

# 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 ./covcheck-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

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

archived covcheck and request\_extension ODOO addons

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

docker compose file

### **git-submodule-status**

information about git submodules that comprise the Covcheck application server

### **install-covcheck.sh**

primary installation script

### **nginx-vhost**

template vhost file for nginx

### **odoo.conf**

configuration file for ODOO

## Configuration of Covcheck Application Server

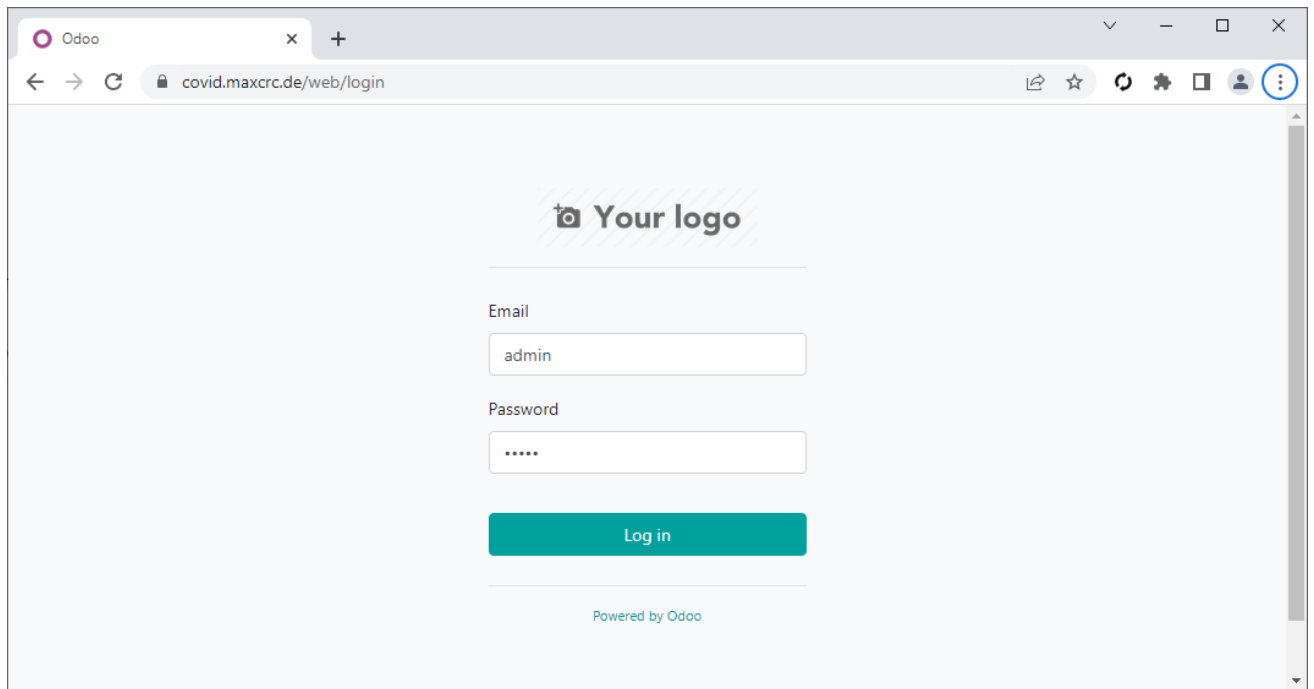
---

### Change Default Password

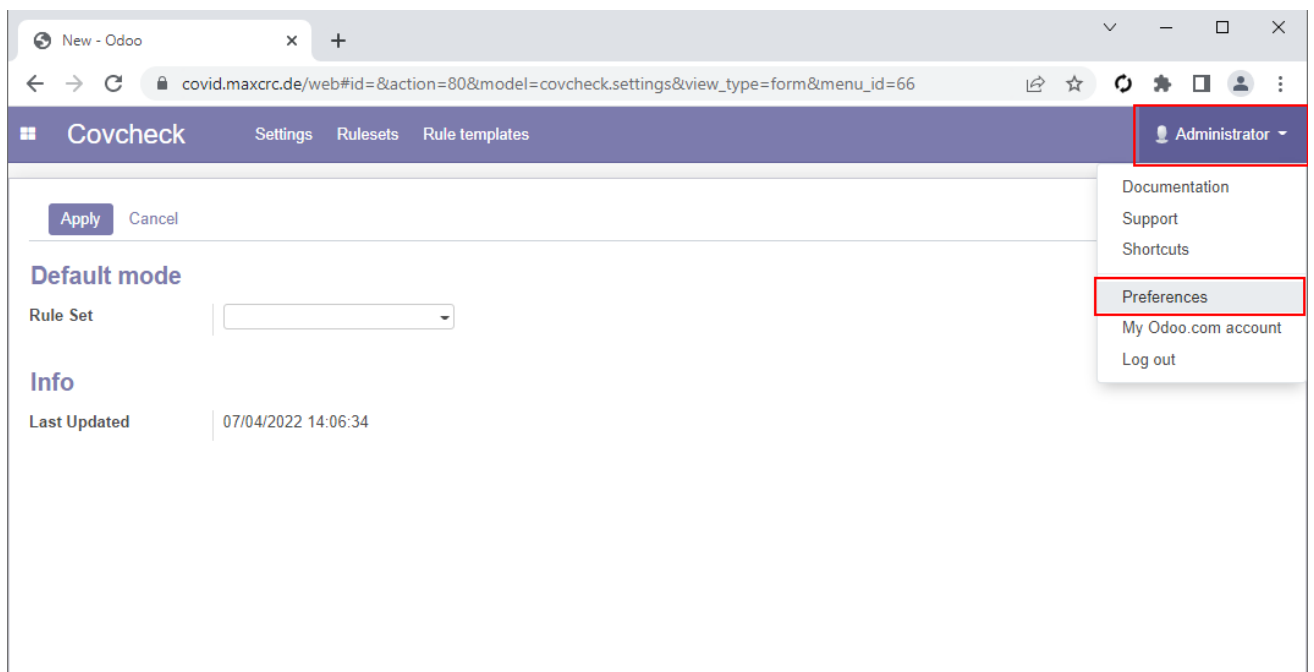
---

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

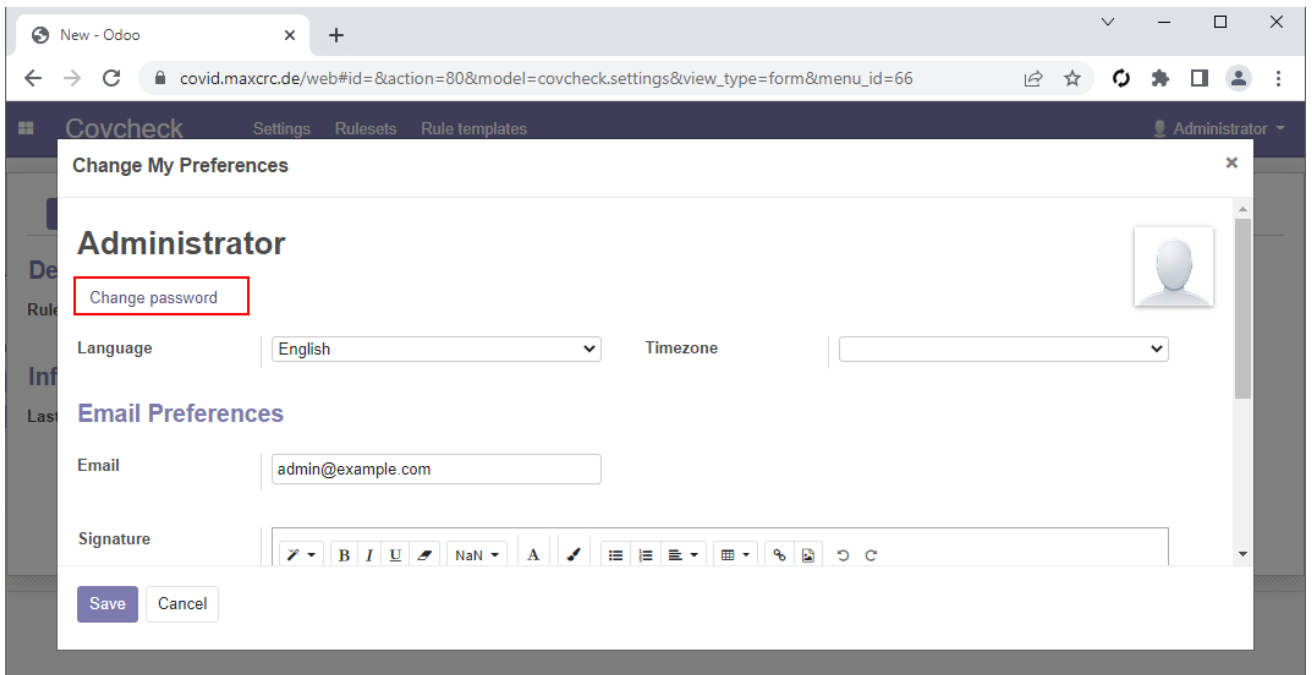
Username	Password
admin	admin



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

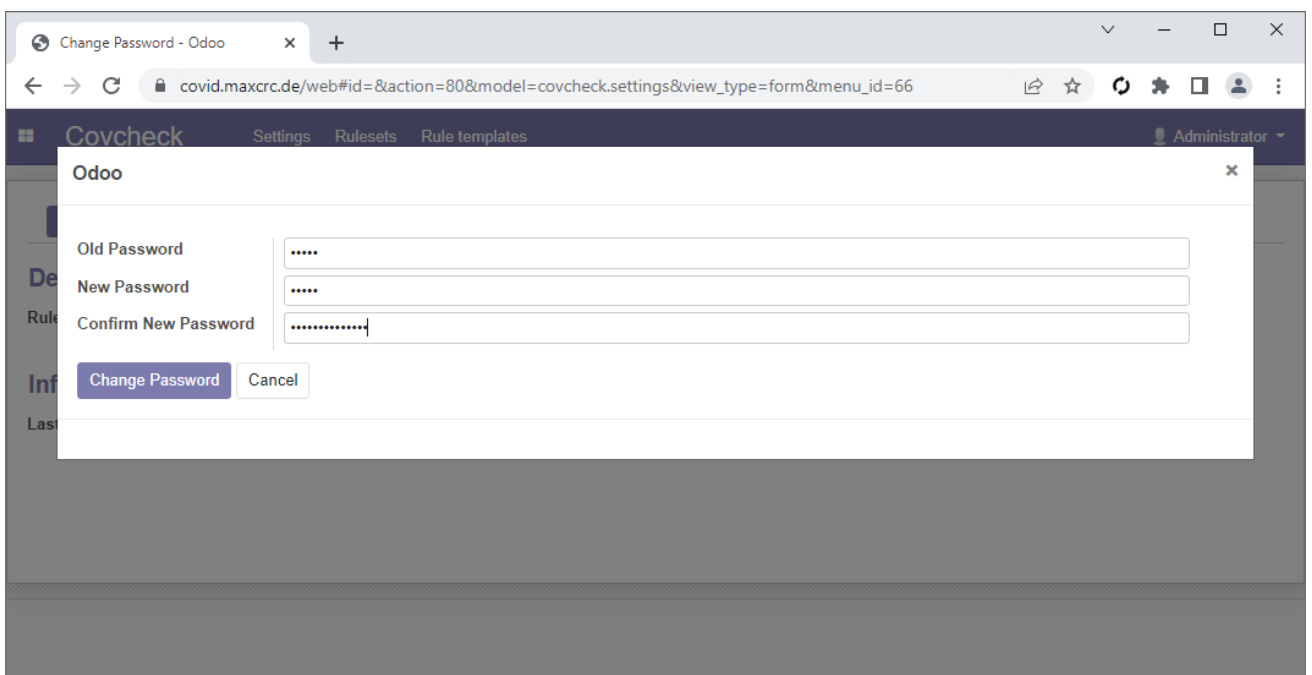


In the opened window click **Change password**:



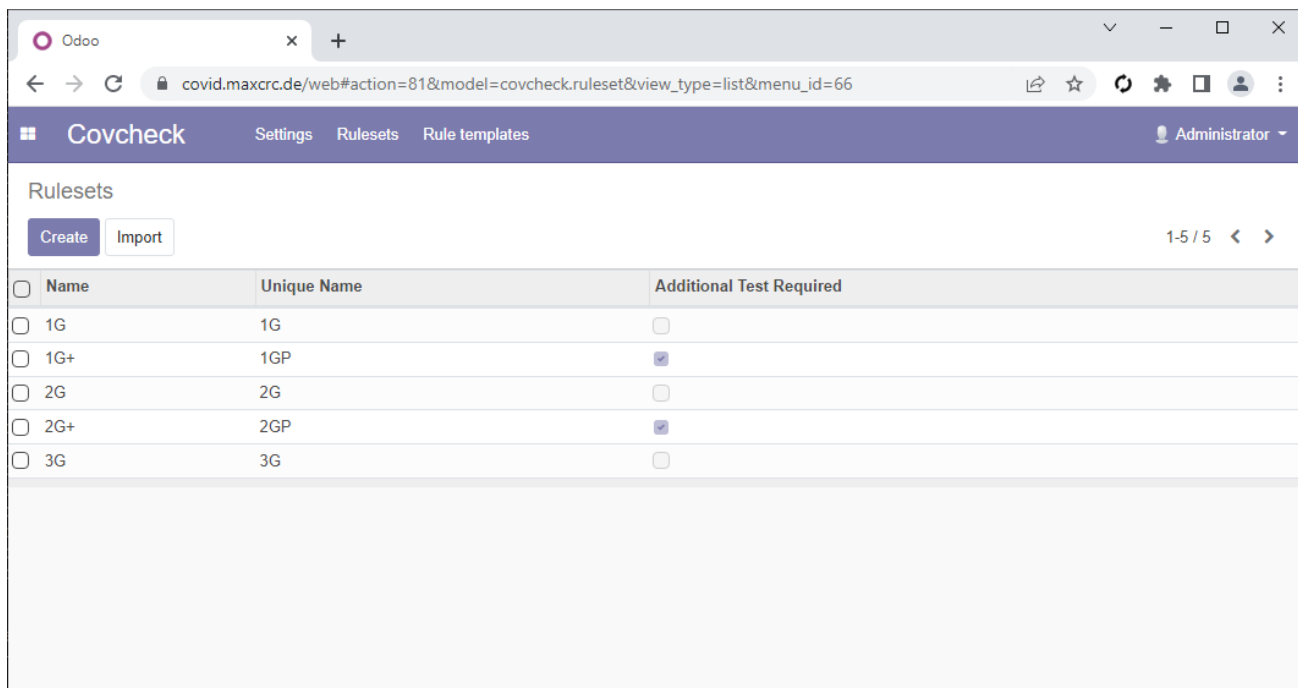
Fill-in the following fields and then click **Change Password**:

- Old Password
- New Password
- Confirm New Password



## Managing Rulesets

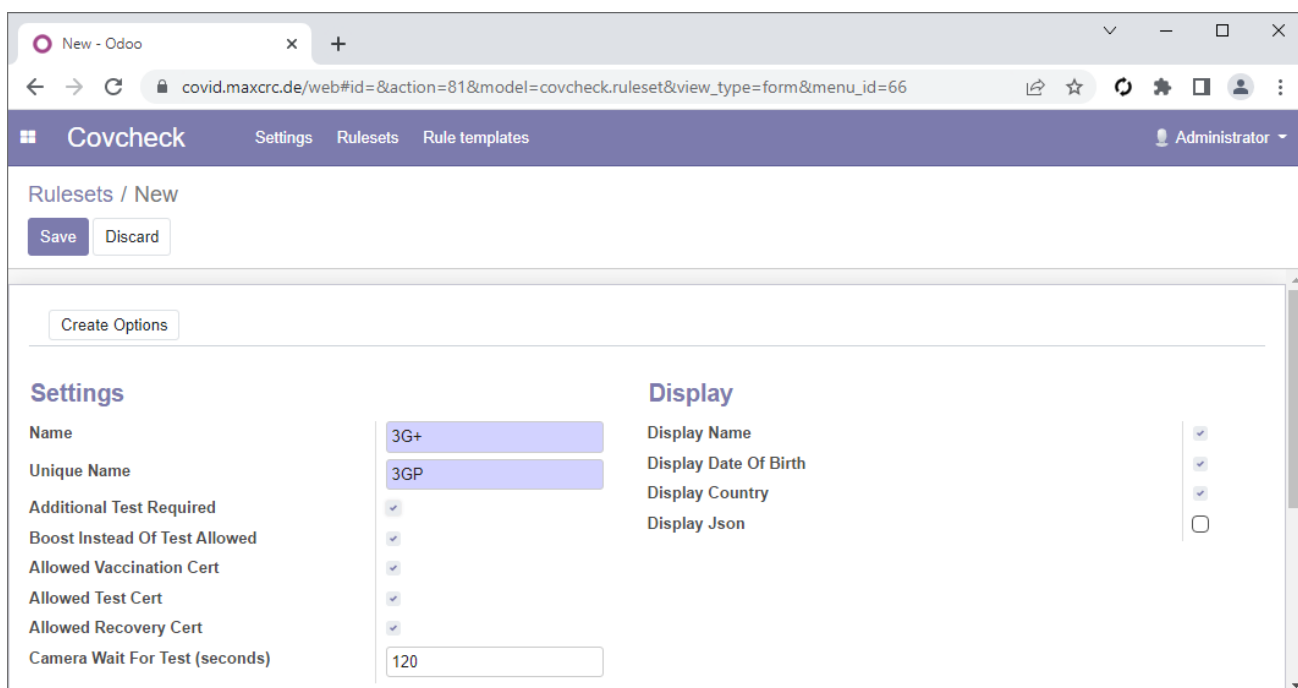
You can add, modify and delete rulesets on the **Rulesets** page:



The screenshot shows the Odoo web interface for the 'Covcheck' application. The browser address bar shows 'covid.maxcrc.de/web#action=81&model=covcheck.ruleset&view\_type=list&menu\_id=66'. The navigation menu includes 'Settings', 'Rulesets', and 'Rule templates'. The user is logged in as 'Administrator'. The main content area is titled 'Rulesets' and contains a table with the following data:

<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"/>

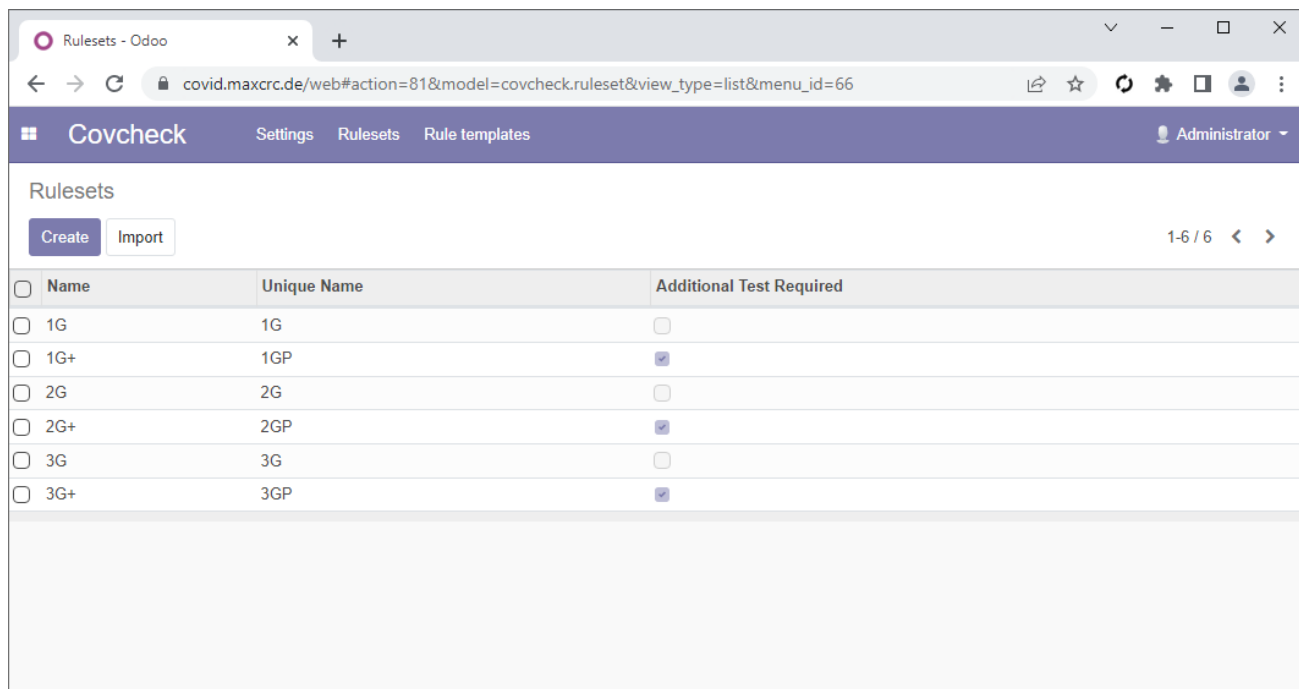
For example, let us create a ruleset **3G+**, which requires an additional test. Click **Create** fill-in the fields **Name** and **Unique Name**, check **Additional Test Required** and click **Save**:



The screenshot shows the 'Rulesets / New' form in the Odoo web interface. The browser address bar shows 'covid.maxcrc.de/web#id=&action=81&model=covcheck.ruleset&view\_type=form&menu\_id=66'. The navigation menu includes 'Settings', 'Rulesets', and 'Rule templates'. The user is logged in as 'Administrator'. The form contains the following fields:

Settings	Display
Name	3G+
Unique Name	3GP
Additional Test Required	<input checked="" type="checkbox"/>
Boost Instead Of Test Allowed	<input checked="" type="checkbox"/>
Allowed Vaccination Cert	<input checked="" type="checkbox"/>
Allowed Test Cert	<input checked="" type="checkbox"/>
Allowed Recovery Cert	<input checked="" type="checkbox"/>
Camera Wait For Test (seconds)	120
	Display Name <input checked="" type="checkbox"/>
	Display Date Of Birth <input checked="" type="checkbox"/>
	Display Country <input checked="" type="checkbox"/>
	Display Json <input type="checkbox"/>

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



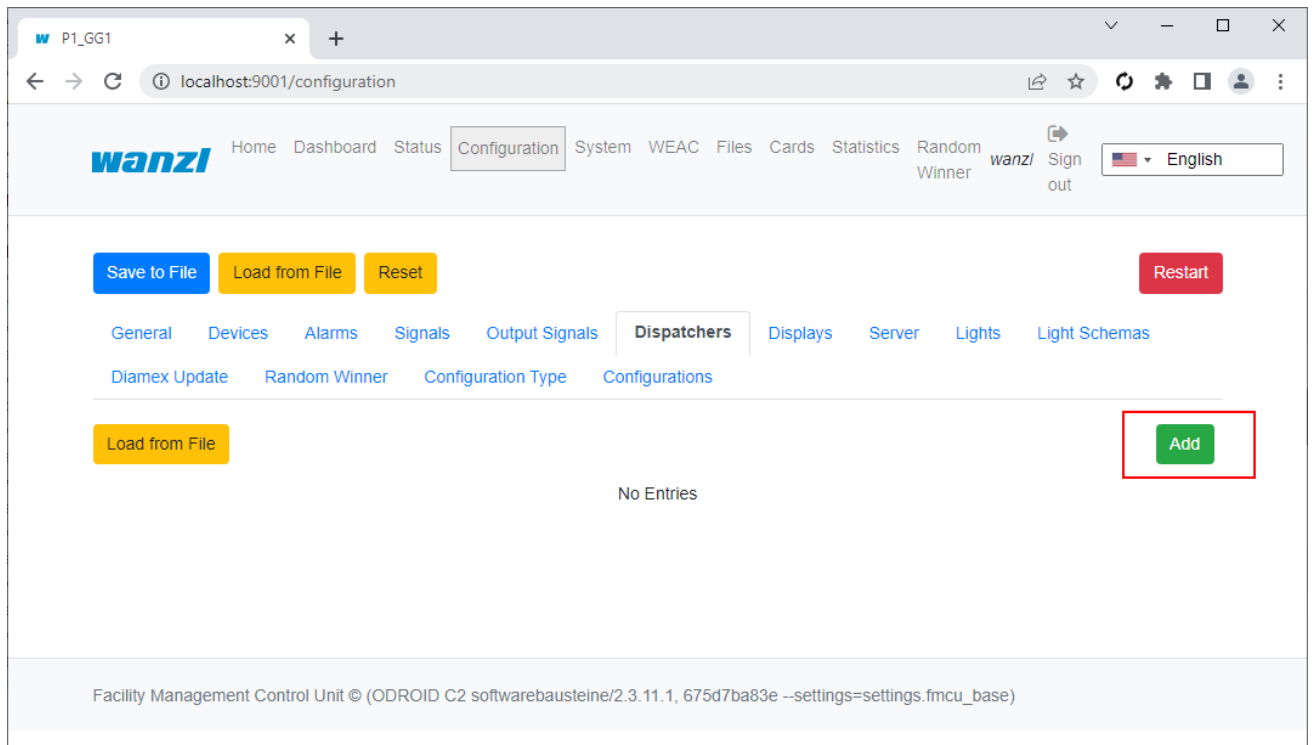
<input type="checkbox"/>	Name	Unique Name	Additional Test Required
<input type="checkbox"/>	1G	1G	<input type="checkbox"/>
<input type="checkbox"/>	1G+	1GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2G	2G	<input type="checkbox"/>
<input type="checkbox"/>	2G+	2GP	<input checked="" type="checkbox"/>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

