

# Covcheck

## Inhaltsverzeichnis

1 Introduction .....	1
2 Installation of Covcheck Application Server .....	1
2.1 Prerequisites .....	1
2.2 Installation Steps .....	1
2.3 Installation Files .....	3
3 Configuration of Covcheck Application Server .....	3
3.1 Change Default Password .....	3
3.2 Managing Rulesets .....	6
4 Configuration of Galaxy Gate .....	7
4.1 Dispatcher .....	7
4.2 Display .....	10

## Introduction

The document describes how to install the **Covcheck** application server and configure a Galaxy Gate so that COVID certificates and tests presented at the gate can be validated through the server's REST API.

## Installation of Covcheck Application Server

### Prerequisites

- Ubuntu 22.04 with Internet access
- User with **sudo** permissions and availability of a user with ID 1000 (**cat /etc/passwd | grep 1000**), which is by default
- Archive **covcheck-installer.tar.gz** with the files listed in [Installation Files](#). The name **covcheck-installer.tar.gz** can include a version, e.g. **covcheck-installer-v0.1.tar.gz**

### Installation Steps

- Connect with **ssh** to the Ubuntu server
- Copy **covcheck-installer.tar.gz** to the local directory
- Execute the following command:

```
tar xvf covcheck-installer.tar.gz && cd ./covid-installer
```

## Covcheck

- Modify file `.env` and specify the database password (**POSTGRES\_PASSWORD**) and, if necessary, host name (**ODOO\_HOST\_NAME**) and timezone (**TZ**):

```
POSTGRES_PASSWORD=gR7K6GT8MvQHpvLs
ODOO_HOST_NAME=covcheck.maxcr.de
TZ=Europe/Berlin
```

- If SSL certificates are provided for domain name **ODOO\_HOST\_NAME**, put them into directory **/etc/nginx/certs**, e.g:

```
sudo mkdir -p /etc/nginx/certs
sudo tar xvf certs.tar.gz -C /
```

- If SSL certificates are not available, HTTP connection will be used and you need to modify file `**docker-compose**` accordingly:

- Add this section to container `**odoo**`:

```
ports:
- 80:8069
```

- Comment out or remove port 80 for container `**nginx_proxy**`:

```
ports:
# - 80:80
- 443:443
```

- Run the installer script:

```
script=install-covcheck.sh && chmod +x $script && ./$script -i
```

- The installation is finished successfully if you see this line in the shell:

```
### Installation finished successfully
```

## Covcheck

You can make sure that the Covcheck is installed and running by executing the following command:

```
curl https://covcheck.maxcrc.de/covcheck/status
```

The reply must be a JSON like as follows:

```
{  
  "status": "ok",  
  "last_update": "2022-07-04 12:06:34"  
}
```

## Installation Files

---

### **.env**

environment variables

### **boot-covid-install.sh**

development script

### **covcheck.tar.gz**

archived covcheck and request\_extension ODOO addons

### **covid-installer.tar.gz**

archive of other files from this list

### **docker-compose.yml**

docker compose file

### **install-covid.sh**

primary installation script

### **nginx-vhost**

template vhost file for nginx

### **odoo.conf**

configuration file for ODOO

### **README.md**

this file

## Configuration of Covcheck Application Server

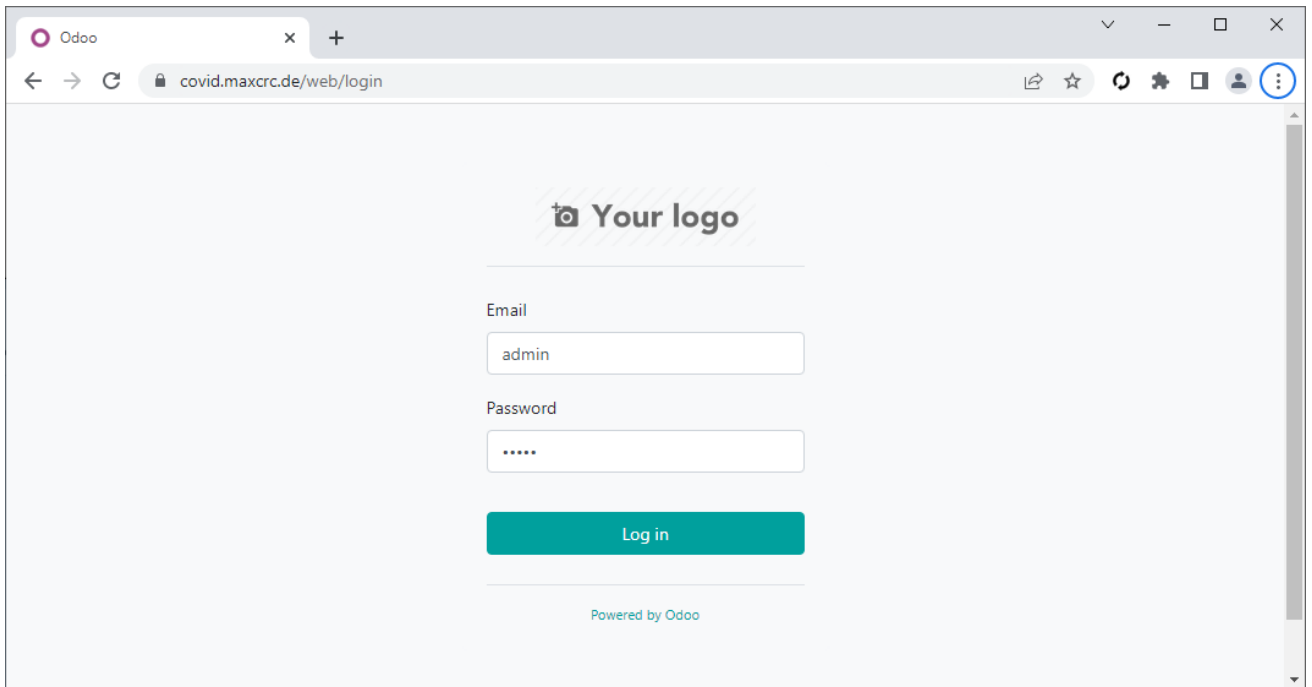
---

### Change Default Password

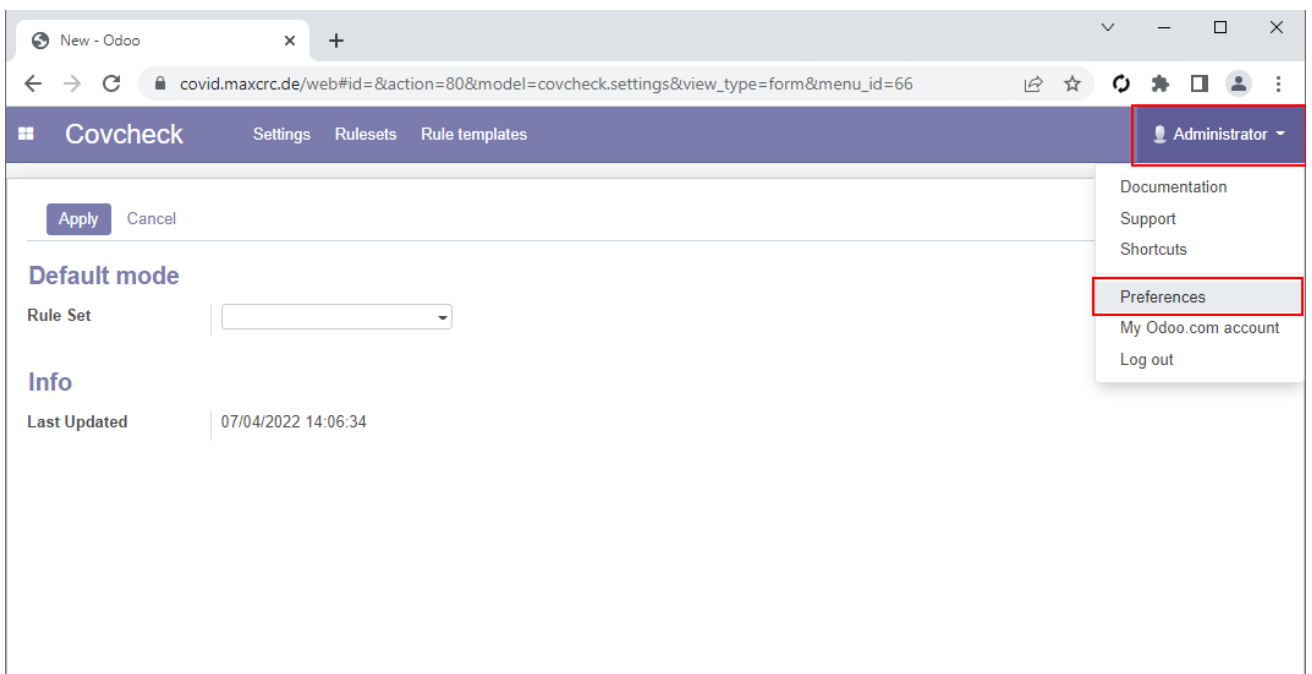
---

Open the address of the server in a browser and logging using the following default credentials:

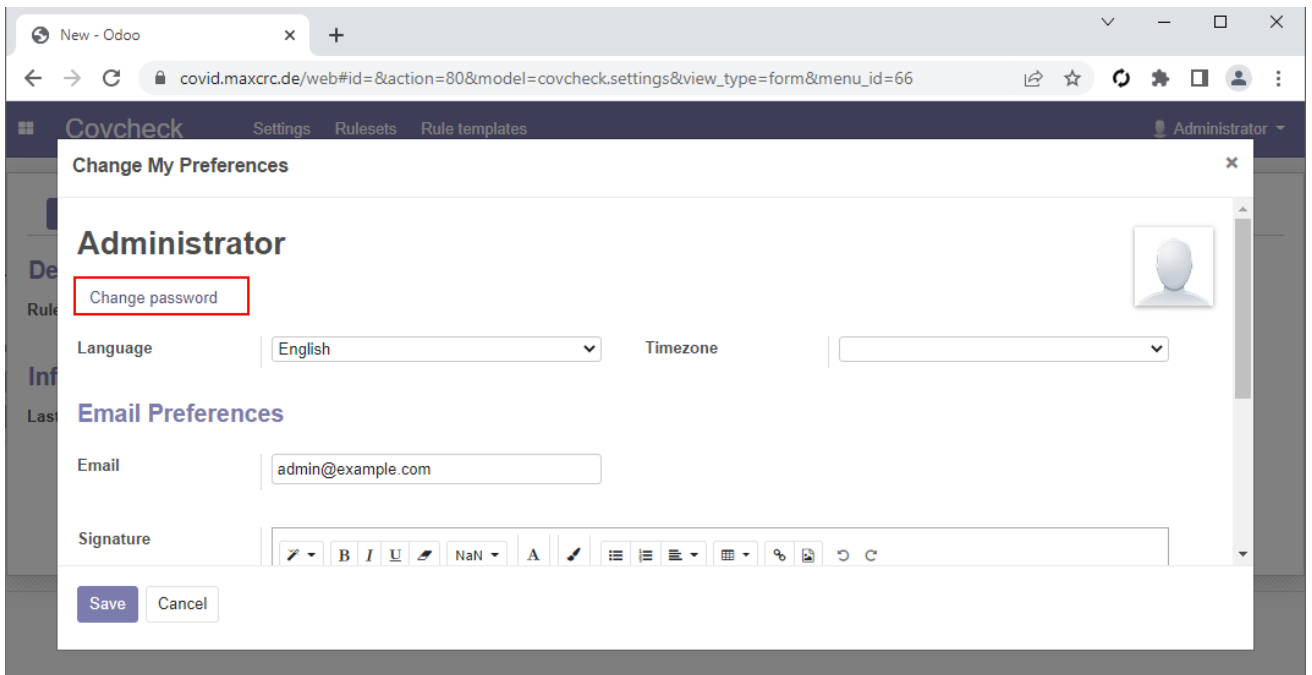
Username	Password
admin	admin



Click the **Administrator** in the top right corner and then **Preferences**:

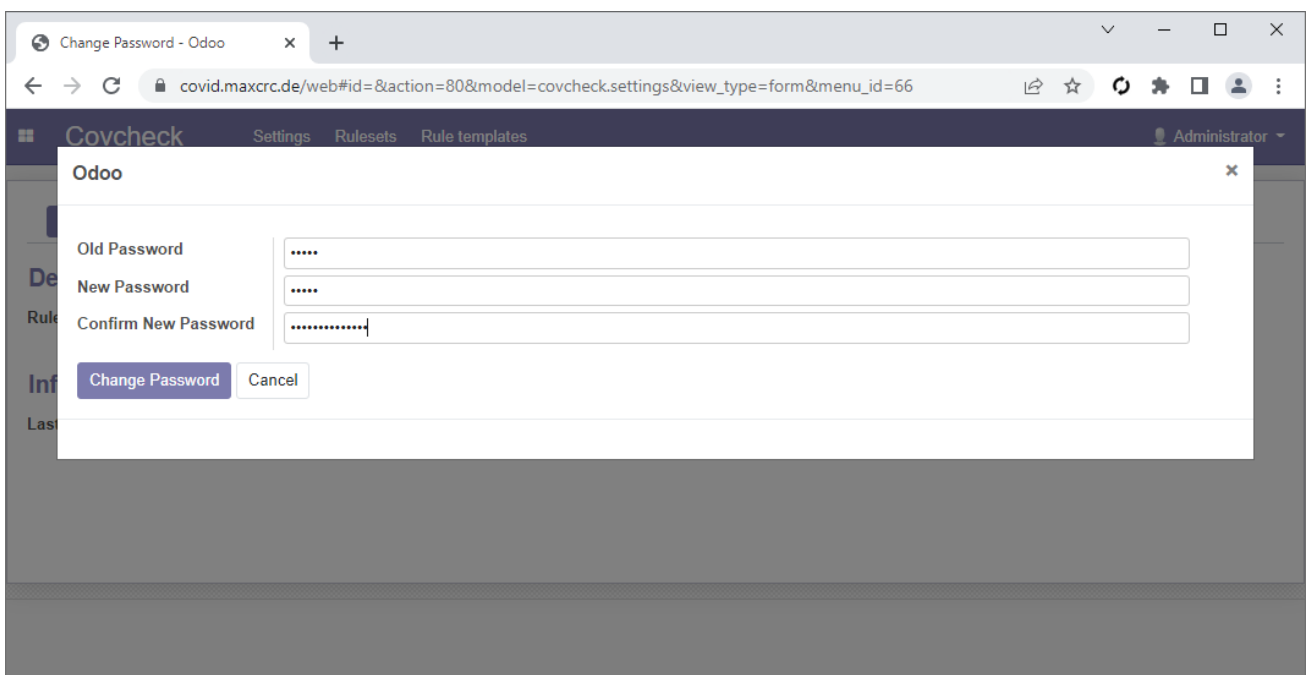


In the opened window click **Change password**:



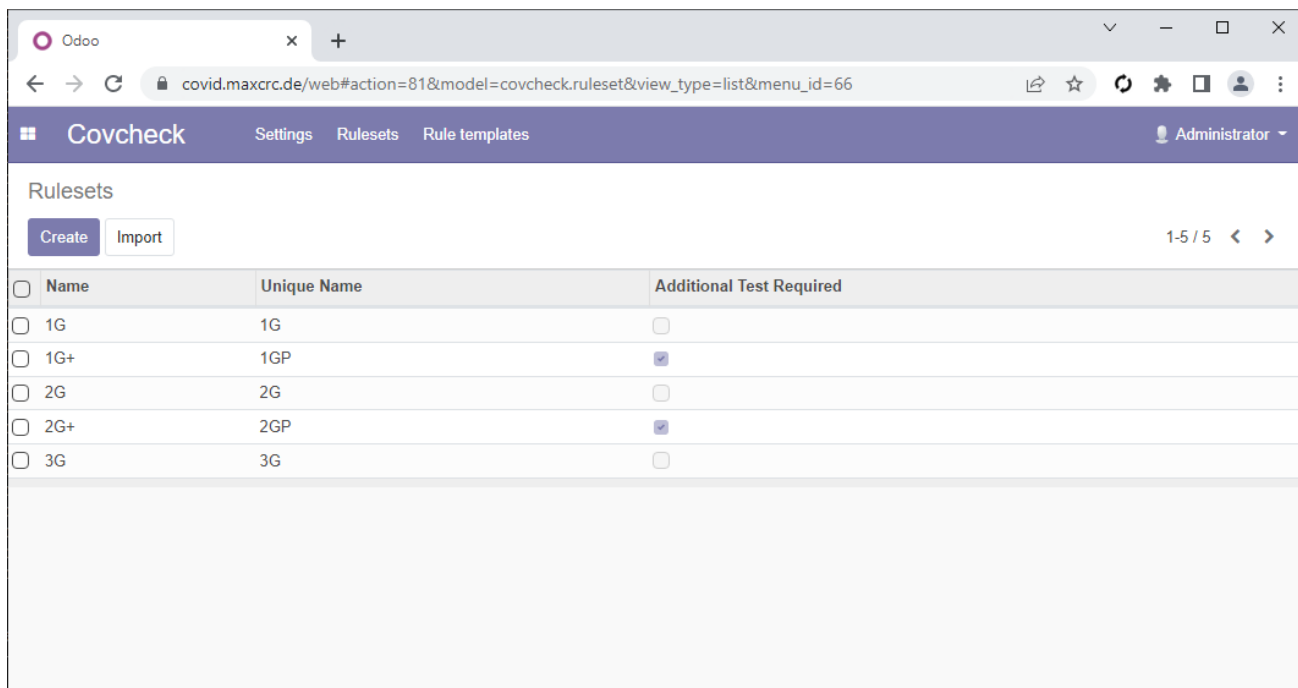
Fill-in the following fields and then click **Change Password**:

- Old Password
- New Password
- Confirm New Password

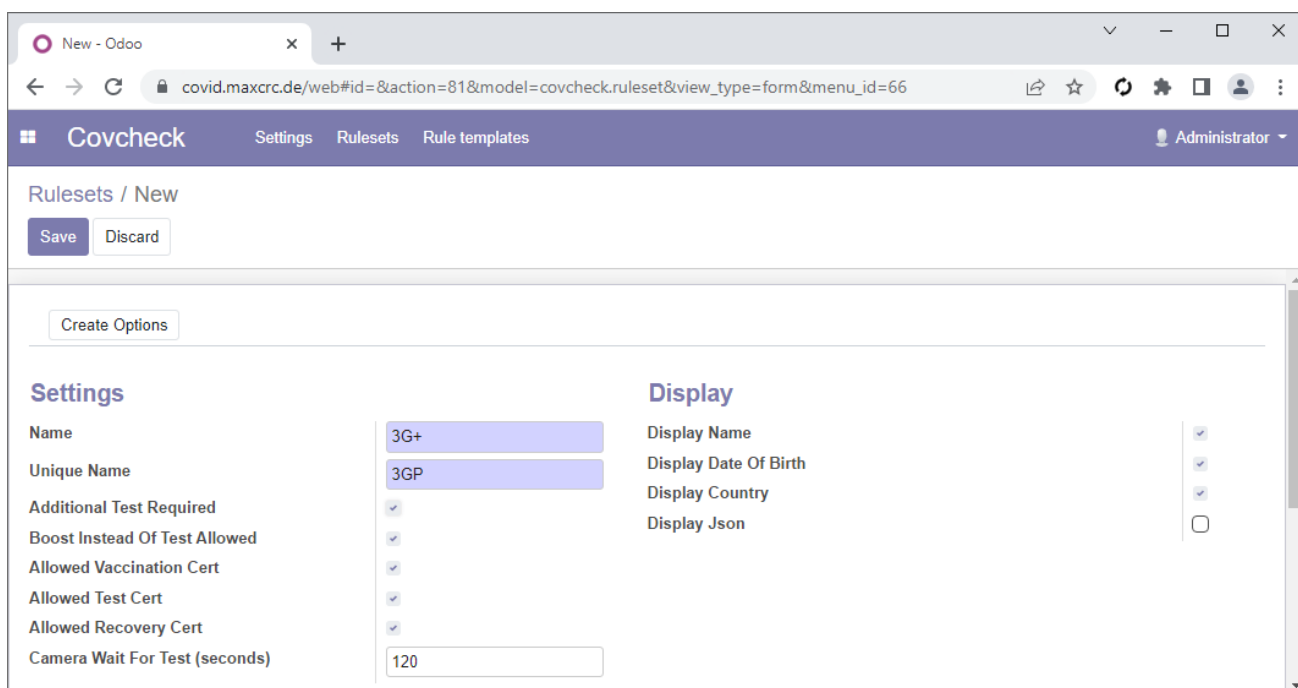


## Managing Rulesets

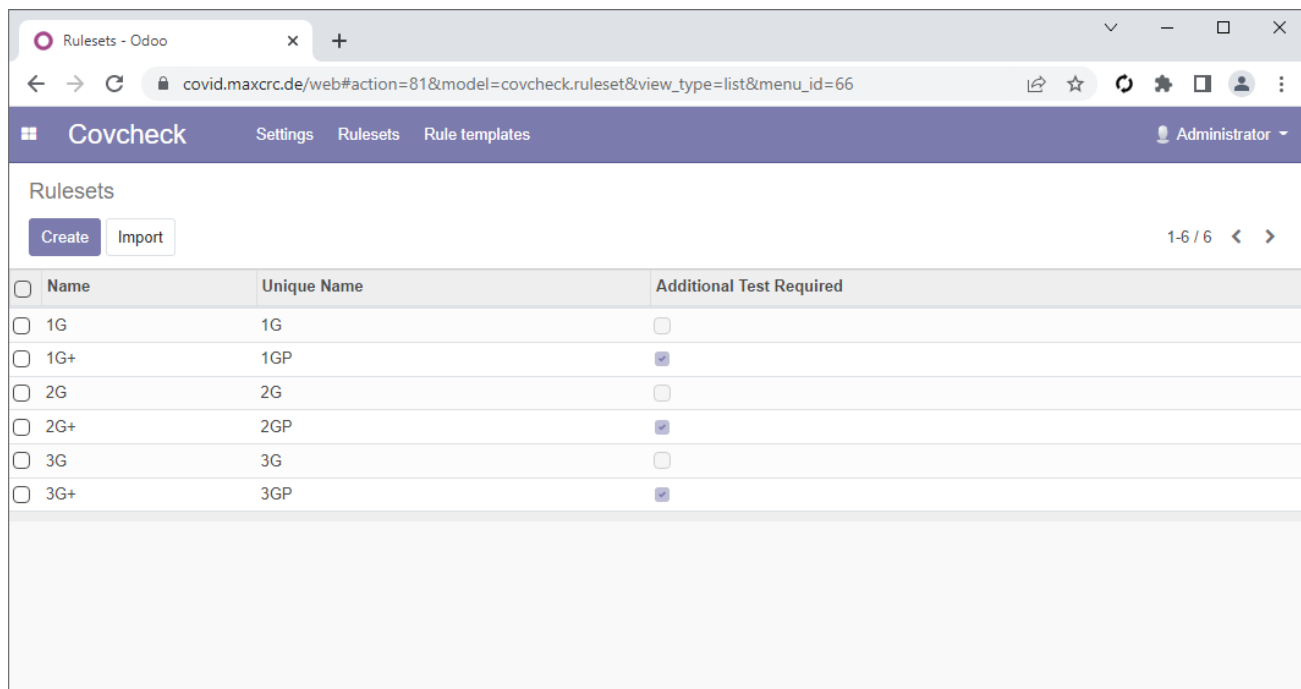
You can add, modify and delete rulesets on the **Rulesets** page:



For example, let us create a ruleset **3G+**, which requires an additional test. Click **Create** fill-in the fields **Name** and **Unique Name**, check **Additional Test Required** and click **Save**:



The list now includes the **3G+** ruleset:



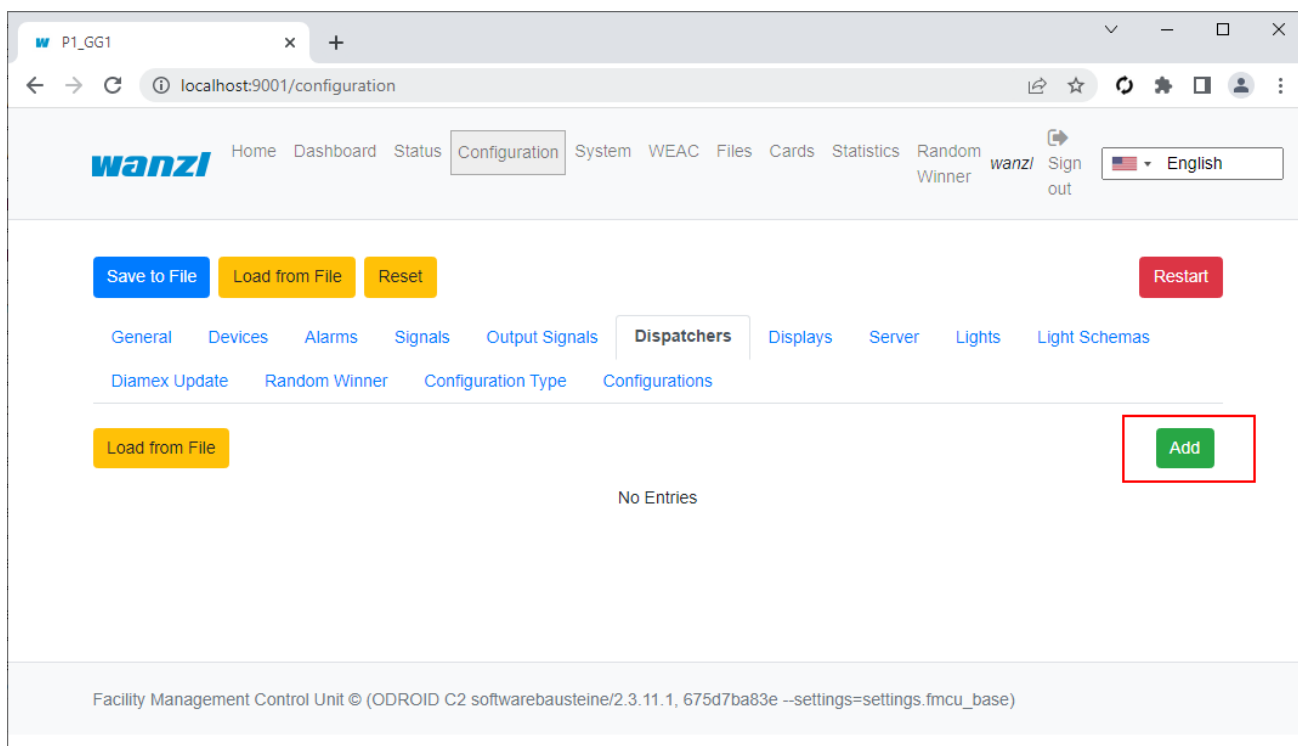
<input type="checkbox"/>	Name	Unique Name	Additional Test Required
<input type="checkbox"/>	1G	1G	<input type="checkbox"/>
<input type="checkbox"/>	1G+	1GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2G	2G	<input type="checkbox"/>
<input type="checkbox"/>	2G+	2GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	3G	3G	<input type="checkbox"/>
<input type="checkbox"/>	3G+	3GP	<input checked="" type="checkbox"/>

## Configuration of Galaxy Gate

In order COVID certificates and tests can be validated against the Covcheck server, the proper dispatcher and display must be selected and configured.

