

## Gate ~ FMCU ~ management dashboard/en



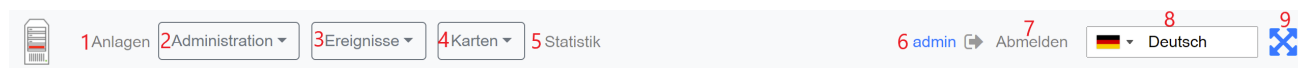
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## General

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



Nummer	Funktion
1	Button Management Dashboard
2	Administration
3	Events Button
4	Cards Button
5	Statistics Button

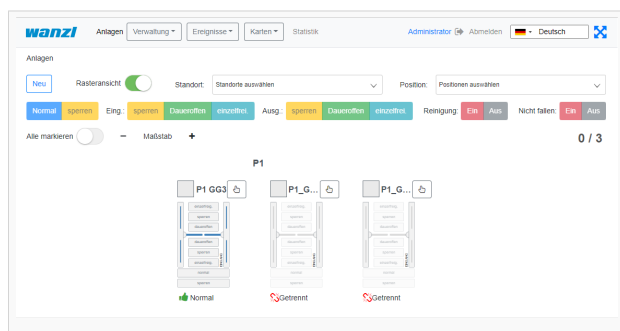
6	Logged in User
7	Log out Button
8	Languages menu
9	Adjust the display to entire width of the screen

## Menu items

## Gates

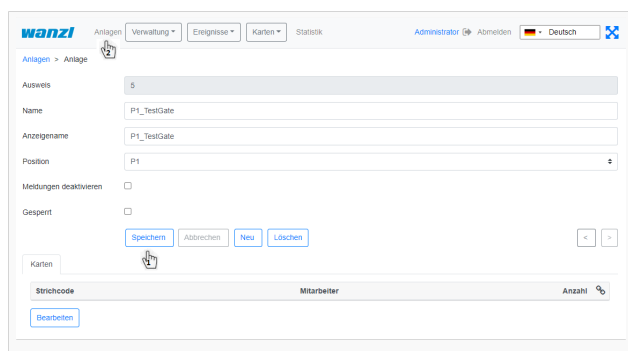
<https://<dns-name or ip-address>/gates>

In dieser Ansicht werden alle Zutrittskontrollen in einer intuitiven Oberfläche dargestellt. Es existieren Gruppierungsmöglichkeiten in zwei Kategorien. Zunächst kann man nach **Standort** gruppieren. Innerhalb des Standortes kann man dann verschiedene **Lokationen** zusammenfassen. Einzelne Gates können über den Menüpunkt "**Neu**" hinzugefügt werden.



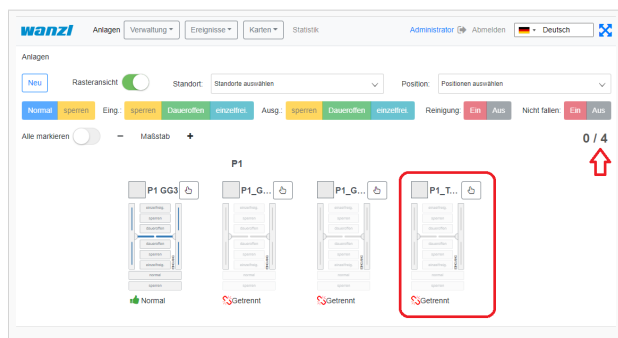
## Set up a new Gate

In dieser Ansicht legen Sie ein **neues** Gate an. Die Felder **Namen**, **Anzeigename** und **Position** des Gates müssen mit Werten belegt werden. Danach auf Anlagen klicken.



Sie sehen nun in der Ansicht das Sie ein **NEUES** Gate angelegt haben,

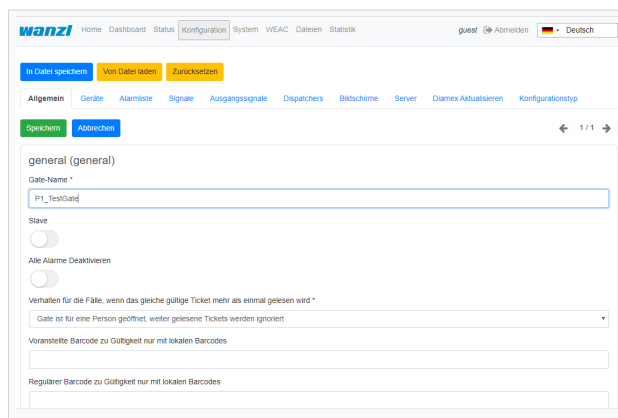
in diesem Fall das vierte Gate in dieser Ansicht.