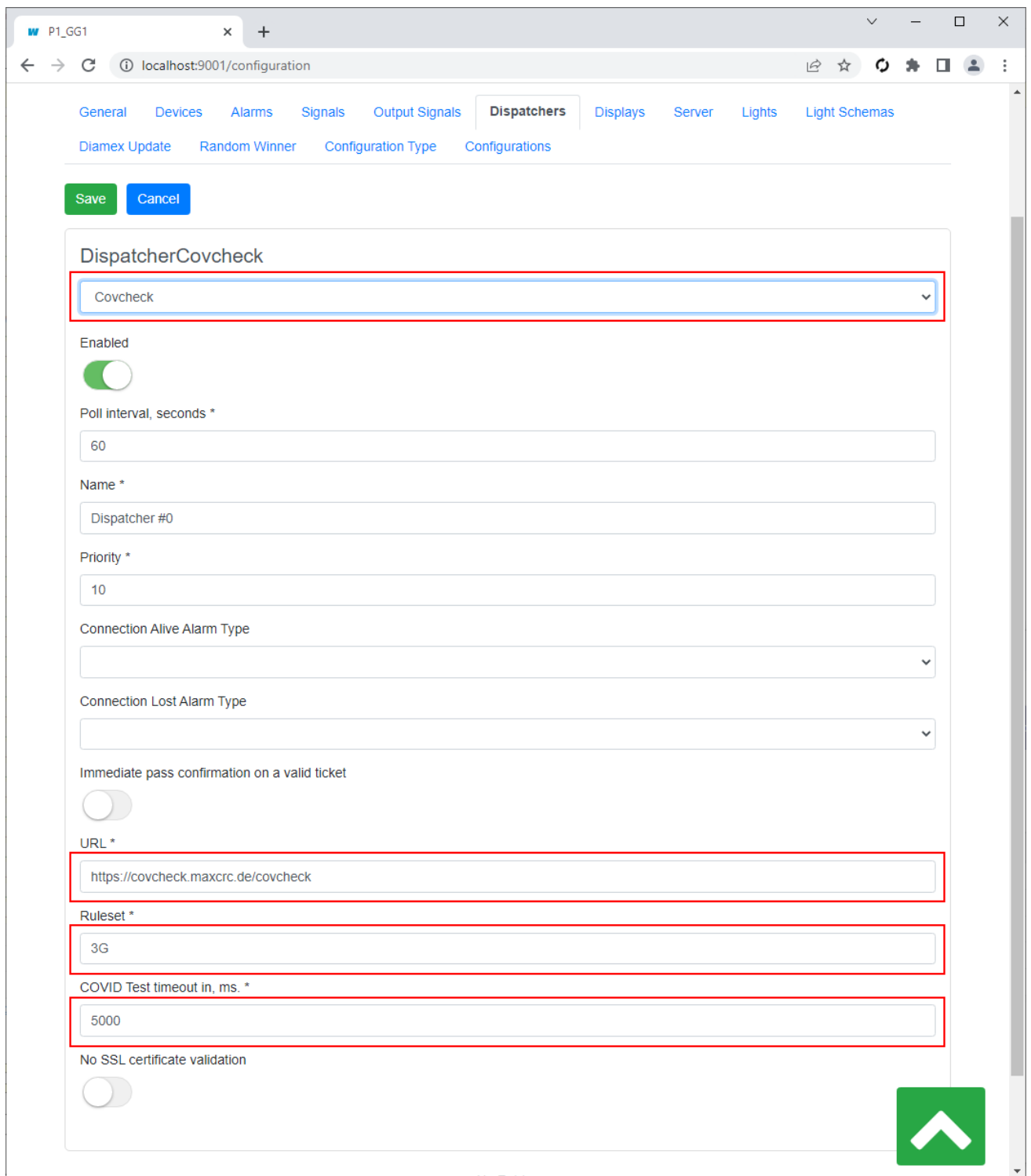
**Ruleset**

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

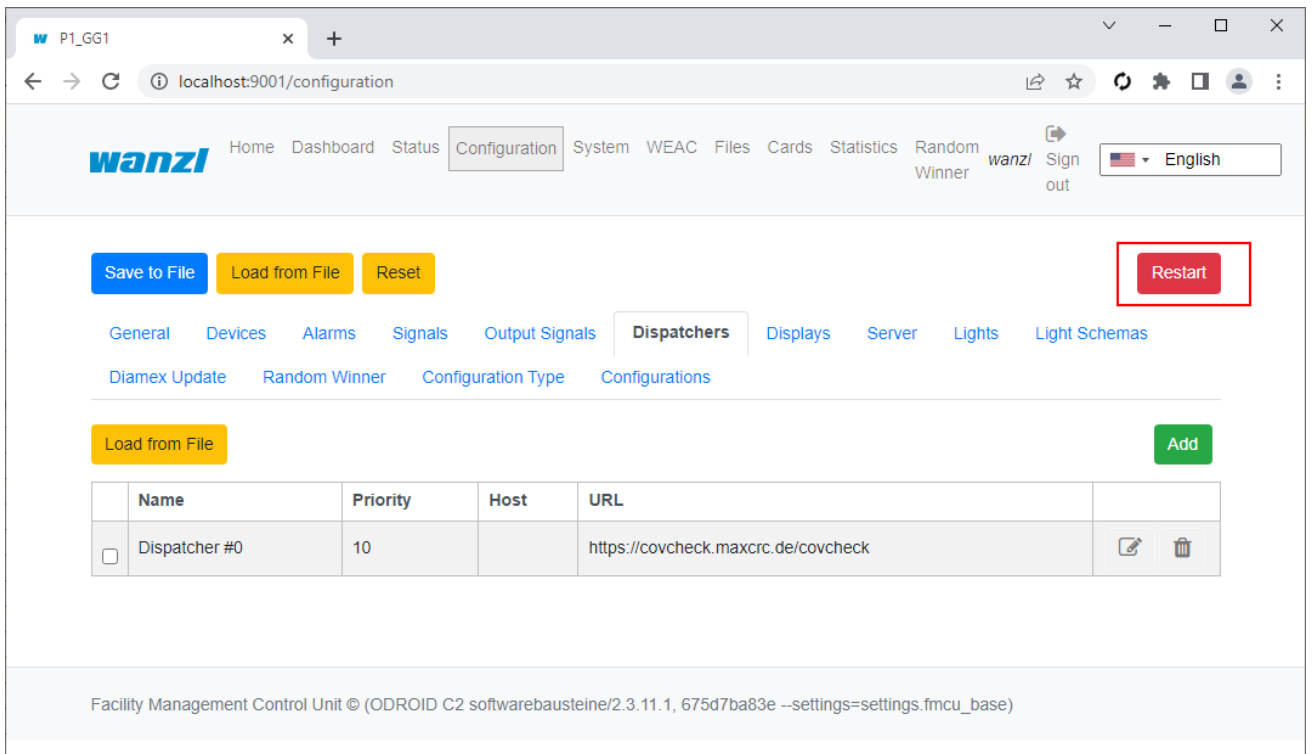
COVID Test timeout in, ms. \*  
5000

No SSL certificate validation

Green arrow button

Restart the gate:

## Covcheck





Save to File Load from File Reset Restart

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

