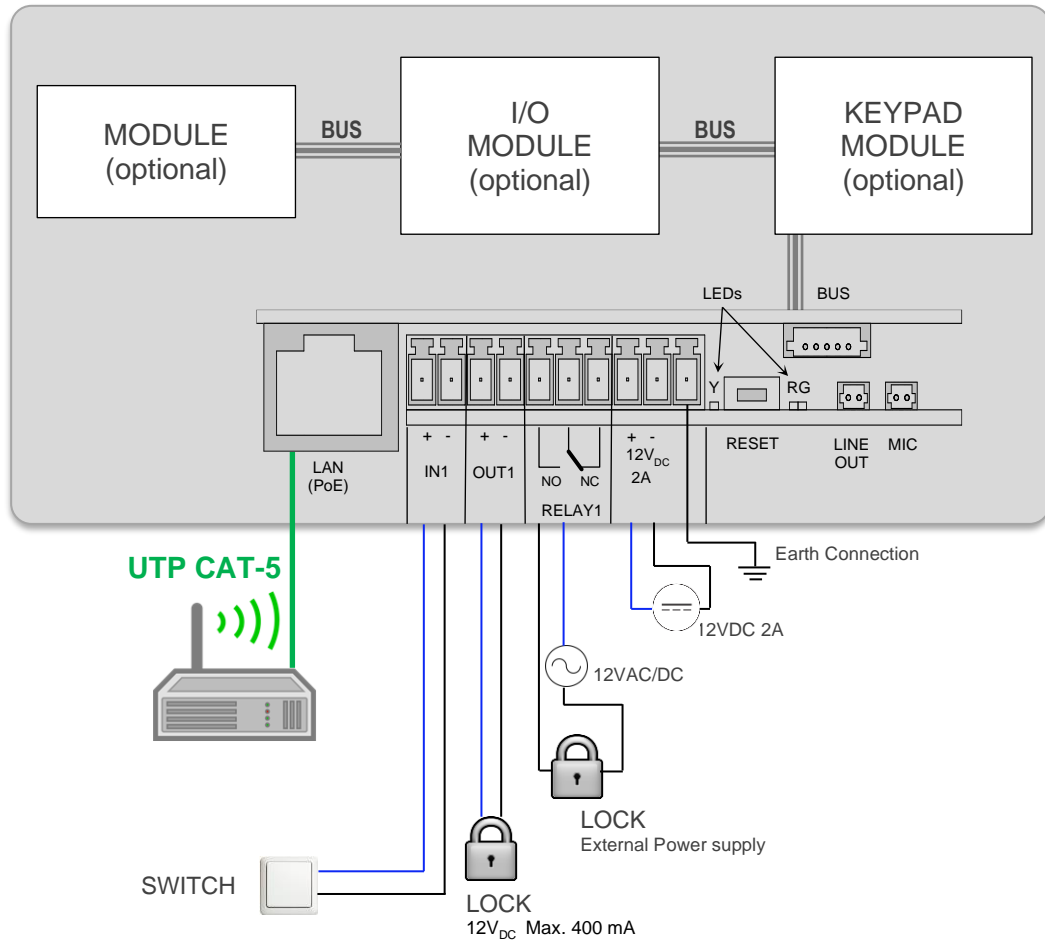


Figure 1 Device wiring diagram.

2.2 APPLICATION CASES

The most typical network topologies where Zennio GetFace IP can be installed are outlined in this section.

2.2.1 SINGLE-FAMILY HOMES

For an individual housing environment that requires completely independent video-call systems, the typical installation will be one of the two shown in Figure 2 -- this will depend on whether direct interconnection between Zennio GetFace IP and the Zennio indoor unit is possible or, alternatively, on whether both devices are being connected through an indoor router (provided, for example, by the Internet service provider).

If needed, a network switch that expands the number of available LAN interfaces can be connected to the router, so multiple indoor units can be incorporated to the system.

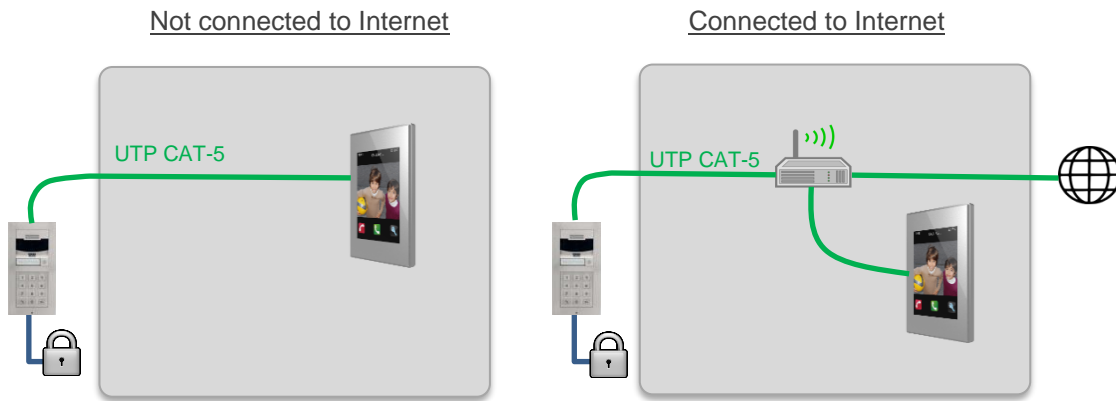


Figure 2 Single-family home installation.

2.3 APARTMENT BLOCK

In the case of an apartment building equipped with a common Zennio GetFace IP intercom for all of them, a community network infrastructure (firewall-managed) will be required to interconnect the video intercom with each apartment. As in 2.2.1, each of apartments may or may not have its own Internet connection router.

Figure 3 shows a good example of this type of topology: VLAN labelling is used as traffic insulation between each dwelling.

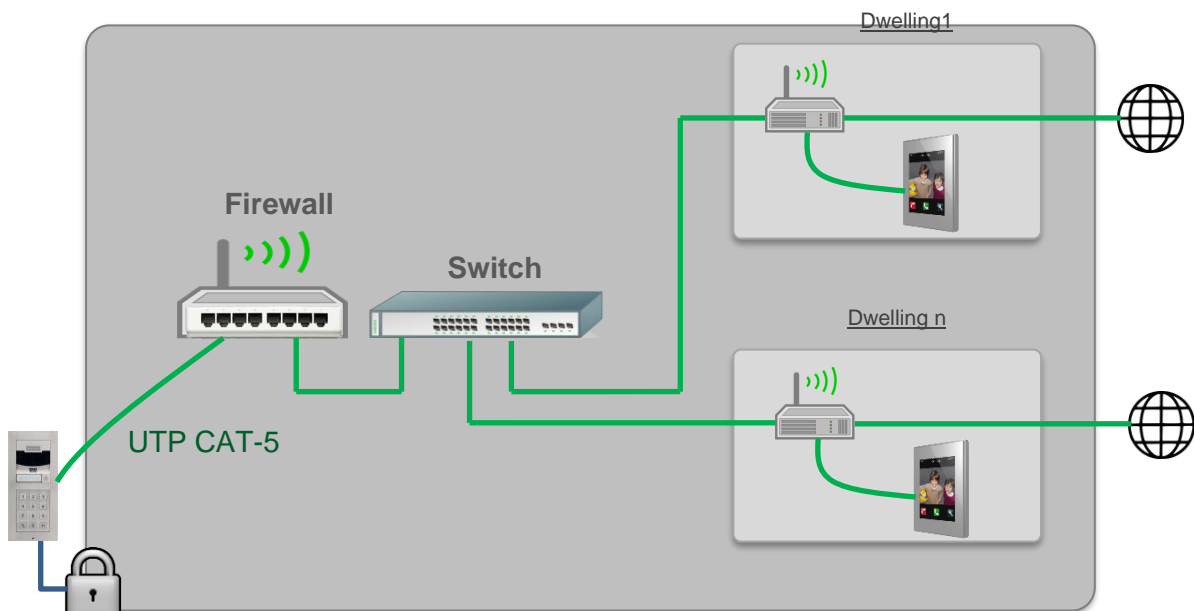


Figure 3 Apartment block installation.

For detailed information about the technical features of Zennio GetFace IP, as well as on security and installation procedures, please refer to the device **Datasheet**, bundled within the device packaging and also available at www.zennio.com.

3 CONFIGURATION

After completion of the installation (please pay attention to the application cases explained above), the device shall be configured. A number of parameters will be provided for the proper, joint operation of Zennio GetFace IP and Zennio indoor unit.

During the first 30 seconds of operation (after supplying power to the video intercom), **the main unit button should be pressed for 5 times**. This will make **the device say (with its own voice!) its IP address**. To enter the configuration interface, a web browser will be required. The URL address should be in the following format: **“https://192.168.1.100”** (assuming that 192.168.1.100 is the IP address of the device).

The video intercom is configured to work with a DHCP server by default. If no DHCP server is available or network issues are found, the video intercom may take a wrong IP address (0.0.0.0).

The network configuration of the GetFace IP can be modified by **quick pressing the main unit button for 15 times after the start-up**. This will make it reboot again automatically. After each reboot, the device will switch between a dynamic IP (DHCP) and a static IP configuration, being the latter 192.168.1.100.

Authentication is required for access to the web interface. **By default**, it is set to:

- User: **admin**
- Password: **zennio**

Note: *please pay attention to upper and lower-case letters.*

Changing the password is recommended after the first access to the device. This is possible by entering **Services → Web Server**. The new password should be eight characters long and should include at least one capital letter, one lowercase letter, and one number.

The main window will look similar to Figure 4.



Figure 4 Configuration menu.

Notes:

- The default language of the interface is English.
- A Save button is provided at the bottom of each configuration page to allow saving any changes made, although a confirmation message will show up if trying to switch to another page without having saved them.

3.1 GETFACE IP BASIC SETTINGS

The most important fields to be configured so the video intercom can interface with Zennio indoor unit are explained next. Those to be modified from the default configuration are, in short, the following:

- **Phone Number (ID):** identifier of the video intercom (if intending to link it to a specific box in Zennio indoor unit).
- **HTTP API:** services security settings. Up to 5 different configurations available.

- **Users Phone Number:** should contain the IP address of each Zennio indoor unit.

How these fields should be configured is explained in the following sections.

Notes:

- *Options not mentioned in the present document should be left with their default configuration.*
- *Options showing a prohibition icon when the mouse pointer is placed over them are locked due to license constraints.*
- *It is possible to return the device to its default settings ('hard reset'). To do this, there are two options:*
 - *Pressing the reset button of the main unit for 30 seconds.*
 - *In the web interface, in the section **System** → **Maintenance** → **Configuration** → **Reset Configuration to Default State**.*

3.1.1 NETWORK CONFIGURATION (SYSTEM)

The Network section allows using a DHCP server or setting up a static network configuration.

Note: *there are cases where the application of a static IP is mandatory.*

- *In single-family homes, with the video intercom connected directly to the indoor unit. It is important to ensure that their network mask is the same while their IPs are different (but belonging to the same range).*
- *When the video intercom and Zennio indoor unit belong to different networks (depending on the case). In this case it will be also necessary to enable in the application program of the indoor unit in ETS the parameter **The External Unit Is In a Different Network**, and to enter the same fixed IP address that has been configured in the web interface.*

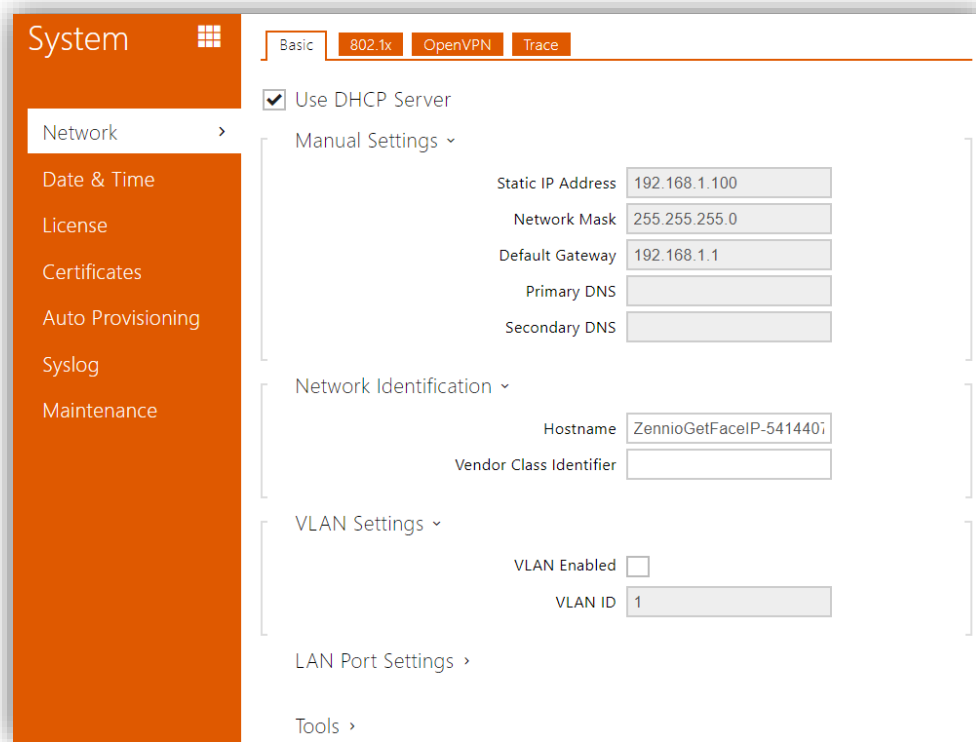


Figure 5 System.

3.1.2 VIDEO-CALL CONFIGURATION (SERVICES)

3.1.2.1 PHONE

Basic video-call functions are configured in this tab.

SIP

SIP is a transmission control protocol used in IP telephony. Up to two SIP profiles can be set up. Each profile should be configured properly according to its own operation network. The following configuration settings allow Zennio indoor unit to connect to Zennio GetFace IP.

- **Intercom identity:** configuration parameters that define the video intercom profile (see section 3.1.3.1):
 - **Display name:** identification name for the video intercom, which is also shown at the start page of the web interface.
 - **Phone Number (ID):** alphanumeric identifier for the video intercom. This value must match the **Intercom ID** parameter (in ETS) of the particular box

of Zennio indoor unit where the video intercom is desired to be linked to. This field is mandatory if the outdoor and indoor unit are in different networks. It is also required when several video intercoms must be distinguished in different boxes in the same indoor unit.

Notes:

- Characters > and < are not allowed in the **Display name** field.
- The **Phone number (ID)** field must be alphanumeric and no longer than 10 characters. Characters like @ or . are not allowed. However, basic punctuation marks are allowed.

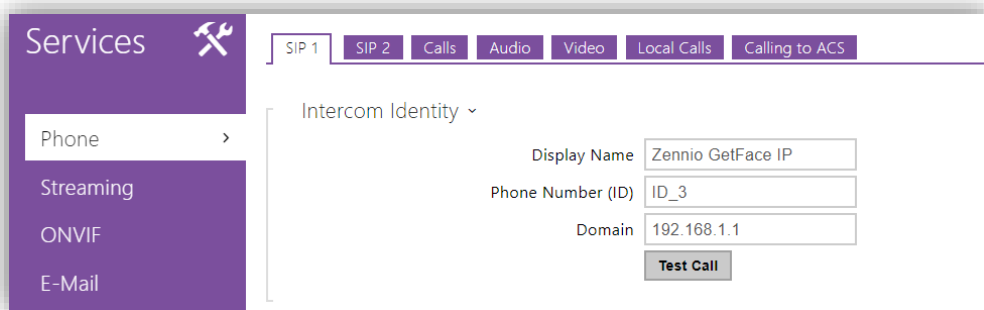


Figure 6 SIP.

CALLS

The **Calls** tab allows setting up the parameters related to the video-calls.

First of all, under **General Settings** it is possible to set a **Call Time Limit**, which sets the maximum duration of the call. After this time, the call is finished automatically. The end of this call will be warned by GetFace IP by beeping 10 seconds in advance. In such case, the call can be extended by simply pressing on any button from the touch display module (ZVP-TOUCHD) or from the keypad module (ZVP-KEYPAD), if configured.

The intercom's response to an incoming call is parameterised under **Incoming calls**. As the video intercom is designed for one-way calls, this field is set to "Always busy" by default. It also allows answering the incoming call by the selected quick dial button. The function can be disabled by selecting None.

Under **Outgoing calls**, the timing of the calls can be defined:

- The **Ring Time Limit** is the unanswered call maximum duration. It is advisable to set a length longer than 20 seconds.
- **Dial Cycles Limit** sets the maximum dial call repetitions to avoid deadlock in case that the User is not accessible and the User Deputy has the same phone number on the Phone Book.
- **Button Function During Call** configures the function of the quick dial button during a call. This only applies to the button the call was started with. It is recommended to leave this button non-functional during calls, otherwise the calls may be finished by mistake.

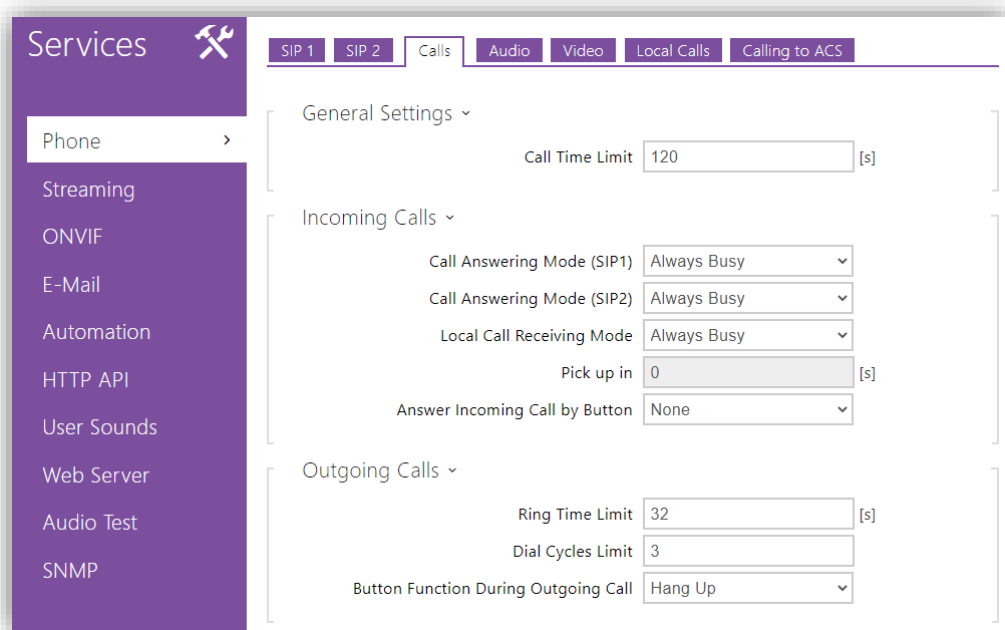


Figure 7 Calls.

In addition, if the keypad module is connected, two more options appear:

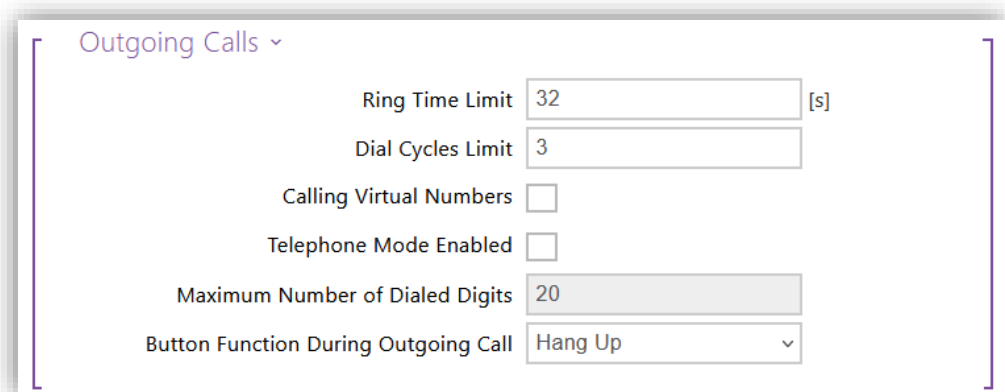


Figure 8 Calls – Options with the Keypad module.

- **Calling virtual numbers:** allows calling users from the phone book by dialling their virtual number.
- **Telephone mode enabled:** allows calls directly to the phone numbers dialled via the numeric keypad.

AUDIO

Audio output settings can be configured in the **Audio** tab. It consists of:

- **Audio Codecs: Services → Phone → Audio.** Giving the highest priority to the G.722 codec is encouraged, as show in in Figure 9.

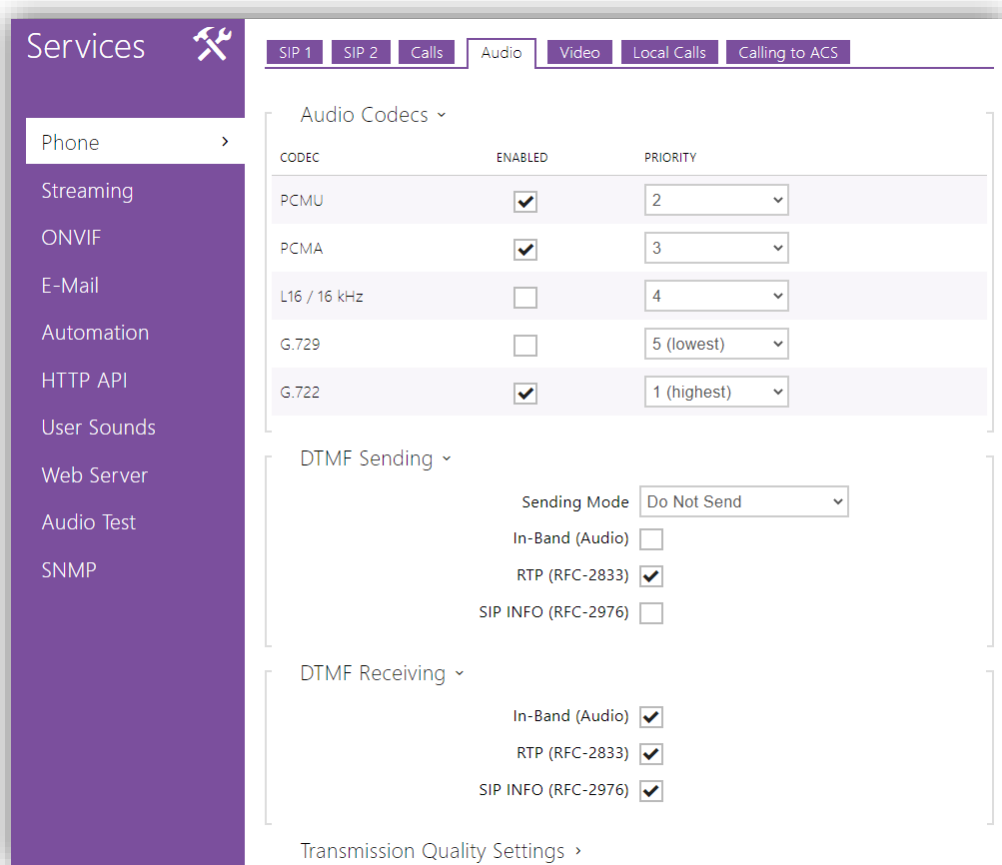


Figure 9 Audio.

- **Transmission Quality Settings:**
 - **Quality of Service DSCP Value:** sets the priority of the RTP packages in the network. The value set here will be sent under the ToS (Type of Service) field of the IP package header.

- **Jitter Compensation:** sets the buffer storage capacity to compensate the jitter effect in the audio package transmission. The greater the capacity, the better the transmission stability. However, the sound delay will be longer either.



Figure 10 Transmission Quality Settings.

VIDEO

The video output settings can be configured under the **Video** tab.

- **Video Codecs:** It is advisable to change the H.264 video resolution for a smooth video transmission. This is possible under **Services** → **Phone** → **Video**, as shown in Figure 11.

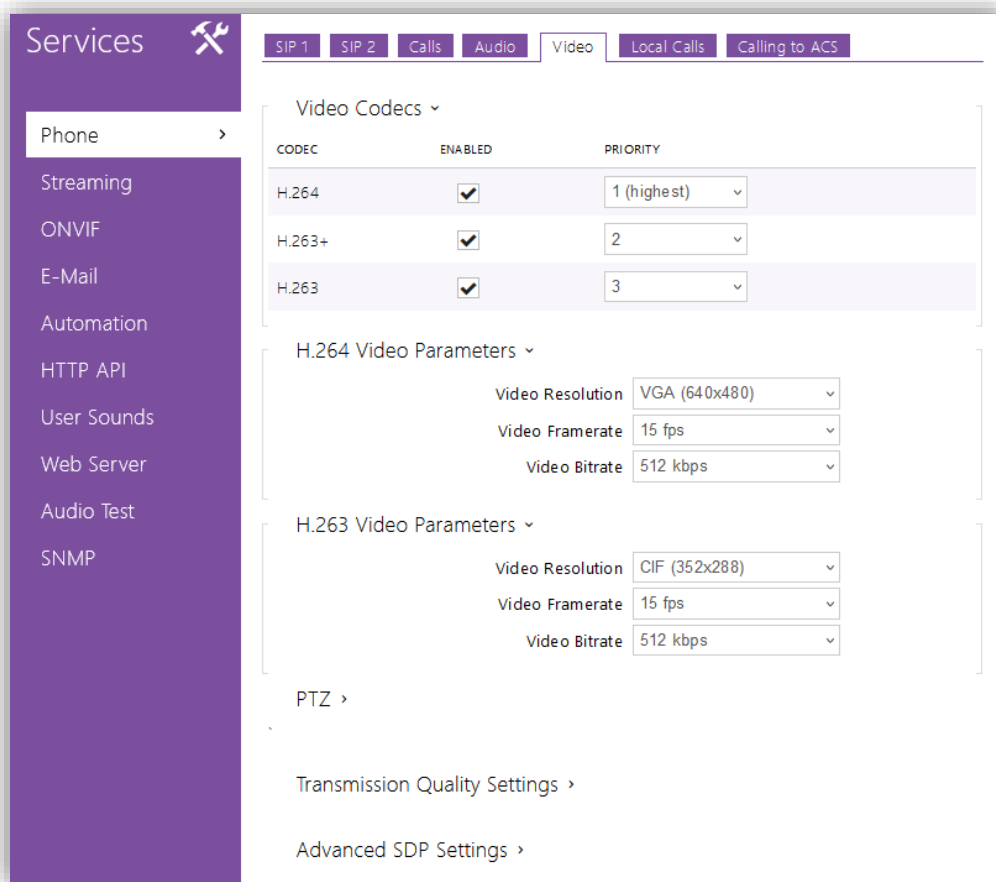


Figure 11 Video.

3.1.2.2 HTTP API

This section allows controlling IP functions via HTTP.

SERVICES

This tab allows setting up the services, the transport protocol and the authentication procedure for each service (for details on the configuration of the advanced services, please refer to section 3.2.3). It is also necessary to parameterise the **System API**¹, the **Switch API** and the **Camera API**.

To that end, the aforementioned parameters are configured as detailed below, under **Services** → **HTTP API** → **Services**.

- **System API:** “Secure (TLS)” with “Digest” authentication.
- **Switch API:** “Secure (TLS)” with “Digest” authentication.
- **Camera API:** “Unsecure (TCP)”. If a camera preview is required, the authentication should be set to “None”.

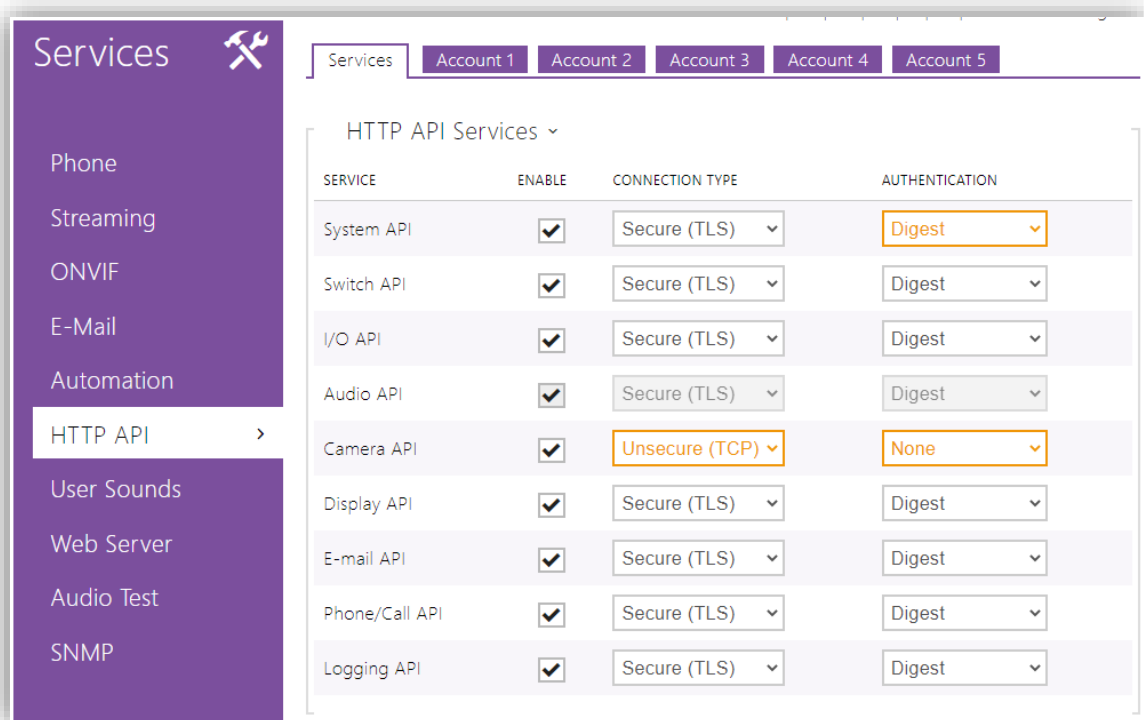


Figure 12 HTTP API Services.

¹ API: Application Programming Interface.

ACCOUNTS

The **Account n** tabs allow setting up user configuration profiles that restrict certain actions depending on the username and password. Up to five accounts are possible, each with a username and a password and with different access privileges, either monitor or control privileges. These accounts allow a higher security level, as authentication with Zennio indoor unit is required.

If Zennio indoor unit is configured with a username and a password through the **Opening Method** parameter, then an analogous configuration should be performed in the **Accounts** tab to allow the opening of the door lock system.

Moreover, the **Switch Access** checkbox should be activated. Otherwise, the door unlocking will not work successfully. If this configuration is not desired, the username and password fields should be left blank in both devices.

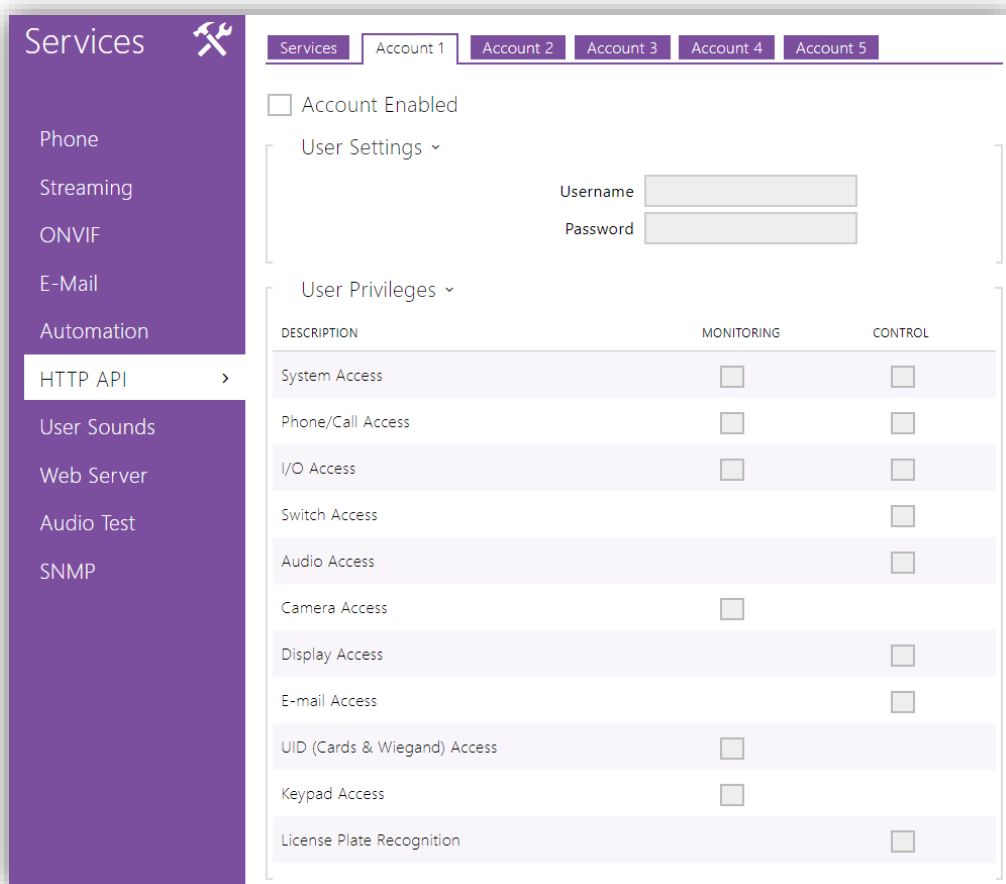


Figure 13 HTTP API Account.

Note: The maximum size for user and password fields is 10 characters. This limit is given by the corresponding ETS fields in Zennio indoor unit, which are limited by 10

bytes (if special characters of more than 1 byte are included is possible the maximum size would be less than 10 characters).

3.1.3 HOUSING CONFIGURATION & INDOOR UNIT (DIRECTORY)

Homes connected to the video intercom system must be configured from **Directory**. The following features can be set up from this window.

3.1.3.1 USERS

It is necessary to configure, at least, as many users as dwellings that may be called from the video intercom.

For each user, the corresponding **User Phone Number** should be established according to the IP of the corresponding Zennio indoor unit. These settings are performed from **Directory → Users**. Up to 10.000 users can be created.

For a single user, it will be also possible to set up as many telephone numbers as indoor units existing within the dwelling. This requires activating **Parallel call to the following number**.

In case there are more than three Zennio indoor units within a home, it will be possible to call to all of them in parallel if more than one user is defined for that home. In such case, it will be necessary to activate not only **Parallel call to following number** but also **Parallel call to following deputy**. In short, a single dwelling can have several users assigned, however all the indoor units defined for a user must belong to the same dwelling.


Example:

The **format** should be:

• **`sip:irrelevant_identifier@Zennio_indoor_unit_IP`**

A valid example would be: **`sip:555@192.168.1.101`**, being 192.168.1.101 the IP address of the Zennio indoor unit.

Note: if a keypad (ZVP-KEYPAD) or a touch-display (ZPV-TOUCHD) is added to the video intercom, the **Virtual Number** field should contain the number to be dialled on the keypad for the call.

Each user must be added individually by pressing the button , after which the page with the user configuration is loaded to fill in the data:

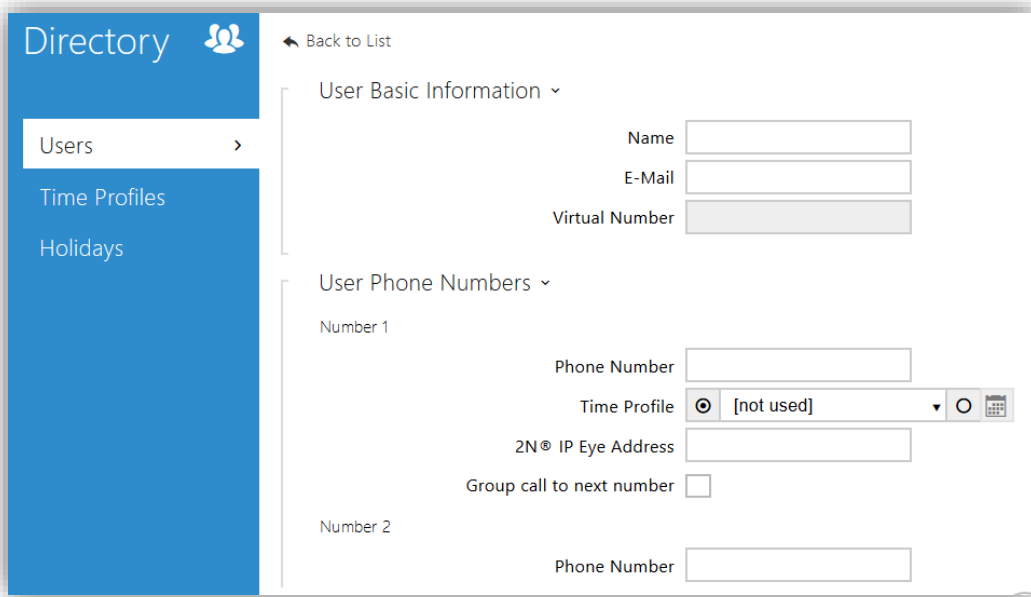


Figure 14 Users.

The **Users** section defines the following parameters:

- **Name**, which will identify the housing or the owner.
- **Photo**: only available if the Touch Display module (ZVP-TOUCH) is connected.
- **E-Mail** contact address (optional; see section 3.2.3.1).
- **Virtual Number**: number to be entered into the keypad in order to call the user. It must contain from 1 to 7 digits. Only for the ZVP-KEYPAD module or ZPV-TOUCHD module.

Note: this field is enabled provided that “Calling Virtual number” has been selected in Services → Phone → Calls (see section 3.1.2.1).
- **Add to Display**: only available if the Touch Display module (ZVP-TOUCH) is connected.
- **Position in directory**: sets the folder in which the user will be found on the Touch Display. Up to four subfolders can be created.

- **Calling group:** name of the group that will appear on the Touch Display. By dialling the group, it calls to all users in the group at the same time.
- **User Phone Numbers:**
 - **Phone Number:** string with the already described format.
 - **Time Profile:** time range in which call reception is allowed. It is possible to select a pre-defined profile (see section 3.2.2.1) or set a specific one by checking the button to the left of the calendar.
 - **Parallel call to following number:** if parallel calling to another number is required (i.e., in case of more than one Zennio indoor units in the same house), this checkbox should be enabled.
 - **User Deputy:** user the calls should be redirected to in the event of not being the current user available. If **Parallel to following deputy** is enabled, all calls will be transmitted in parallel to both the current user and the deputy. This option can be useful when there are more than three indoor units in the same house.
- **User activation:** user activation / deactivation code and current status (only for the ZVP-KEYPAD module).
- **Access Settings:** (simple by default), which is based on combining an RFID card along with a code to be typed for the door opening (for the ZVP-KEYPAD, ZVP-RFSMN or ZVP-TOUCHD modules). Time profiles are allowed for each direction (entry or exit).
- **User Codes:** user private code for the switch opening. Time profiles can be established to restrict its application. Only for the ZVP-KEYPAD module.

Note: *the corresponding switch must be enabled in **Hardware** → **Switches** (see section 3.1.4).*
- **User Cards:** ID of the user access card and time profile that will remain active. Two cards allowed per user. Only for the ZVP- RFSMN module (see section 3.1.9).

3.1.4 SWITCHES CONFIGURATION

It is possible to configure the opening of electric locks linked to Zennio GetFace IP. This allows controlling them from Zennio indoor unit (up to three electric lock can be enabled). For instructions on how to wire the lock system to Zennio GetFace IP please refer to section 2 and to datasheet of the device.

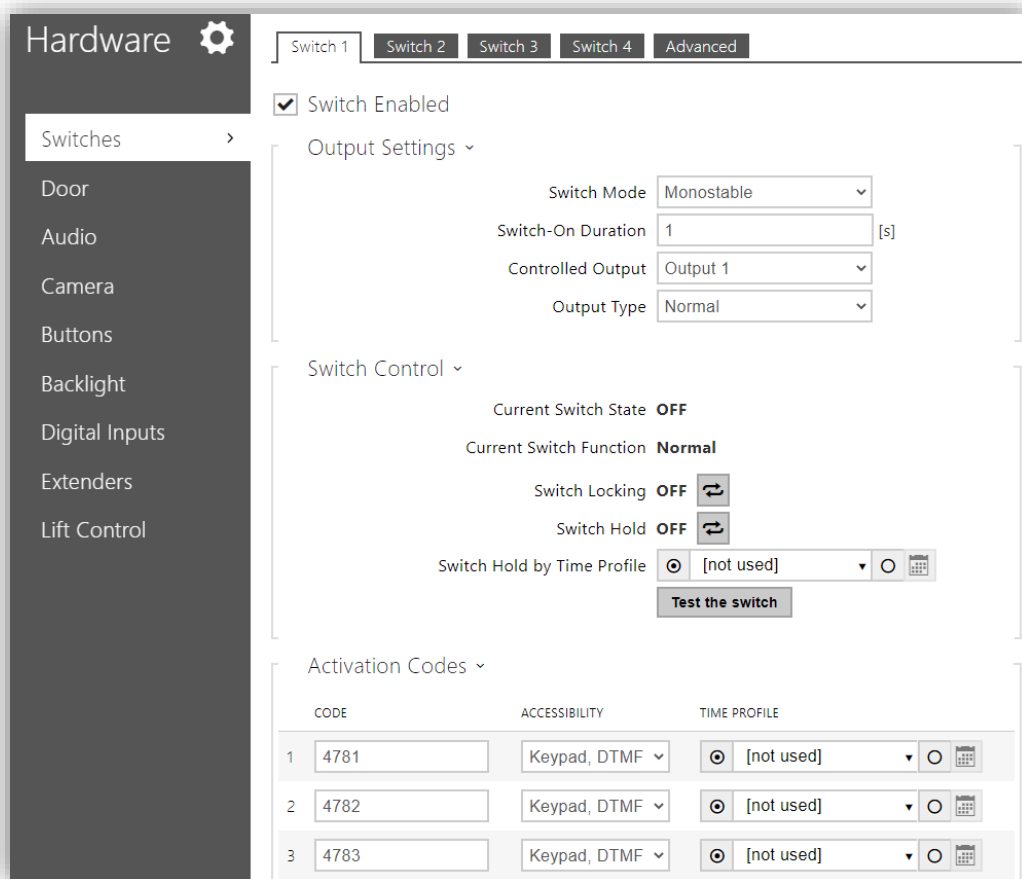


Figure 15 Switches.

Regarding the configuration, it is necessary to enable the switch in the top side box and to set the page options according to the provided lock system.

• Basic Settings of the switches:

- **Switch Mode:** sets the opening mode (**monostable**, in case it gets automatically deactivated some time after the opening order; or **bistable**, if a manual deactivation is required).
- **Switch-On Duration:** delay for monostable switches.

- **Controlled Output:** regarding the output type, it can be configured as a relay or as an electric output. In case of selecting “None”, the switch will be controllable through HTTP commands.
- **Output Type:** the output behaviour can be configured as one of the following types
 - **Normal:** to perform the door opening, the output needs to be activated.
 - **Inverted:** to perform the door opening, the output needs to be deactivated.
 - **Security:** the output works in inverted mode but a security relay module has been installed and therefore a specific pulse sequence is necessary for the door opening (this requires the ZVP-ACSR module).
- **Time Profile** to be applied to the switch. It can be selected one of the pre-sets (see section 3.2.2.1) or a specific one.
- **Activation Codes:** codes that will allow activation of the switches by typing them into the keypad (only for the ZVP-KEYPAD or ZVP-TOUCHD modules). Code activation time profiles can also be applied (see section 3.2.2.1).
- **Distinguish on/off codes**, in case of a bistable switch.
- **Synchronisation:** enables switch synchronisation so that, when one of the switches is activated and after a parameterised delay, another switch gets activated as well.

3.1.5 DOOR CONFIGURATION

The section **Hardware → Door** groups the configuration parameters needed to control the door opening and its access rules.

DOOR

This tab contains the general configuration of the door, which will be applied regardless of the access direction.

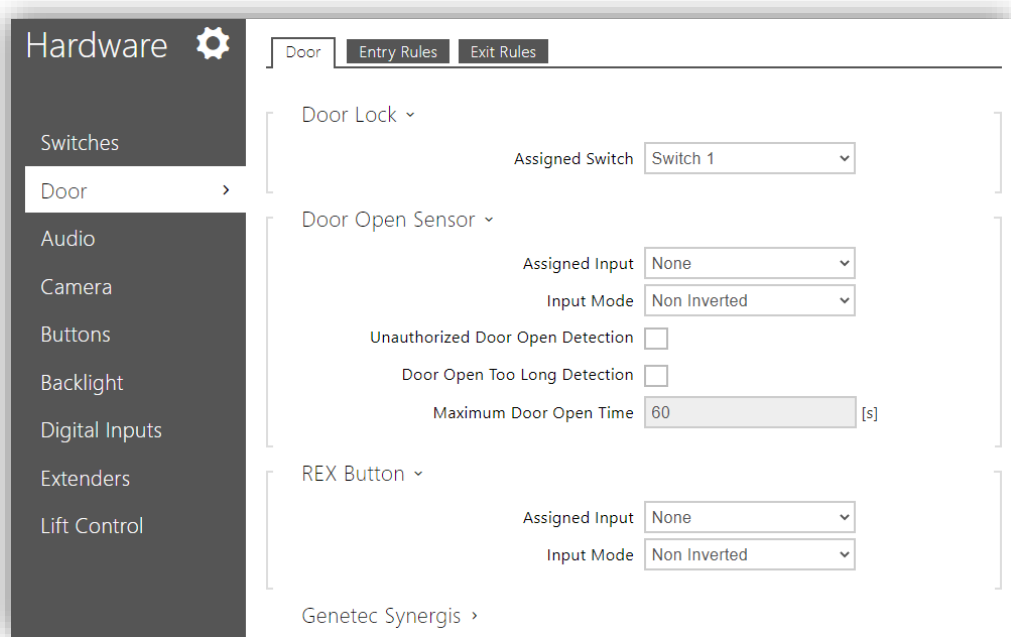


Figure 16 Door.

- **Door Lock:** assignment of the switch to be controlled. Its configuration is explained in the next section.
- **Door Open Sensor:** an input can be assigned to monitor the door's state. It is possible to detect unauthorised openings and excessively long opened times, where the time can be parameterised.
- **REX Input Control** section allows configuring one of the GetFace IP inputs to function as an output button, so that when this input is activated the output associated with the gate will be opened. This feature will be useful if required an indoor switch to activate the door opening.

ENTRY / EXIT RULES

These two tabs have the same parameters but each one referring to one access direction.