### Dispatcher

Open the URL of the gate, login with user **wanzl** and navigate to the **Configuration** page. Select tab **Dispatchers** and click **Add**:



In the combo box under the title **Dispatcher** select **Covcheck**, modify the following properties if needed and click **Save**:

**URL**

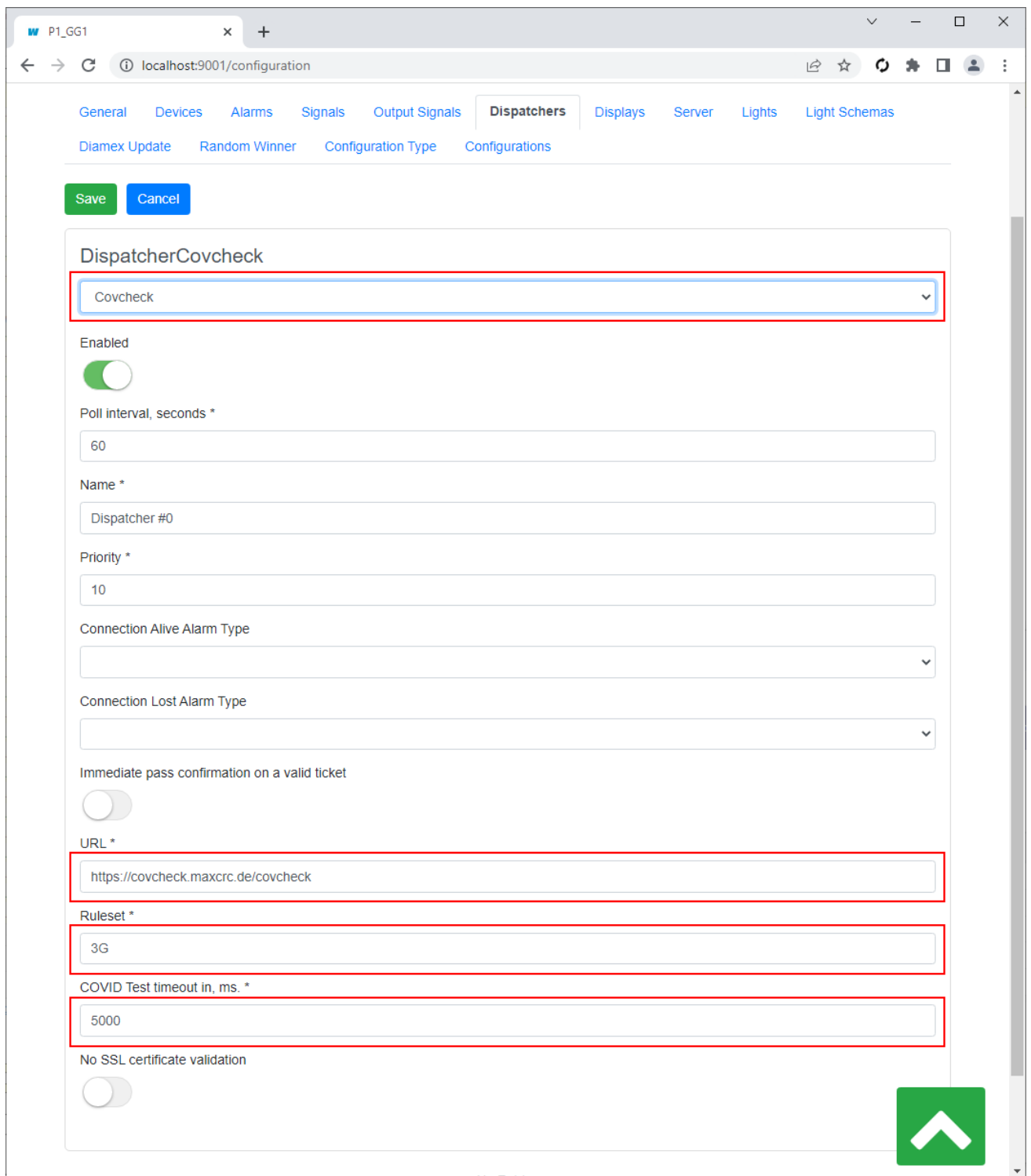
Base URL of Covcheck's API

**Ruleset**

Ruleset for validating COVID certificates and tests

**COVID Test timeout, ms**

When a COVID test is required, specifies the timeout of waiting for it



Browser window: P1\_GG1, localhost:9001/configuration

Navigation: General, Devices, Alarms, Signals, Output Signals, **Dispatchers**, Displays, Server, Lights, Light Schemas

Sub-navigation: Diamex Update, Random Winner, Configuration Type, Configurations

Buttons: Save, Cancel

DispatcherCovcheck

Covcheck

Enabled

Poll interval, seconds \*  
60

Name \*  
Dispatcher #0

Priority \*  
10

Connection Alive Alarm Type

Connection Lost Alarm Type

Immediate pass confirmation on a valid ticket

URL \*  
https://covcheck.maxcrc.de/covcheck

Ruleset \*  
3G

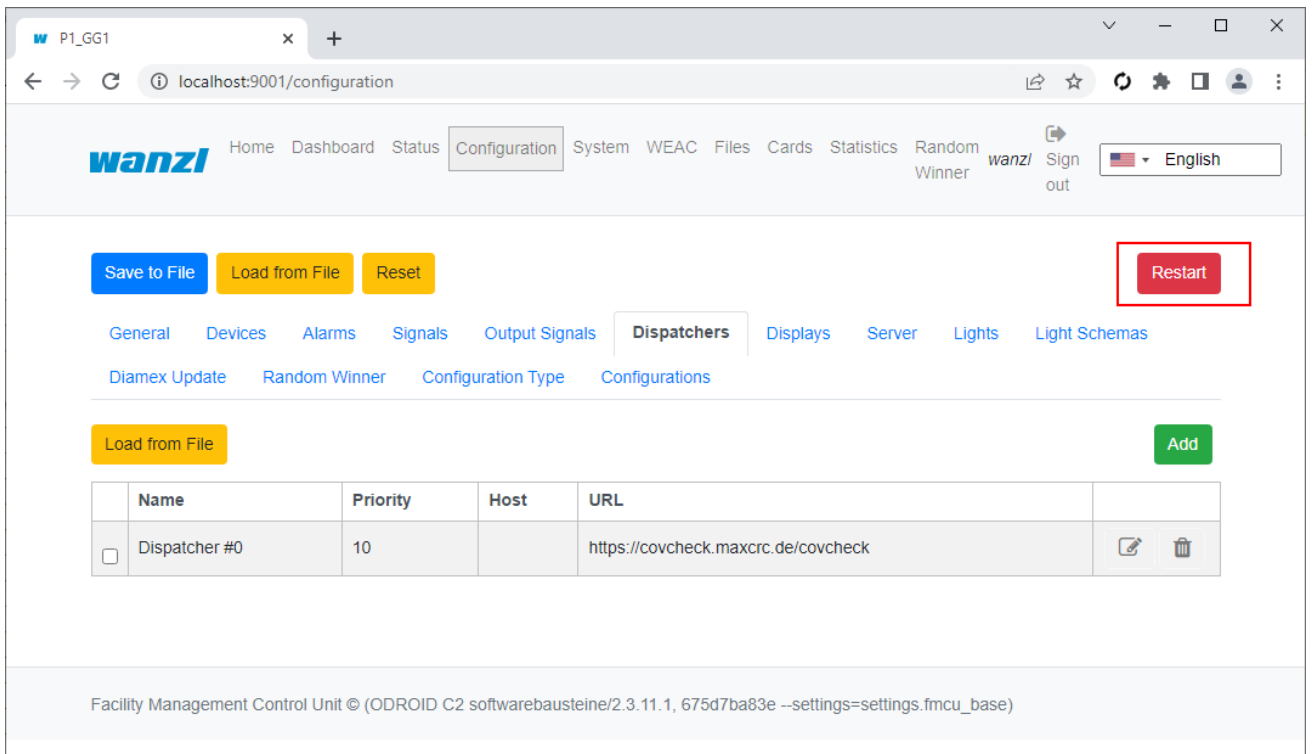
COVID Test timeout in, ms. \*  
5000

No SSL certificate validation



Green arrow button

Restart the gate:

## Covcheck

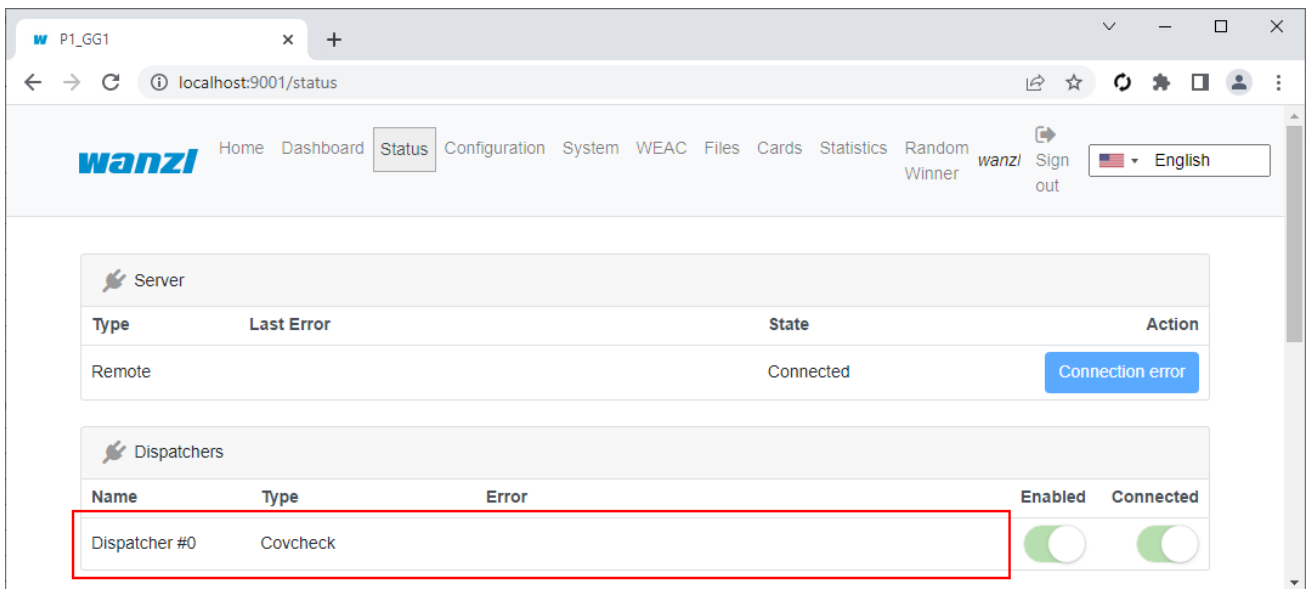


The screenshot shows the Wanzl Configuration page for Covcheck. The browser address bar shows localhost:9001/configuration. The navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The user is logged in as 'wanzl'. The page has several buttons: 'Save to File' (blue), 'Load from File' (yellow), 'Reset' (yellow), and 'Restart' (red, highlighted with a red box). Below these are tabs for 'General', 'Devices', 'Alarms', 'Signals', 'Output Signals', 'Dispatchers' (selected), 'Displays', 'Server', 'Lights', and 'Light Schemas'. Under 'Dispatchers', there is a 'Load from File' button and an 'Add' button. A table lists the dispatcher configuration:

	Name	Priority	Host	URL	
<input type="checkbox"/>	Dispatcher #0	10		https://covcheck.maxcrc.de/covcheck	 

At the bottom, it says 'Facility Management Control Unit © (ODROID C2 softwarebausteine/2.3.11.1, 675d7ba83e --settings=settings.fmcu\_base)'. The footer also contains the text 'Facility Management Control Unit © (ODROID C2 softwarebausteine/2.3.11.1, 675d7ba83e --settings=settings.fmcu\_base)'.

If the Covcheck server is available, the **Error** field is empty:



The screenshot shows the Wanzl Status page for Covcheck. The browser address bar shows localhost:9001/status. The navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The user is logged in as 'wanzl'. The page displays the status of the server and dispatchers.

**Server**

Type	Last Error	State	Action
Remote		Connected	<a href="#">Connection error</a>

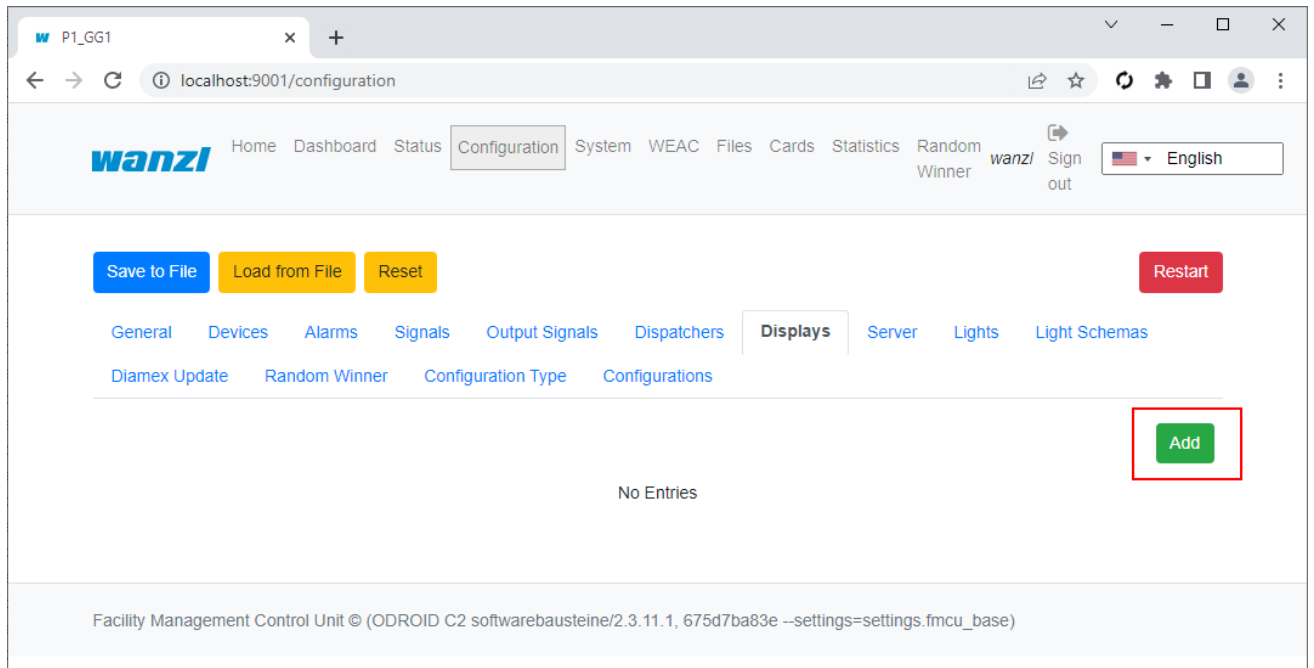
**Dispatchers**

Name	Type	Error	Enabled	Connected
Dispatcher #0	Covcheck		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

The 'Error' field for the Dispatcher #0 is highlighted with a red box, indicating it is empty.