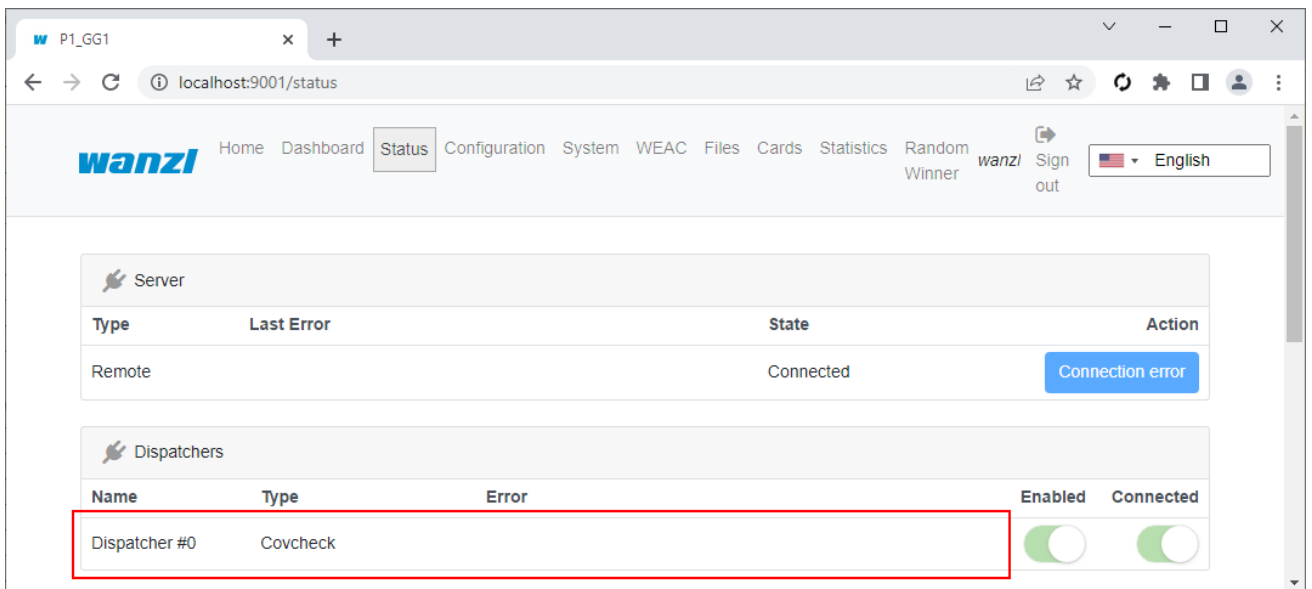
Diamex Update Random Winner Configuration Type Configurations

Load from File Add

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

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:



Server

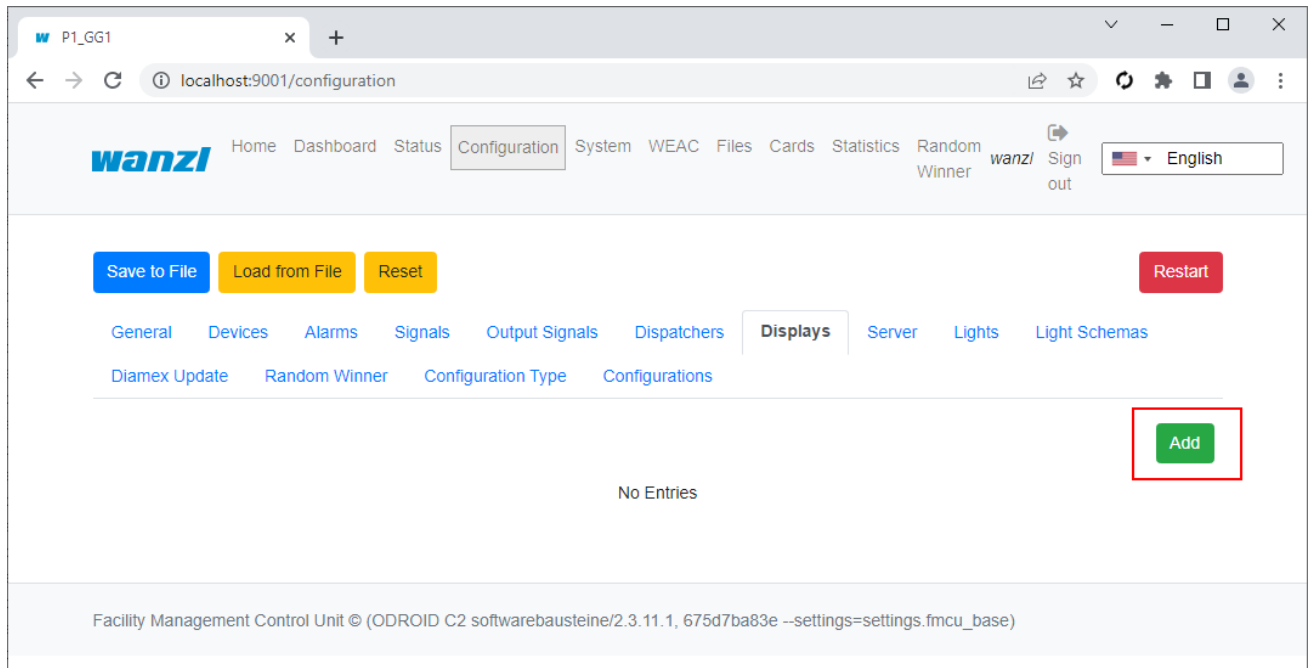
Type	Last Error	State	Action
Remote		Connected	Connection error