Im nächsten Schritt verbinden Sie das Gate mit dem Server.

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

Prüfen Sie hierzu auf dem Reiter **Allgemein** das der korrekte Gate-Name eingetragen ist.



Prüfen Sie dann auf dem Reiter **Server** folgende Punkte.

Server#0 (server)- muss auf Fern eingestellt sein.

Schiebeschalter Aktiviert ist aktiviert.

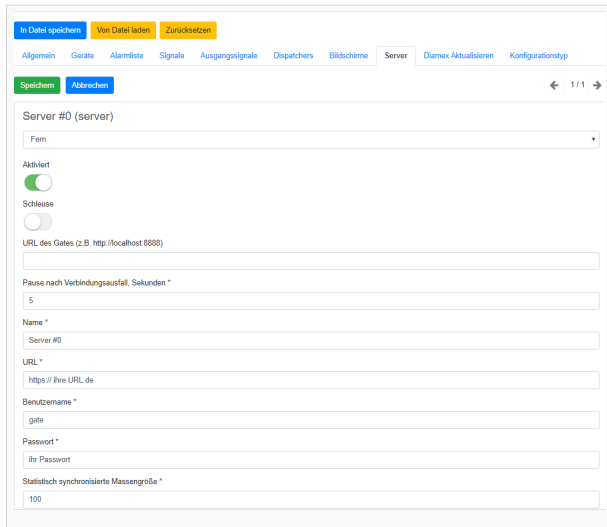
Unter Name\* sollte ihr Server eingetragen sein.

Unter URL\* sollte ihre URL eingetragen sein.

Unter Benutzername\* sollte gate eingetragen sein.

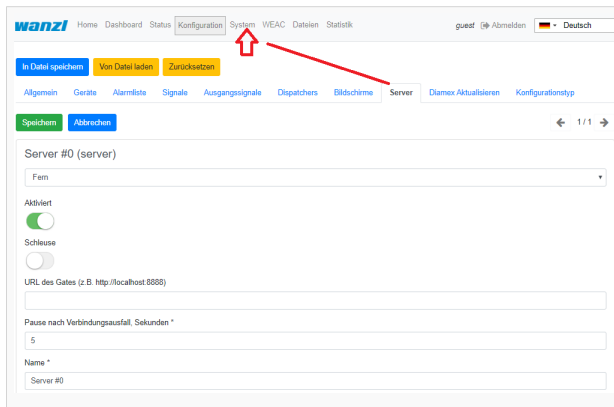
Unter Passwort\* sollte ihr Passwort eingetragen sein.

### Am Ende **Speichern.**



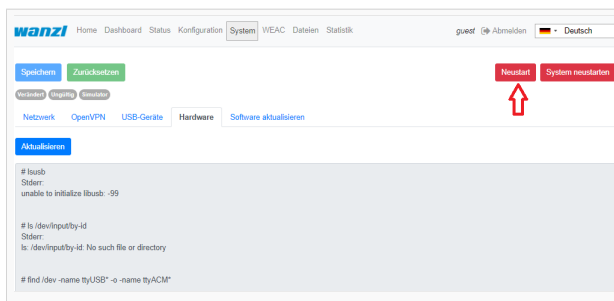
The screenshot shows the configuration page for 'Server #0 (server)'. At the top, there are buttons for 'In Datei speichern', 'Von Datei laden', and 'Zurücksetzen'. Below that is a navigation menu with 'Server' selected. The main content area has a green 'Speichern' button and a blue 'Abbrechen' button. The form fields include: 'Server #0 (server)' dropdown (set to 'Fern'), 'Aktiviert' toggle (checked), 'Schleuse' toggle (unchecked), 'URL des Gates (z.B. http://localhost:8888)', 'Pause nach Verbindungsausfall, Sekunden' (5), 'Name \*' (Server #0), 'URL \*' (https://ihre-url.de), 'Benutzername \*' (gate), 'Passwort \*' (Ihr Passwort), and 'Statistisch synchronisierte Massengröße \*' (100).

Im nächsten Schritt bitte in der oberen Leiste auf System klicken.



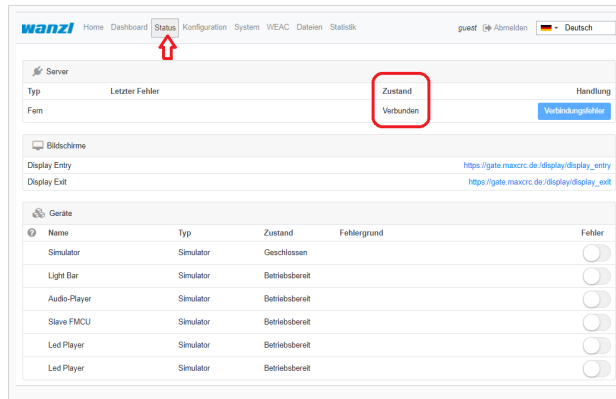
The screenshot shows the dashboard with the top navigation bar containing 'Home', 'Dashboard', 'Status', 'Konfiguration', 'System', 'WEAC', 'Dateien', and 'Statistik'. A red arrow points to the 'System' menu item. Below the navigation bar, the 'Server #0 (server)' configuration page is visible, with the 'Speichern' button highlighted in green.

Sie bekommen jetzt folgende Darstellung, hier bitte einmal auf Neustart drücken. Jetzt sollte Ihr neues Gate verbunden sein.



The screenshot shows the 'System' configuration page. At the top, there are buttons for 'Speichern' and 'Zurücksetzen'. Below that is a navigation menu with 'System' selected. The main content area has a red 'Neustart' button and a blue 'System neustarten' button. Below the buttons, there is a section for 'Aktualisieren' with a blue button. The main content area contains a terminal log showing the following output: '# Inusb: Siderr: unable to initialize libusb- 99', '# ls /dev/input/by-id Siderr: ls: /dev/input/by-id: No such file or directory', and '# find /dev -name ttyUSB\* -o -name ttyACM\*'

Sie können abschließend im Reiter **Status** noch die Verbindung prüfen. Unter Zustand muss jetzt **VERBUNDEN** erscheinen.

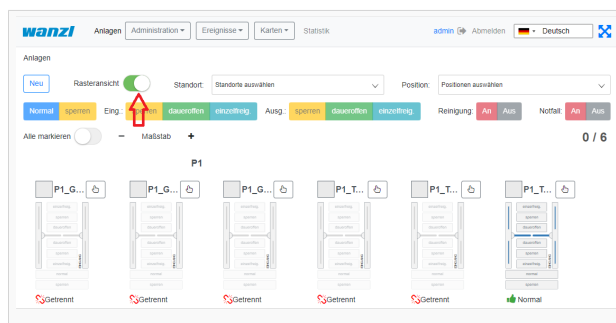


## Edit existing Gate

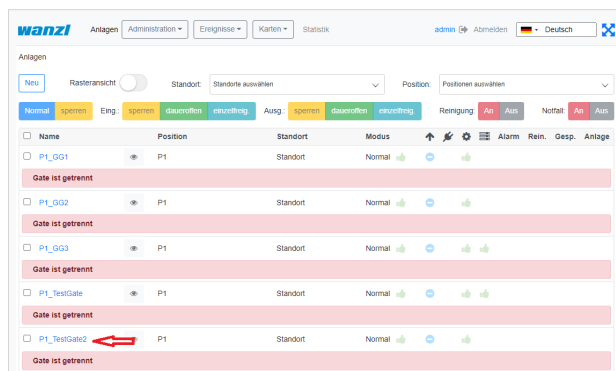
<https://<dns-name or ip-address>/gates>

Sie befinden sich in der gleichen Ansicht wo Sie auch ein neues Gate anlegen würden.

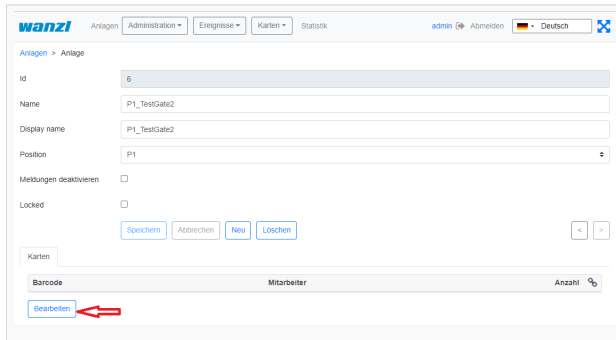
Verschieben Sie hier bitte den Schiebeschalter "Rasteransicht" nach links.



In der Ansicht klicken Sie auf den Namen des Gates welches Sie bearbeiten möchten (im Beispiel P1\_TestGate2).



In dieser Ansicht bitte die Funktion "Bearbeiten" drücken.



In dieser Ansicht können Sie nun das Gate bearbeiten.

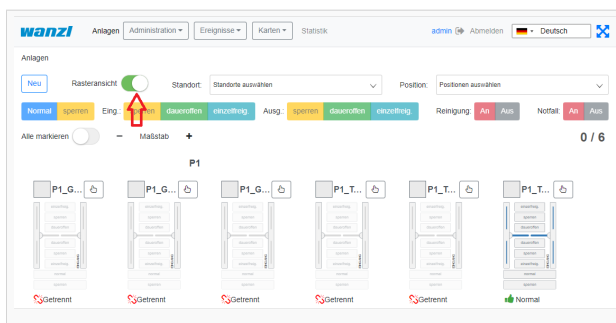


## Remove Gate

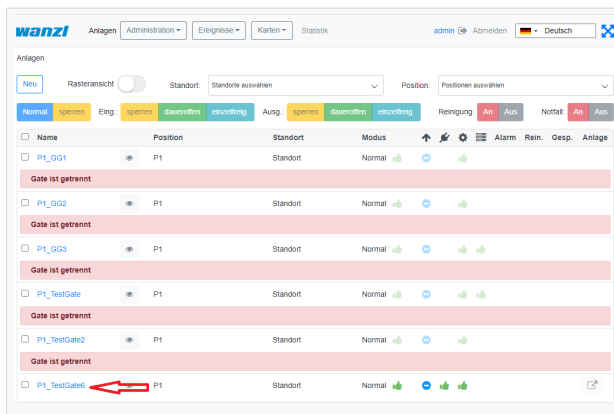
<https://<dns-name or ip-address>/gates>

Sie befinden sich in der gleichen Ansicht wo Sie auch ein neues Gate anlegen würden.

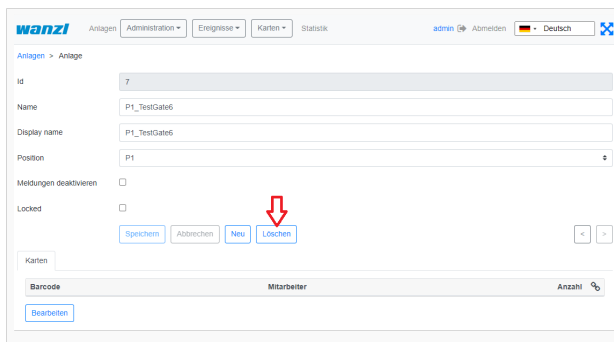
Verschieben Sie hier bitte den Schiebeschalter "Rasteransicht" nach links.



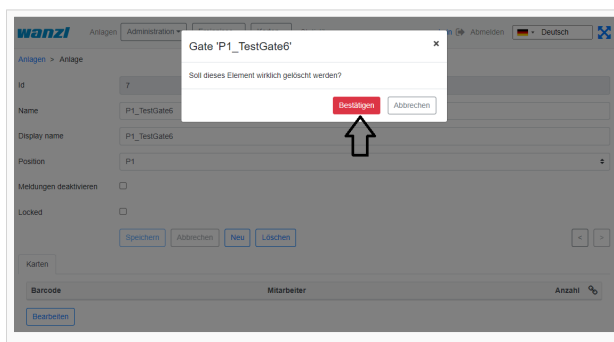
In der Ansicht klicken Sie auf den Namen des Gates welches Sie löschen möchten (im Beispiel P1\_TestGate6).



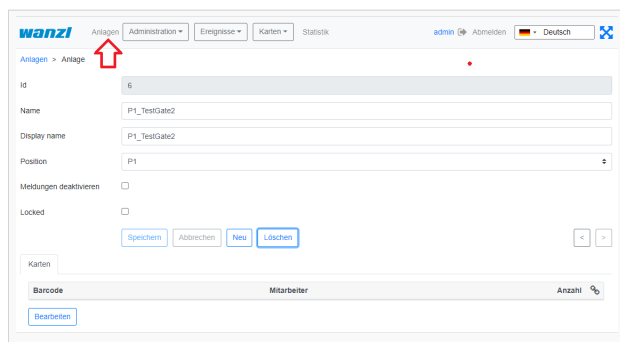
In dieser Ansicht bitte die Funktion "Löschen" drücken.



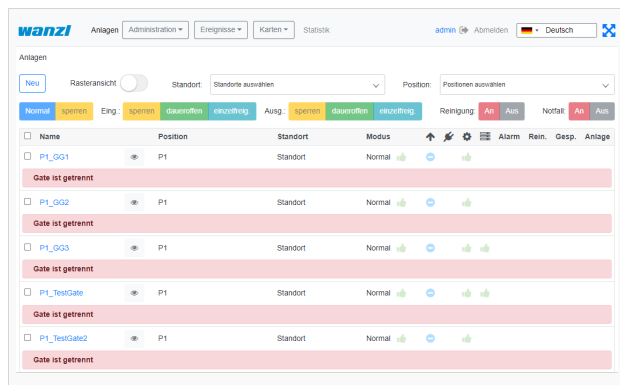
Es wird nun zur Sicherheit nochmal abgefragt ob Sie das Element wirklich löschen möchten? Bestätigen Sie dies bitte.



Sie bekommen nach dem Löschen schon automatisch das nächste Gate angezeigt (hier im Beispiel P1\_TestGate2). Hier bitte auf Anlagen drücken.



Sie sehen dann in der Rasteransicht das, das Gate P1\_TestGate6 fehlt und erfolgreich gelöscht wurde.



## 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.

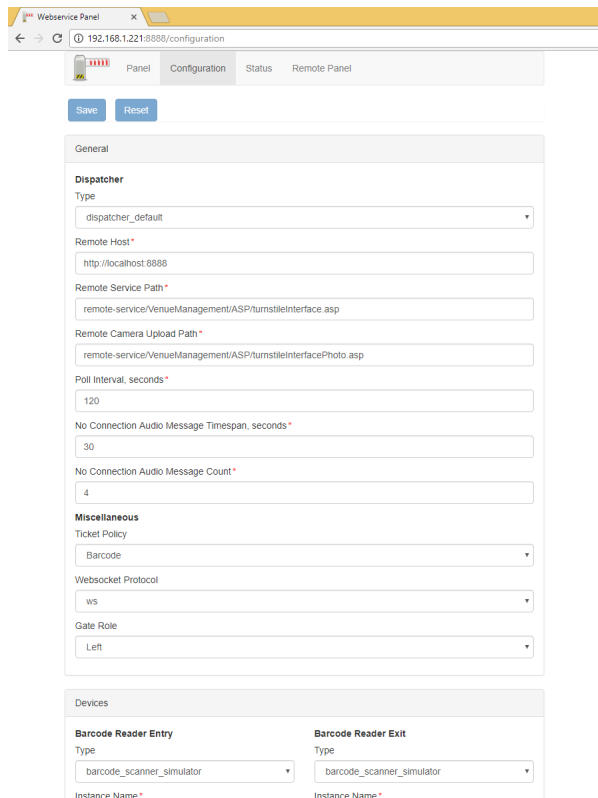
## Configuration Management

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### 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>



The screenshot shows a web browser window titled "Webservice Panel" with the address bar displaying "192.168.1.221:8888/configuration". The page has a navigation menu with "Panel", "Configuration", "Status", and "Remote Panel". Below the menu are "Save" and "Reset" buttons. The main content area is divided into sections: "General" (containing fields for Dispatcher Type, Remote Host, Remote Service Path, Remote Camera Upload Path, Poll Interval, No Connection Audio Message Timespan, and No Connection Audio Message Count), "Miscellaneous" (containing Ticket Policy, Websocket Protocol, and Gate Role), and "Devices" (containing Barcode Reader Entry and Barcode Reader Exit fields).

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**

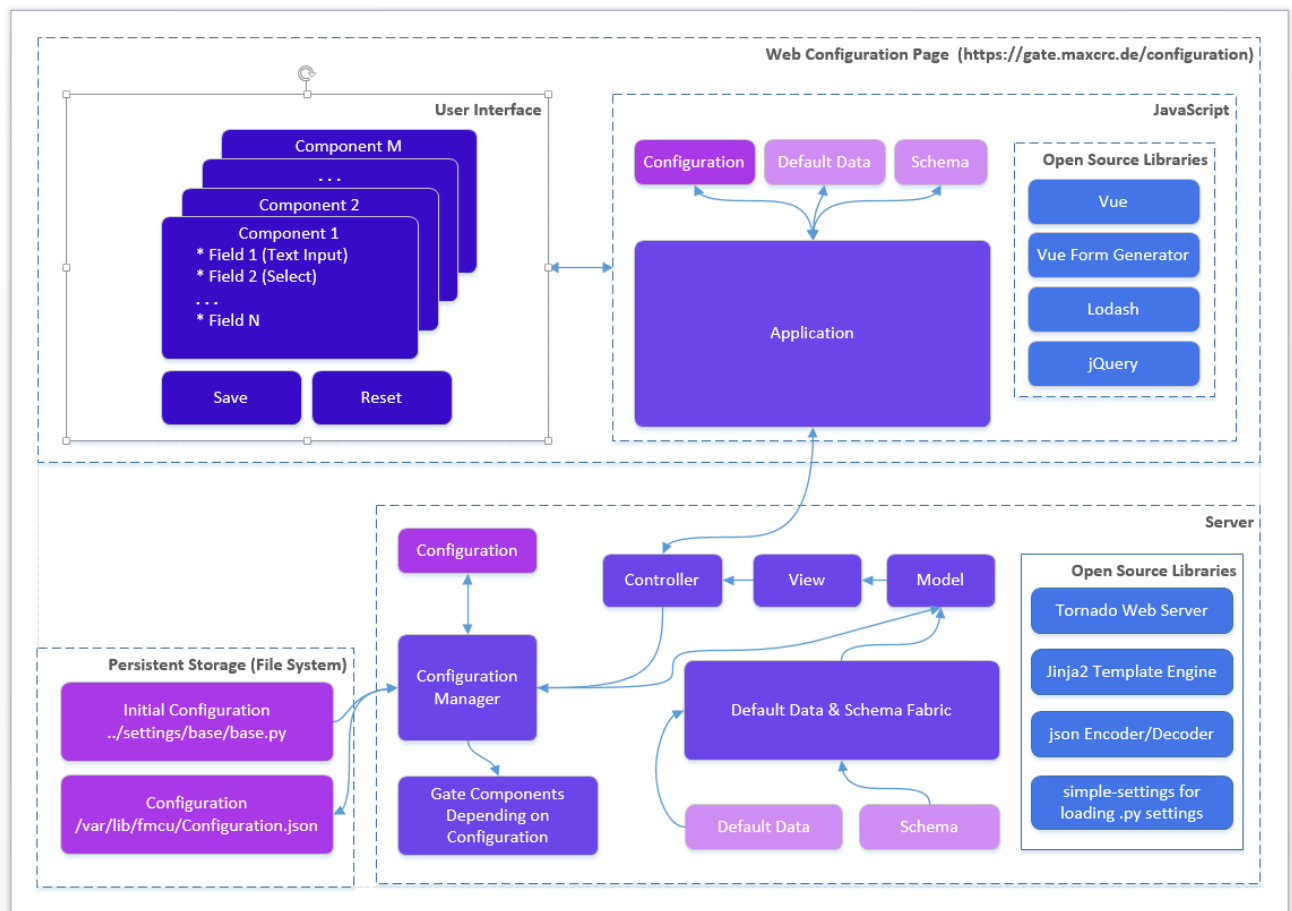
Type

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

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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.