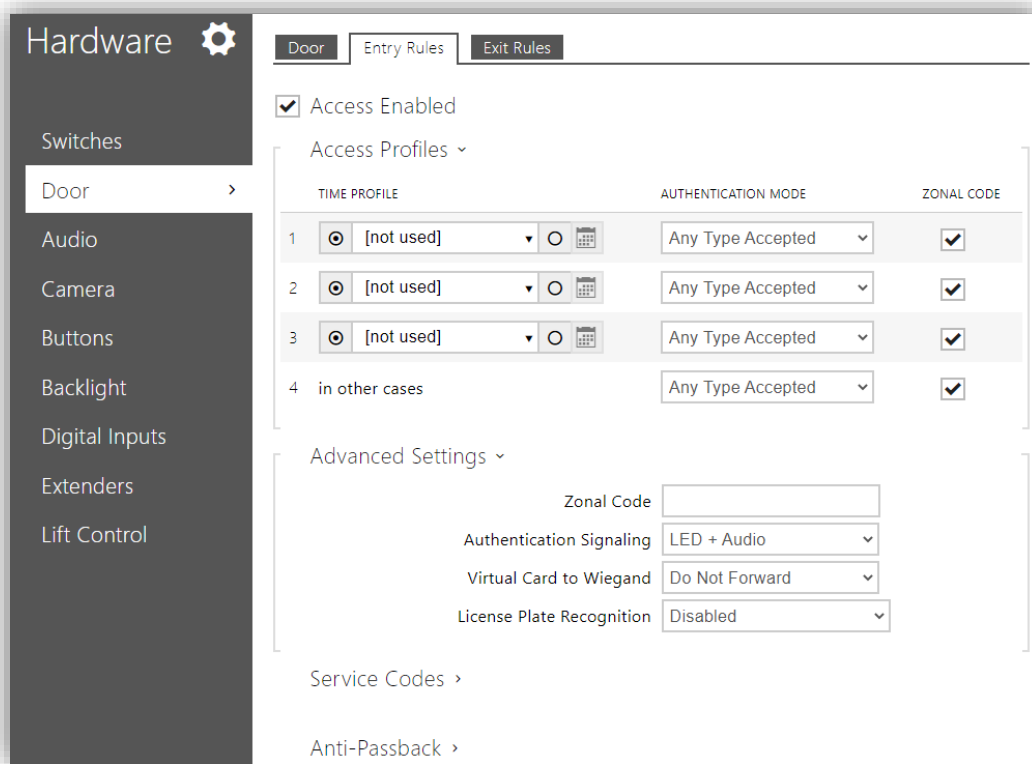


Figure 17 Door. Entry / Exit Rules

- **Access Profile:** links the authentication modes available with the time profiles, configured in **Directory** → **Time Profiles** or specific, and whether the Zonal Code is enabled.
- **Advanced Settings:** configuration of the Zonal Code, the authentication signalling and whether the card ID will be sent to a Wiegand output group.

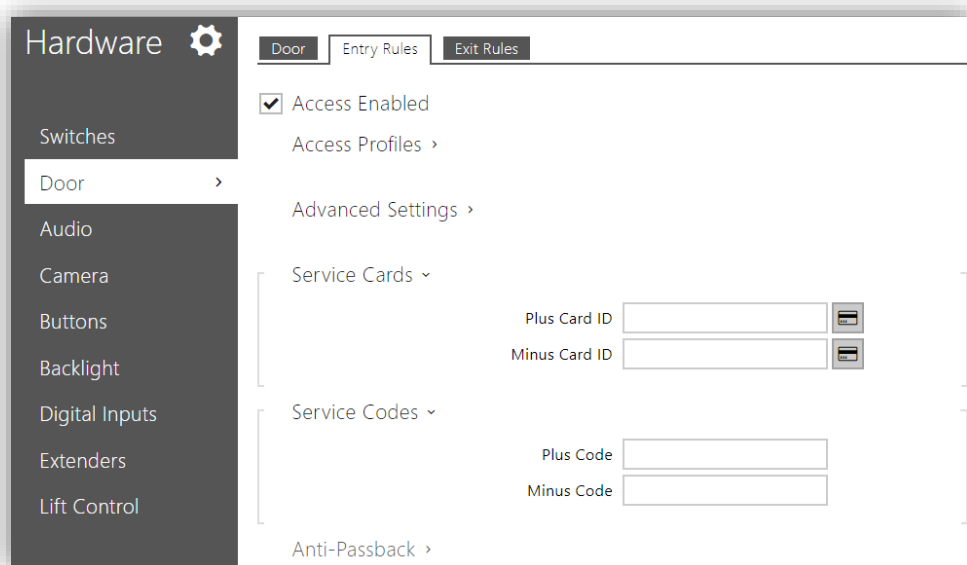



Figure 18 Door. Entry / Exit Rules.



- **Service Cards:** determine the ID of the cards used to add or delete visitor cards (which are automatically added as new users). The card reader module is required (ZVP-RFSMN).
 - Once the ID of the Plus Card and Minus Card are added, only is needed:
 - Swipe the master card over the card reader module, this will be notified by two tones.
 - Swipe the user card to be activated/deactivated, this will be notified by three tones.
 - The user cards added will be saved as new users, named “!Visitors #n”, where n is the card ID.




It is possible to create as many visitor cards as available users (up to 10,000).


- **Service Codes:** determine the codes used to add or delete user codes. It is required the keyboard module (ZVP-KEYPAD) or the Touch Display module (ZVP-TOUCHD).
 - These service codes will be used to add or delete user codes. The user codes added will be saved as new users, named “!Visitors #n”, where n will be the code assigned.
 - The codes must have 2 characters minimum, but is recommended to use at least a 4-character code.
 - The procedure to add or delete a code is:
 - Enter Plus Code and press the key button  (ZVP-KEYPAD) or *Open door* (ZVP-TOUCHD).
 - If a new user code is being added, enter the number of the switch to be controlled and press the key button or *Open door*.
 - Enter the new code to add or an existent code to delete, and press the key button or *Open door*.



After each of these steps, a visual and acoustic notification will be given if the step has been successfully completed.

It is possible to add as many codes as available users (up to 10,000).

Example to register: If the Code to add is 1111, to register code 1234 associated with the opening of lock 1, proceed as follows (1111  1  1234):

- Enter the Plus Code (1111).
- Press the key .
- Insert the switch to be controlled: 1, 2 or 3 (1).
- Press the key .
- Enter the new code (1234).
- Press the key .

Example to delete: If the delete code is 0000, to unsubscribe code 1234, proceed as follows (0000  1234):

- Enter the Minus Code (0000).
- Press the key .
- Enter the code to be removed (1234).
- Press the key .

3.1.6 BUTTONS MODULE CALL CONFIGURATION

The section **Hardware** → **Buttons** defines the buttons and the dwelling linked to each one of them, in case a buttons module has been attached to the system (reference ZVP-NAME5).

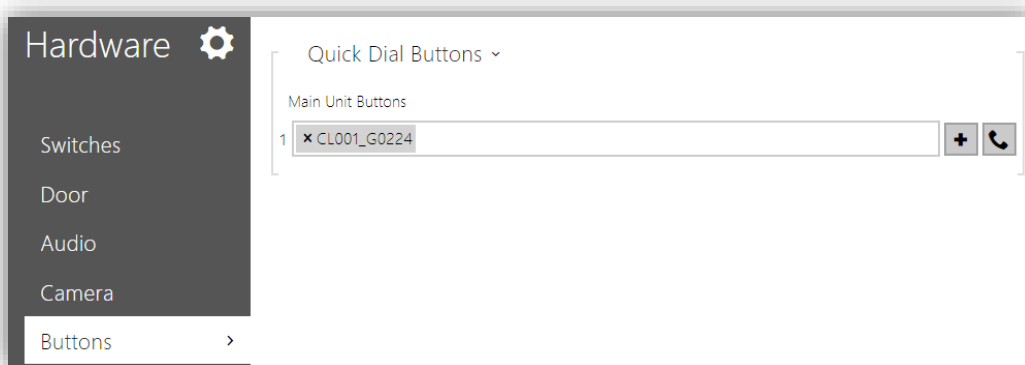



Figure 19 Buttons.

In **Quick Dial Buttons** will appear all available direct dial buttons, depending on the number of five-button modules connected (up to 29 modules), together with the button

incorporated in the video intercom. Each button can be configured to call one or more of the users configured in the Directory (see section 3.1.3.1 for more information). Clicking on the icon  simulates a click on the button and a call to check that it has been correctly configured.

3.1.7 TAMPER SWITCH CONFIGURATION

The **tamper switch** does not require extra configuration. The function of this accessory is warning when the video intercom is being manipulated. For that purpose, it must be connected to a KNX input or any monitoring system. That connection will remain closed after the Zennio GetFace IP frame has been installed. On the other hand, it will be open once the frame gets removed.

3.1.8 ACCESS CONFIGURATION WITH TOUCH-DISPLAY

The Touch Display module (ZVP-TOUCH) allows making phone calls an opening the lock. To configure this module is necessary to enter the **Hardware → Display** section of the web interface.

DISPLAY

The basic settings are configured in this section.



- **Phone Book Displayed:** allows providing an orderly user phone book through the Touch Display.
- **Entry Keypad:** enable the keypad type.

Note: to activate the keypad which allows to make calls to users with **Virtual Number**, enable the parameter **Calling Virtual Numbers** in **Services → Phone → Calls** (see section 3.1.2.1).

- **Language Settings:** sets the main language for the on-screen controls.
- **Prefer Icons to Text:** when enabled, the display module will only show icons.
- **Power saving mode:** activates the power saving mode in which the display brightness is reduced.

PHONE BOOK

The appearance of the phone book is configured in this section. Users can be distributed into groups ordered into up to four levels.

To add a new folder, click on the button . Once the folders have been created, the users configured in the directory can be included in them by clicking on the button  of the corresponding folder.

Note that folders that do not contain users (at their own level or sublevels) will not be saved.

It is also possible to assign users to folders from the **Directory** → **Users** tab, within the configuration of the user itself. In addition, **calling groups** can be created in that tab to call all users belonging to the same group at the same time. In the following figure, an example of a calling group is Dwelling 1, to which User 1 and User 2 belong (see section 3.1.3.1 for further details).

Note: *the same user cannot be in two different folders with the same name. For this it is necessary to assign different names making use of the groups that can be configured in the Directory tab (see section 3.1.3.1 for details).*

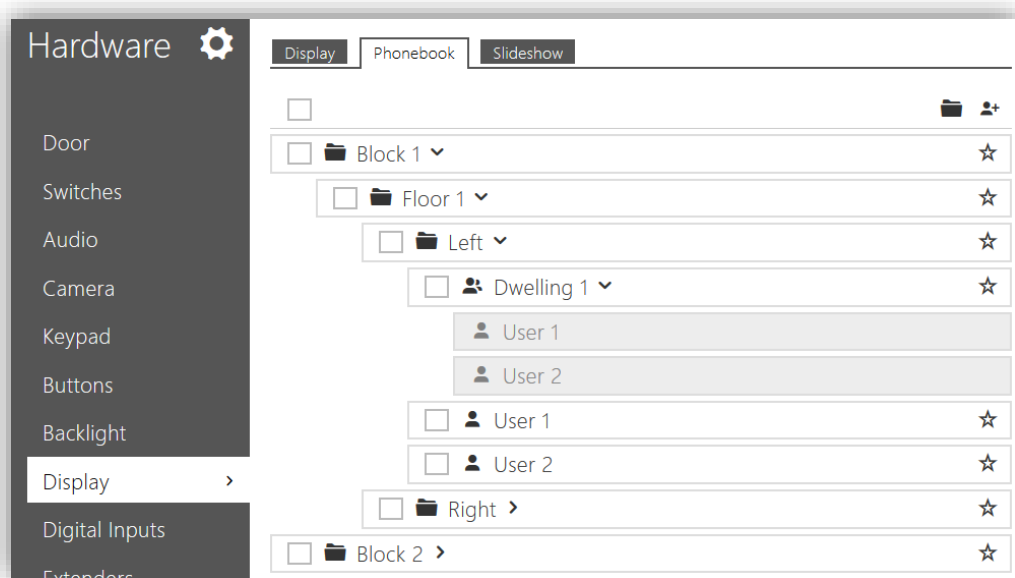




Figure 20 Display - Phonebook.

On the other hand, once added the users can be rearranged by clicking on the button . The folders cannot be moved, when selecting a folder and pressing  will move the users who are within that folder.

To delete a user or folder press the button .

SLIDESHOW

The Touch Display module allows showing a screensaver or a custom slideshow after a time count. For the latter, it is possible to upload up to 8 images from the PC. Once uploaded, they can be rearranged by dragging each of them to the desired position. The images will be scaled to the Touch Display resolution automatically.

It is possible to set:

- **Slideshow Screen Activation Timeout:** time in seconds the Touch Display should be inactive before the screensaver slideshow starts.
- **Slideshow Transition Time:** time between slides.

3.1.9 ACCESS CONFIGURATION WITH RFID CARD

The ZVP-RFSMN module allows reading RFID access cards.

Three types of cards can be configured:

- **Cards assigned to existing users** (up to two cards per user).
- **Card for visitors**, which are added by means of the service cards (see **Service Cards** in section 3.1.4).
- **Service cards:** one for adding visitor card and one for deleting (see **Service Cards** in section 3.1.4).

The assignment of cards to already created users is done from the user configuration screen (in **Directory** → **Users**):

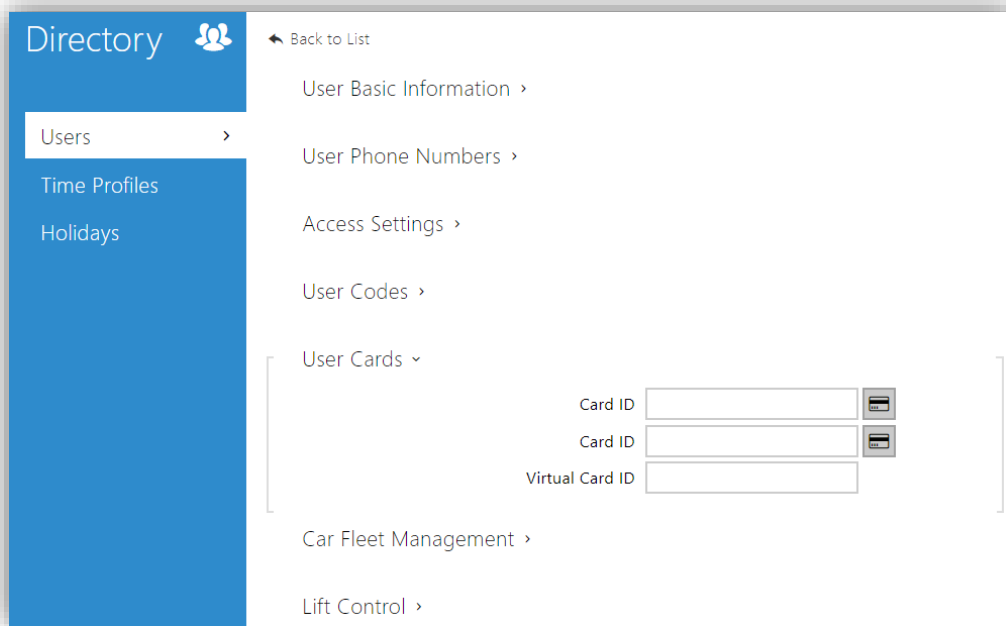



Figure 21 Users - User cards.

There are two options for entering the card ID:

- **By automating the process through an RFID card reader for PC (ZVP-RFUSB).** This requires installing the card reader driver, available at www.zennio.com, and entering the web interface of a Zennio GetFace IP with the ZVP-RFSMN module installed. By pressing on the button , the field will be directly filled in with the code of the card being read by the reader (a green LED will be turned on to indicate that the card can be placed over the reader).
- If no RFID card reader is available for the PC, the assignment can still be performed manually. For adding up a new card, it is necessary to provide its ID. This card ID can be obtained by swiping the card over the reader module and consulting the card reading log in **Status → Access Log**:

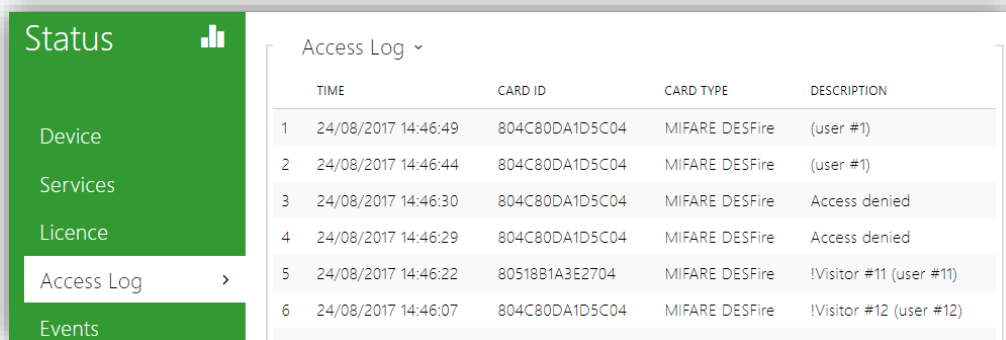


Figure 22 Access Log.

The ID just obtained should be entered into the corresponding textbox.

Virtual Card ID is the value to resend to Wiegand Group configured.

Card activation time profiles can be configured in **Directory** → **Time Profiles** (see section 3.2.2.1). If no time profile is configured, make sure that in section **Users** → **Access Setting**, the access profile **[not used]** is selected.

On the tab **Hardware** → **Extenders** will be more options for the module configuration.

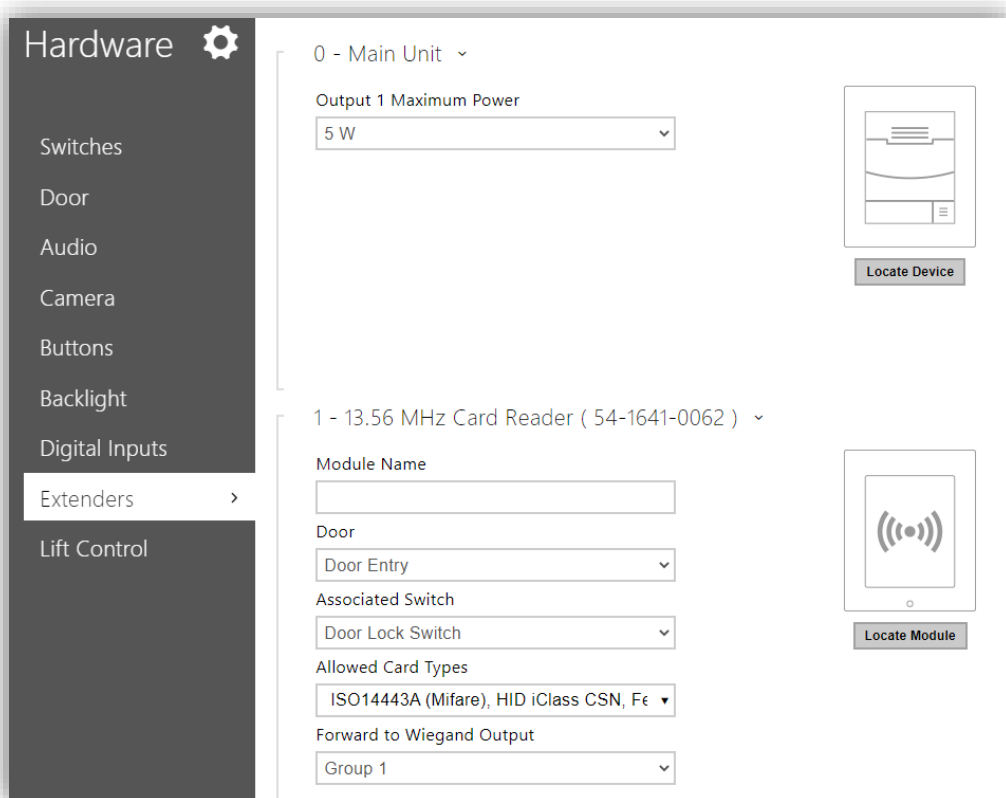


Figure 23 NFC Card Reader Module Hardware Configuration

- **Module name:** sets the module name for logging events from the Bluetooth module.
- **Door:** sets the reader direction (None, Door Entry, Door Exit).
- **Associated switch:** sets the Door Lock Switch or the number of the switch to be activated after user authentication via this module.

Each RFSMN module can only be associated with one switch, but with 'Automation' it is possible to create a function that allows the activation of other

switch based on some criteria. For this purpose, the option "None" of this field could be useful, and thus a concrete switch would not be always activated.

- **Allowed Card Types:** sets the card types supported by the module.
- **Forward to Wiegand output** – set a group of Wiegand outputs that will receive the virtual card IDs configured.

3.1.10 ACCESS CONFIGURATION WITH BLUETOOTH MODULE

The module **ZVP-BLUET** provides a safe and convenient way to open doors using an application in mobile devices with Bluetooth. Please refer to the [ZVP-BLUET](#) module section of Zennio website to obtain the corresponding mobile application.

The use of this module is very simple, only needs to be connected to a GetFace IP and **paired** with a mobile device. For security reasons, the Bluetooth communication is **encrypted** using several keys for authentication and pairing.

3.1.10.1 PAIRING PROCESS

Pairing consists on transmission of user access data in GetFace IP to a user personal mobile device.

The pairing is done by introducing the PIN number on the mobile application. The PIN number is generated by the GetFace IP web configuration interface in the tab **Directory → Users → User Mobile Key**.

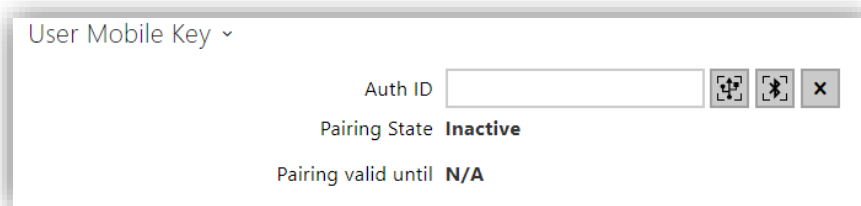



Figure 24 User Mobile Key.

Parameter list:

- **Auth ID:** sets a unique mobile device/user identifier. It is automatically generated for pairing. It can be moved to another user or copy it to another device in the same location.

- **Pairing state:** displays the current pairing state (Inactive, Waiting for pairing, PIN validity expired or Paired).
- **Pairing valid until:** displays the date and time of the generated authorisation PIN validity end.

Pairing process:

1. Click on the Bluetooth button  to start pairing for the selected user account.
2. A dialogue window with the PIN code is displayed.

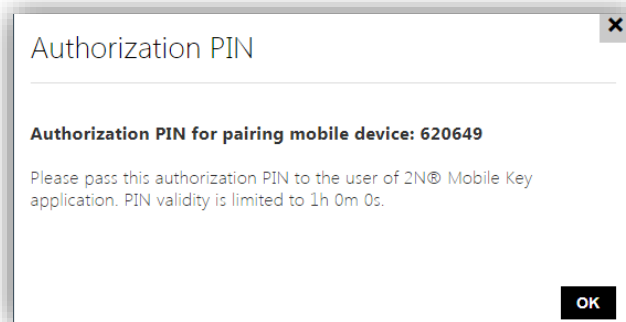



Figure 25 PIN dialogue window

3. Find the appropriate reader in the section “Devices” of the application and press “Pair new devices”. The section change is made from the button  on the upper left corner.

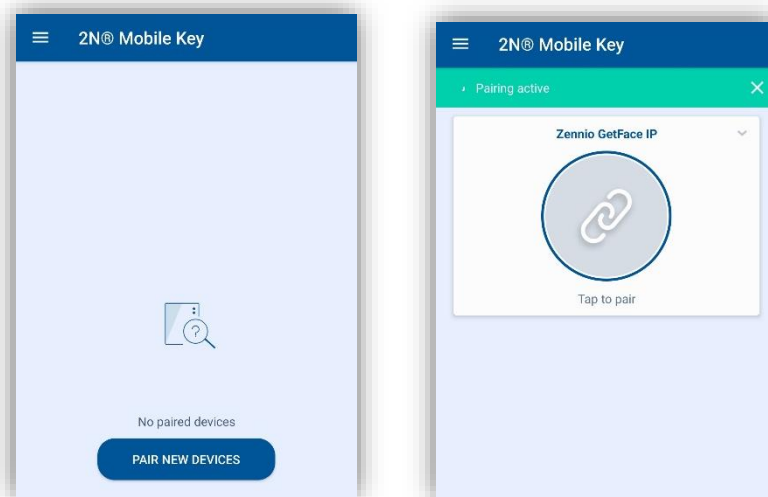


Figure 26 Device searching

4. Enter the code obtained in step 2 into the input field.

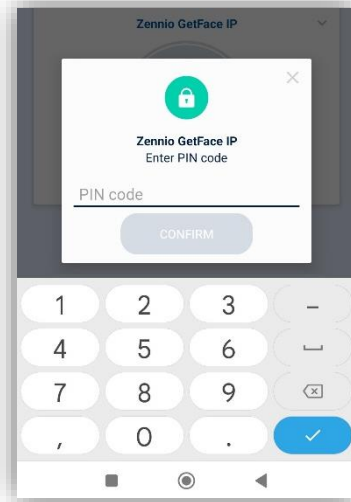


Figure 27 Introduction of the PIN number

5. Pairing is completed.

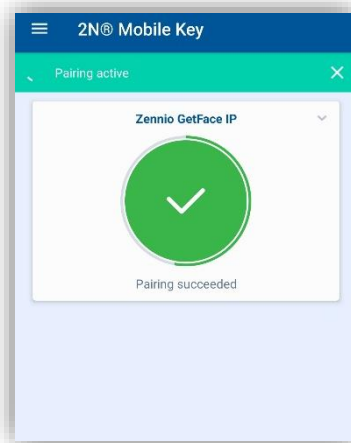


Figure 28 Device paired

The following data is transmitted to a mobile device for pairing:

- Location identifier (see section 3.1.10.2 for details).
- Location encryption key (see section 3.1.10.2 for details).
- User Auth ID.

Once they have been paired, when the device is within the Bluetooth module range, it will appear on the application and just tapping on the button showed on Figure 29, the door will open.

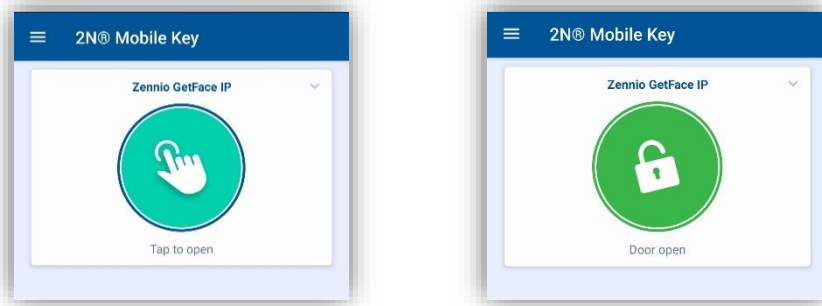


Figure 29 Authentication and opening process

3.1.10.2 OTHER CONFIGURATIONS

On the tab **Services** → **Mobile Key** there are more options related to the interaction of the mobile application and the Bluetooth module.

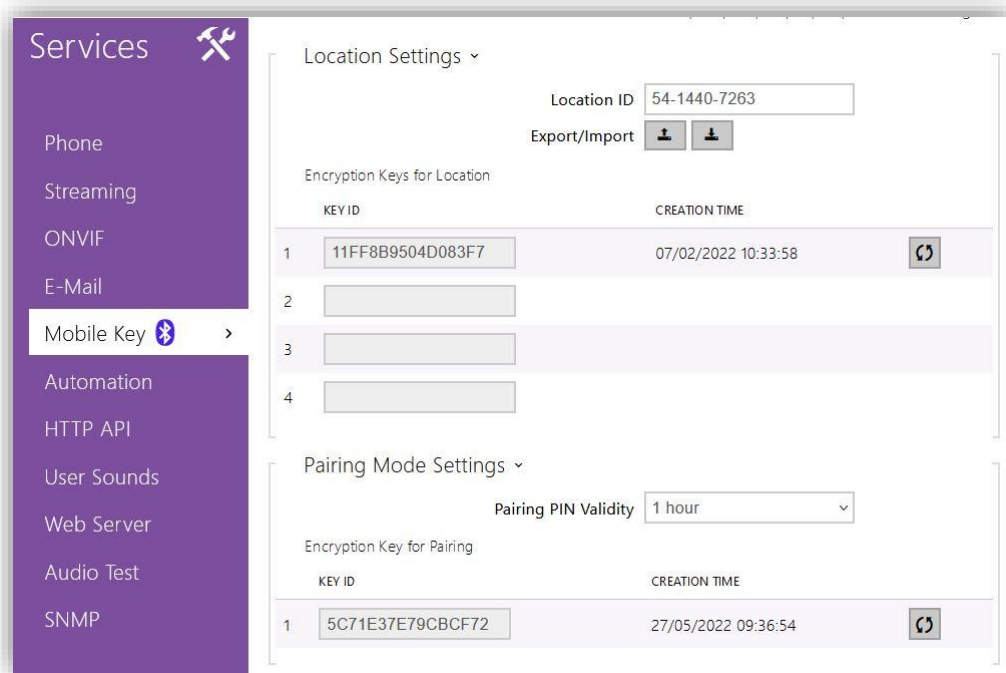


Figure 30 Location and Pairing Mode settings

As already mentioned, Bluetooth communication between GetFace IP and the Mobile Key application is encrypted. To this end, a primary key and up to three secondary keys are available, valid for a certain location.

The primary key is generated automatically upon the intercom first launch and transmitted to the mobile device during pairing.



It is possible to export/import the encryption keys and location identifier to other intercoms. Intercoms with identical location names and encryption keys form so-called

locations. A user Auth ID can be copied from one intercom to another within a location and it would not be necessary to pair it.

Location Settings:

- **Location ID:** set a unique identifier for the location in which the encryption key set is valid.
- **Export:** push the button to export the location ID and current encryption keys into a file. Subsequently, the exported file can be imported to another device. Devices with identical location IDs and encryption keys form a so-called location.
- **Import:** push the button to import the location ID and encryption keys from a file exported from another intercom. Devices with identical location IDs and encryption keys form a so-called location.

The options for encryption keys are:

- **Restore primary key** : the original primary key becomes the first secondary key, the first secondary key becomes the second secondary key and so on (if there were 3 secondary keys the oldest is deleted).
- **Delete primary/secondary key** : delete the corresponding key to prevent the users that still use this key from authentication.

If the key stored on a mobile device is one of the secondary keys, access is allowed and after valid access the key is updated to the primary key in the device.

If the key stored on a mobile device does not match any of the keys (primary or secondary) access is not allowed.

Important: *in the case of loss or theft of a mobile device with access data, proceed as follows:*

- *Delete the Auth ID (see section 3.1.10.1) to prevent access.*
- *Re-generate the primary key (optionally) to avoid misuse of the encryption key stored in the mobile device.*

Pairing Mode Settings:

- **Pairing PIN validity:** set the authorisation PIN validity for user mobile device pairing with the intercom.
- **Encryption key for pairing:** shows the actual key and allows to re-generate it.

3.1.10.3 HARDWARE OPTIONS

On the tab **Hardware** → **Extenders** will be more options for the module configuration.

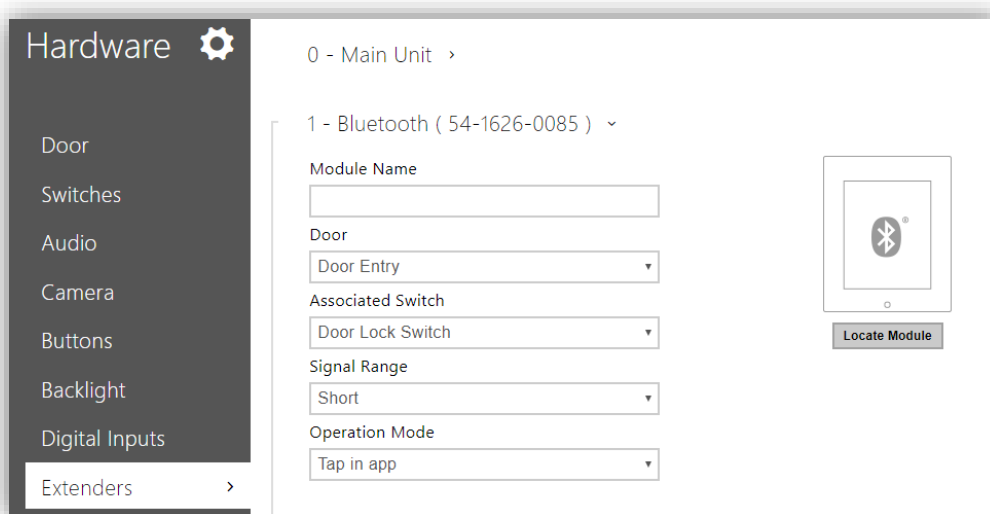


Figure 31 Bluetooth Module Hardware Configuration

- **Module name:** sets the module name for logging events from the Bluetooth module.
- **Door:** sets the reader direction (Door Entry, Door Exit).
- **Associated switch:** sets the Door Lock Switch or the number of the switch to be activated after user authentication via this module.
- **Signal range:** sets the maximum signal range, i.e. the distance within which the Bluetooth module can communicate with the mobile phone.
- **Operation mode:** authentication method for a mobile phone:
 - Tap in app: authentication has to be confirmed by tapping on an icon in the application running in a mobile phone.

3.1.11 MAGNETIC INDUCTION LOOP CONFIGURATION

ZVP-LOOP is a module designed for people with hearing impairment. It allows transmitting an audio signal directly to a hearing aid device through a magnetic loop. It also shows oversize visual signals to improve the communication.

This module can be configured in **Hardware** → **Extenders**, where the signal power level should be adjusted to the required value.

3.2 ADVANCED SETTINGS

These fields are not mandatory for a standard configuration, but they are detailed in case the end requires any of the extra features.

3.2.1 STATUS

The **Status** window shows status information concerning Zennio GetFace IP. It consists of the following sections.

3.2.1.1 DEVICE

Shows the main aspects about the device tab, including hardware, firmware and bootloader versions, as well as **Product Name**, **Serial Number**, **Up Time** and **Power Source**. There is also a button to **Locate Device**. By clicking on it, the device reproduces a short beep and blinks.

The **Device Features** drop-down section details the module features and whether the base unit incorporates a camera.

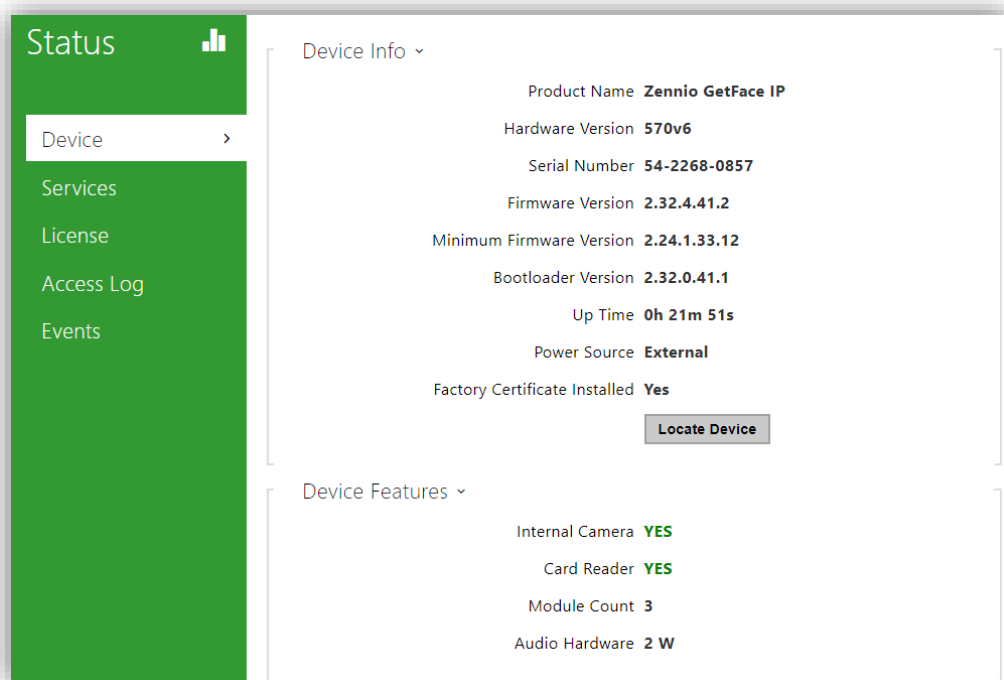


Figure 32 Device.

3.2.1.2 SERVICES

It shows basic information about the device network and the service status.

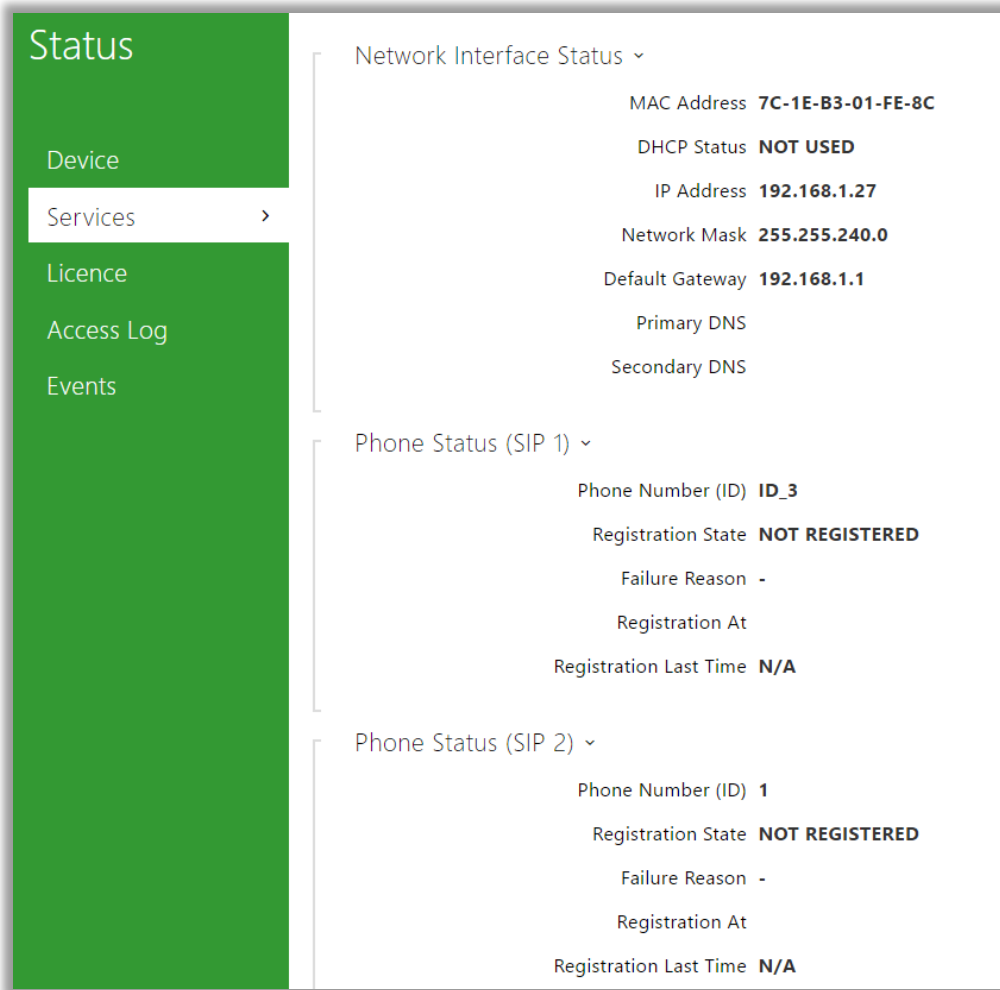


Figure 33 Services.

3.2.1.3 EVENTS

It shows a date-ordered register of the last events that have taken place.

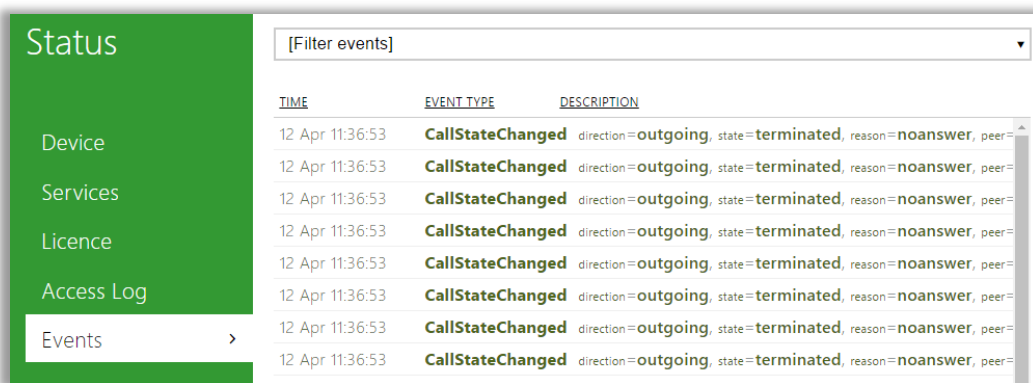


Figure 34 Events.

3.2.2 DIRECTORY

Homes connected to the video intercom system are configured in **Directory**. The following advanced features can be set up from this window:

3.2.2.1 TIME PROFILES

Time profiles allow restricting the use of the RFID cards and the numeric codes. In particular, it is possible to define time bands for:

- Locking all incoming calls for a specific user.
- Locking the door opening.
- Locking access via RFID cards.

Up to 20 different profiles with different active hours for each day of the week can be set. The following parameters must be set:

- **Profile Name** (optional).
- **Profile Time Sheet** for each day of the week (holidays included).

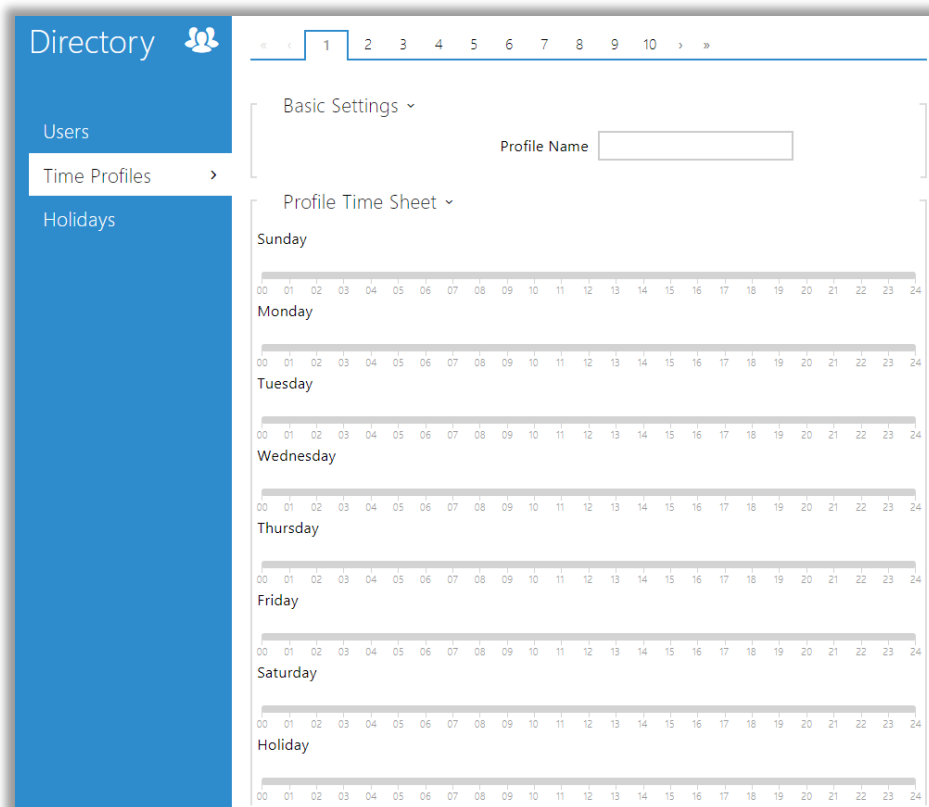


Figure 35 Time Profiles.

3.2.2.2 HOLIDAYS

Fixed (yearly) and variable holiday dates are configured in the **Holidays** tab so date-depending time profiles can be defined.

By clicking on a specific day, the box will be highlighted in green colour, which shows it is a **fixed holiday**. By clicking on the box again, it will be highlighted in blue colour, thys showing it is a **variable holiday**. A third click on the box will discard the current configuration as a holiday.

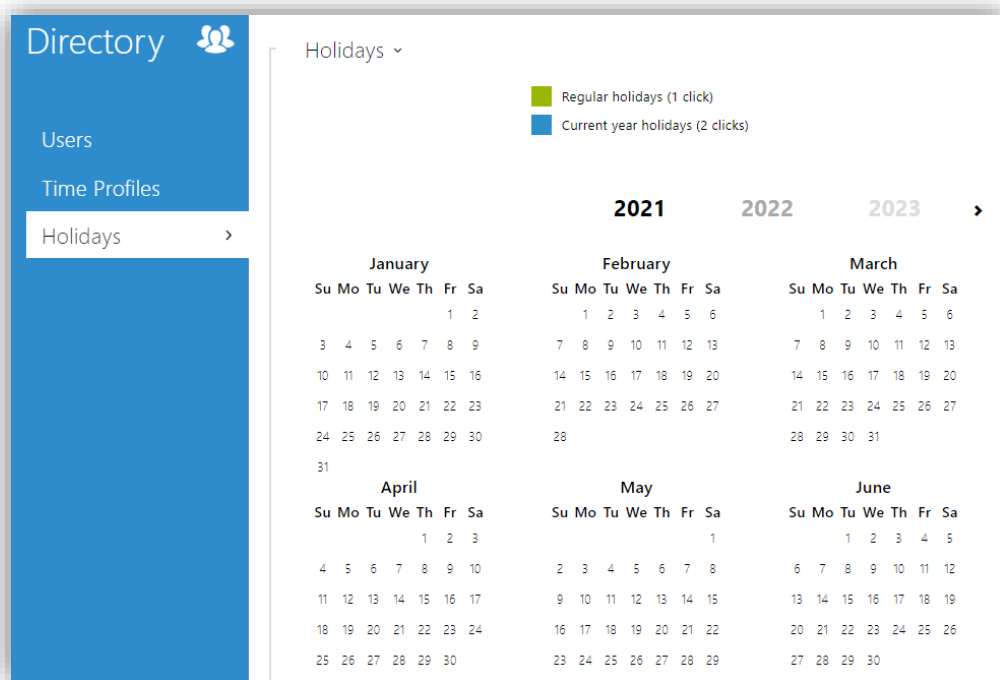


Figure 36 Holidays.

3.2.3 SERVICES

The **Services** section provides the following advanced settings:

3.2.3.1 E-MAIL

Zennio GetFace IP users can be notified of all missed or successful calls via e-mail, provided that an Internet connection is available (e-mails about accesses can also be sent when using the module ZVP-RFSMN). Also, if the video intercom is camera-equipped, one or more snapshots taken during the call or the ringing can be attached.

The video intercom sends e-mails to each user for whom a valid e-mail address has been included in the user list. If the **E-Mail** field is blank in the user list, e-mails are sent to the default address.

SMTP

This section allows configuration of the SMTP server.

Figure 37 SMTP.

- **SMTP Server Settings:** defines the address and the port of the SMTP server the e-mails will be sent to.
- **SMTP Server Login:** allows entering a valid log-in user name if the SMTP server requires authorisation. Otherwise, the field should remain blank. A **user certificate** and a **private key** can be defined to encrypt the communication between the video intercom and the SMTP server.
- **Common E-mail Settings:** configures the sender address for all outgoing e-mails.
- **Advanced Settings:** defines the e-mail delivery timeout in case the SMTP server is not available.
- **E-Mail Sending Diagnostics:** allows testing the e-mail sending functionality and the current configuration by sending a test e-mail to a defined address. Please enter an e-mail address and click on the **Apply and Test** button. The current sending status is then shown to allow the detection of issues.

E-MAIL ON CALL

This tab shows the configuration of the e-mail to be sent in the event of a call:

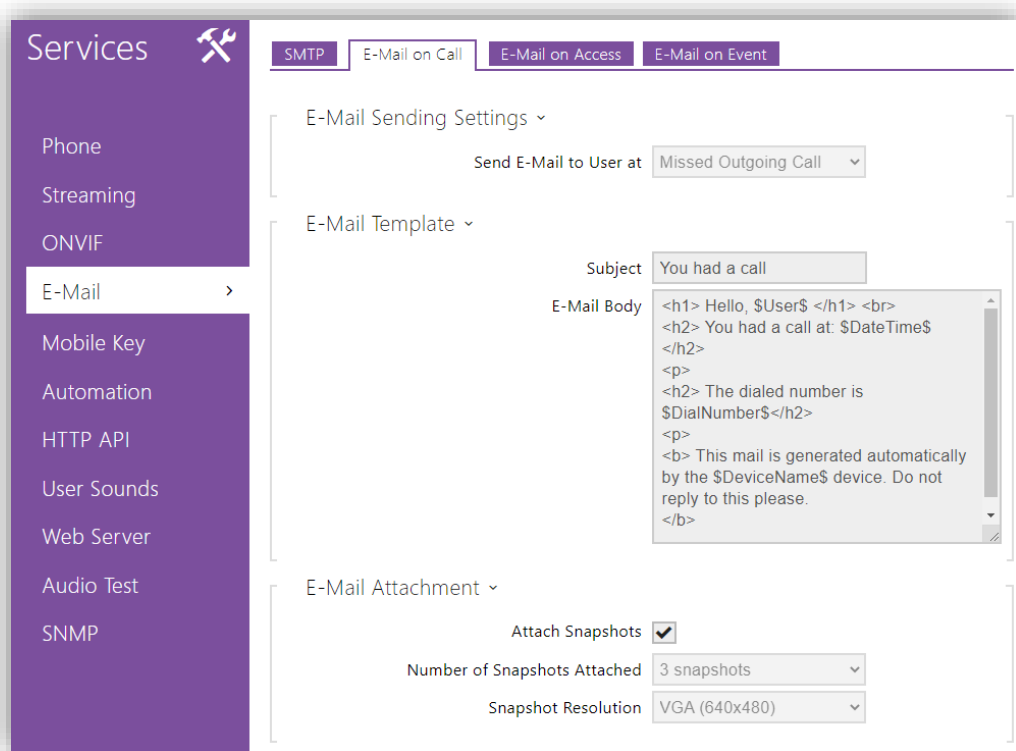


Figure 38 E-Mail on Call.

- **E-Mail Sending Settings:** sets the sending type.
- **E-Mail Template:** determines the message recipient, subject and body.

The video intercom sends these e-mails to the address defined in the user phone list. In case this field is blank, the e-mail will eventually not be sent.

The e-mail body can contain **HTML tags** as well as special symbols to represent the username, date, time, video intercom ID or called number, which will be replaced by the actual values before sending.

 - **\$User\$:** user name.
 - **\$DateTime\$:** current date and time.
 - **\$DialNumber\$:** dialled number.
- **E-Mail Attachment:** enables attaching pictures taken by the video intercom during the dial or in the course of the call. The number of shots and their resolution can be parameterised.

E-MAIL ON ACCESS

This tab shows the configuration of the e-mail to be sent in the event of an access. The parameters are similar to the ones in the previous tab.

E-MAIL ON EVENT

This tab shows the configuration of the e-mail to be sent due to system event.

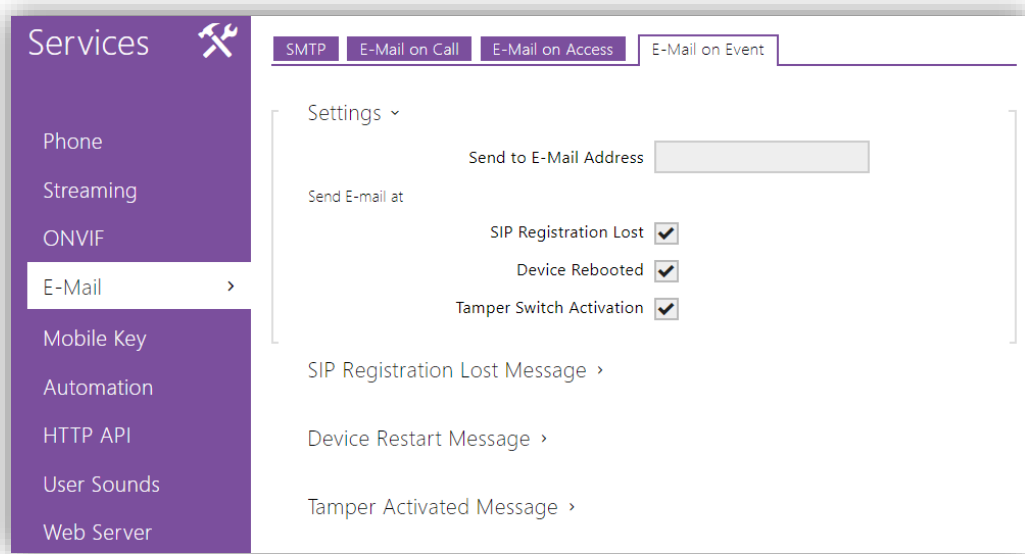


Figure 39 E-Mail on Event

- **Settings:** parameters to set the destination address and what events will cause the mail to be sent. These events can be:
 - SIP Registration Lost.
 - Device Rebooted.
 - Tamper Switch Activation.
- **SIP Registration Lost Message:** sets the e-mail subject and the e-mail body to be sent in the event of SIP registration lost. HTML format symbols can be used to edit e-mail body.
- **Device Rebooted Message:** similar to the previous parameters.
- **Tamper Activated Message:** similar to the previous parameters.

3.2.3.2 AUTOMATION

Automation allows associating system events (key presses, RFID card readings, changes in a digital input, etc.) with specific actions (digital output activations, user audio playback, calls, etc.). Moreover, the action execution can be restricted by selected conditions (time profiles, input status, etc.).

Up to **five functions** can be set, which can be configured in an interface available by clicking on the 'Edit' button of the corresponding function (represented by a pencil icon). Each function combines events, actions and conditions. Up to 30 conditions can be configured.

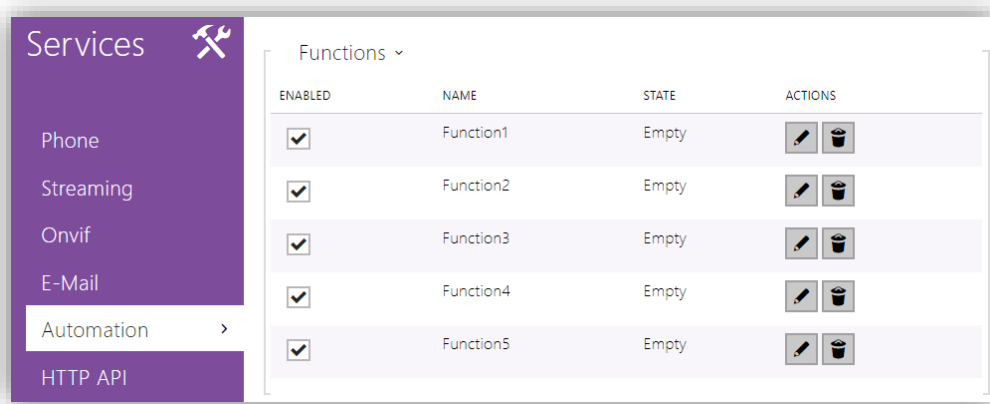


Figure 40 Automation.

Note: After the device initialization, the status of the inputs will be automatically checked in the Automation.

3.2.3.3 WEB SERVER

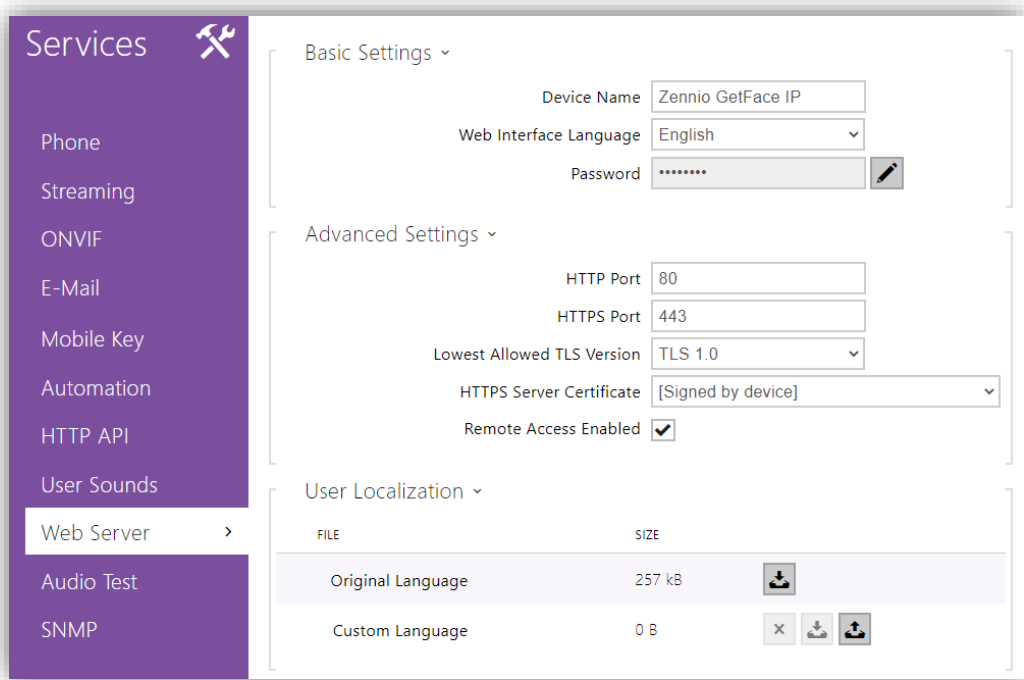


Figure 41 Web Server.

The login username and password of the Zennio GetFace IP web interface (by default, **admin** and **zennio** respectively) can be modified from this section. The language of the interface can be customised too.

3.2.4 HARDWARE

The following items can be configured in the **Hardware** section:

3.2.4.1 AUDIO

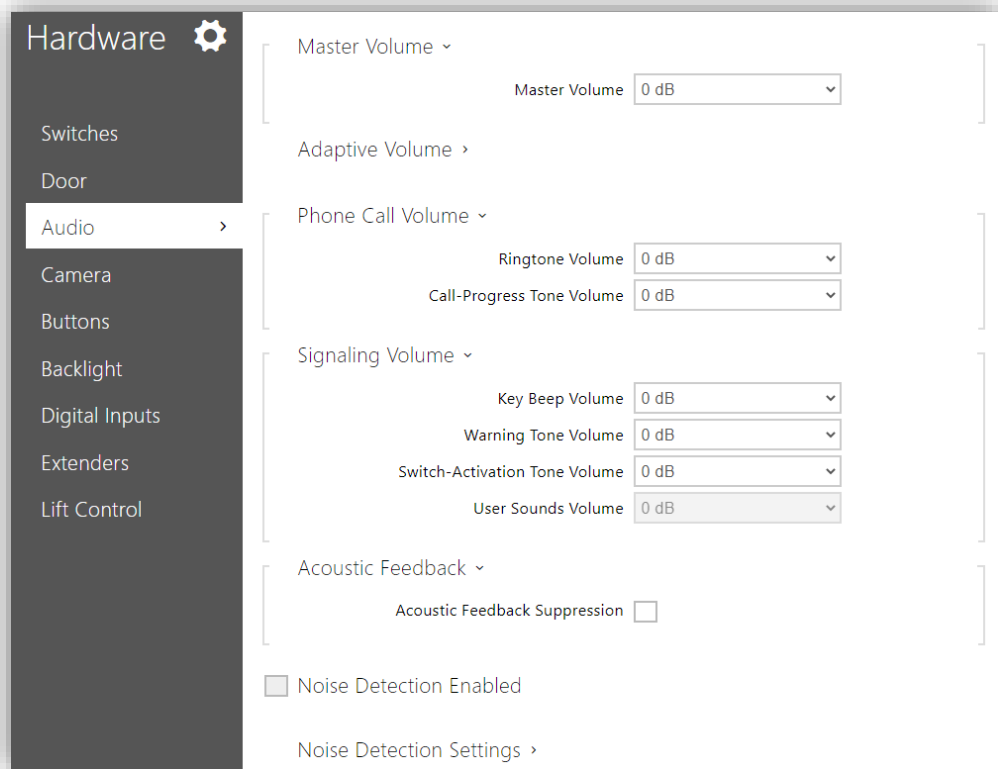


Figure 42 Audio.

- **Master Volume:** audio volume level for both calls and signals (ringtones).
- **Adaptive Volume:** if enabled, a **Maximum Gain** and a **Sensitivity Threshold** can be parameterised. The latter defines the volume level that will trigger the adaptive volume increase. On the other hand, even if this option is left disabled, the **Current Noise Level** and the **Current Adaptive Gain** can be consulted here.
- **Phone Call Volume:** defines the volume of the ringtones as well as of the call-progress tones, i.e., of the dial and busy-line tones.
- **Signalling Volume:** sets the volume of the key beeps, the warning tones and the switch-activation tone, as well as the user sounds to be played back.

- **Acoustic Feedback:** allows eliminating feedback between the intercom speaker and the internal unit. It is recommended to have this parameter active only when occurring sound coupling problems.

3.2.4.2 CAMERA

The Zennio GetFace IP video source can be configured in this section, together with the video output settings.

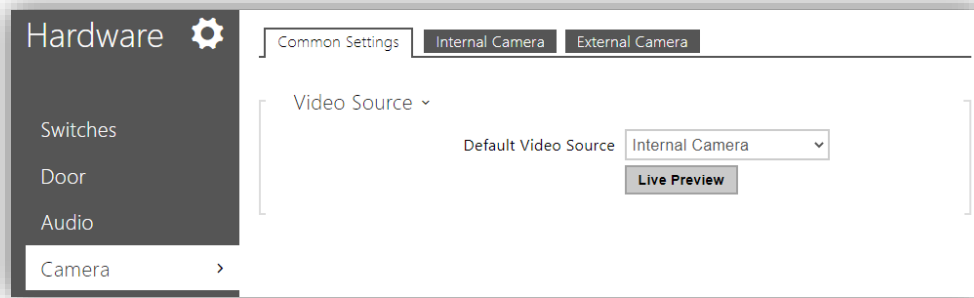


Figure 43 Camera.

COMMON SETTINGS

The default video source is set in this tab: either an **internal** camera (the on-board camera of Zennio GetFace IP) or an **external** IP camera can be configured. Once the default video source is selected and the configuration has been set, a **live preview** can be performed.

Note: *in case the device does not include its own camera (ZVP-WOCAM model), setting an internal camera will not be possible.*

INTERNAL CAMERA

The video output image settings are configured in the following section:

- **Brightness Level.**
- **Colour Saturation.**
- **Camera Mode:** allows reducing the effect of direct sun light or artificial light sources over the image, depending on where Zennio GetFace IP will be installed (indoor or outdoor).

- **Day/Night Mode:** sets the day/night modes of the camera. It is possible to set one particular (fixed) mode or let the device automatically switch between them depending on the ambient light level.
- **Current Mode:** displays the currently selected camera mode (day/night).
- **IR LED Brightness Level:** defines the brightness level of the infrared LED in the range 0-100% with steps of 25%. If set to automatic, the infrared light will be activated by Zennio GetFace IP in case the ambient light is low and the camera is being used.
- **Current IR LED Brightness Level:** displays the current IR LED brightness level. This level may drop below the configured value in the event of an excessive power consumption (usually when multiple extenders are connected –see section 3.2.4.5– and the PoE source is used).
- **Live Preview:** shows the video camera images with the current configuration.

3.2.4.3 BACKLIGHT

Zennio GetFace IP allows restricting the level of the device lower light and of the signalling LED depending on whether it is day-time or night-time. Also, the current value can be verified in this section.

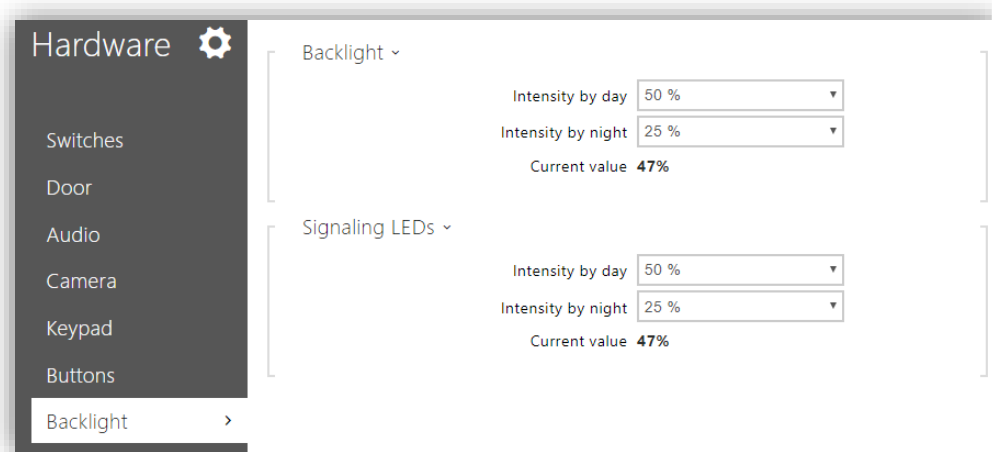


Figure 44 Backlight.

3.2.4.4 DIGITAL INPUTS

Parameters associated with the digital inputs are configured in this section.

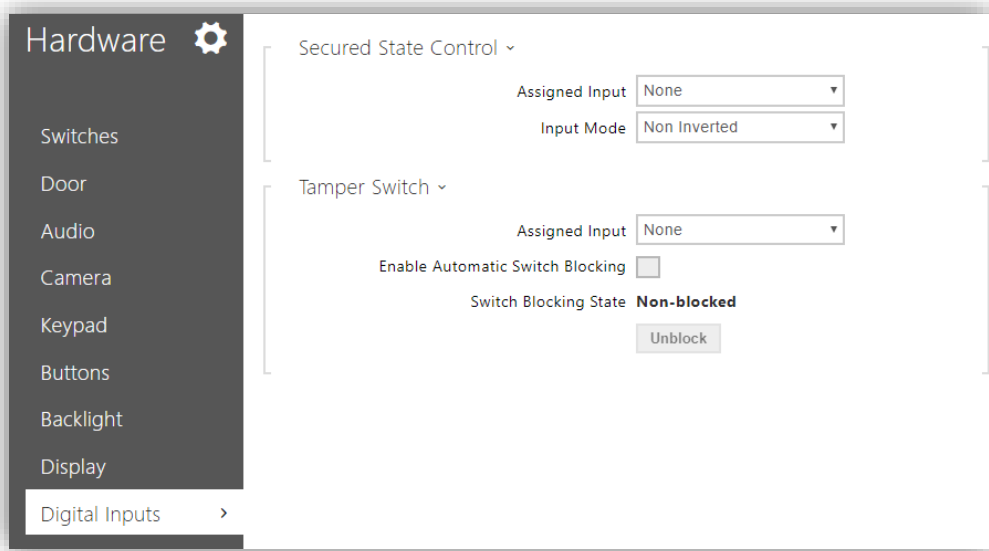


Figure 45 Digital inputs.

- **Secured State Control:** defines which of the inputs will be used for the secured state detection, which is indicated by Zennio GetFace IP through a LED. This parameter can be applied to pushbuttons for door opening. **Input Mode** allows setting whether this input is inverted or not.
- **Tamper Switch:** defines which ZVP-INOUT module inputs will be used as the tamper switch.
- **Door State:** sets which of the inputs will define the door state. It is possible to detect unauthorised door openings as well as when the door remains open for too long by defining a custom timeout.

3.2.4.5 EXTENDERS

Modules connected to the base unit are shown in this window. These modules are connected in series so each of them has its own number according to its position in the line. The base unit, as a special module, will have number 0.

3.2.5 SYSTEM

The main system configuration is established in the following sections.

3.2.5.1 NETWORK

Parameters related to the device network interfaces are set in this section.

BASIC

Zennio GetFace IP works by default with a static IP. However, it is possible to configure it to work with a DHCP server.

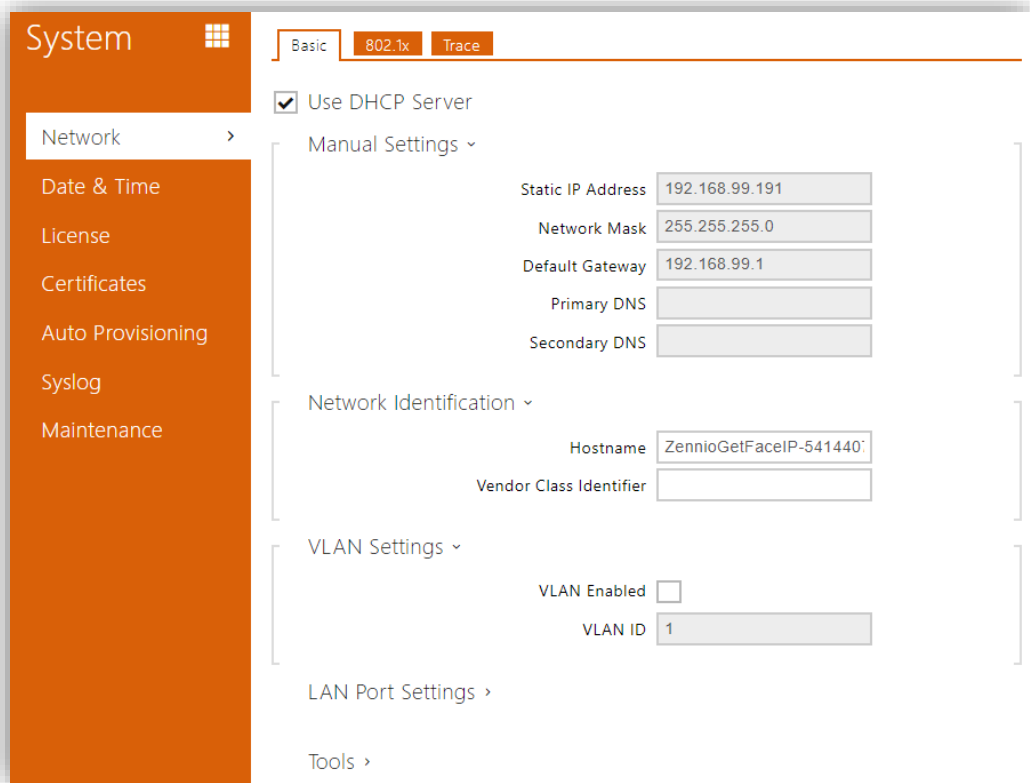


Figure 46 Network.

Being the DHCP option deactivated, it is possible to configure the following options:

- **Manual Settings:** allows setting a static IP address, the network mask and the default gateway. Also, a primary and a secondary DNS server can be configured.
- **Network identification:** sets the device hostname (optional).
- **VLAN Settings:** allows enabling a virtual local area network (VLAN).
- **LAN Port Settings:** sets the desired port mode (“Autonegotiation” or “Half Duplex”).
- **Tools:** allows monitoring the network and device status, as well as the latency of the responses.

In case of **enabling the DHCP server**, the manual network settings will not be available.

3.2.5.2 DATE & TIME

Date and time can be configured from this section.

It is possible to synchronise the date and time according to those from the PC (browser). Once synchronised, the **Time Zone** must be set, so winter/summer time shifts are performed according to the Zennio GetFace IP time zone.

It is also possible to define the time zone rules manually through the **Time Zone Rule** parameter.

Finally, a **NTP server** can be defined so the device date and time get synchronised by means of an Internet NTP server, whose URL or IP must be specified.

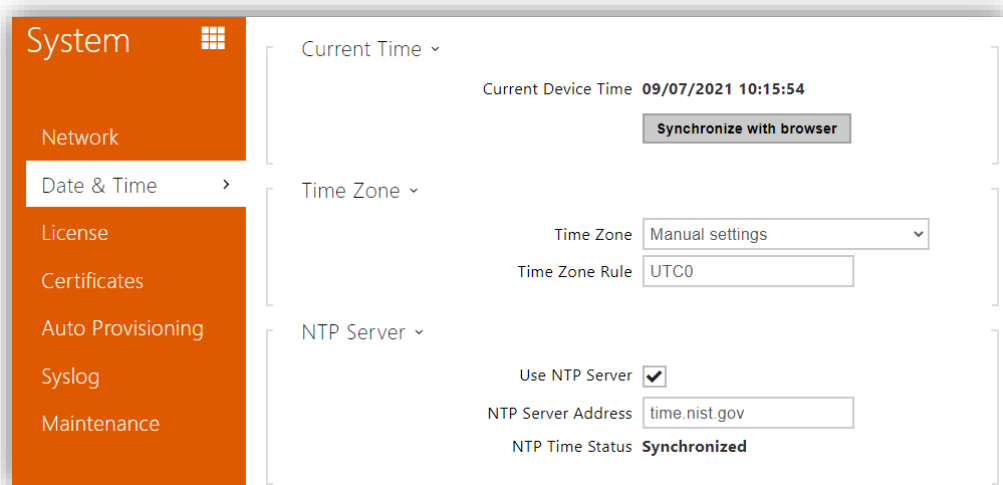


Figure 47 Date and Time.

3.2.5.3 AUTO PROVISIONING

It is recommended to deactivate the automatic firmware update as well as the automatic configuration update. It is advisable to perform these updates manually to do so in a controlled way and to make a backup before the update, so that settings are saved and does not affect the normal operation of the unit (see section 3.2.5.4 for further information).

To do this, uncheck the "Firmware Update Enabled" and "Automatic Configuration Update" boxes in the Firmware and Configuration tabs, respectively.

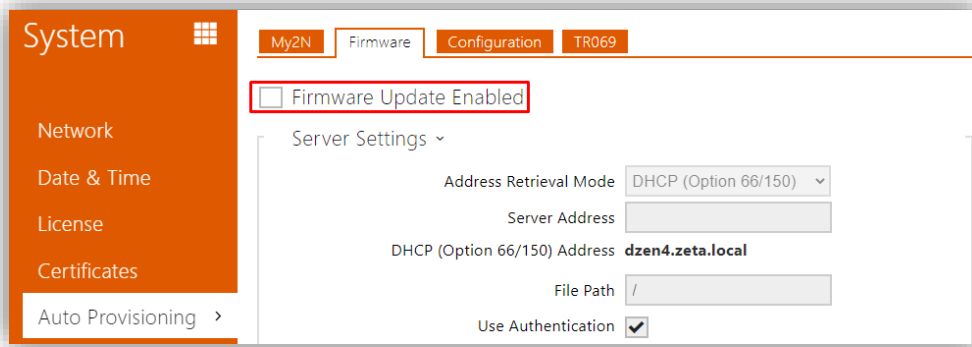


Figure 48 Auto Provisioning.

3.2.5.4 MAINTENANCE

This section allows performing general maintenance operations. It also provides general information about it.

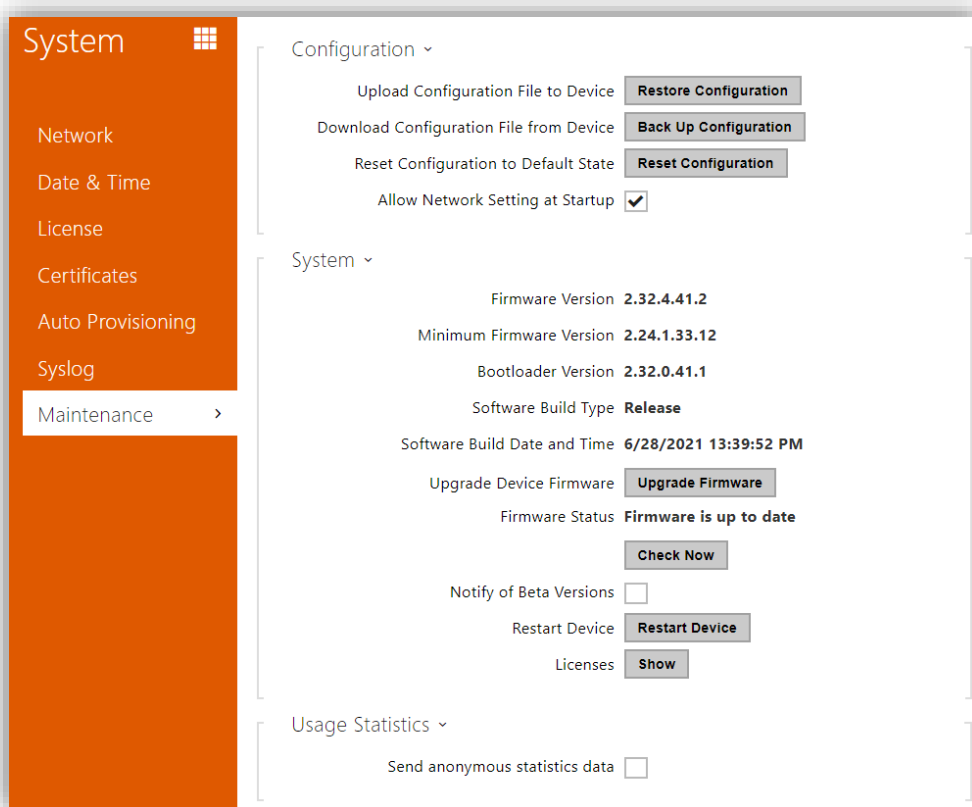


Figure 49 Maintenance.

The main actions than can be carried out are:

- **Restore Configuration:** uploading a configuration backup file to the device.

Important: before restoring the configuration, it is recommended to make a backup copy of the current configuration ("Back Up Configuration").

It is possible to select loading only certain parts of the configuration.

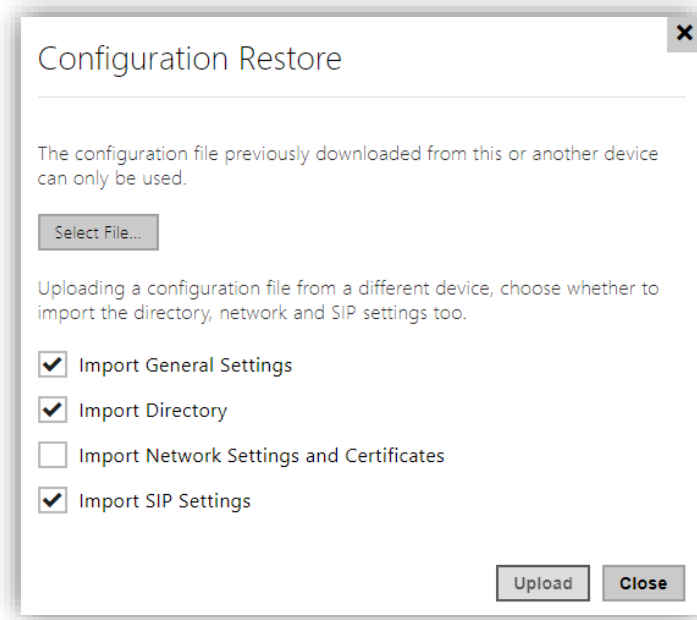


Figure 50 Configuration Restore.

- **Back Up Configuration:** downloading a configuration backup file from the device.
- **Reset Configuration:** resetting the Zennio GetFace IP configuration to the default state.
- **Upgrade Firmware:** manually upgrading the device firmware by uploading a firmware file.

Important:

- Before upgrading the firmware, it is recommended to make a backup copy of the current configuration ("Back Up Configuration").
- Please consult Zennio before updating the firmware to a different version than the one indicated on the cover of this manual.

Join and send us your inquiries
about Zennio devices:

<https://support.zennio.com>

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