Dispatchers

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

## Display

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



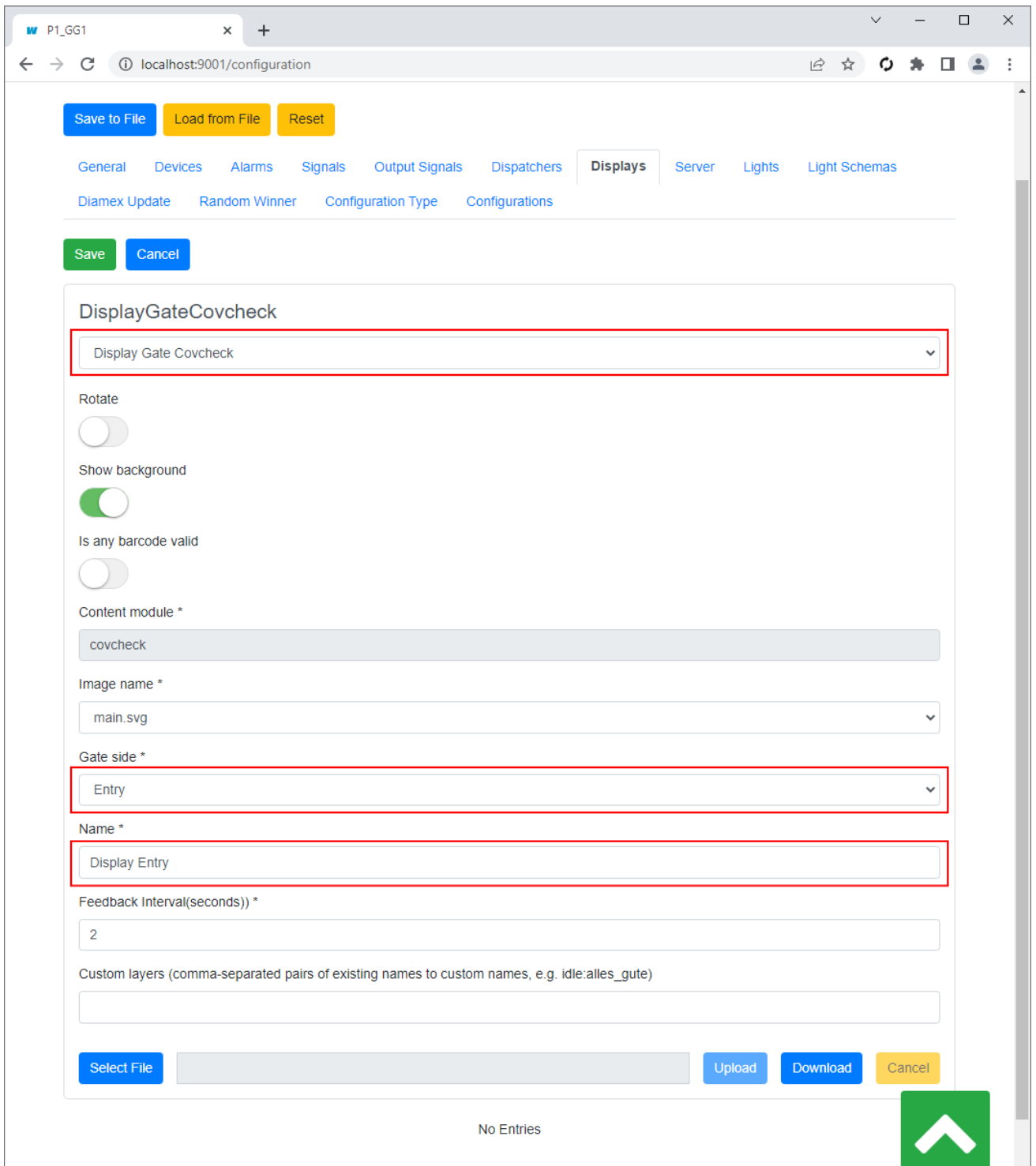
In the combo box under the title **Display** select **Display Gate Covcheck**, modify the following properties if needed and click **Save**:

**Gate side**

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

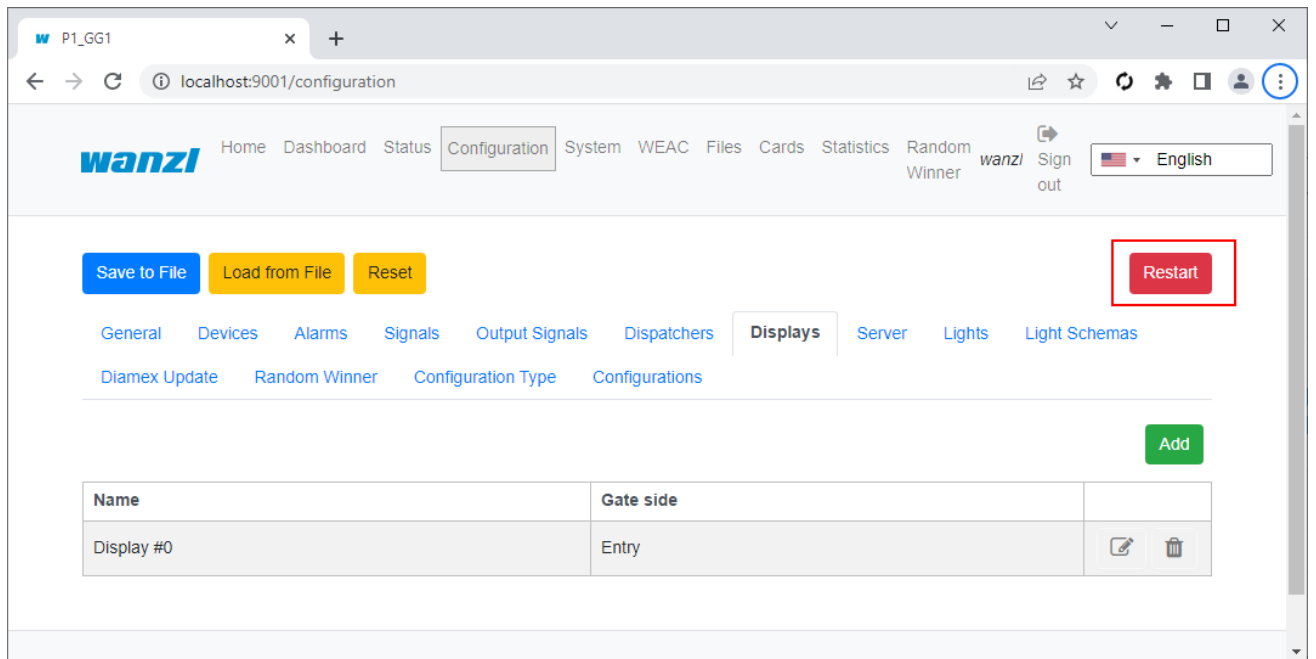
**Name**

User-friendly name

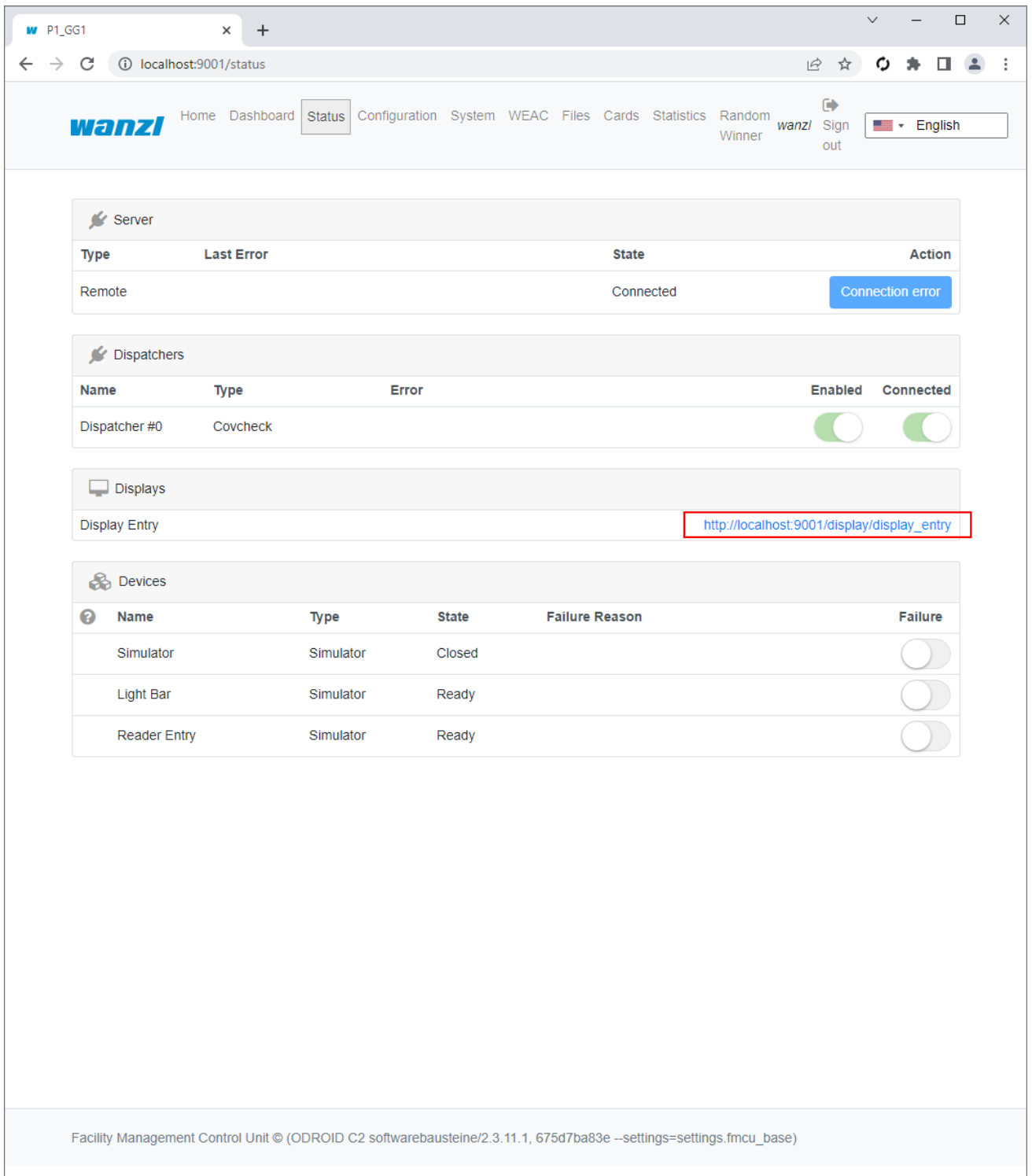


The screenshot shows a web browser window at localhost:9001/configuration. The interface includes navigation tabs for General, Devices, Alarms, Signals, Output Signals, Dispatchers, Displays (selected), Server, Lights, and Light Schemas. Below these are sub-tabs for Diamex Update, Random Winner, Configuration Type, and Configurations. Action buttons for 'Save to File', 'Load from File', and 'Reset' are at the top. A 'Save' button and 'Cancel' button are below the navigation. The main configuration area is titled 'DisplayGateCovcheck' and contains several fields: a dropdown menu for 'Display Gate Covcheck' (highlighted with a red box), a 'Rotate' toggle (off), a 'Show background' toggle (on), an 'Is any barcode valid' toggle (off), a 'Content module \*' field with 'covcheck', an 'Image name \*' dropdown with 'main.svg', a 'Gate side \*' dropdown with 'Entry' (highlighted with a red box), a 'Name \*' field with 'Display Entry' (highlighted with a red box), a 'Feedback Interval(seconds) \*' field with '2', and a 'Custom layers' field. At the bottom, there are 'Select File', 'Upload', 'Download', and 'Cancel' buttons. A green arrow button is in the bottom right corner. The text 'No Entries' is displayed at the bottom center.

Restart the gate:



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



The screenshot shows a web browser window with the address bar displaying 'localhost:9001/status'. The page header includes the 'wanzl' logo and navigation links: Home, Dashboard, Status (active), Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, wanzl, and Sign out. A language dropdown menu is 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 'Connected' state and a 'Connection error' button.
- Dispatchers:** A table with columns 'Name', 'Type', 'Error', 'Enabled', and 'Connected'. It shows one entry: 'Dispatcher #0' with 'Covcheck' type, 'Enabled' and 'Connected' toggle switches.
- 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'.
- Devices:** A table with columns 'Name', 'Type', 'State', 'Failure Reason', and 'Failure'. It shows three entries: 'Simulator' (Closed), 'Light Bar' (Ready), and 'Reader Entry' (Ready), each with a 'Failure' toggle switch.

The footer contains the text: '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:





