

# Gate ~ FMCU ~ management dashboard/en

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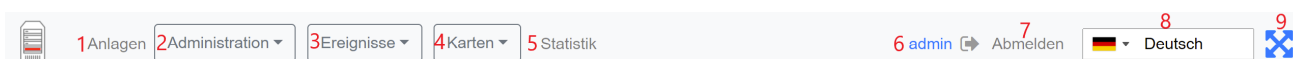
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## General

The Wanzl Access Manager offers a central dashbaord for access controls in a homogeneous interface, displays the corresponding states and supports the user in the administration of these components. The Wanzl Access Manager is a leading platform for monitoring and managing access controls of security areas.

## Headline



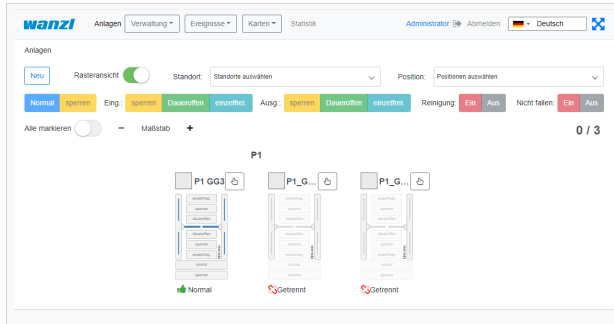
Number	Function
1	Button Management Dashboard
2	Administration
3	Events Button
4	Cards Button
5	Statistics Button
6	Logged in User
7	Log out Button
8	Languages menu
9	Adjust the display to entire width of the screen

## Menu items

### Gates

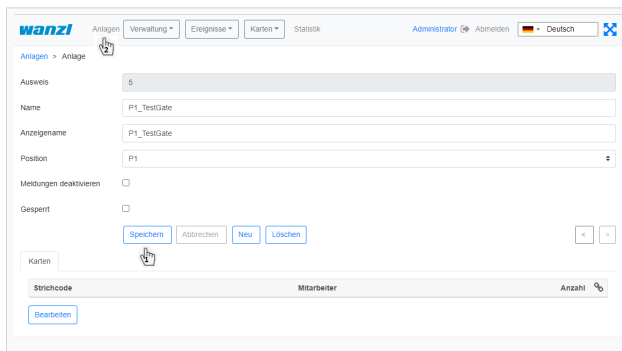
`https://<dns-name or ip-address>/gates`

In this view, all access controls are shown in an intuitive interface. There are grouping options in two categories. First of all, you can group by **location**. You can then combine different **positions** within the location. Individual gates can be added using the "**New**" menu item.

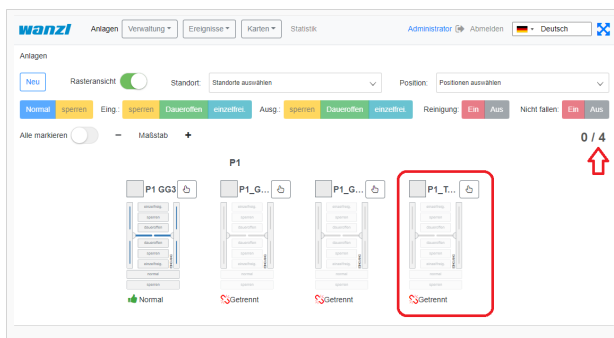


## Set up a new Gate

In this view you create a **new** gate. The fields **names**, **displayed name** and **Position** of the Gate must be verified with values. Then click on Attachments.



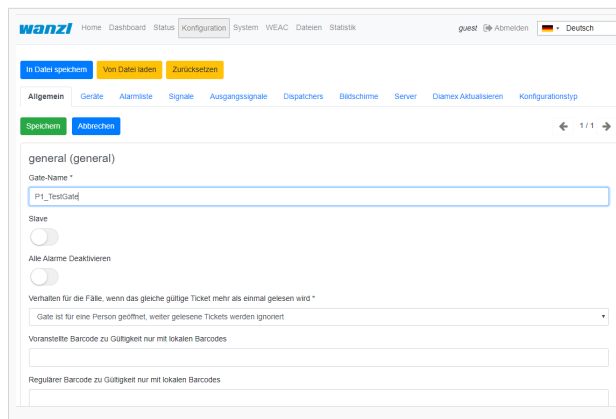
You can now see in the view that you have created a **NEW** gate, in this case the fourth gate in this view.



In the next step you connect the gate to the server.

<https://<IP-Adresse des Dashboards>>

To do this, check on the **General** tab that the correct gate name has been entered.



The screenshot shows the 'general' configuration page for a gate. The 'Gate-Name' field is filled with 'P1\_testGate'. There are several toggle switches for 'Slave' and 'Alle Alarme Deaktivieren'. Below these are dropdown menus for handling tickets and barcode options.

Then check the following points on the **Server** tab.

Server#0 (server)- must be set to remote.

Activated slide-switch is activated.

Your server should be entered under Name\*.

Your URL should be entered under URL\*.

Gate should be entered under Username\*.

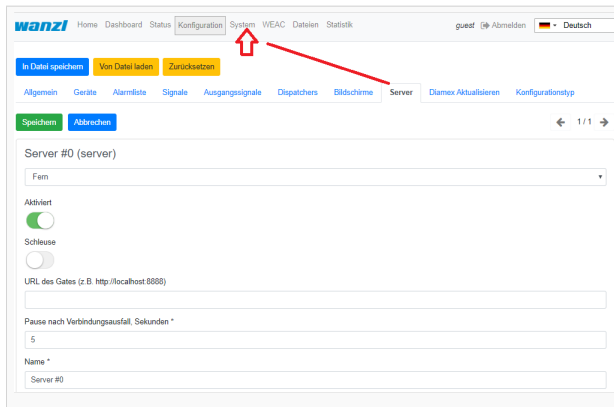
Your password should be entered under Password\*.

**Save** at the end.

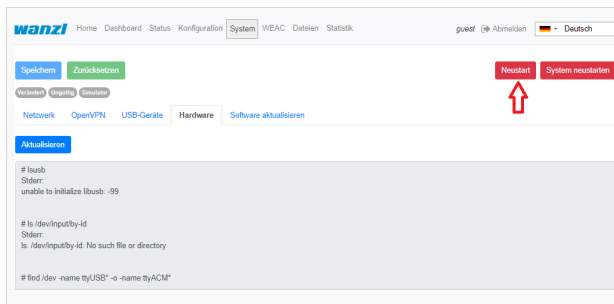


The screenshot shows the 'Server #0 (server)' configuration page. The 'Fern' dropdown is set to 'Fern'. The 'Aktiviert' toggle is turned on. The 'URL des Gates' field is empty. The 'Name' field contains 'Server #0'. The 'URL' field contains 'https://192.168.1.100'. The 'Benutzername' field contains 'gate'. The 'Passwort' field contains '123456789'. The 'Statistisch synchronisierte Messengröße' field contains '100'.

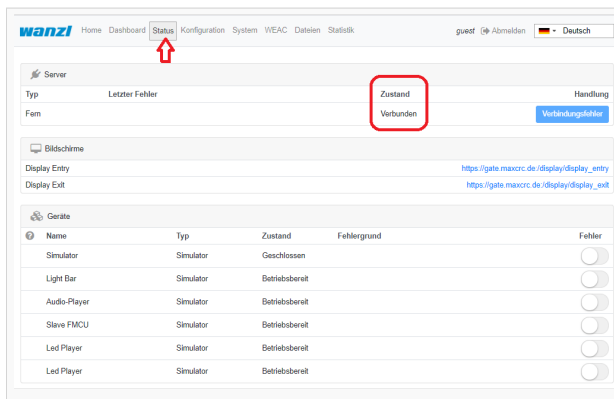
In the next step, please click on System in the top bar.



You will now see the following display, here please press restart once. Now your new gate should be connected.



Finally, you can check the connection in the **Status** tab. **CONNECTED** must now appear under State.



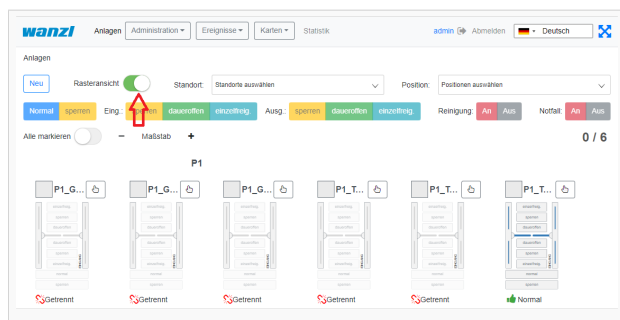
## Edit existing Gate

<https://<dns-name or ip-address>/gates>

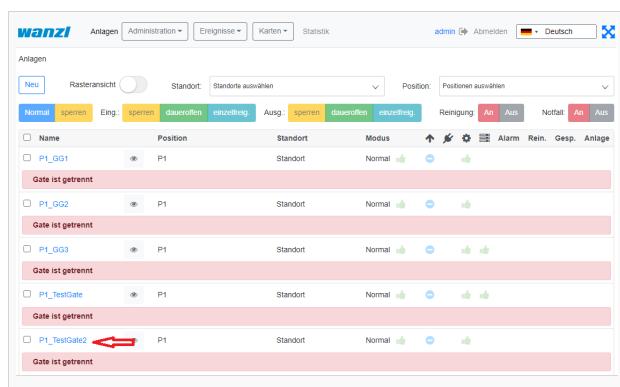
## Gate ~ FMCU ~ management dashboard/en

You are in the same view as where you would create a new gate.

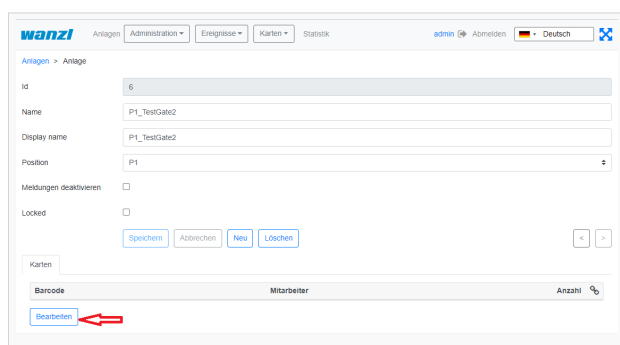
Please move the slide switch "Grid view" to the left.



In the view click on the name of the gate which you want to edit (in the example P1\_TestGate2).



In this view, please press the "Edit" function.



You can now edit the gate in this view.

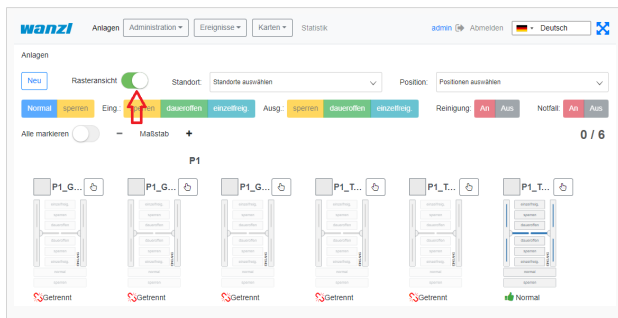


## Remove Gate

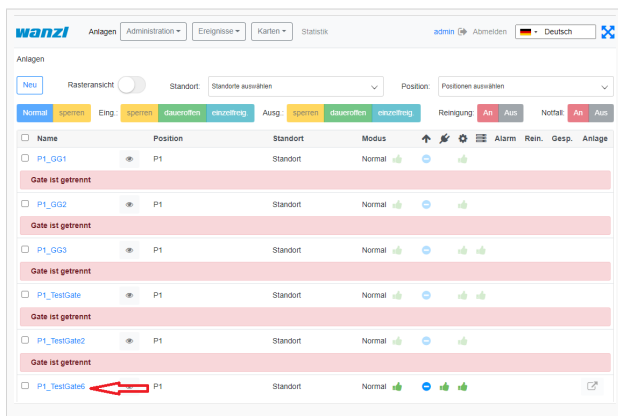
`https://<dns-name or ip-address>/gates`

You are in the same view as where you would create a new gate.

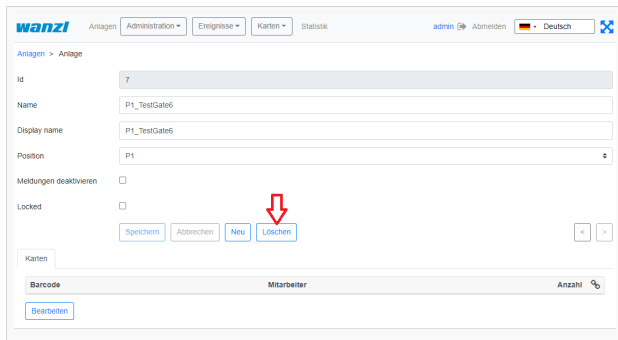
Please move the slide switch "Grid view" to the left.



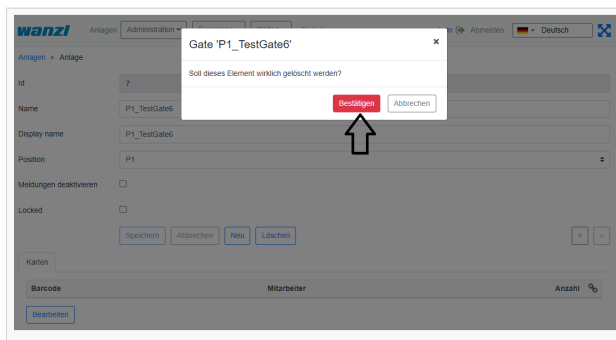
In the view click on the name of the gate which you want to delete (in the example P1\_TestGate6).



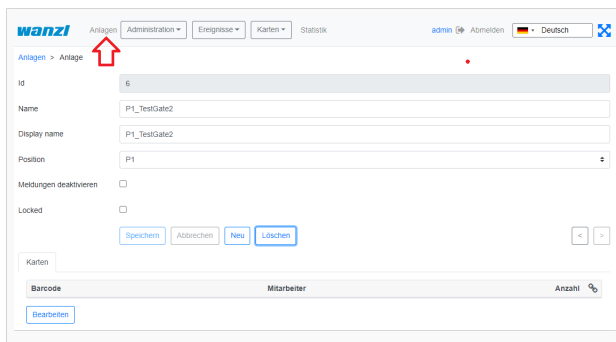
In this view, please press the "Delete" function.



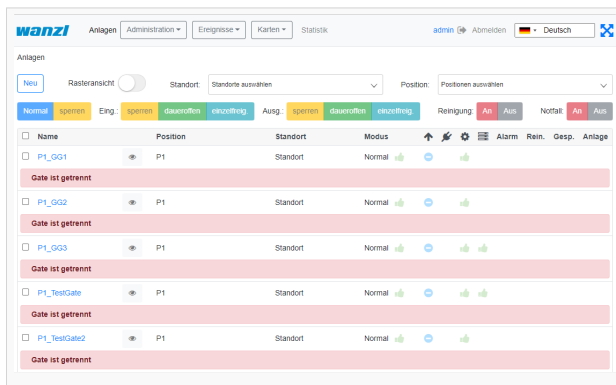
To be on the safe side, you will now be asked again whether you really want to delete the element? Please confirm this.



After deleting, you will automatically be shown the next gate (here in the example P1\_TestGate2). Please click on attachments here.



You will then see in the grid view that Gate P1\_TestGate6 is missing and has been successfully deleted.



## Administration

### User

`https://<dns-name or ip-address>/users`

Auf dieser Seite sehen Sie eine Übersicht aller Benutzer


 Anlagen
 Administration ▾
Ereignisse ▾
Karten ▾
Statistik

 Abmelden
 
 Deutsch
 

Benutzer

**1** Neu

Standort: Standorte auswählen **2** ▾

Position: Positionen auswählen **3** ▾

Benutzername
Vorname
Nachname
Standorte & Positionen
Gruppen
Super.
Gesp.
Löschen

Nummer	Funktion
1	Neuen Benutzer anlegen
2	Benutzer nach Standort filtern
3	Benutzer nach Position filtern

## Set up new User

Klicken Sie unter [Benutzer](#) auf den Button **Neu**

`https://<dns-name or ip-address>/new-user`

[Benutzer](#) > Neuer Benutzer

Id   
 Benutzername   
 Passwort   
 Bestätige das Passwort   
 Email   
 Vorname   
 Nachname   
 Info   
 Superuser   
 Locked   
 Meldungen deaktivieren

[Ereignisbenachrichtigungen](#)
[Standorte & Positionen](#)
[Gruppen](#)
[Berechtigungen](#)

Name	Info	Kategorie	Ausgewählt
Feldname	Beschreibung		
Id	Automatisch generierte eindeutige Nummer des Benutzers		

Benutzername*	Benutzername des Benutzers für die Anmeldung
Passwort*	Passwort des Benutzers für die Anmeldung
Email	Email Adresse des Benutzers zum Versand von Log Nachrichten
Vorname	Vorname des Benutzers
Nachname	Nachname des Benutzers
Info	Beschreibung des Benutzers
Superuser	Die höchsten Rechte werden dem Benutzer vergeben
Locked	Die Anmeldung des Benutzers ist gesperrt
Meldungen deaktivieren	Der Benutzer erhält keine Benachrichtigungen im FMCU Management Dashboard

\* Unbedingt erforderliche Felder Durch den Button **Speichern** wird der neue Benutzer angelegt.

## Edit existing User

---

Klicken Sie unter [Benutzer](#) auf den zu bearbeitenden Benutzer

## Event Notifications

---

Unter diesem Reiter können die Benachrichtigungen ausgewählt werden welcher der Benutzer erhalten soll.  
**Hinweis:** Ist die Checkbox **Meldungen deaktivieren** gesetzt werden unabhängig von diesen Einstellungen keine Benachrichtigungen angezeigt.

## Locations & Positions Tab

---

Man kann unterschiedliche Standorte in Länder und Städte festlegen. Über das Berechtigungsmodell lassen sich separate Zugriffsrechte für jeden Standort definieren.

## Groups Tab

---

Unter diesem Reiter können Sie die Gruppenmitgliedschaften des Benutzers anpassen.

## Permissions Tab

---

Unter diesem Reiter werden die Berechtigungen des Benutzers angezeigt  
Durch den Button **Speichern** werden alle Änderungen angewendet.

## Groups

<https://<dns-name or ip-address>/groups>

Auf dieser Seite sehen Sie eine Übersicht aller Gruppen

 Anlagen Administration ▾ Ereignisse ▾ Karten ▾ Statistik admin  Abmelden  Deutsch 

Gruppen

Neu

Name	Info	Löschen
<a href="#">manager</a>		
<a href="#">user</a>		
<a href="#">gate</a>		
<a href="#">alarm_notifications</a>		

## Set up new Group

<https://<dns-name or ip-address>/new-group>

Klicken Sie unter [Gruppen](#) auf den Button **Neu**

 Anlagen Administration ▾ Ereignisse ▾ Karten ▾ Statistik admin  Abmelden  Deutsch 

[Gruppen](#) > Neu Gruppe

Id

Name

Info

Benutzer [Berechtigungen](#)

Benutzername	Email	Vorname	Nachname	Info
<input type="button" value="Bearbeiten"/>				

Feldname	Beschreibung
----------	--------------

Id	Automatisch generierte eindeutige Nummer der Gruppe
Name	Name der Gruppe
Info	Beschreibung der Gruppe

\* Unbedingt erforderliche Felder

Durch den Button **Speichern** wird die neue Gruppe angelegt.

## Edit existing Group

---

Klicken Sie unter [Gruppen](#) auf die zu bearbeitende Gruppe

## Users tab

---

Unter diesem Reiter können Sie die Mitglieder der Gruppe anpassen.

## Permissions tab

---

Unter diesem Reiter werden die Berechtigungen angezeigt welche den Mitgliedern der Gruppe vererbt werden.

Durch den Button **Speichern** werden alle Änderungen angewendet.

## Positions

---

```
https://<dns-name or ip-address>/cities
```

Auf dieser Seite sehen Sie eine Übersicht aller Positionen

## Set up new Position

---

```
https://<dns-name or ip-address>/new-city
```

Klicken Sie unter [Positionen](#) auf den Button **Neu** Geben Sie den Namen der Position ein und ordnen Sie die Position mit dem Dropdown Feld einem Standort zu. Klicken Sie auf den Button **Speichern** um die Position anzulegen

## Edit existing Position

---

Klicken Sie unter [Positionen](#) auf die zu bearbeitende Position  
Hier können Sie die den Namen und den Standort der Position bearbeiten

## Locations

---

`https://<dns-name or ip-address>/countries`

Auf dieser Seite sehen Sie eine Übersicht aller Standorte

## Set up new Location

---

`https://<dns-name or ip-address>/new-country`

Klicken Sie unter [Standorte](#) auf den Button **Neu**

Feldname	Beschreibung
Id	Automatisch generierte eindeutige Nummer des Standorts
Name*	Name des Standorts
Code*	Ländercode des Standorts
Info	Beschreibung des Standorts

\* Unbedingt erforderliche Felder

Klicken Sie auf den Button **Speichern** um die Position anzulegen

## Edit existing Location

---

Under [Location](#) Under Location, click the location you want to edit  
Hier können Sie die den Namen, den Code sowie die Info des Standorts bearbeiten

## Locations & Positions

---

`https://<dns-name or ip-address>/locations`

Here you can see an overview of all positions and their assigned locations

## Configuration

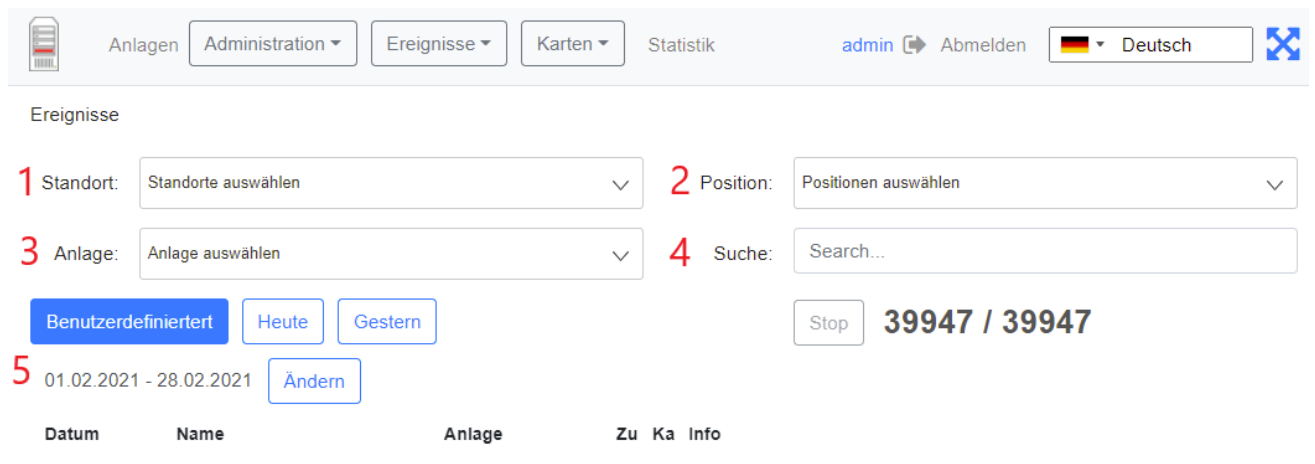
<https://<dns-name or ip-address>/configurations>

## Events

### Events

<https://<dns-name or ip-address>/events>

In this view, the events of all access controls are shown in an intuitive list view. There are filtering options and a name search for the events.



The screenshot shows the 'Events' management interface. At the top, there is a navigation bar with tabs for 'Anlagen', 'Administration', 'Ereignisse', 'Karten', and 'Statistik'. The 'Ereignisse' tab is active. On the right, there is a user profile 'admin', a language selector set to 'Deutsch', and a 'Abmelden' button. Below the navigation bar, the 'Ereignisse' section contains several filters: 'Standort' (1), 'Position' (2), 'Anlage' (3), and 'Suche' (4). There are also buttons for 'Benutzerdefiniert', 'Heute', 'Gestern', and 'Ändern'. A 'Stop' button and a counter '39947 / 39947' are also visible. At the bottom, a table header is shown with columns: 'Datum', 'Name', 'Anlage', 'Zu', 'Ka', and 'Info'.



The following filters can be set:



1. Location
2. Position
3. Factory
4. Search by Event name
5. Time Period

## Event Definitions

<https://<dns-name or ip-address>/event-definitions>

In this view, all events that the FMCU contains are listed and their event definition groups, supported states and categories are assigned.


 Anlagen
 Administration ▾
Ereignisse ▾
Karten ▾
Statistik
admin  Abmelden

 Deutsch
 

Ereignisdefinitionen



Name	Ereignisdefinitionsgruppen	Unterstützte Zustände	Kategorie
------	----------------------------	-----------------------	-----------

## Event definition Groups

`https://<dns-name or ip-address>/event-definition-groups`


All event definition groups are listed under this tab.


 Anlagen
 Administration ▾
Ereignisse ▾
Karten ▾
Statistik
admin  Abmelden

 Deutsch
 



Ereignisdefinitionsgruppen



[Neu](#)

Name	Ereignisse	Info	Löschen
<a href="#">Alarm events</a>	ServerGateDevicesFailed ServerGateAllDevicesOperational GateUnauthorizedAccess GateStateFireAlarm GateDoorIsBeeingBroken		

## Create a new event definition group

Click [Event defenition groups](#) on the Button **New**


 Anlagen
 Administration ▾
Ereignisse ▾
Karten ▾
Statistik
admin  Abmelden

 Deutsch
 

[Ereignisdefinitionsgruppen](#) > New Event Definition Group

Id   
 Name   
 Info

[Speichern](#)
[Abbrechen](#)
[Neu](#)
[Löschen](#)

Ereignisdefinitionen

Name	Info	Kategorie	Ausgewählt
Fieldname	Description		

ID	Automatically generated unique group number
Name	Name of the group
Info	Group description

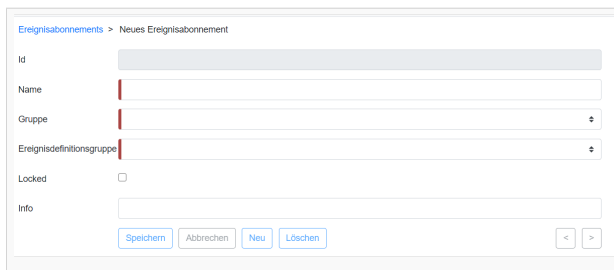
\* Absolutely required fields

Under the **Event definition** tab select the event definitions that are to be assigned to the group.

## Event Subscriptions

<https://<dns-name or ip-address>/event-subscriptions>

There is the possibility to link groups of alarm messages with groups of users. As a result, only group members are notified of alarm messages that are also grouped,

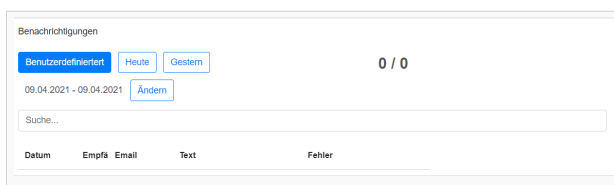


Fieldname	Description
ID	internal value
Group	Summary of users
Ereignisdefinitionsgruppe	Event definition group
Locked	Notifications deactivated/activated
Info	Description field

## Notifications

<https://<dns-name or ip-address>/notifications>

Sent notifications are displayed in this overview. You can adjust the view accordingly using a date filter.

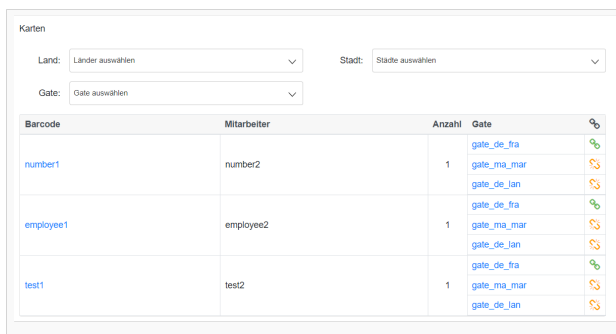


## Cards

### Cards

<https://<dns-name or ip-address>/cards>

This view shows an overview of the RFID cards in the system with the gates enabled for access.

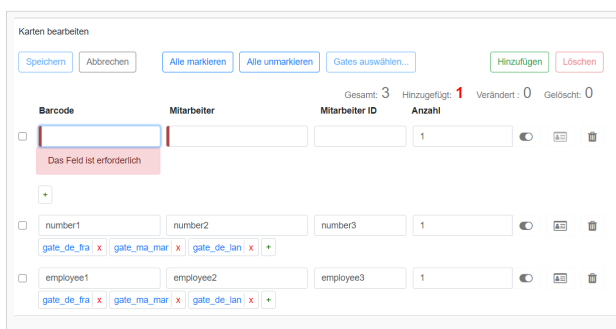


Barcode	Mitarbeiter	Anzahl	Gate
number1	number2	1	gate_de_fra gate_ma_mar gate_de_lan
employee1	employee2	1	gate_ma_mar gate_de_lan gate_de_fra
test1	test2	1	gate_ma_mar gate_de_lan

### Edit Cards

<https://<dns-name or ip-address>/cards-edit>

In this view, cards can be added / removed and authorizations for individual gates can be defined.

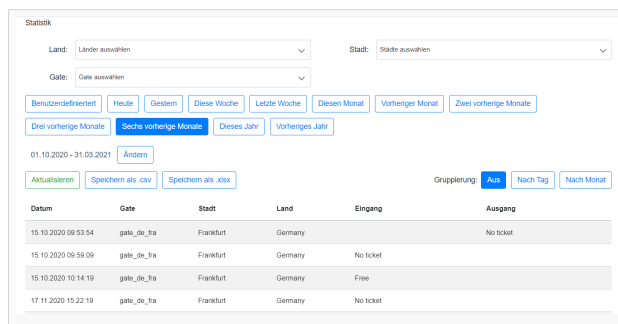


Barcode	Mitarbeiter	Mitarbeiter ID	Anzahl
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="1"/>
number1	number2	number3	1
employee1	employee2	employee3	1

Field	Description
Barcode	Card content that is captured by the reader
Employee	Description field
Employee ID	Description field
Quantity	Number of accesses for this card

## Statistics

In this view, all activities for the assigned access controls are shown. You can adjust the view with date filters. It is possible to group the screen output, e.g. only to evaluate the number per day or month. Finally, the data can be exported in Excel format or CSV-format.



Statistik

Land:  Stadt:

Gate:

01.10.2020 - 31.03.2021

Gruppierung:

Datum	Gate	Stadt	Land	Eingang	Ausgang
15.10.2020 09:53:54	gate_de_Ita	Frankfurt	Germany		No ticket
15.10.2020 09:59:09	gate_de_Ita	Frankfurt	Germany	No ticket	
15.10.2020 10:14:19	gate_de_Ita	Frankfurt	Germany	Free	
17.11.2020 15:22:19	gate_de_Ita	Frankfurt	Germany	No ticket	

## Connectivity Board

Contact	Type	Impulse	Description
<b>A8</b>	Output	Yes (500 ms)	Person has entered
<b>A9</b>	Output	Yes (500 ms)	Alarms*
<b>E3</b>	Input	Yes (500 ms)	Open Entry
<b>E4</b>	Input	Yes (500 ms)	Open Exit
<b>E6</b>	Input	Yes (200ms)	Card is valid, open the gate
<b>E7</b>	Input	Yes (200ms)	Card is invalid, do not open the gate
<b>E8</b>	Input	No	Emergency State button**
<b>E9</b>	Input	Yes (500 ms)	Open Entry 70%
<b>E10</b>	Input	No	Fire Alarm

\*A9 Alarms:

- Gate is out of order, when a mandatory device is broken or a connection to the server is broken (if the server is used in the solution).
- Tailgating or other unwanted actions.
- Entry barcode scanner is broken or it is a stub.
- Gate in in the **Fire Alarm** or **Emergency** state. The alarm is produces as a repetitive pulse signal (700ms).

- Gate is open only for exit.

After the Emergency State button pressed, the gate switches to the Emergency State. Then only exit from this state is to restart the gate.

The signal can be set/received to/from a contact from any of the halves of the gate.

## Configuration Management

### User Interface

The Galaxy Gate is configured through the **/configuration** page. If the server is running at 192.168.1.221 and port is 8888, the url is:

<http://192.168.1.221/configuration>

There are two buttons on the page:

Name	Description	Action
<b>Save</b>	Saves the modified configuration to the server	Post
<b>Reset</b>	Discards any changes by reloading the configuration from the server	Get

The configuration is split into sections and subsections:

- General
  - Dispatcher
  - Miscellaneous
- Devices
  - Barcode Reader Entry
  - Barcode Reader Exit
  - Gate
  - Tracking Camera
  - Audio Player
  - Camera
- Displays
  - Display Gate Entry
  - Display Gate Exit
  - Display Entry
  - Display Exit
  - Display TimeInfo

Here are some screenshots:

General
<b>Dispatcher</b>
Type
<input type="text" value="dispatcher_odoo_superfly"/>
Host *
<input type="text" value="192.168.1.221"/>
Port *
<input type="text" value="8069"/>
Protocol
<input type="text" value="http"/>
Password *
<input type="text" value="pass"/>
Poll Interval, seconds *
<input type="text" value="120"/>
No Connection Audio Message Timespan, seconds *
<input type="text" value="300"/>
No Connection Audio Message Count *
<input type="text" value="4"/>
<b>Miscellaneous</b>
Ticket Policy
<input type="text" value="Barcode"/>
Websocket Protocol
<input type="text" value="ws"/>
Gate Role
<input type="text" value="Left"/>

Devices

<b>Barcode Reader Entry</b>	<b>Barcode Reader Exit</b>
Type <input type="text" value="barcode_scanner_rfid"/>	Type <input type="text" value="barcode_scanner_magellan"/>
Instance Name* <input type="text" value="Barcode Scanner Entry"/>	Instance Name* <input type="text" value="Barcode Scanner Exit"/>
Read card not often than, ms* <input type="text" value="1000"/>	Read card not often than, ms* <input type="text" value="1000"/>
Port* <input type="text" value="/dev/ttyUSB2"/>	Port* <input type="text" value="/dev/ttyUSB3"/>
Beep Enabled <input type="checkbox"/> OFF	
<b>Gate</b>	
Type <input type="text" value="gate_galaxy_modbus"/>	
Port* <input type="text" value="/dev/ttyUSB0"/>	
Timeout, ms* <input type="text" value="500"/>	
Baud rate* <input type="text" value="115200"/>	
Reverse <input type="checkbox"/> OFF	
Timeout Count* <input type="text" value="2"/>	
Timespan Before Audio Message, seconds* <input type="text" value="10"/>	

**Audio Player**

Type

Host Ip Address \*

Sonos Ip Addresses, separated by a comma \*

Volume, % \*

**Camera**

Type

Uri \*

User \*

Password \*

Delay On Enter, ms \*

Delay On Exit, ms \*

Disabled

**Tracking Camera**

Type

tracking\_camera\_xovis

Host\*

10.122.21.21

Port\*

80

Protocol

http

Password\*

pass

Entry Line\*

EnterLine

Exit Line\*

ExitLine

Inner Entry Zone\*

EnterDangerZone

Inner Exit Zone\*

ExitDangerZone

Outer Entry Zone\*

EnterZone

Outer Exit Zone\*

ExitZone

Displays

<input checked="" type="checkbox"/> <b>Display Gate Entry</b>	<input checked="" type="checkbox"/> <b>Display Gate Exit</b>
Content Module <input type="text" value="trade_fair"/>	Content Module <input type="text" value="default"/>
Rotate 90 Grad <input type="checkbox"/> OFF	Rotate 90 Grad <input type="checkbox"/> OFF
<input checked="" type="checkbox"/> <b>Display Entry</b>	<input checked="" type="checkbox"/> <b>Display Exit</b>
Show Video <input type="checkbox"/> OFF	Show Video <input type="checkbox"/> OFF
<input checked="" type="checkbox"/> <b>Display Time Info</b>	

Facility Management Control Unit (v2.4-88-gf5bd36c-dirty)

A subsection is often has a structure with a combo box named **Type** at the top and some fields that follow. This structure is used for configuring an entity that can have several implementations. What is important is that the implementation can differ in type and number of controls. For example, a simulator of the gate has only two properties:

**Gate**

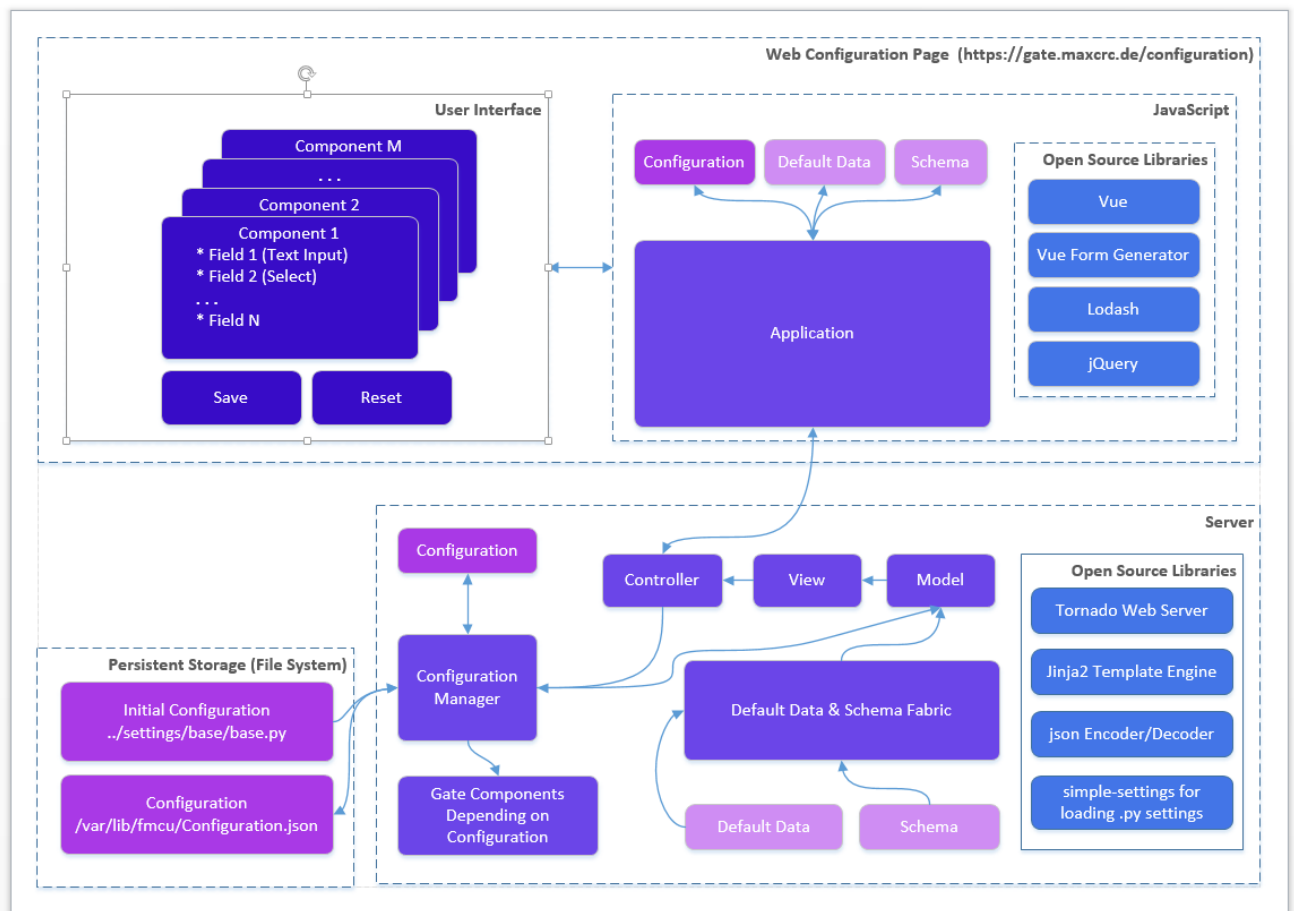
Type

Timeout Count\*

Timespan Before Audio Message, seconds\*

## Architecture

The picture below gives a bird's eye view of the configuration management.



When the gate starts and the Configuration.json is present it is created from the Initial Configuration (base.py or other .py configuration file). The Schema contains a set of data for describing controls in form components:

- Which controls should contain a component
- Validations rules if any

E.g. a form component can contain a text box and an input for integers. The data range for integer should 1-100.

The Default Data contains the initial data for controls in form components.

Edit this section

## Roadmap

The features are planned for the upcoming release:

- Configurations page allows you to see the list of available configurations. You can:
  - Clone an existing configuration to a new one
  - Delete a configuration
  - Make a configuration active. Only one configuration can be used by the server and it is called *active*.

- Apply button. This should apply changes on-the-fly.
- Restart button. This should restart the docker container and apply settings, which cannot be applied on-the-fly.
- Extend the vue form generator library:
  - Make the switch control consistent with the switch controls on other pages
  - Add a control which allows you to manage an array of items (e.g. the list of connected gates). E.g. <https://codepen.io/safx/pen/AhCtk>
- Import/Export of a Configuration.json.
- Reset any configuration to the default one (by removing the json file)

## Management of Events

The following sections contains the term **Path**, which means the path is part of the URL. E.g., path **/events** for the FMCU Server running under **https://server.maxcrc.de/** means

```
https://server.maxcrc.de/events
```

## Events

Web path:

```
/events
```

The page shows a filterable and sortable list of events:

Name	Description
Date	Date and time when the event occurred
Name	Translated name of the event
Gate	Gate if appropriate where the event occurred
State	The state of the event if supported
Category	Category to which the event belongs to
Info	Additional info about the event

Edit this section

## Event Definitions Page

Path:

```
/event-definitions
```

The page shows a list of definitions of events:

Name	Description
Name	Name
Event Definition Groups	Groups to which the event belongs to if any
Supported States	Can be empty (for impulse events) or <b>On, Off</b> (for the events with states)
Category	Category to which the event belongs to

Edit this section

## Event Definition Groups

Path:

/event-definition-groups

The page shows a list of event groups:

Name	Description
Name	Name
Events	Event definitions assigned to the group
Delete	Delete button

An event definition group allows you to group one or more events so that it can be bound to a user group. See **Event Subscriptions** below

Edit this section

## Event Subscriptions

Web path:

/event-subscriptions

The page shows a list of event definition groups bound to a user groups.

Name	Description
Group	User group
Event definition group	Event definition group
Locked	When locked, events are not sent to the users of the group
Info	Any informative text
Delete	Delete button

When a event definition group is bound to a user group and not locked, new events from the event definition group are sent to the users from the user group. The user must have a valid email address.

Example. A user group **Alarm events** with two members **user1** and **user2** is bound to an event definition group **Alarm events** with two events **GateTailgating** and **GateStateFireAlarm**. When either or both of these events occur, both users **user1** and **user2** receive an email notification about that.

Edit this section

## Configuration

---

Path:

/configuration

In order the emails with events can be sent out, the **Email** section with the information like the hostname, port etc. of the outgoing server and credentials should be properly configured.