## Display

Open the URL of the gate, login with user **wanzl** and navigate to the **Configuration** page. Select tab **Displays** and click **Add**:



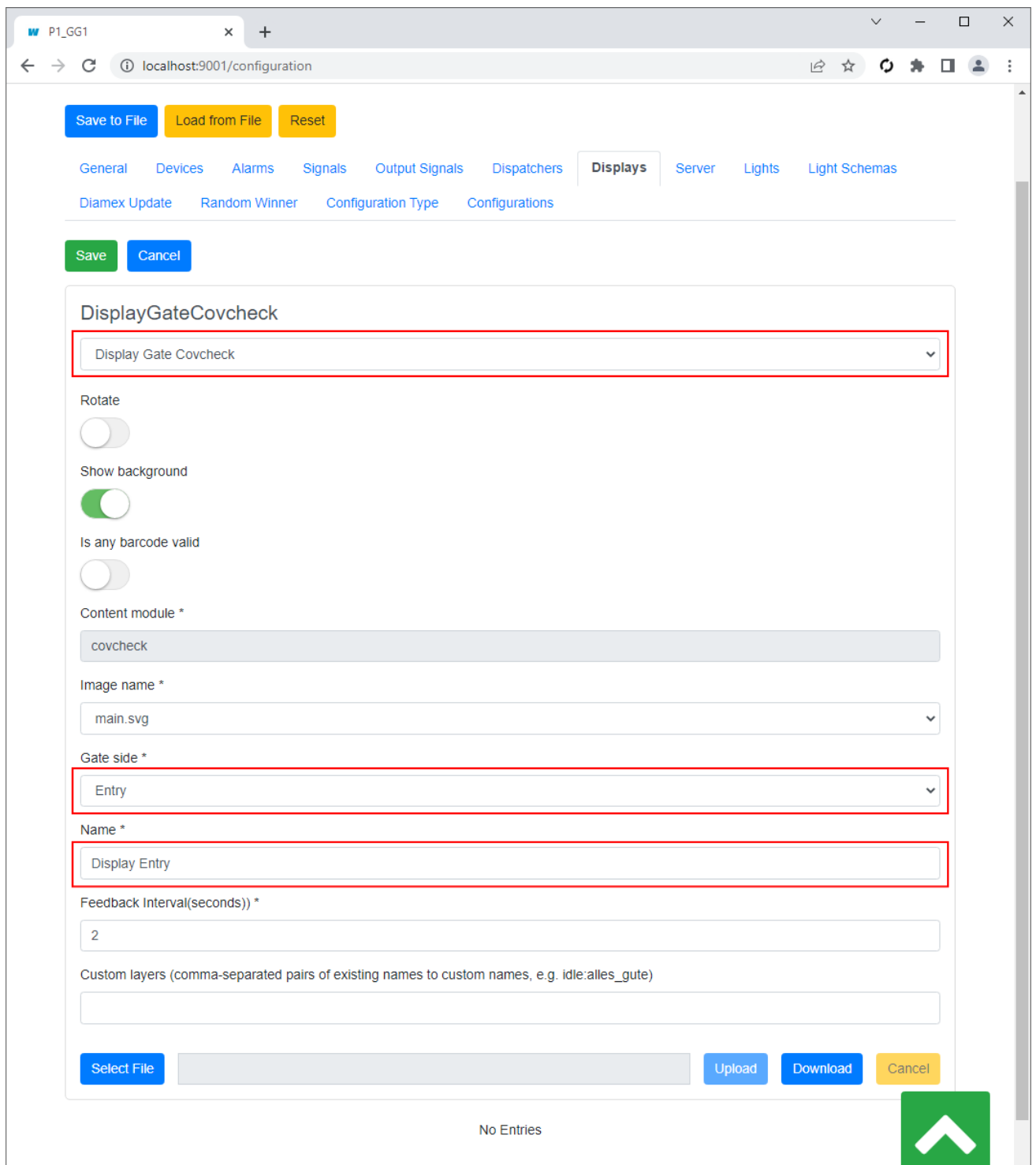
In the combo box under the title **Display** select **Display Gate Covcheck**, modify the following properties if needed and click **Save**:

**Gate side**

Side of the display, **Entry** or **Exit**

**Name**

User-friendly name

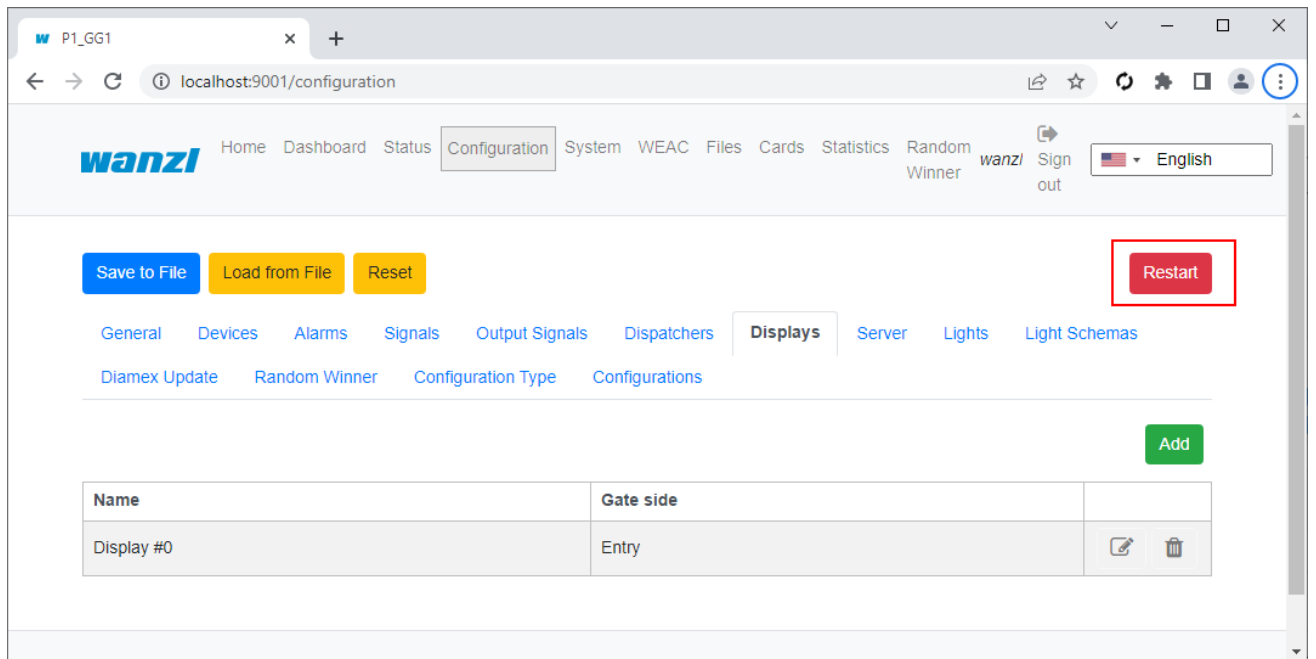


The screenshot shows a web browser window at localhost:9001/configuration. The interface includes navigation tabs for General, Devices, Alarms, Signals, Output Signals, Dispatchers, **Displays**, Server, Lights, and Light Schemas. Below these are sub-tabs for Diamex Update, Random Winner, Configuration Type, and Configurations. The main content area is titled 'DisplayGateCovcheck' and contains several configuration options:

- Buttons: Save to File, Load from File, Reset, Save, Cancel.
- Dropdown menu: Display Gate Covcheck (highlighted with a red box).
- Rotate: Toggle switch (off).
- Show background: Toggle switch (on).
- Is any barcode valid: Toggle switch (off).
- Content module \*: covcheck.
- Image name \*: main.svg.
- Gate side \*: Entry (highlighted with a red box).
- Name \*: Display Entry (highlighted with a red box).
- Feedback Interval(seconds) \*: 2.
- Custom layers (comma-separated pairs of existing names to custom names, e.g. idle:alles\_gute): Empty text field.
- Buttons: Select File, Upload, Download, Cancel.

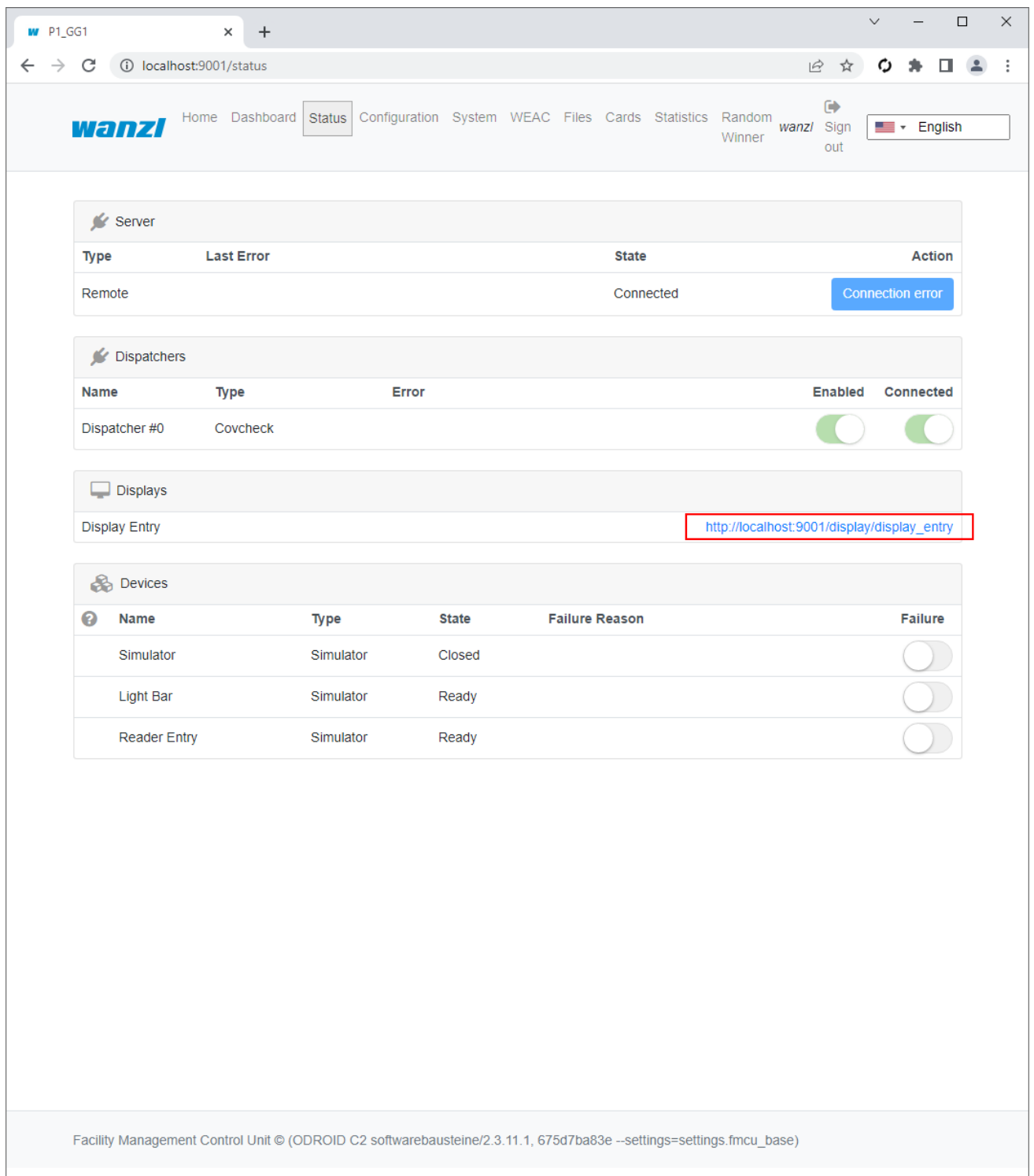
At the bottom, it says 'No Entries' and there is a green arrow button pointing up.

Restart the gate:



Navigate to the **Status** page and open the link corresponding to the display:

Covcheck



The screenshot shows a web browser window with the URL `localhost:9001/status`. The page is the 'Status' page of the Wanzl system. It features a navigation menu with 'Home', 'Dashboard', 'Status', 'Configuration', 'System', 'WEAC', 'Files', 'Cards', 'Statistics', and 'Random Winner'. There is also a 'Sign out' button and a language selector set to 'English'.

The main content area is divided into four sections:

- Server:** A table with columns 'Type', 'Last Error', 'State', and 'Action'. It shows one entry: 'Remote' with state 'Connected' and an 'Action' button labeled 'Connection error'.
- Dispatchers:** A table with columns 'Name', 'Type', 'Error', 'Enabled', and 'Connected'. It shows one entry: 'Dispatcher #0' of type 'Covcheck', with both 'Enabled' and 'Connected' toggle switches turned on.
- Displays:** A table with columns 'Display Entry' and 'Action'. It shows one entry: 'Display Entry' with a link to `http://localhost:9001/display/display_entry` (highlighted with a red box).
- Devices:** A table with columns 'Name', 'Type', 'State', 'Failure Reason', and 'Failure'. It shows three entries: 'Simulator' (State: Closed), 'Light Bar' (State: Ready), and 'Reader Entry' (State: Ready). Each entry has a 'Failure' toggle switch.

At the bottom of the page, there is a footer: 'Facility Management Control Unit © (ODROID C2 softwarebausteine/2.3.11.1, 675d7ba83e --settings=settings.fmcu\_base)'.

The following screen for the idle state invites to present a COVID certificate:





When in addition a test certificate is required, the next screen asks to show it:



