

Gate ~ FMCU ~ Benutzerhandbuch/en



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Introduction

The document describes the functions and configuration options of the software **Facility Management Control Unit**.

The Facility Management Control Unit is software for access control management. It can be used in an enclosed area such as a sports or entertainment center, an airport zone, universities or security areas. The main components of the software solution are:

- An automated passage control with two-part door and signal lighting
- Barcode (or/and RFID) scanners that read identification data from the customer's ticket or card
- Tracking cameras observing the passage of customers
- Info screens showing inbound and outbound information to the customer
- One or more external speakers
- One or more additional monitors with content tailored to customer needs

The main features are:

- Opening access control upon successful ticket validation
- Interaction with customer in response to various events through:
 - Light effects
 - Voice prompts through internal or external speakers
 - Acoustic confirmation of the reading process from barcode scanners
 - Visual content displayed on an info screen
 - Safe opening and closing of the swing doors by monitoring the passage area

Supported operating modes:

- Normal
- Service
- Fire alarm
- Emergency

The variants of Entry Tickets:

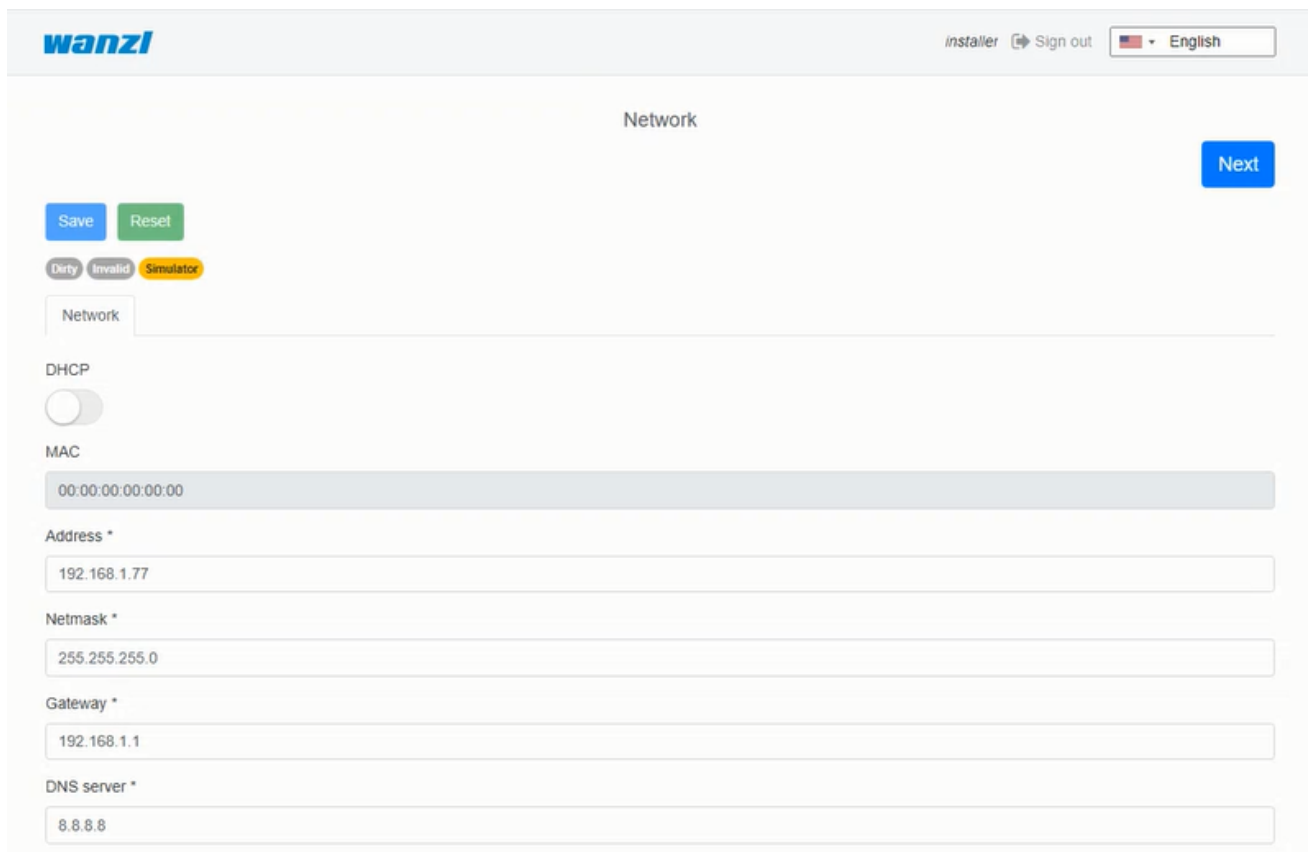
- Single entry ticket with closing of access control after passage of one person
- Multiple entry ticket with permanent access control
- Adjustable time intervals
- Consideration of additional conditions about potential-free contacts

Initial Configuration

After the software has been downloaded and transferred to the eMMC card according to the documented procedure, see also here [Galaxy Gate Inbetriebnahme/en](#), the login screen appears after the first start. After logging in with the user *Installer*, configuration wizard will be started.

Network

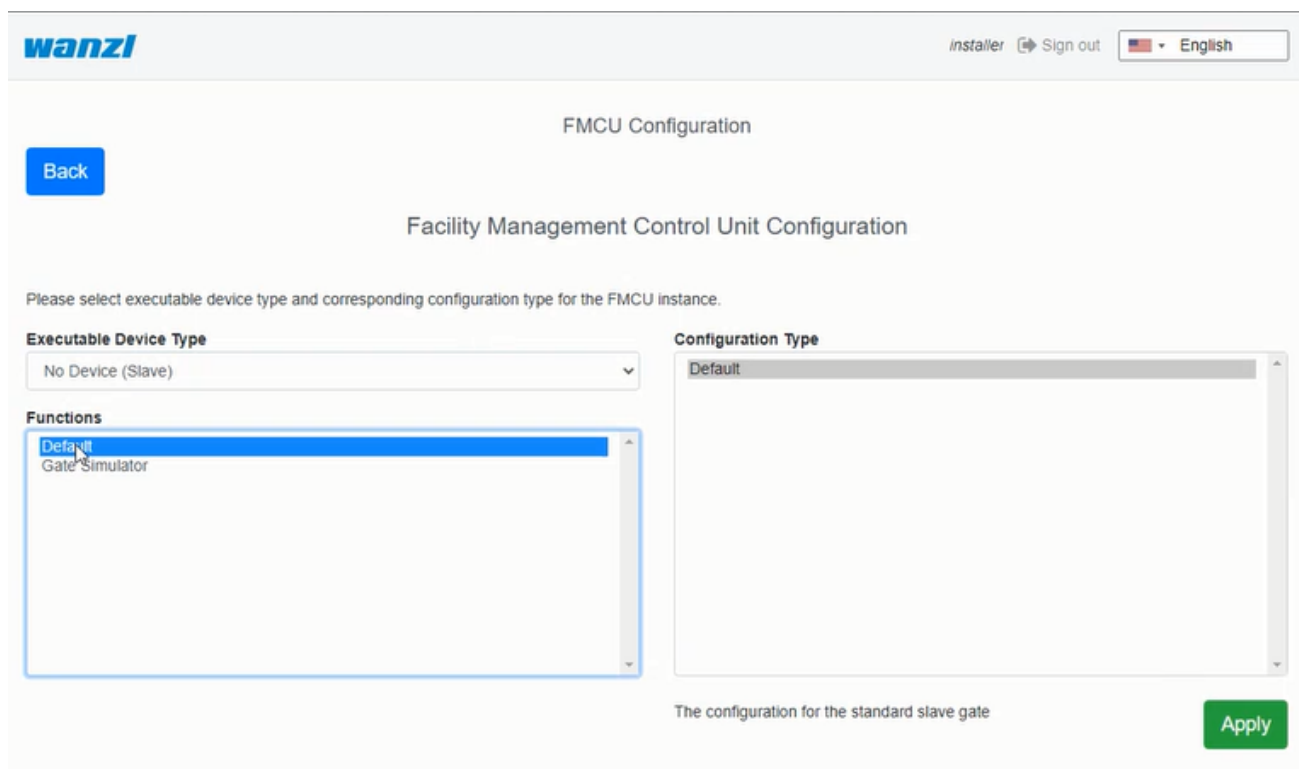
First step is the network settings configuring



Parameter	Description	Default Value
Address	IP-Address of access control	192.168.1.100
Mask	Network-Mask	255.255.255.0
Gateway	Gateway-Address	192.168.1.1
DNS-Server	DNS-Server for name resolution	192.168.1.1

FMCU Configuration

Next step is selecting FMCU Configuration



i NOTE

The configuration always starts with the "Slave" side of the Galaxy Gate. This selection is preset in the assistant "No Device Slave".

As a type, you can basically make this selection in the assistant.

Configuration of the Facility Management Control Unit

Selection	Description
No Device Slave	Slave Unit (Default Selection)
Galaxy Gate (Modbus Serial)	Master-Unit mit serieller Verbindung zu Slave-Unit
Galaxy Gate (Modbus TCP)	Master-Unit with network connection to Slave-Unit
Galaxy Port (Modbus Serial)	Unit with serial connection to Slave-Unit
Galaxy Port (Modbus TCP)	Unit with network connection to Slave-Unit

Functions

Function	Description
AEA	Configuration for Boarding Gates
Immediate Closure	Closing the swivel arms without swivel range monitoring
Multiple Opening	Swivel arms remain open when multiple input signals are present
Personal Protection	Closing the swivel arms with swivel area monitoring

One-time opening	Single pass even when several input signals are present
Trolley Case	Support of trolley case without alarm
Wheelchair	Assistance from wheelchair without alarm

After the function has been selected, the combination of functions results in corresponding configuration types. The function selection is a filter for the resulting configuration type.

Configuration type from combination of functions

Configuration Type	Description
AEA	Configuration for Boarding Gates
One-time opening Personal Protection	Closing the swivel arms with swivel area monitoring
One-time opening Immediate Closure	Closing the swivel arms without swivel range monitoring
One-time opening Trolley Case	Single passage with trolley case even when several input signals are present
One-time opening Wheelchair	Single passage with a wheelchair even if several input signals are present
Multiple opening personal protection	Closing the swivel arms with swivel area monitoring
Multiple opening instant closure	Closing the swivel arms with swivel area monitoring
Multi-opening trolley case	Swivel arms remain open when several people with wheeled suitcases pass through
Multiple opening wheelchair	Swivel arms remain open when several people with wheeled suitcases pass through

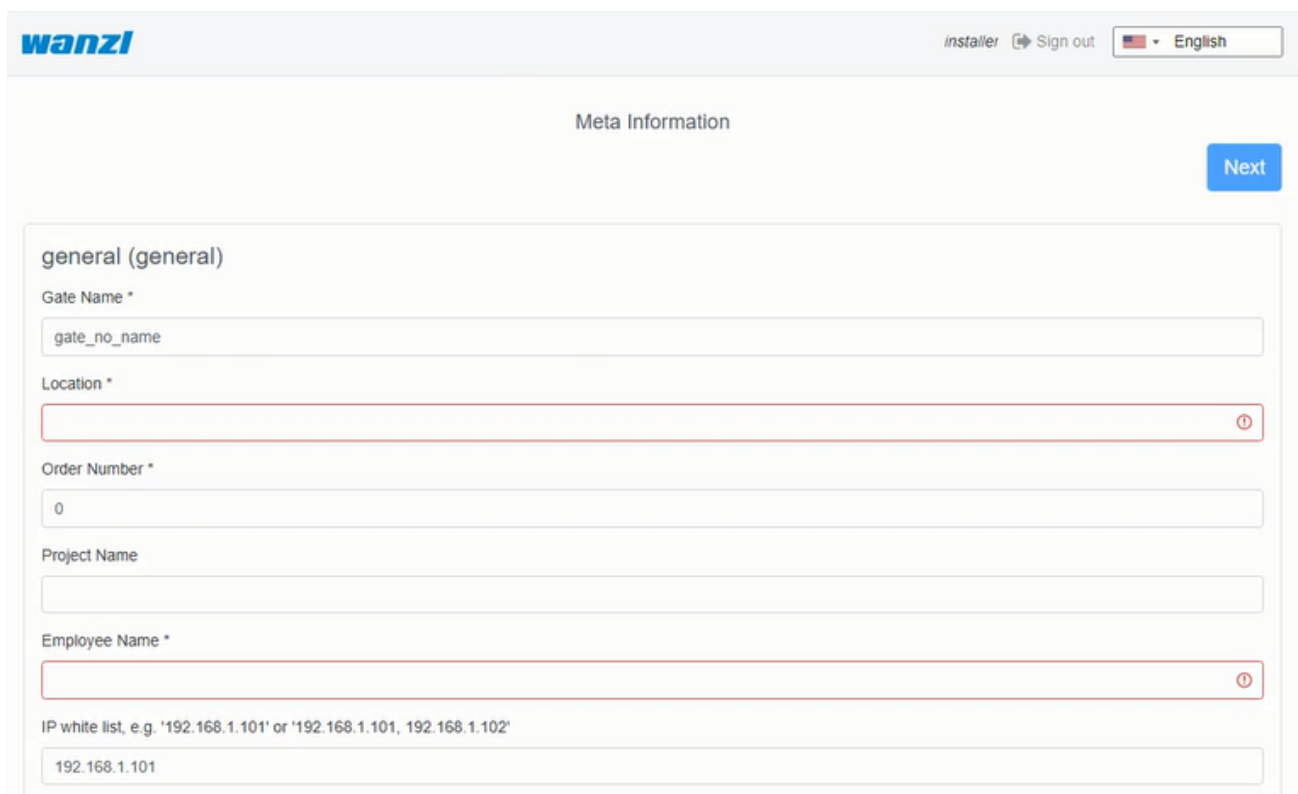
After choosing from the three lists, click on **Apply**, the application will be restarted, you have to wait for the start-up process to be completed. After logging in again, this screen appears.

NOTE

If you adjust the IP address in the configuration, you must also align the URL in the browser to the new IP address.

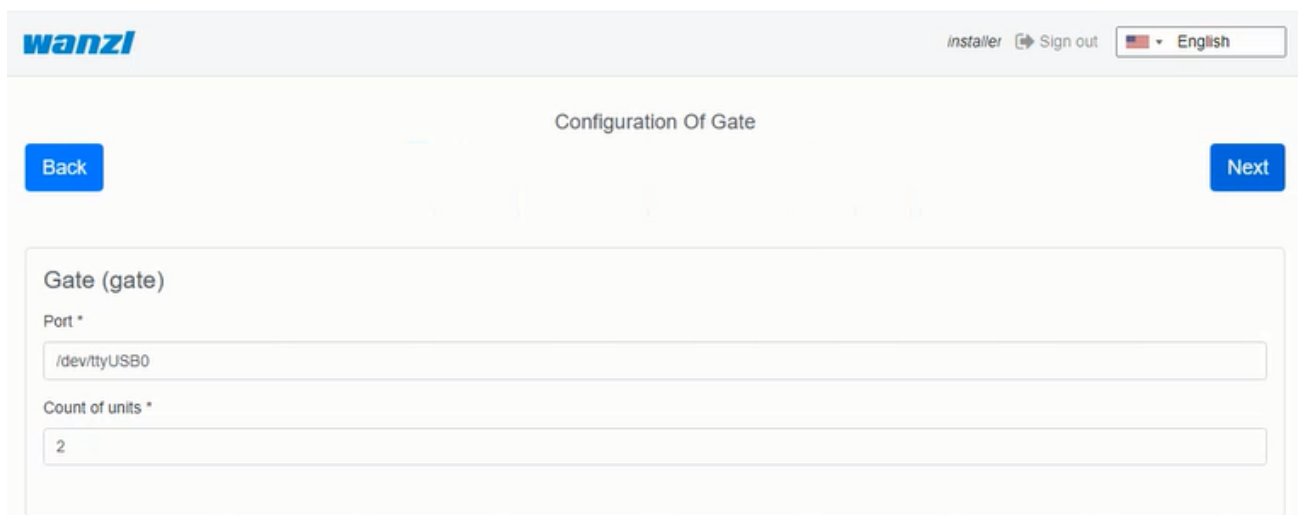
Meta information

Next step is filling meta information about FMCU



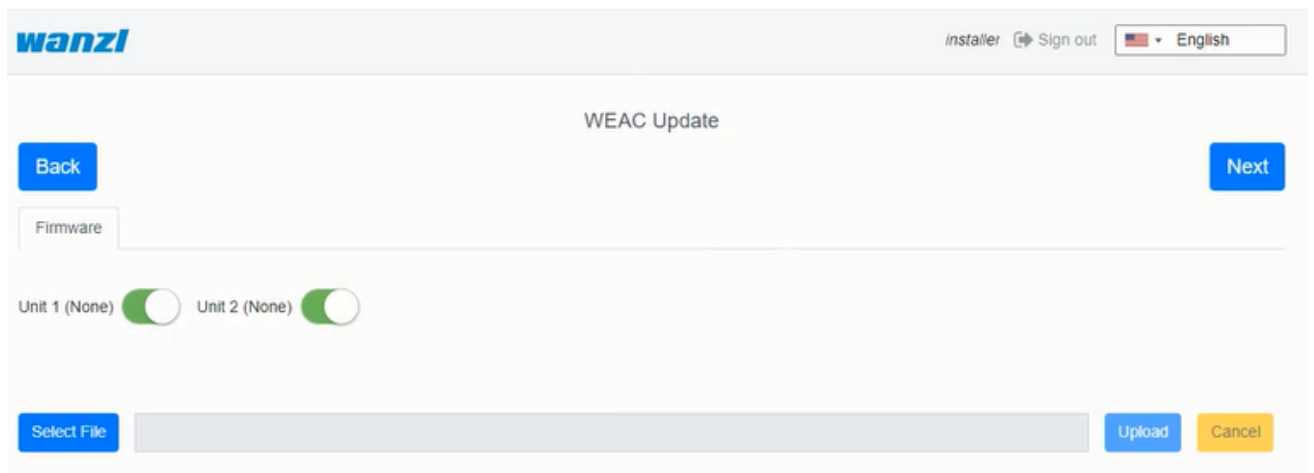
After the input fields have been filled in, you can click on **Next** to reach the next page of the wizard.

Configuration of Gate

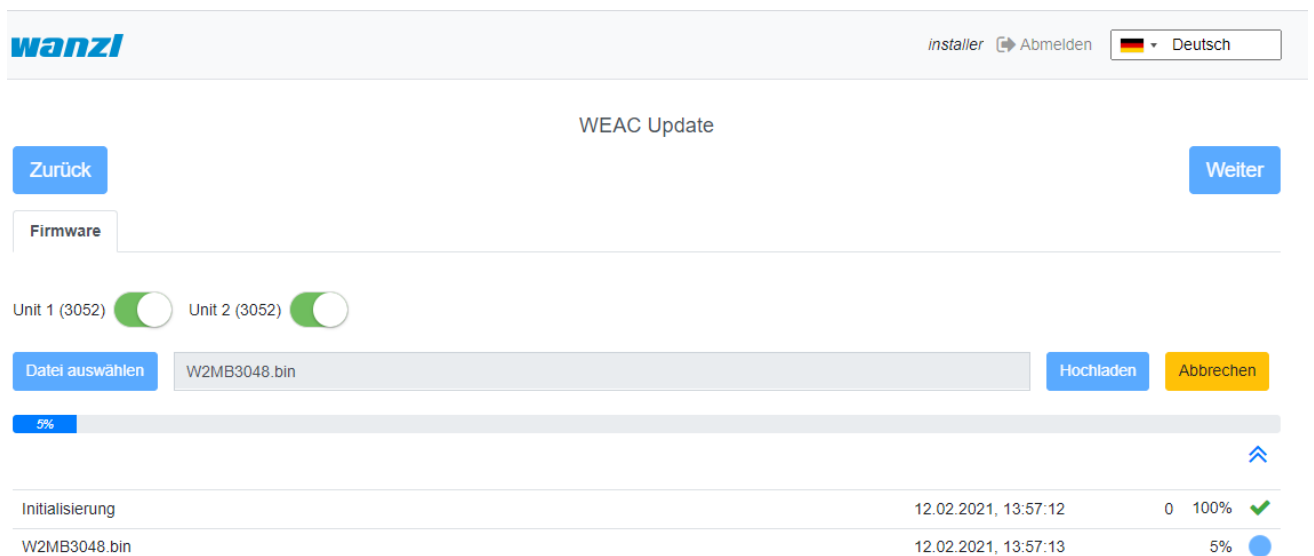


WEAC Firmware Update

The current WEAC firmware is displayed on the next page of the wizard. If necessary, you can down or upgrade the firmware.



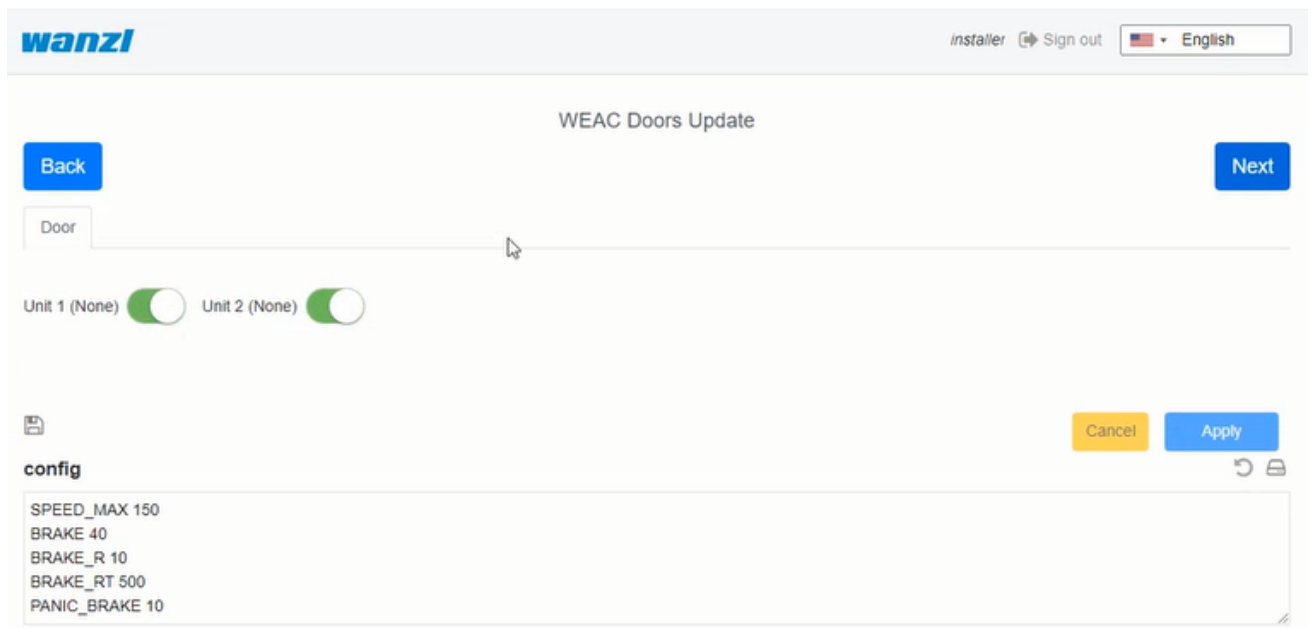
The firmware version for each unit is listed as a label next to the activation button. The navigation options are deactivated during the update process. The update process takes about 3 minutes for both units.



Initialisierung	12.02.2021, 13:57:12	0	100%	✓
W2MB3048.bin	12.02.2021, 13:57:13		5%	●

After checking the WEAC firmware, the swing doors are configured. It is automatically checked whether the minimum requirements regarding the firmware are met. You will be informed on the surface if the firmware has to be updated first.

WEAC Doors Update



wanzl installer [Sign out](#) English

WEAC Doors Update

[Back](#) [Next](#)

Door

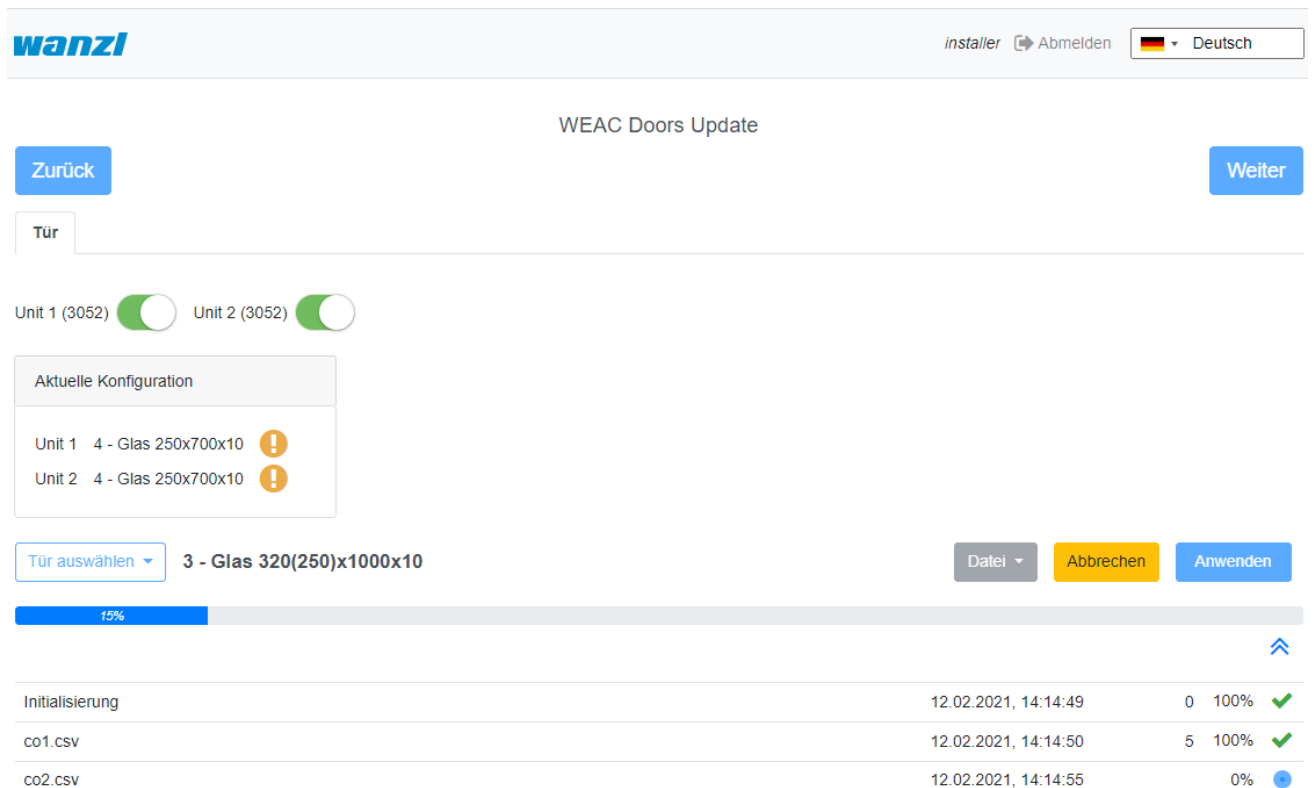
Unit 1 (None) Unit 2 (None)

[Cancel](#) [Apply](#)

config

```
SPEED_MAX 150
BRAKE 40
BRAKE_R 10
BRAKE_RT 500
PANIC_BRAKE 10
```

If the requirements are met, you can select the swing doors and apply them to the gate.



wanzl installer [Abmelden](#) Deutsch


WEAC Doors Update


[Zurück](#) [Weiter](#)

Tür

Unit 1 (3052) Unit 2 (3052)

Aktuelle Konfiguration

Unit 1 4 - Glas 250x700x10 

Unit 2 4 - Glas 250x700x10 

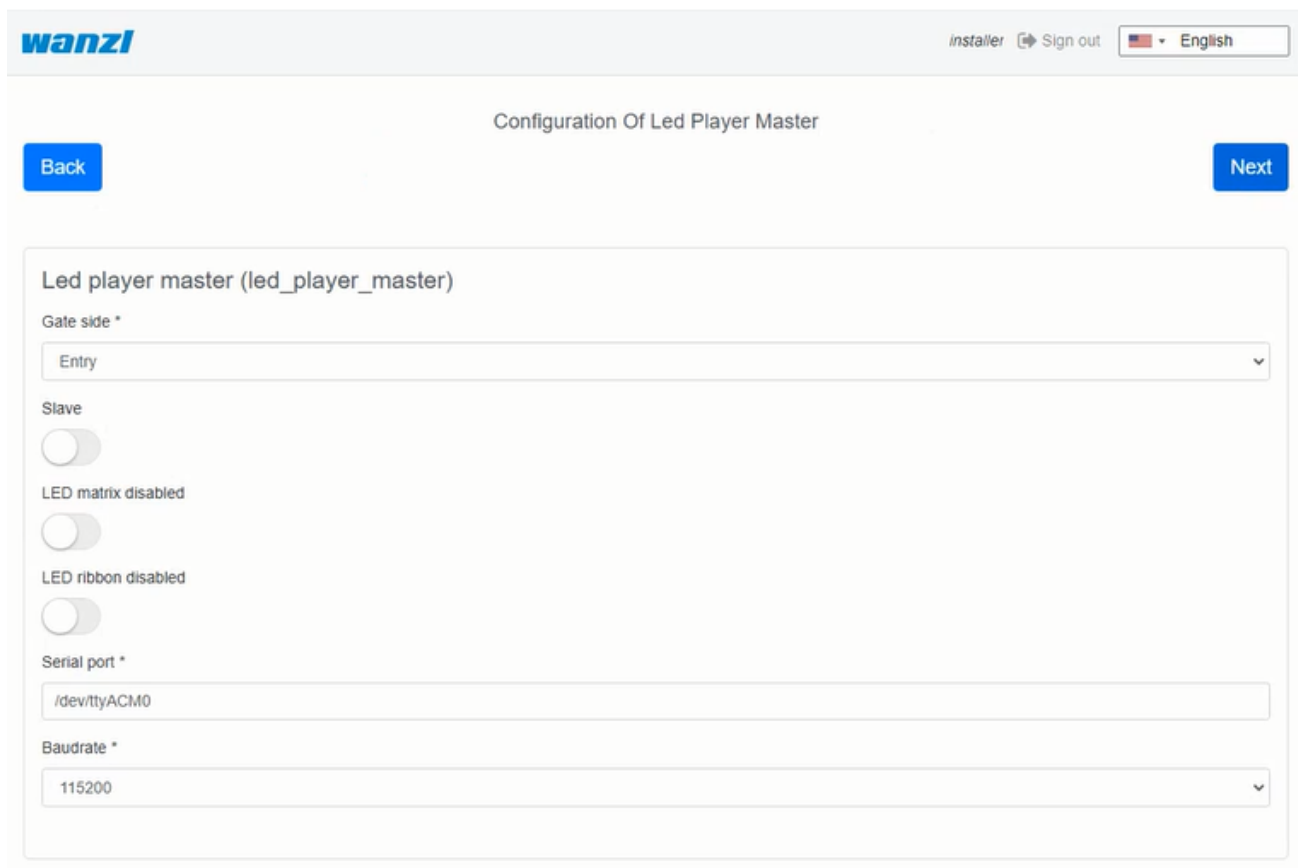
[Tür auswählen](#) **3 - Glas 320(250)x1000x10** [Datei](#) [Abbrechen](#) [Anwenden](#)

15%

Initialisierung	12.02.2021, 14:14:49	0	100%	✓
co1.csv	12.02.2021, 14:14:50	5	100%	✓
co2.csv	12.02.2021, 14:14:55		0%	ⓘ

Configuring the Led Player

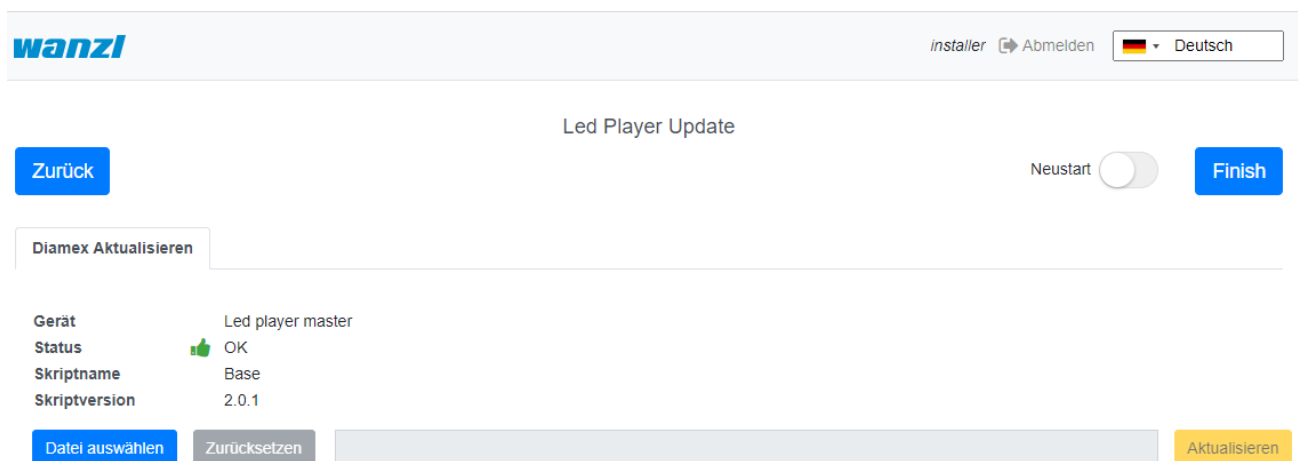
The next step is to configure the LED player for both units (Master and Slave) accomplished. If necessary, you can adjust the parameters. If the status is **ready for use**, no modifications are necessary.




The screenshot shows the 'Configuration Of Led Player Master' page in the Wanzl installer. At the top, there is a 'wanzl' logo, an 'installer' label, a 'Sign out' button, and a language dropdown set to 'English'. The main title is 'Configuration Of Led Player Master'. Below the title are 'Back' and 'Next' buttons. The configuration area is titled 'Led player master (led_player_master)' and contains the following fields:

- 'Gate side *': A dropdown menu with 'Entry' selected.
- 'Slave': A toggle switch that is currently turned off.
- 'LED matrix disabled': A toggle switch that is currently turned off.
- 'LED ribbon disabled': A toggle switch that is currently turned off.
- 'Serial port *': A text input field containing '/dev/ttyACM0'.
- 'Baudrate *': A dropdown menu with '115200' selected.

The current firmware of the LED player is shown again on the last page of the assistant. Optionally, you can end the configuration with a restart. However, this is only necessary if IP addresses or interface information have changed.



The screenshot shows the 'Led Player Update' page in the Wanzl installer. At the top, there is a 'wanzl' logo, an 'installer' label, an 'Abmelden' button, and a language dropdown set to 'Deutsch'. The main title is 'Led Player Update'. Below the title are 'Zurück' and 'Finish' buttons. A 'Neustart' toggle switch is also present. The main content area is titled 'Diamex Aktualisieren' and contains the following information:

Gerät	Led player master
Status	 OK
Skriptname	Base
Skriptversion	2.0.1

At the bottom, there are three buttons: 'Datei auswählen', 'Zurücksetzen', and 'Aktualisieren'.

After clicking **Finish** you can log in again as certain user and work with the Galaxy Gate. If you log in again as user *installer*, you get a graphical overview, can find out about the status of the access control and can carry out updates if necessary. So you complete the setup of the access control.

Displays				
Display Entry				http://192.168.241.117:/display/display_entry
Display Exit				http://192.168.241.117:/display/display_exit

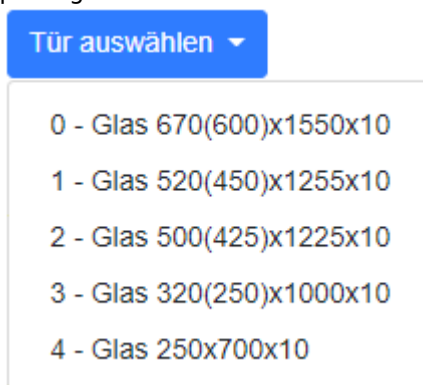
Devices				
Name	Type	State	Failure Reason	Failure
GateModbusGalaxyGateTcp	GateModbusGalaxyGateTcp	Closed		<input type="checkbox"/>
Light bar	Duometric	Ready		<input type="checkbox"/>
<input checked="" type="checkbox"/> Audio player	Weac	Ready		<input type="checkbox"/>
Slave fmcu	Device	Ready		<input type="checkbox"/>
Led player master	Diamex Serial	Ready		<input type="checkbox"/>
Led player slave	Diamex Remote	Ready		<input type="checkbox"/>

You can now log in with a service account and carry out further tests.

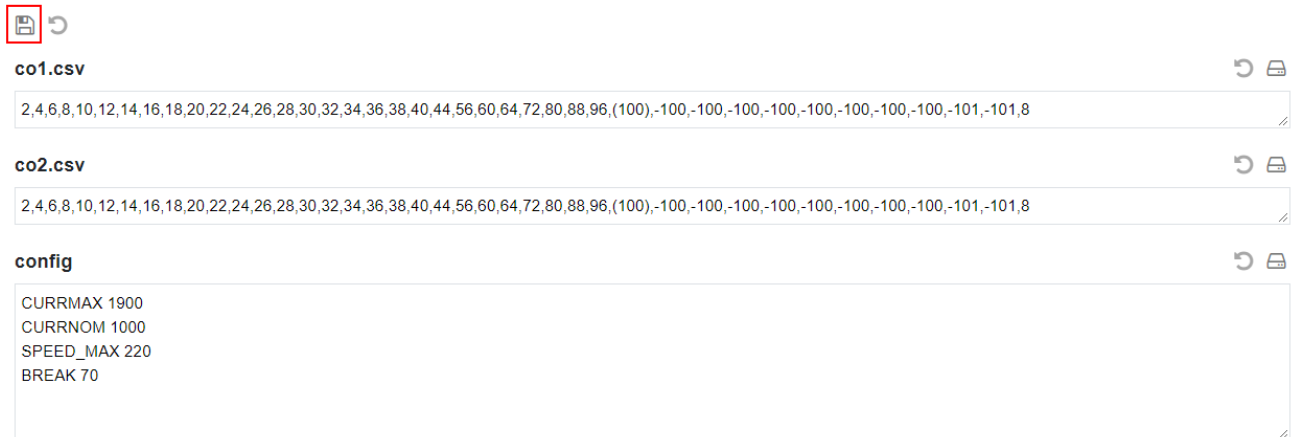
Operation Manual



Configuration of the Swing Doors



The swing doors can have different dimensions. Depending on the width and height, this results in other target parameters for optimal curve passage.





After a type has been selected, all parameters can be adjusted according to the needs in the interface before they are then activated via the button **Apply** in the configuration on the access control. If you change individual values in the display, the settings must first be saved. To do this, click on the diskette symbol on the left of the interface above the file list.





 

co1.csv  

2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,44,56,60,64,72,80,88,96,(100),-100,-100,-100,-100,-100,-100,-100,-101,-101,8

co2.csv  

2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,44,56,60,64,72,80,88,96,(100),-100,-100,-100,-100,-100,-100,-100,-101,-101,8

config  

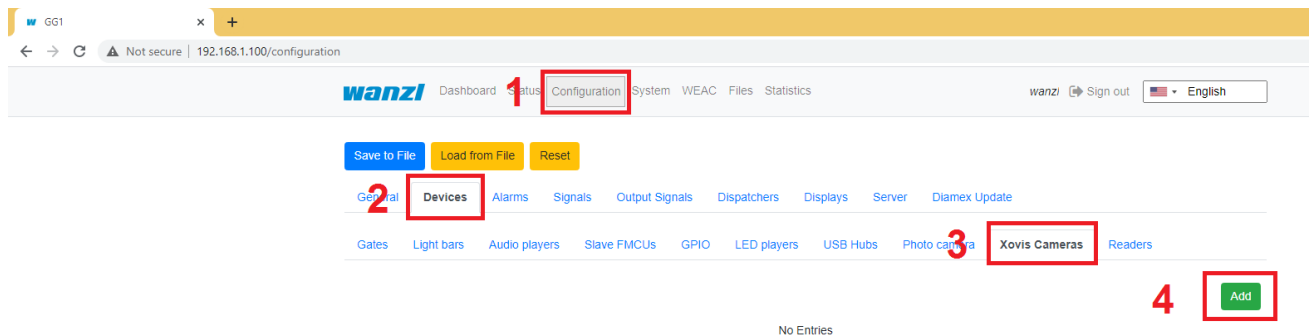
CURRMAX 1900
CURRNOM 1000
SPEED_MAX 220
BREAK 70

After the changes have been saved, you can activate them using the Apply button.

Configuration of the XOVIS Sensors

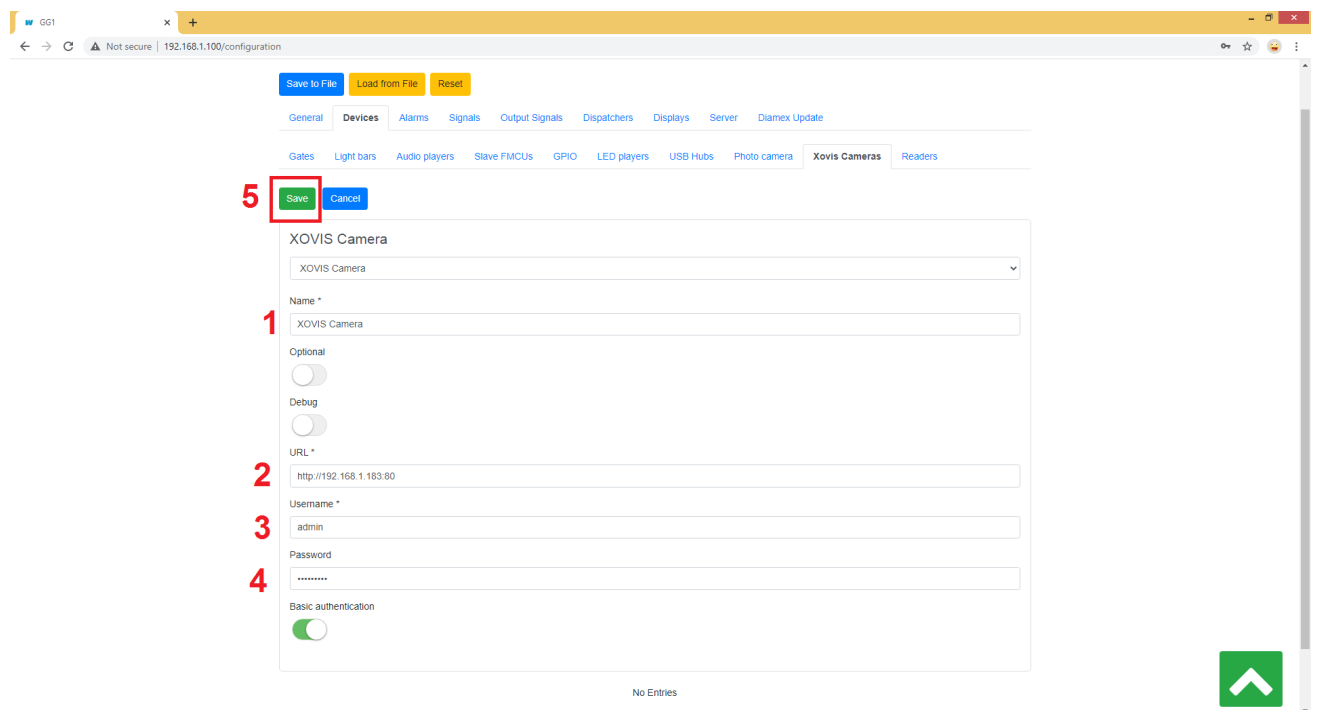
Add XOVIS-Sensor

Navigate to "Configuration" -> "Devices" -> "Xovis Cameras" and then click on the "Add" button



The following fields are filled in the order shown:

1. Name
2. URL
3. Username
4. Password



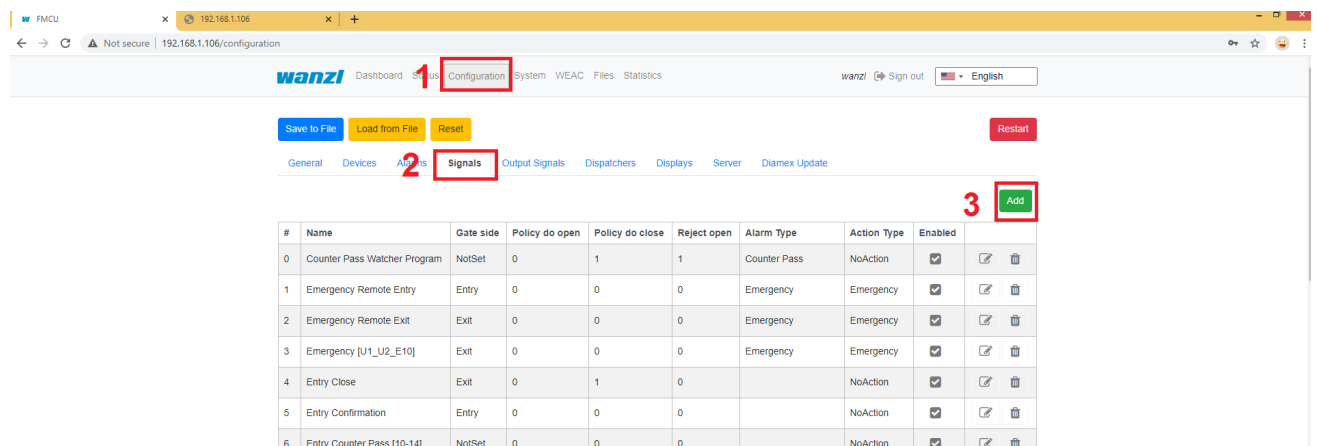
The configuration is saved by clicking the **Save** button.

i NOTE

After adding the XOVIS sensor, the **FMCU** must be restarted before proceeding with the configuration.

Add XOVIS monitoring area as alarm signal

Navigate to "Configuration" -> "Signals" and then click on the "Add" button



The following fields must be filled in here:

1. Select type "XOVIS Sensor"
2. Specify the name of the signal (e.g. "XOVIS ALARM")
3. Set the minimum number of people in the alarm zone to trigger an alarm (e.g. 2)
4. Select the alert type (e.g. "Unauthorized Access")
5. Determine a list of alarm zones (e.g. "AlarmZone")

6. Select the XOVIS sensor added to.

The configuration is saved by clicking the **Save** button.

[Save to File](#) [Load from File](#) [Reset](#)

[General](#) [Devices](#) [Alarms](#) **Signals** [Output Signals](#) [Dispatchers](#) [Displays](#) [Server](#) [Diamex Update](#)

[Save](#) [Cancel](#)

GateSignalXovis

1

2

Enabled



Count Max *

Gate side *

Policy do open *

Open gate, ignore locked



Open gate speed, % *

Open gate angle, % *

Open gate timeout, ms *

Re-open gate delay, ms *

Policy do close *

Close gate speed, % *

Protect from soft close. Soft Alarm delay, ms *

Soft Alarm Type

Soft close was forbidden. Alarm delay, ms *

Close was forbidden. Alarm Type

Protect from force close

Protect from force close

Force close was forbidden. Alarm delay, ms *

Delay to start closing the gate, ms (0 - 1000) *

Reject open *

Ignore reject open delay, after gate closed, ms *

Alarm *

3

Alarm Type

4

Alarm delay, ms *

Action *

Action Type *

Counter *

List of zones ("Gate side" and "Counter" must be unset)

5

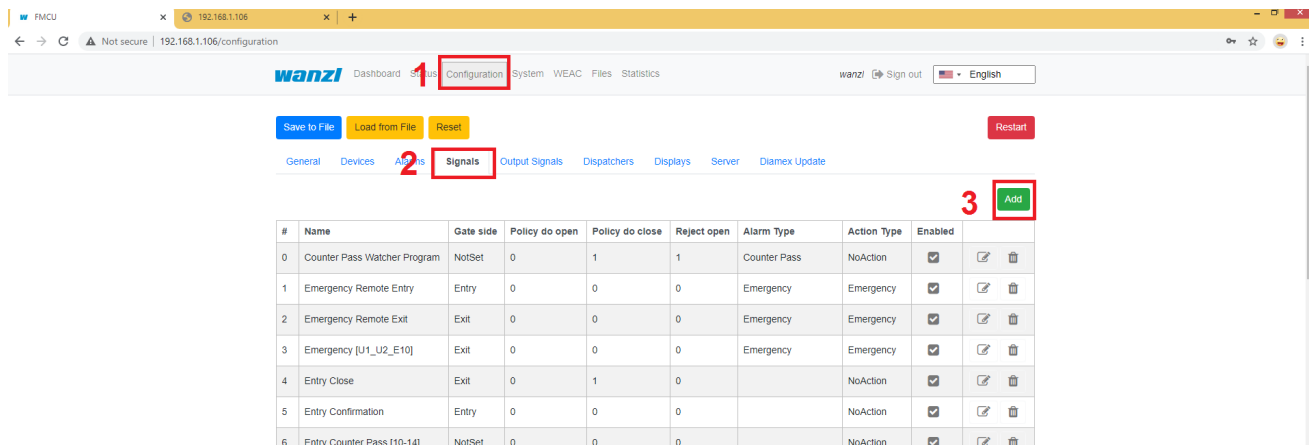
List of lines ("Gate side" and "Counter" must be set)

Camera XOVIS *















6

Add XOVIS counter

Navigate to "Configuration" -> "Signals" and then click on the "Add" button



The screenshot shows the 'wanzl' configuration interface. The 'Configuration' tab is selected, and the 'Signals' sub-tab is active. A table lists various signal configurations with columns for Name, Gate side, Policy do open, Policy do close, Reject open, Alarm Type, Action Type, and Enabled. A green 'Add' button is visible in the top right corner of the table area.

#	Name	Gate side	Policy do open	Policy do close	Reject open	Alarm Type	Action Type	Enabled	
0	Counter Pass Watcher Program	NotSet	0	1	1	Counter Pass	NoAction	<input checked="" type="checkbox"/>	 
1	Emergency Remote Entry	Entry	0	0	0	Emergency	Emergency	<input checked="" type="checkbox"/>	 
2	Emergency Remote Exit	Exit	0	0	0	Emergency	Emergency	<input checked="" type="checkbox"/>	 
3	Emergency [U1_U2_E10]	Exit	0	0	0	Emergency	Emergency	<input checked="" type="checkbox"/>	 
4	Entry Close	Exit	0	1	0		NoAction	<input checked="" type="checkbox"/>	 
5	Entry Confirmation	Entry	0	0	0		NoAction	<input checked="" type="checkbox"/>	 
6	Entry Counter Pass [10-14]	NotSet	0	0	0		NoAction	<input checked="" type="checkbox"/>	 

The following fields must be filled in here:

1. Select type "XOVIS Sensor".
2. Specify the name of the signal (e.g. "XOVIS Counter")
3. Specify the side of the gate (e.g. "Entrance")
4. Set the value "Counter".
5. Specify a list of lines(e.g. "EntryLine")
6. Select the XOVIS camera that you added earlier.

The configuration is saved by clicking the **Save** button.

Save to File Load from File Reset Restart

General Devices Alarms **Signals** Output Signals Dispatchers Displays Server Diamex Update

7 Save Cancel

GateSignalXovis

1 XOVIS Sensor

2 Name *
XOVIS Counter

Enabled

Count Max *
0

3 Gate side *
Entry

Policy do open *
0

Open gate, ignore locked

Open gate speed, % *
100

Open gate angle, % *
100

Open gate timeout, ms *
2000

Re-open gate delay, ms *
1800

Policy do close *
0

Close gate speed, % *
100

Protect from soft close. Soft Alarm delay, ms *
0

Soft Alarm Type
[Dropdown]

Soft close was forbidden. Alarm delay, ms *
60000

Close was forbidden. Alarm Type
[Dropdown]

Protect from force close

Force close was forbidden. Alarm delay, ms *

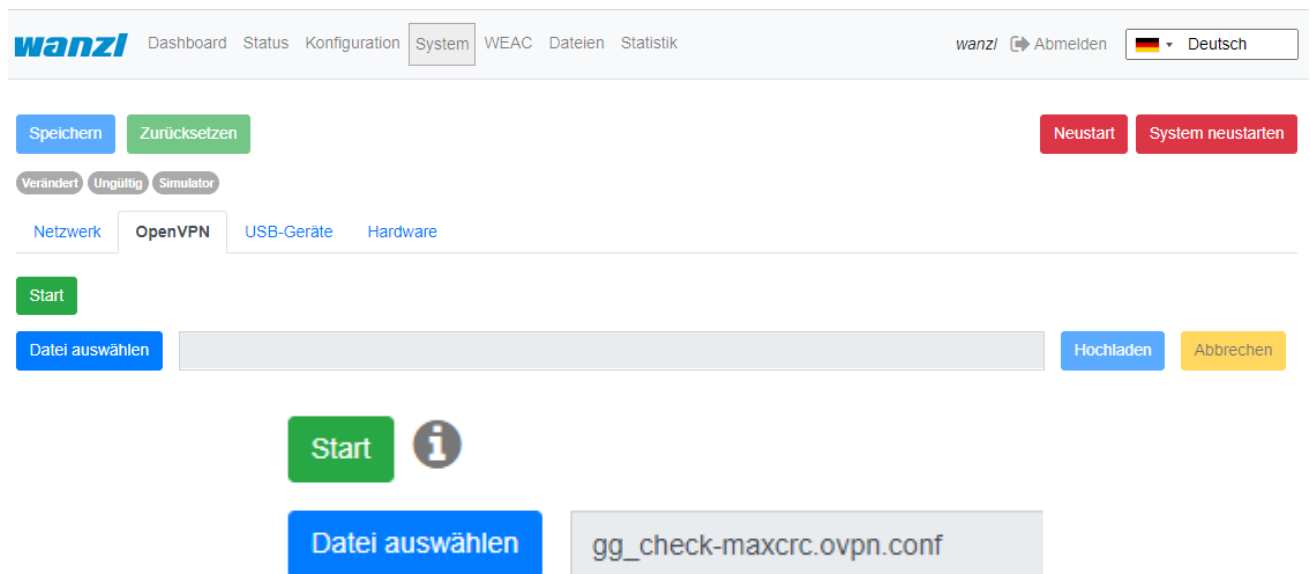
	1200
	Delay to start closing the gate, ms (0 - 1000) *
	0
	Reject open *
	0
	Ignore reject open delay, after gate closed, ms *
	0
	Alarm *
	0
	Alarm Type
	<input type="text"/>
	Alarm delay, ms *
	400
	Action *
	0
	Action Type *
	NoAction
4	Counter *
	1
	List of zones ("Gate side" and "Counter" must be unset)
	<input type="text"/>
	List of lines ("Gate side" and "Counter" must be set)
5	EntryLine
6	Camera XOVIS *
	XOVIS Camera

Store VPN key

A VPN key is required to use remote maintenance. This key can be requested from maxcrc support (support@maxcrc.de) by specifying the project name (Configuration->General view).

After the key file (*.opvn.conf) is available, you can import via the System->OpenVPN page. The following steps are necessary for this.

Navigating to the **System-OpenVPN** page.



The screenshot shows the wanzl web interface. At the top, there is a navigation bar with the wanzl logo and menu items: Dashboard, Status, Konfiguration, System (selected), WEAC, Dateien, Statistik. On the right, there is a user profile 'wanzl', a logout button 'Abmelden', and a language dropdown set to 'Deutsch'. Below the navigation bar, there are several buttons: 'Speichern', 'Zurücksetzen', 'Neustart', and 'System neustarten'. There are also status indicators: 'Verändert', 'Ungültig', and 'Simulator'. The main content area has tabs for 'Netzwerk', 'OpenVPN' (selected), 'USB-Geräte', and 'Hardware'. A 'Start' button is visible. Below that, there is a file selection area with a 'Datei auswählen' button, a text input field containing 'gg_check-maxcrc.ovpn.conf', and 'Hochladen' and 'Abbrechen' buttons. A green 'Start' button and an info icon are also present.

This file is now specified via the **Select file** button in the file selection dialog. Then click on **Upload**. When the process has been successfully completed, an info icon will appear next to the start button. This means the file has been uploaded successfully, the OpenVPN client can now be activated by clicking on **Start**.

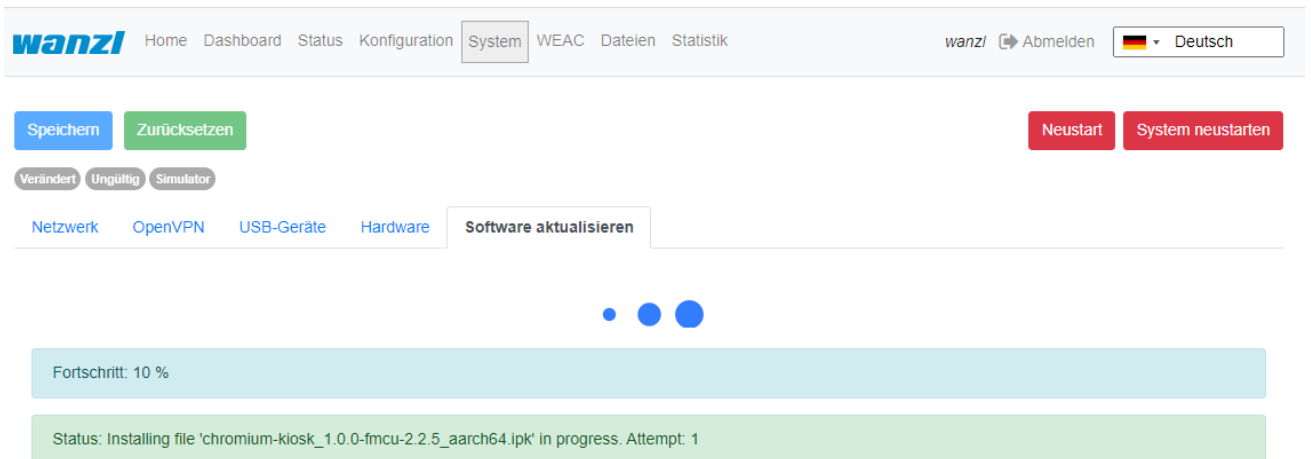


The screenshot shows the wanzl web interface after a successful upload. The navigation bar and user profile are the same. The 'OpenVPN' tab is still selected. The file selection area now shows the file 'gg_check-maxcrc.ovpn.conf' in the input field. The 'Hochladen' button is now disabled. The 'Start' button has turned red and is labeled 'Halt'. To the right of the 'Halt' button, there is an info icon and the text 'Running 192.168.240.27'.

If the start was successful, the color changes from green to red and the label from start to stop. The status of the OpenVPN client and the IP address for access in the VPN network for this gate are displayed to the right of the info symbol. You can disable remote access by clicking the **Stop** button.

Update Software

If there is no Internet connection, individual package installations can be carried out using the **System->Update software** menu. You should have a zip archive with the packages to be installed. It must be ensured that no relative paths are used in the archive. Then you can insert the archive into the input line via **Select file** and start the update procedure with **Upload**. The progress of update process is displayed:



wanzl Home Dashboard Status Konfiguration **System** WEAC Dateien Statistik wanzl Abmelden Deutsch

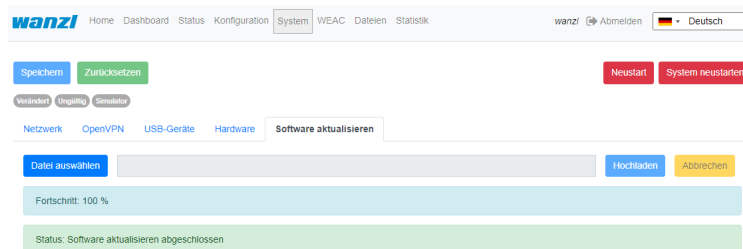
Speichern Zurücksetzen Neustart System neustarten

Verändert Ungültig Simulator

Netzwerk OpenVPN USB-Geräte Hardware **Software aktualisieren**

Fortschritt: 10 %

Status: Installing file 'chromium-kiosk_1.0.0-fmcu-2.2.5_aarch64.ipk' in progress. Attempt: 1



wanzl Home Dashboard Status Konfiguration **System** WEAC Dateien Statistik wanzl Abmelden Deutsch

Speichern Zurücksetzen Neustart System neustarten

Verändert Ungültig Simulator

Netzwerk OpenVPN USB-Geräte Hardware **Software aktualisieren**

Datei auswählen Hochladen Abbrechen

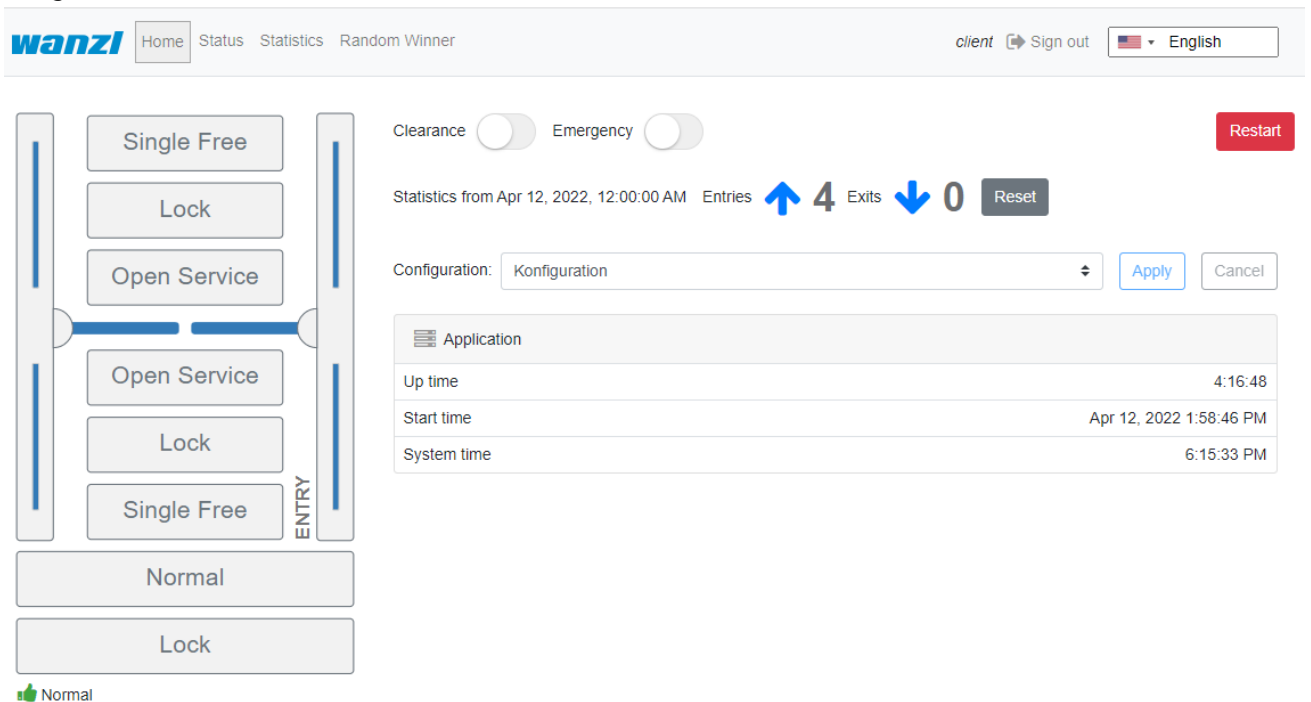
Fortschritt: 100 %

Status: Software aktualisieren abgeschlossen

If necessary, the application can be restarted.

Customer Role

When you log in as user *client*, a simplified interface appears with "Home", "Status", "Statistics" configuration menus.



wanzl Home Status Statistics Random Winner client Sign out English

Single Free Lock Open Service Open Service Lock Single Free **ENTRY**

Normal Lock

Clearance Emergency Restart

Statistics from Apr 12, 2022, 12:00:00 AM Entries 4 Exits 0 Reset

Configuration: Konfiguration Apply Cancel

Application	
Up time	4:16:48
Start time	Apr 12, 2022 1:58:46 PM
System time	6:15:33 PM

Normal

In this view you can administrate the access control, but you cannot make any configuration adjustments. The current statistics are displayed directly on the interface, a complete overview of the accesses can be viewed in the **Statistics** tab and exported if required. The current status of the individual access control components can be viewed in the **Status** tab. The **Clearance** option disables all alarms to make the cleaning staff's job easier. The **Emergency** option supports the user in opening the access control immediately.

Standard Assignment Connection Board

Unit 1

Port	Function	Description
LSU (E1)	LS Middle <i>Center Light barrier</i>	NO <i>Normally Open Contact</i>
LSV (E2)	LS Entry <i>Photocell Input</i>	NO <i>normally open contact</i>
E3	Open Entry <i>Single free entry direction Impuls 0,1-1,0 Sek.</i>	NO <i>Normally Open Contact</i>
E4	Open Exit <i>Single free exit direction Impuls 0,1-1,0 Sek.</i>	NO <i>normally open contact</i>
LSH (E5)	NA <i>not connected</i>	
E6	State bit 0 <i>Status bit 0</i>	NO <i>normally open contact</i>
E7	State bit 1 <i>Status bit 1</i>	NO <i>normally open contact</i>
E8	Fire Alarm <i>fire alarm system (BMA)</i>	NC <i>normally closed contact</i>
E9	Open Entry 70% <i>Einzelfrei 70% Input Direction Impuls 0,1-1,0 Sek.</i>	NO <i>normally open contact</i>
E10	Emergency Open Button <i>emergency button</i>	NC <i>normally closed contact</i>

A8	Entry Confirmation <i>Confirmation of passage entry direction Impuls 0,5 Sek.</i>	+12 VDC
A9	Exit Confirmation <i>Confirmation of passage exit direction Impuls 0,5 Sek.</i>	+12 VDC

Unit 2

Port	Function	Description
LSU (E1)	NA <i>not connected</i>	
LSV (E2)	NA <i>not connected</i>	
E3	Open Entry <i>Single free entry direction Impuls 0,1-1,0 Sek.</i>	NO <i>normally open contact</i>
E4	Open Exit <i>Single free exit direction Impuls 0,1-1,0 Sek.</i>	NO <i>normally open contact</i>
LSH (E5)	LS Exit <i>Photocell exit</i>	NO <i>normally open contact</i>
E6	State bit 2 <i>Status bit 2</i>	NO <i>normally open contact</i>
E7	State bit 3 <i>status bit 3</i>	NO <i>normally open contact</i>
E8	Fire Alarm <i>fire alarm system (BMA)</i>	NC <i>normally closed contact</i>
E9	Open Exit 70% <i>single free 70% exit direction Impuls 0,1-1,0 Sek.</i>	NO <i>normally open contact</i>
E10	Emergency Open Button <i>emergency button</i>	NC <i>normally closed contact</i>

A8	Alarm Impuls <i>Alarm Impuls 0,5 Sek.</i>	+12 VDC
A9	Gate State Error <i>error condition Durchgang</i>	+12 VDC

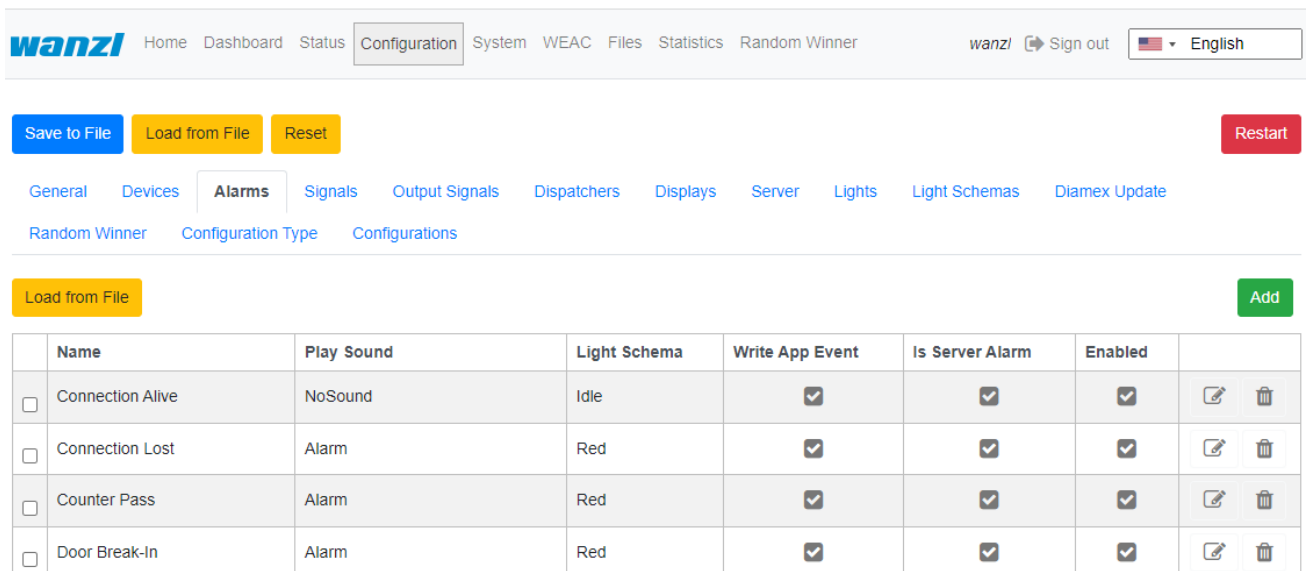
Status Bits

Status	Unit 1 E6	Unit 1 E7	Unit 2 E6	Unit 2 E7
	Bit 0	Bit 1	Bit 2	Bit 3
Normal <i>Normal</i>	0	0	0	0
Free Entry <i>Entrance permanently free</i>	1	0	0	0
Lock Entry <i>entrance blocked</i>	0	1	0	0
Service Entry <i>Permanently open entry direction</i>	1	1	0	0
Free Exit <i>Exit permanently free</i>	0	0	1	0
Free Entry/Exit <i>Input/Output permanently free(Not implemented)</i>	1	0	1	0
Lock Entry / Free Exit <i>Entrance blocked / exit permanently free</i>	0	1	1	0
tbd	1	1	1	0
Lock Exit <i>exit blocked</i>	0	0	0	1









Free Entry / Lock Exit				
<i>Entrance permanently free / exit blocked</i>	1	0	0	1
Lock				
<i>Gesperrt</i>	0	1	0	1
tbd	1	1	0	1
Service Exit				
<i>Permanently open exit direction</i>	0	0	1	1
tbd	1	0	1	1
tbd	0	1	1	1
Self Test				
<i>self test</i>	1	1	1	1

Alarms Definition

An alarm is triggered as a follow-up action from signals or other sources (e.g. devices). Navigate to "Configuration" -> "Alarms".



The screenshot shows the wanzl configuration interface. The navigation menu includes Home, Dashboard, Status, Configuration (selected), System, WEAC, Files, Statistics, and Random Winner. The user is signed out and the language is set to English. The main content area shows the Alarms configuration page with buttons for Save to File, Load from File, Reset, and Restart. The Alarms section is active, showing a list of alarms with columns for Name, Play Sound, Light Schema, Write App Event, Is Server Alarm, and Enabled. There are also edit and delete icons for each alarm.

	Name	Play Sound	Light Schema	Write App Event	Is Server Alarm	Enabled	
<input type="checkbox"/>	Connection Alive	NoSound	Idle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 
<input type="checkbox"/>	Connection Lost	Alarm	Red	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 
<input type="checkbox"/>	Counter Pass	Alarm	Red	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 
<input type="checkbox"/>	Door Break-In	Alarm	Red	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 

To create the alarm click on the "Add" button:

Save
Cancel

Alarm Name

Alarm ▼

Name *

Alarm Name

Enabled

Priority *

1000

Play Sound *

No Sound ▼

Sound Volume *

80

Re-Play Sound, ms *

0

Activate Output Signal

Light Schema

▼

An alarm has several general characteristics: Name, Enabled Status, Priority, Sounds settings, Light settings, etc.

In the table below there are descriptions of existing alarms.

Definition	Description	Status
Connection Alive	monitors connection to external application	on/off
Connection Lost	monitors connection to external application	on/off
Counter Pass	is set by anti-rotation protection is activated	on/off
Door Break-In	Door is forcibly moved when closed	on/off
Emergency	is set if the signals on unit 1 E8 or unit 2 E8 are not active (opener).	on/off
Fire Alarm	is set if the signals on unit 1 E10 or unit 2 E10 are not active (opener).	on/off
Invalid Ticket	is set if ticket validation fails	Impuls
	is set when an object is in the	

Motionless Object	gate area for more than a defined period of time and closing is prevented by a timeout.	on/off
No Alarm	is set if no alarm is defined for signals	on/off
Proceed Alarm	analogous to Motionless Object with a different time span and other actions without light indication	on/off
Server Alarm	is triggered in the FMCU server	on/off
Tailgating	is set if more than one person is in the gate area	on/off
Unauthorized Access	is set if a person is in the gate area when the gate is closed	on/off
Valid Ticket	is set if the ticket validation was successful (trigger beep)	Impuls

Signals

The information in this section is based on FMCU software v2.3.7 and WEAC version 32.14.

wanzl Home Dashboard Status **Configuration** System WEAC Files Statistics Random Winner
wanzl Sign out English

Save to File
Load from File
Reset

General
Devices
Alarms
Signals
Output Signals
Dispatchers
Displays
Server
Lights
Light Schemas
Diamex Update

Random Winner
Configuration Type
Configurations

Load from File
Add

#	Name	Gate side	Policy do open	Policy do close	Reject open	Alarm Type	Action Type	Enabled	
<input type="checkbox"/>	0 Anybody Light Bar [1-50]	NotSet	0	0	0		NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	1 Broken Device	NotSet	0	0	0		NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2 Counter Pass Watcher Program	NotSet	0	1	1	Counter Pass	NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	3 Disinfectant Dispenser	NotSet	0	0	0		NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	4 Disinfectant Dispenser Program	NotSet	0	0	1		NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	5 Door Break In Alarm	NotSet	0	0	0	Door Break-In	NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	6 Door Motor Low Speed	NotSet	0	0	0	Door Motor Low Speed	NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	7 Door Motor Over Current	NotSet	0	0	0	Door Motor Over Current	NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	8 Door Motor Over Speed	NotSet	0	0	0	Door Motor Over Speed	NoAction	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	9 Emergency Remote Entry	Entry	0	0	0	Emergency	Emergency	<input checked="" type="checkbox"/>	

System

The information in this section is based on FMCU software v2.6.14.

Network

wanzl Home Dashboard Status Configuration **System** WEAC Files Statistics Random Winner wanzl Sign out English

Restart Reboot System

Simulator

Network Hostname Hosts CA Certificates NTP nginx FMCU USB Devices Hardware Update Software

DHCP

MAC

b8:27:eb:ea:35:49

Address *

192.168.1.99

Netmask *

255.255.255.0

Gateway *

192.168.1.240

DNS server *

8.8.8.8

Save Reset

Hostname

wanzl Home Dashboard Status Configuration **System** WEAC Files Statistics Random Winner wanzl Sign out English

Restart Reboot System

Simulator

Network **Hostname** Hosts CA Certificates NTP nginx FMCU USB Devices Hardware Update Software

Hostname

fmcu

Save Cancel




Hosts

wanzl Home Dashboard Status Configuration System WEAC Files Statistics Random Winner wanzl Sign out English

Simulator Restart Reboot System

Network Hostname Hosts CA Certificates NTP nginx FMCU USB Devices Hardware Update Software

Add

IP Address	FQDN	
192.168.1.101	fmcu-slave.wanzl.local	  



CA Certificates

wanzl Home Dashboard Status Configuration System WEAC Files Statistics Random Winner wanzl Sign out English

Simulator Restart Reboot System

Network Hostname Hosts CA Certificates NTP nginx FMCU USB Devices Hardware Update Software

Add

Filename	
wanzl.local.root-ca.crt	 

NTP

wanzl Home Dashboard Status Configuration **System** WEAC Files Statistics Random Winner wanzl Sign out English

Simulator Restart Reboot System

Network Hostname Hosts CA Certificates **NTP** nginx FMCU USB Devices Hardware Update Software

ntpd-client ✔ Service is running Restart Stop

ntpd ✘ Service is stopped Start

Jul 11, 2023 2:37:27 PM

NTP servers

```
server 0.debian.pool.ntp.org iburst
server 1.debian.pool.ntp.org iburst
server 2.debian.pool.ntp.org iburst
server 3.debian.pool.ntp.org iburst
```

The host is an NTP server

Save Cancel

nginx

wanzl Home Dashboard Status Configuration **System** WEAC Files Statistics Random Winner wanzl Sign out English





Simulator Restart Reboot System

Network Hostname Hosts CA Certificates NTP **nginx** FMCU USB Devices Hardware Update Software

✔ Service is enabled Disable

✔ Service is running Restart Stop

Add

Enabled	Filename	Server Name	SSL	SSL Certificate	SSL Key	
<input type="checkbox"/>	fmcu-http.wanzl.local	\$hostname.wanzl.local	<input type="checkbox"/>			 
<input checked="" type="checkbox"/>	fmcu.wanzl.local	\$hostname.wanzl.local	<input checked="" type="checkbox"/>	wanzl.local.crt	wanzl.local.crt	 

FMCU

wanzl Home Dashboard Status Configuration **System** WEAC Files Statistics Random Winner wanzl Sign out English

Simulator Restart Reboot System

Network Hostname Hosts CA Certificates NTP nginx **FMCU** USB Devices Hardware Update Software

Service is running Restart

Port

8888

Port open

Use system CA certificates

Save Cancel

Light Schemas

To navigate the section click "Configuration" -> "Light Schemas". Here you can add and/or customize named color schemes.











wanzl Home Dashboard Status **Configuration** System WEAC Files Statistics Random Winner wanzl Sign out English

Save to File Load from File Reset

General Devices Alarms Signals Output Signals Dispatchers Displays Server Lights **Light Schemas** Diamex Update

Random Winner Configuration Type Configurations

Add

Name	Priority	Led Image Entry	Led Image Exit	Running Light	
Emergency	10000	Arrow	Arrow	<input type="checkbox"/>	 
Open Entry	10000	Cross	Cross	<input checked="" type="checkbox"/>	 
Entry And Exit	10000	Cross	Cross	<input checked="" type="checkbox"/>	 
Open Exit	10000	Cross	Cross	<input checked="" type="checkbox"/>	 
Free Entry	10000	Arrow	Cross	<input type="checkbox"/>	 

Each schema describes the colors and behaviour of FMCU lights elements like enter and exit zones and the door. Existing light schema you can use in settings of **Gates** and **Alarms**.

Click Add to create light schema or click "pen" in the table to edit existing schema.

Save
Cancel

Light Schema Name

Light Schema ▼

Name *

Light Schema Name

Priority *

10000

Color Entry On *

Color Exit On *

Color Door On *

Light Schema On, ms *

0

Light Schema Off, ms *

0

Color Entry Off *

Color Exit Off *

Each light schema is described by the fields below

Field	Description
Name	Name of light schema
Priority	Priority of using light schema if there is competition situation. Less value means more priority
Color Entry On	Color of the gate entry zone during "On" time period
Color Exit On	Color of the gate exit zone during "On" time period
Color Door On	Color of the doors during "On" time period
Light Schema On, ms *	Length of "On" time period in ms
Light Schema Off, ms *	Length of "Off" time period in ms
Color Entry Off	Color of the gate entry zone during "Off" time period
Color Exit Off	Color of the gate exit zone during "Off" time period
Color Door Off	Color of the doors during "Off" time period
Led Image Entry *	Selected image of the gate entry zone (Arrow, Cross, Empty)
Led Image Exit *	Selected image of the gate exit zone (Arrow, Cross, Empty)

Running Light	Using "runing light" for the light schema (option)
---------------	--

Click on any field for color to edit color of selected gate element

Light Schema Name

Name *

Priority *

Color Entry On *



34 60 191
R G B

You can select the color space (RGB, HSL, HEX) to set the required color



#223CBF

HEX ↕

Lights



To navigate the section click "Configuration" -> "Lights". Here you can add and/or customize light configurations for different gate's modes.

wanzi Home Dashboard Status **Configuration** System WEAC Files Statistics Random Winner wanzi Sign out English

Save to File Load from File Reset

General Devices Alarms Signals Output Signals Dispatchers Displays Server **Lights** Light Schemas Diamex Update

Random Winner Configuration Type Configurations

Name	Normal	Off	Locked	Locked Entry	Locked Exit	Free Entry	Free Exit	Open Entry	Open Exit	Service Entry	Service Exit	Terminated	WEAC	Winner	
Default	Idle	Off	Locked	Locked Entry	Locked Exit	Free Entry	Free Exit	Open Entry	Open Exit	Service Entry	Service Exit	Terminated	Weac	Winner	 

Each configuration has its own name. The image above shows the default light configuration. Click *Add* to create configuration, or "pen" to edit existing one.

Save Cancel 1 / 1

Default (default_light_mode_configuration)

Light Mode Configuration

Name *

Default

Normal

Idle

- Emergency
- Open Entry
- Entry And Exit
- Open Exit
- Free Entry
- Free Exit
- Idle
- Locked Entry
- Locked Exit
- Locked
- Manual Mode
- Off
- Out Of Order
- Red

For each mode select existing light schema.

Then you can use the light configuration in "Devices" -> "Gates" settings.


wanzi Home Dashboard Status Configuration System WEAC Files Statistics Random Winner wanzi Sign out English

Save to File Load from File Reset

General **Devices** Alarms Signals Output Signals Dispatchers Displays Server Lights Light Schemas Diamex Update

Random Winner Configuration Type Configurations

Gates Light bars Audio players Slave FMCUs GPIO LED players USB Hubs Photo camera Xovis Cameras Readers

Name	Class	Port	Turnstile ID	
Gate	GalaxyGate (Modbus TCP)			

Press "pen" to edit gate settings, and select light configuration.

Is firmware version strict



Entry\Exit Light Disable



Gate Light Schema *

Default

Unit 1 is Galaxy Port



Unit 2 is Galaxy Port



Technical Background

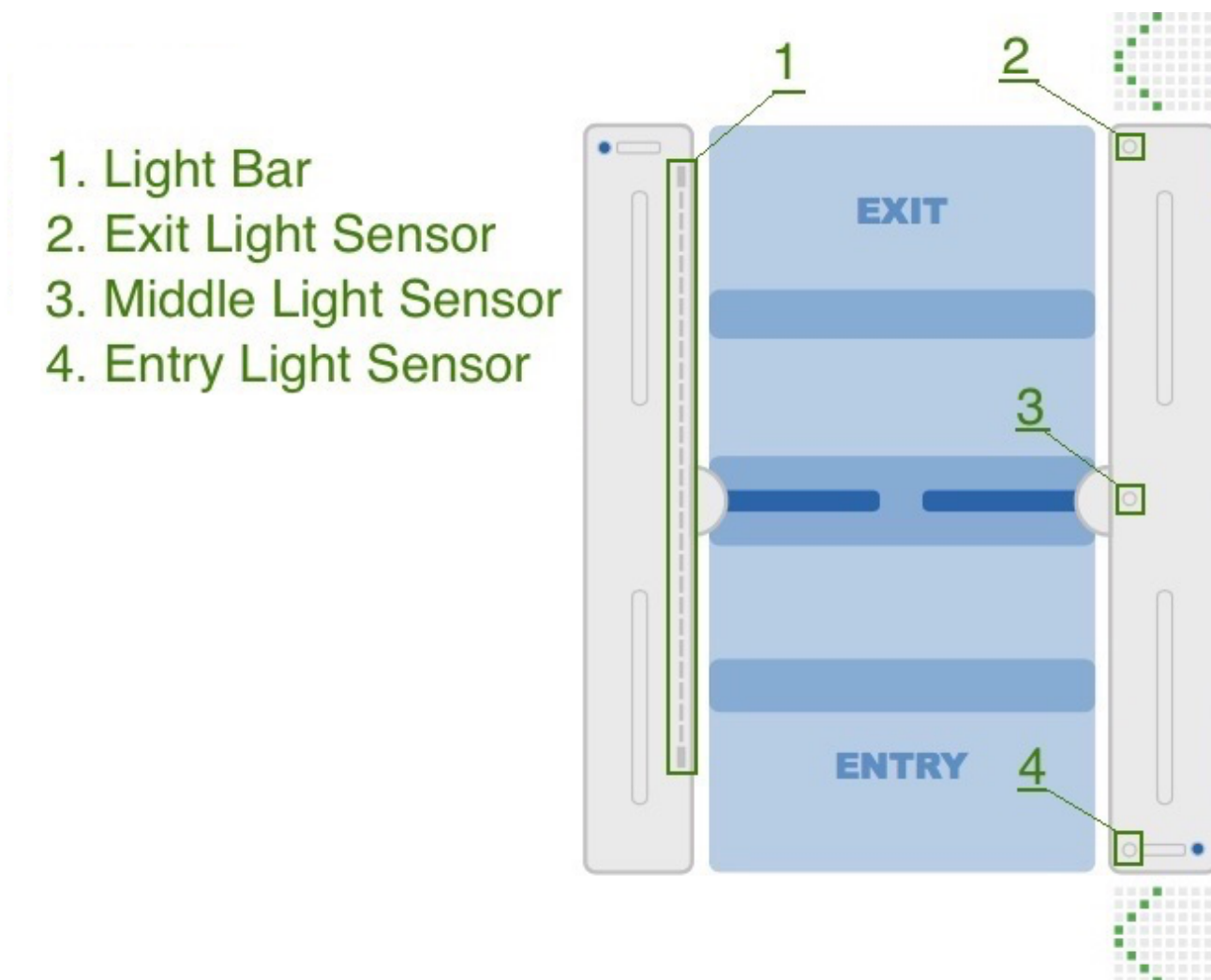
The **FMCU** software is based on a customized UNIX operating system, which has been produced using the [Yocto Project](#). Only the required services are activated in the operating system. The optimal support packages for the CPU type are taken into account when creating the operating system. These so-called **B**oard **S**upport **P**ackages (BSP) are provided by the hardware manufacturers and allow optimal and efficient utilization of the hardware resources.

Functions

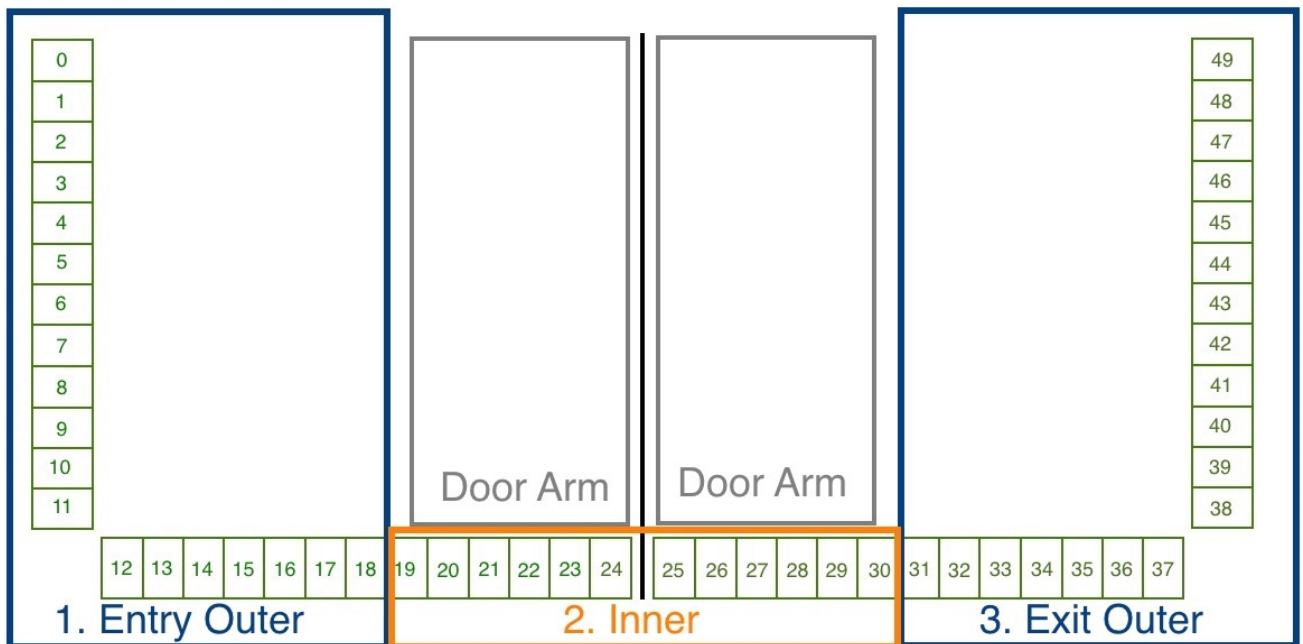
In principle, the functions are mapped via the signal processing. The signals are generated by different sources including:

- Light bar
- Light sensor
- Ceiling sensor
- Other

The location of the sensors is shown in the figure below. In each half of the frame there is a so-called "inner zone" and an "outer zone". When passing through an access control, a signal flow diagram is generated, which is used to map the following functions.



The light bar serves as a source for several signals and is also divided into different areas.



The following signals are installed in the standard configuration.

Signal Name	Frame Half
Entry Confirmation	Entry
Entry Gate Sensor [U1_E2]	Entry
Entry Outer LightBar	Entry
Exit Inner LightBar	Entry
Free Entry [1000]	Entry
Lock Entry [0100]	Entry
Open Entry [U1_U2_E3]	Entry
Open Entry 70% [U1_E9]	Entry
Remote Open Entry	Entry
Service Entry [1100]	Entry
Emergency Remote	Exit
Emergency [U1_U2_E8]	Exit
Entry Inner LightBar	Exit
Exit Confirmation	Exit
Exit Gate Sensor [U2_E5]	Exit
Exit Outer LightBar	Exit
Free Exit [0010]	Exit
Lock Exit [0001]	Exit
Open Exit [U1_U2_E4]	Exit
Open Exit 70% [U2_E9]	Exit

Remote Open Exit	Exit
Service Exit [0011]	Exit

Closing-run at reduced Speed

This function applies to signals that have the property **CloseGate > 0**. For the affected signals, the value **Close gate speed, % *** must be defined with a value between 10 and 100%. It is therefore possible to define appropriate closing speeds for different passage scenarios. The default value is set to 100%. In the standard configuration, the following signals meet this requirement.

Signal	Parameter	Value
Tailgating watcher	Close gate speed, % *	100%
Entry Gate Sensor [U1_E2]	Close gate speed, % *	100%
Exit Gate Sensor [U2_E5]	Close gate speed, % *	100%
Entry Outer LightBar	Close gate speed, % *	100%
Exit Outer LightBar Exit	Close gate speed, % *	100%

Passage Confirmation

This function sets an impulse with an adjustable duration in the connection board for connection **A8**.

Suitcase Trolley Detection

This function is active when the listed parameters are set for the following signals. It means that a person with a suitcase being pulled behind them can pass through prematurely closing swing doors without being disturbed.

Signal	Parameter	Value
Middle Gate Sensor [U1_E1]	Protect from force close	true
Inner LightBar	Protect from force close	true

Multiple Opening

This function is only valid if a reader has been set up for the entry direction. It means that several people can pass through the entrance in a row without the swing door being closed in the meantime. Each person must present a ticket at the card reader at the entrance. The swing doors only remain open if the validation is successful. This function is active when the listed parameters are set for the following signals.

Signal	Parameter	Value
Middle Gate Sensor [U1_E1]	Protect from force close	true
Inner LightBar	Protect from force close	true
Entry Outer LightBar	Protect from force close	true
Entry Gate Sensor [U1_E2]	Protect from force close	true

Tailgating watcher	Activated	false
--------------------	-----------	-------

Tips for Working

If you have lost the overview when configuring the signals, you can use the function

Reset to Default

[Reset to Default](#)

restore a defined initial state.

NOTE

If you use the "Rest to Default" function, the current settings will be lost. If necessary, you can export the current configuration before this step.

Verwandte Themen



- [Galaxy Gate Bedienungsanleitung](#)
- [Beschreibung zentrales Dashboard](#)
- [Galaxy Gate Inbetriebnahme](#)
- [Applikationsserver Zutrittskontrollen](#)
- [Zutrittskontrollen Checkliste IT Infrastruktur](#)