

Gate ~ FMCU ~ management dashboard/en



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General

The Wanzl Access Manager offers a central dashboard 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

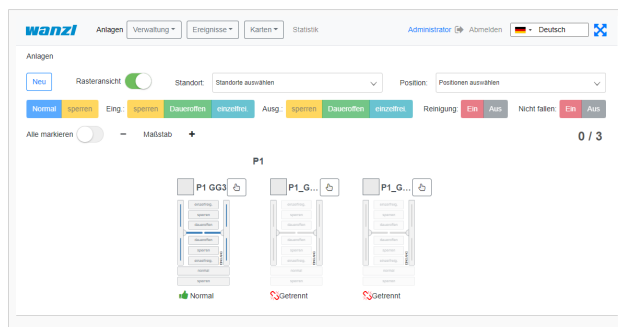
Number	Function
1	Button Management Dashboard
2	Administration
3	Events Button
4	Cards Button
5	Statistics Button
6	Logged in User
7	Log out Button
8	Languages menu
9	Adjust the display to entire width of the screen

Menu items

Gates

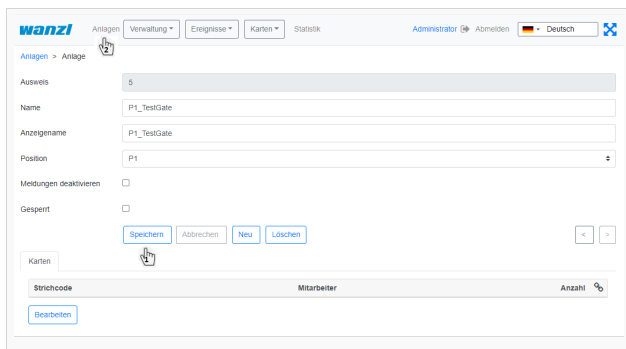
<https://<dns-name or ip-address>/gates>

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.

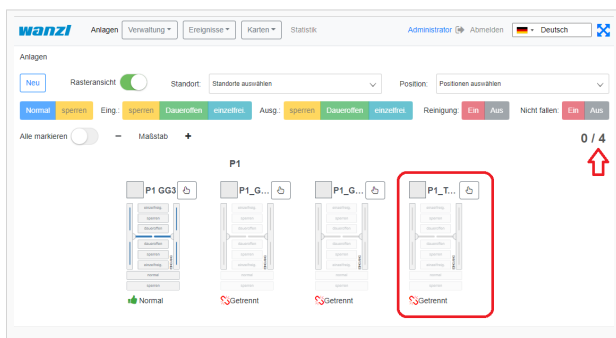


Set up a new Gate

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.



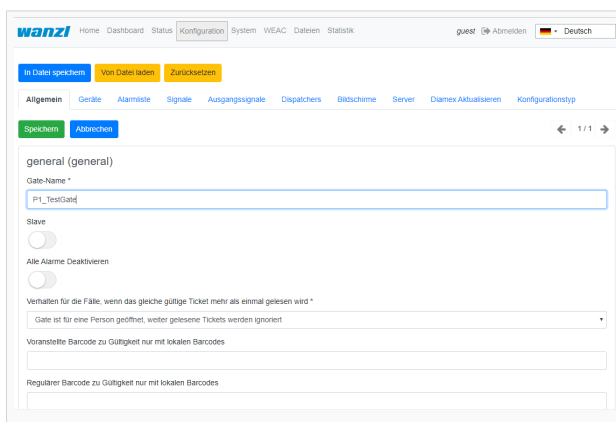
You can now see in the view that you have created a **NEW** gate, in this case the fourth gate in this view.



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.



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

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

Gate ~ FMCU ~ management dashboard/en

Activated slide-switch is activated.

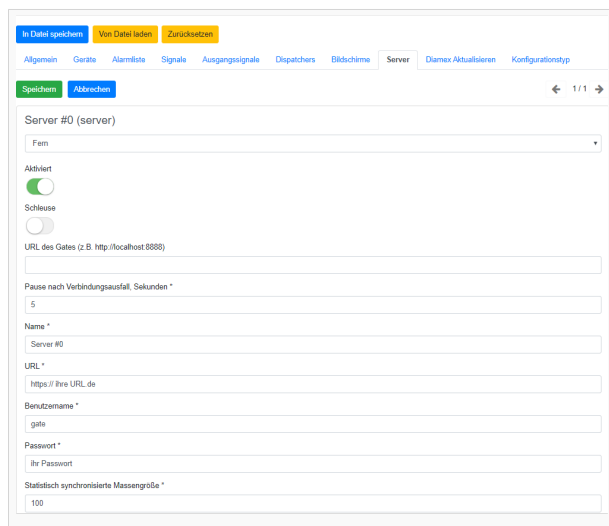
Your server should be entered under Name*.

Your URL should be entered under URL*.

Gate should be entered under Username*.

Your password should be entered under Password*.

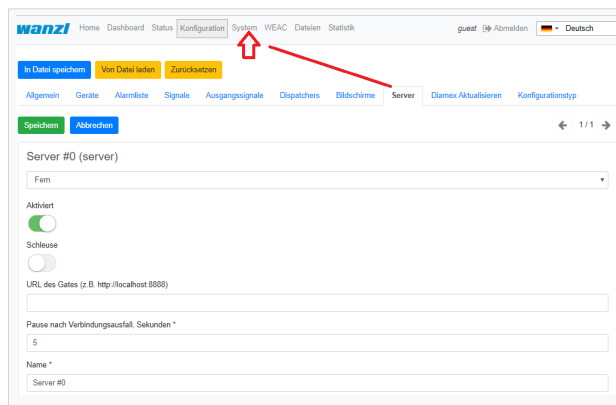
Save at the end.



The screenshot shows the configuration page for 'Server #0 (server)'. At the top, there are buttons for 'In Daten speichern', 'Von Daten laden', and 'Zurücksetzen'. Below that are tabs for 'Allgemein', 'Geräte', 'Alarmliste', 'Signale', 'Ausgangssignale', 'Dispatchers', 'Bildschirme', 'Server', 'Diamex Aktualisieren', and 'Konfigurationstyp'. The 'Server' tab is active. The page contains the following fields:

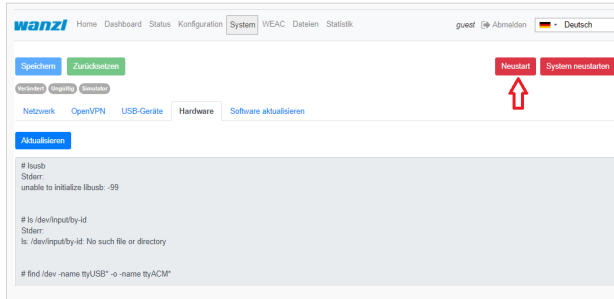
- 'Fern' dropdown menu
- 'Aktiviert' toggle switch (checked)
- 'Schleuse' toggle switch (unchecked)
- 'URL des Gates (z.B. http://localhost:8888)' text input
- 'Pause nach Verbindungsausfall, Sekunden' text input (value: 5)
- 'Name*' text input (value: Server #0)
- 'URL*' text input (value: https://Ihre-URL.de)
- 'Benutzername*' text input (value: gate)
- 'Passwort*' text input (value: Ihr Passwort)
- 'Statistisch synchronisierte Messengröße*' text input (value: 100)

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

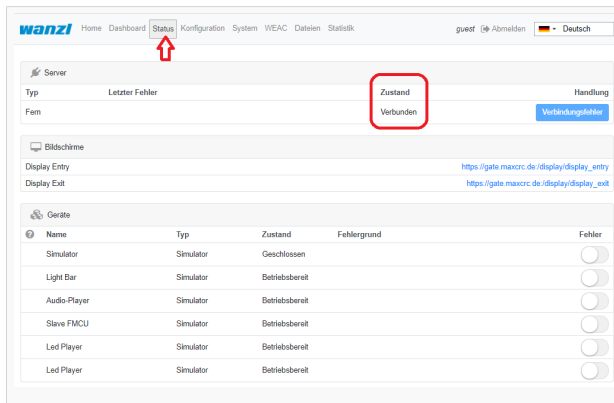


The screenshot shows the management dashboard with the 'System' menu item highlighted in the top navigation bar. A red arrow points to the 'System' menu item. The page content is the same as the previous screenshot, but the 'Name' field is now empty.

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.

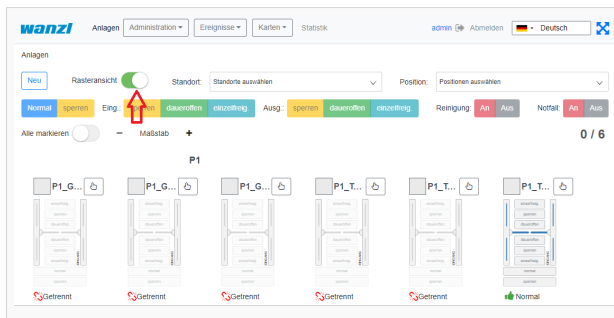


Edit existing Gate

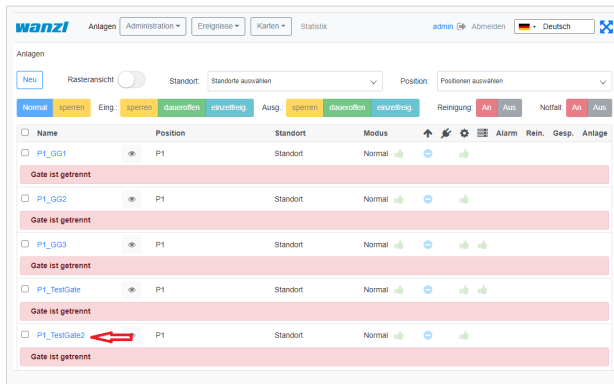
<https://<dns-name or ip-address>/gates>

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

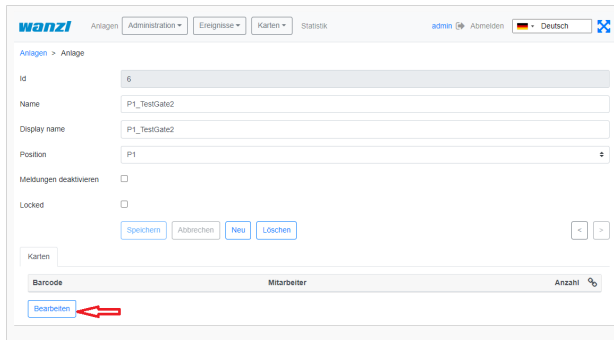
Please move the slide switch "Grid view" to the left.



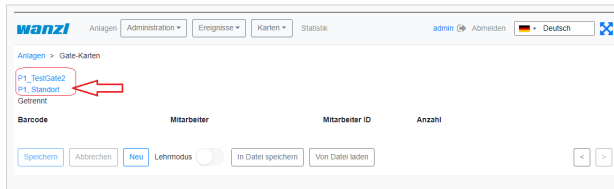
In the view click on the name of the gate which you want to edit (in the example P1_TestGate2).



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



You can now edit the gate in this view.

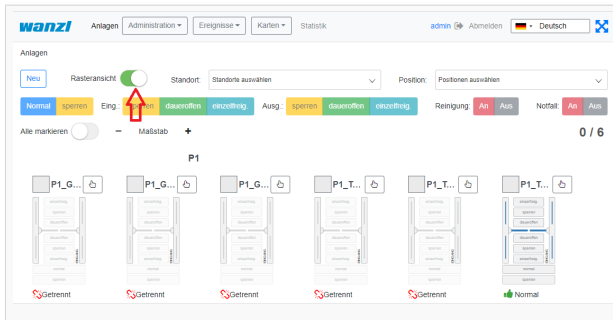


Remove Gate

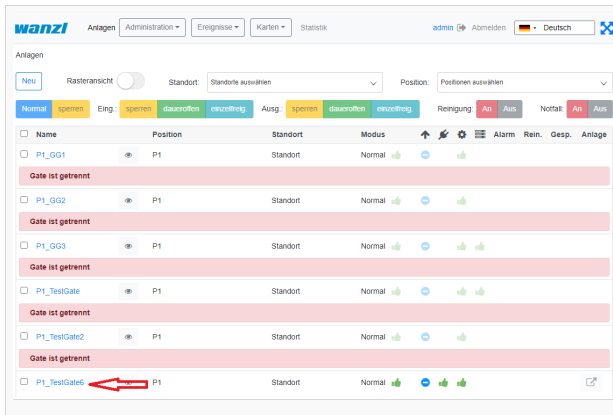
<https://<dns-name or ip-address>/gates>

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

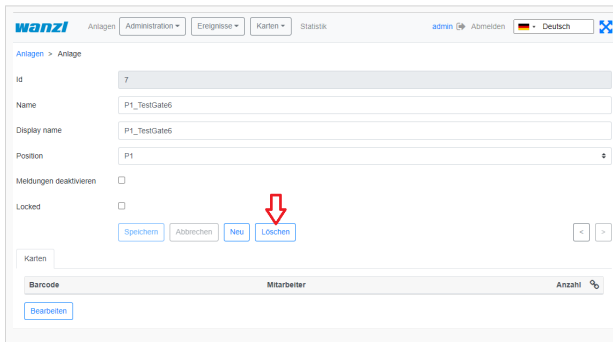
Please move the slide switch "Grid view" to the left.



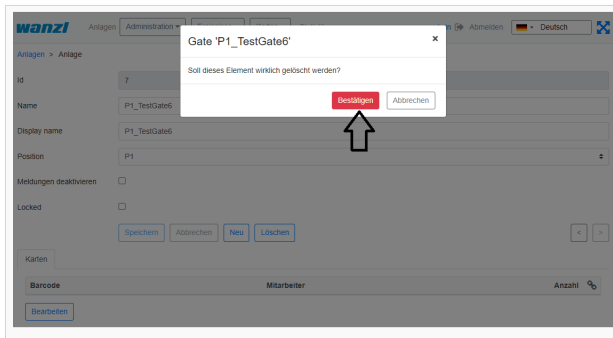
In the view click on the name of the gate which you want to delete (in the example P1_TestGate6).



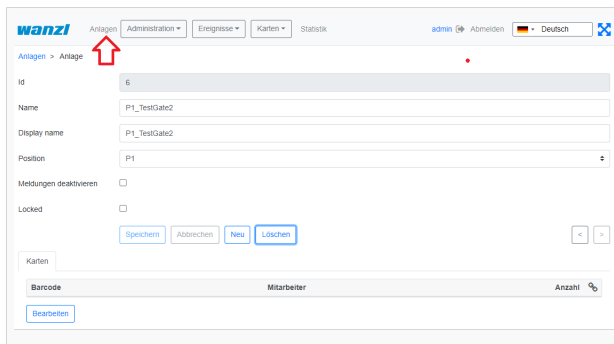
In this view, please press the "Delete" function.



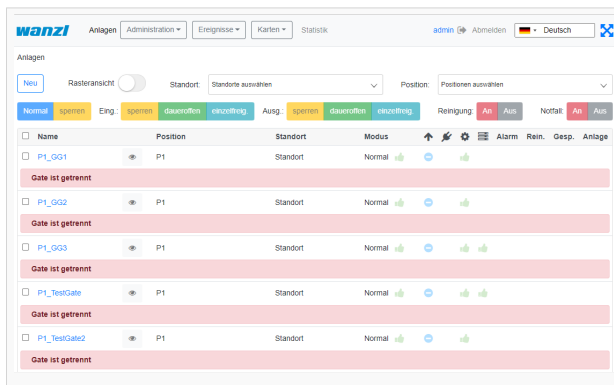
To be on the safe side, you will now be asked again whether you really want to delete the element? Please confirm this.



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.



Name	Position	Standort	Modus	Alarm	Rein.	Gesp.	Anlage
P1_GG1	P1	Standort	Normal				
Gate ist getrennt							
P1_GG2	P1	Standort	Normal				
Gate ist getrennt							
P1_GG3	P1	Standort	Normal				
Gate ist getrennt							
P1_TestGate	P1	Standort	Normal				
Gate ist getrennt							
P1_TestGate2	P1	Standort	Normal				
Gate ist getrennt							

Administration

User

Set up new User

Edit existing user

Event notifications

Locations & Positions tab

Groups tab

Permissions tab

Groups

Set up new group

Edit existing group

Users tab

Permissions tab

Positions

Set up new Position

Edit existing Position

Locations

Set up new Location

Edit existing Location

Locations & Positions

Configuration

Connectivity Board

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

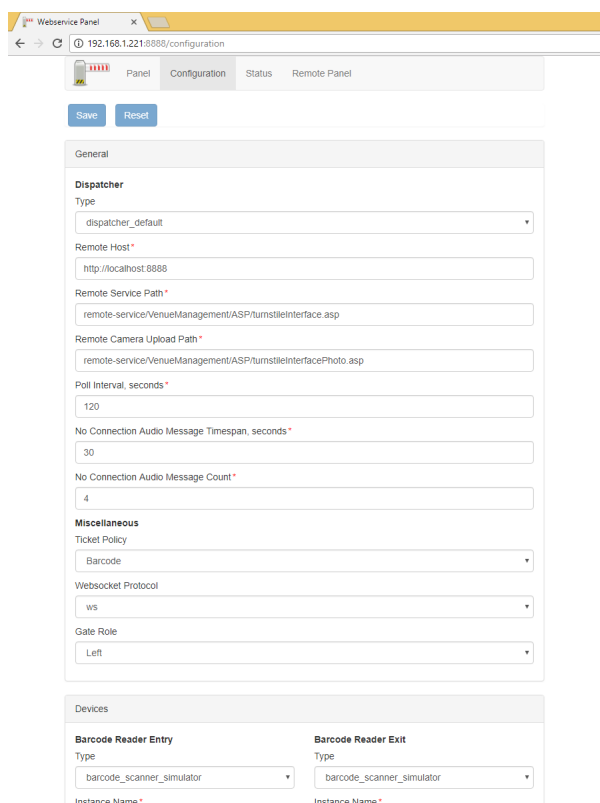
The signal can be set/received to/from a contact from any of the halves of the gate.

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>



The screenshot shows a web browser window with the URL `192.168.1.221:8888/configuration`. The page has a navigation bar with 'Panel', 'Configuration', 'Status', and 'Remote Panel'. Below the navigation bar are 'Save' and 'Reset' buttons. The main content area is divided into sections: 'General' (with 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' (with fields for Ticket Policy, Webservice Protocol, and Gate Role), and 'Devices' (with fields for Barcode Reader Entry and Barcode Reader Exit). Each field is a dropdown menu or text input.

There are two buttons on the page:

Name	Description	Action
Save	Saves the modified configuration to the server	Post

Reset	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
Dispatcher
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"/>
Miscellaneous
Ticket Policy
<input type="text" value="Barcode"/>
Websocket Protocol
<input type="text" value="ws"/>
Gate Role
<input type="text" value="Left"/>

Devices

Barcode Reader Entry	Barcode Reader Exit
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	
Gate	
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

audio_player_sonos

Host Ip Address *

192.168.101.86

Sonos Ip Addresses, separated by a comma *

192.168.101.159

Volume, % *

100

Camera

Type

camera_http

Uri *

192.168.1.33

User *

admin

Password *

pass

Delay On Enter, ms *

0

Delay On Exit, ms *

0

Disabled

OFF

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"/> Display Gate Entry	<input checked="" type="checkbox"/> Display Gate Exit
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"/> Display Entry	<input checked="" type="checkbox"/> Display Exit
Show Video <input type="checkbox"/> OFF	Show Video <input type="checkbox"/> OFF
<input checked="" type="checkbox"/> Display Time Info	

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

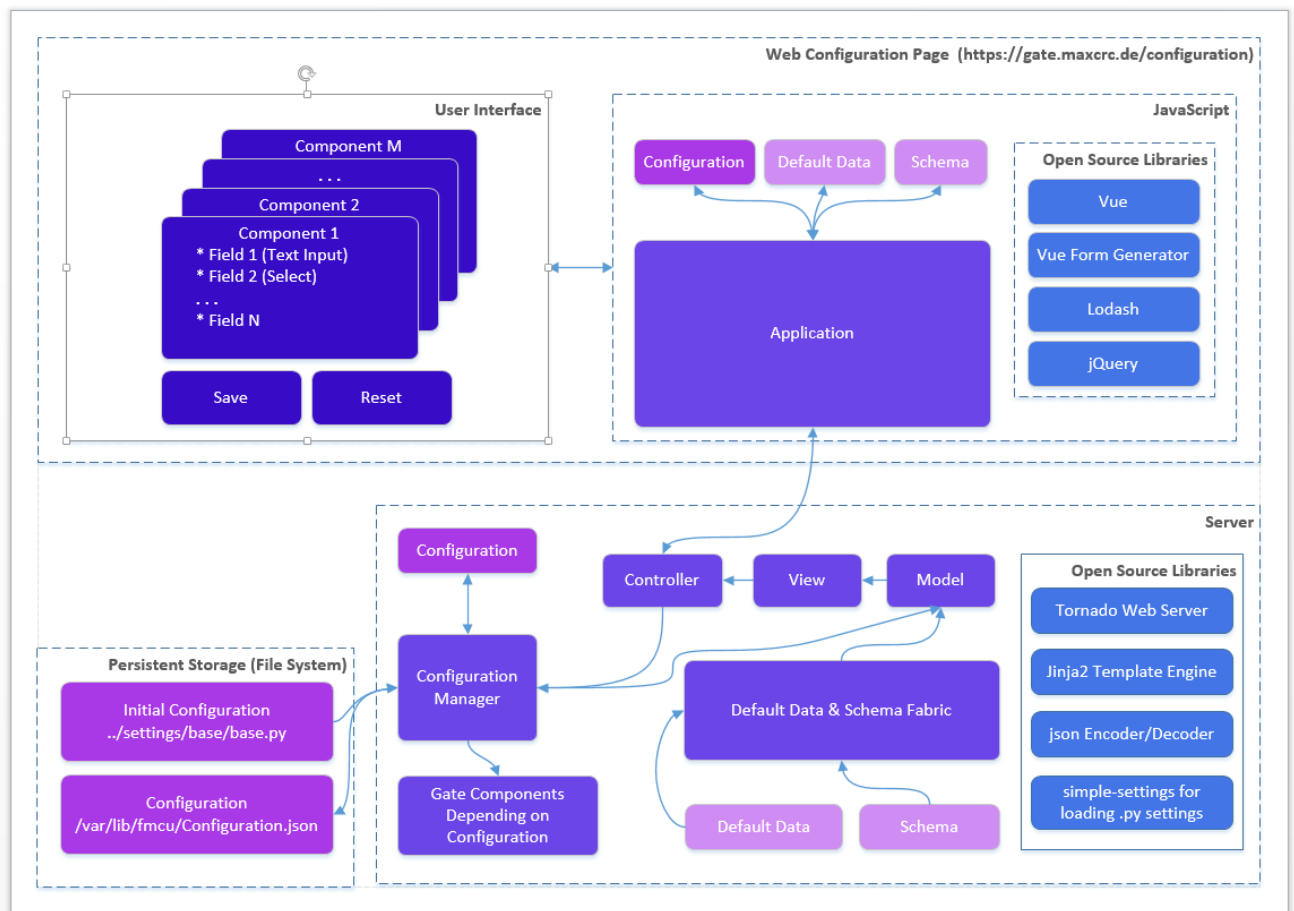
Type

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 On, Off (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.