

# Covcheck

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## 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 **covid-installer.tar.gz** with the files listed in [Installation Files](#)

### Installation Steps

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

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

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

## Covcheck

```
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
```

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](#)

## 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

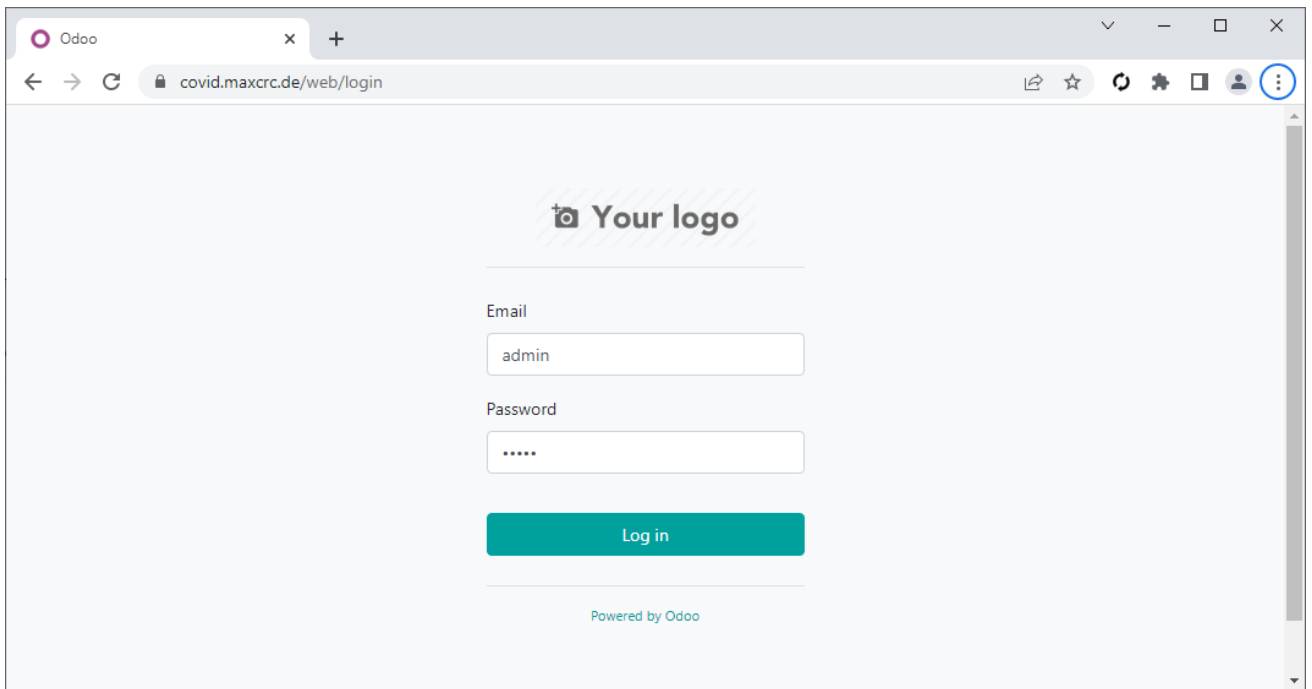
---

### Change Default Password

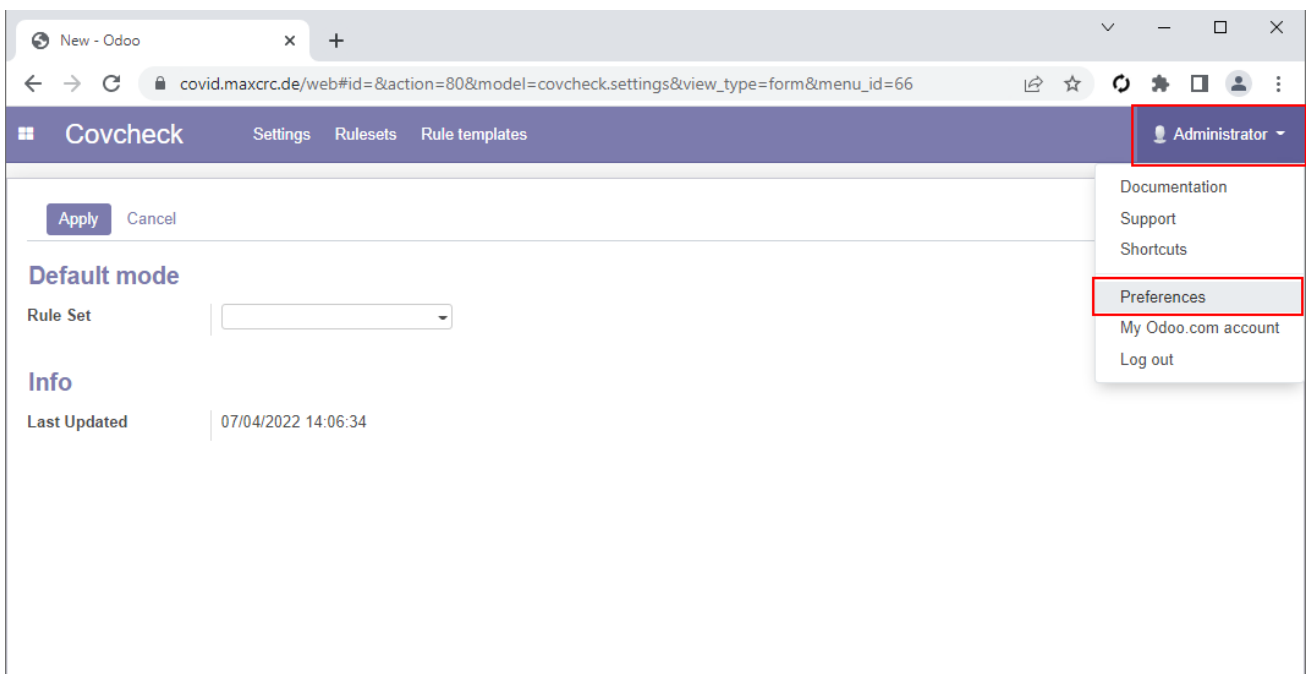
---

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

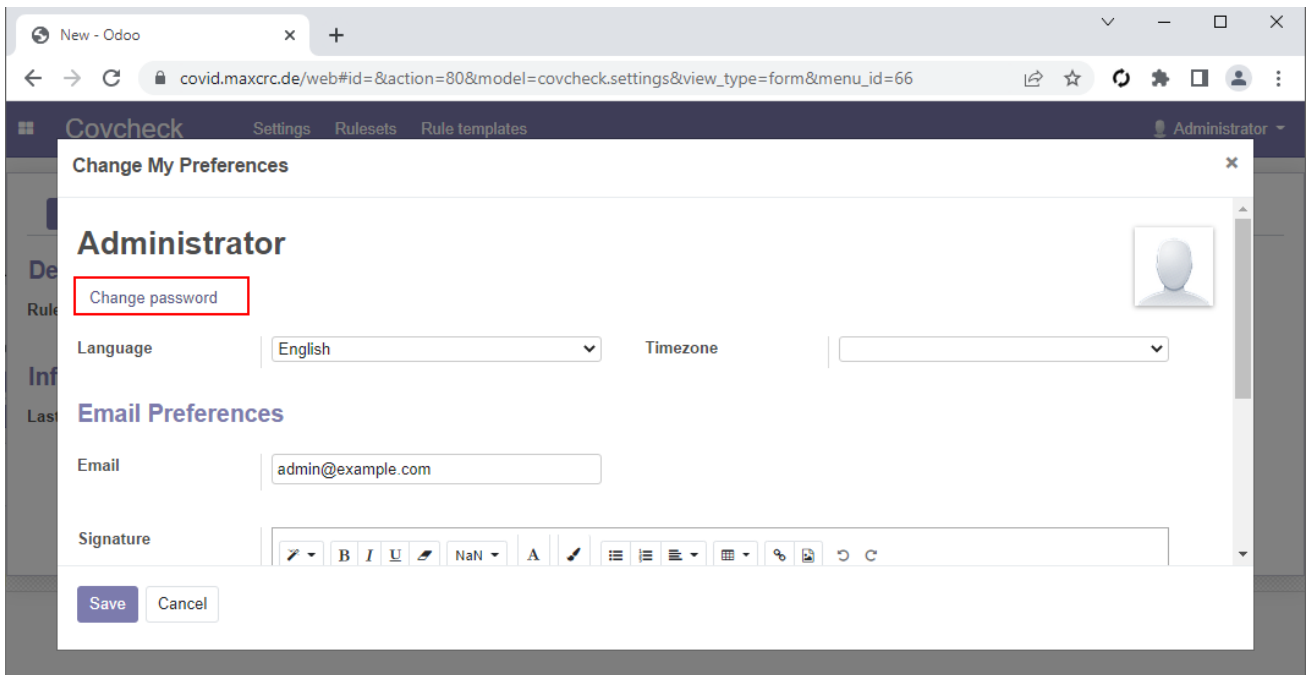
Username	Password
admin	admin



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

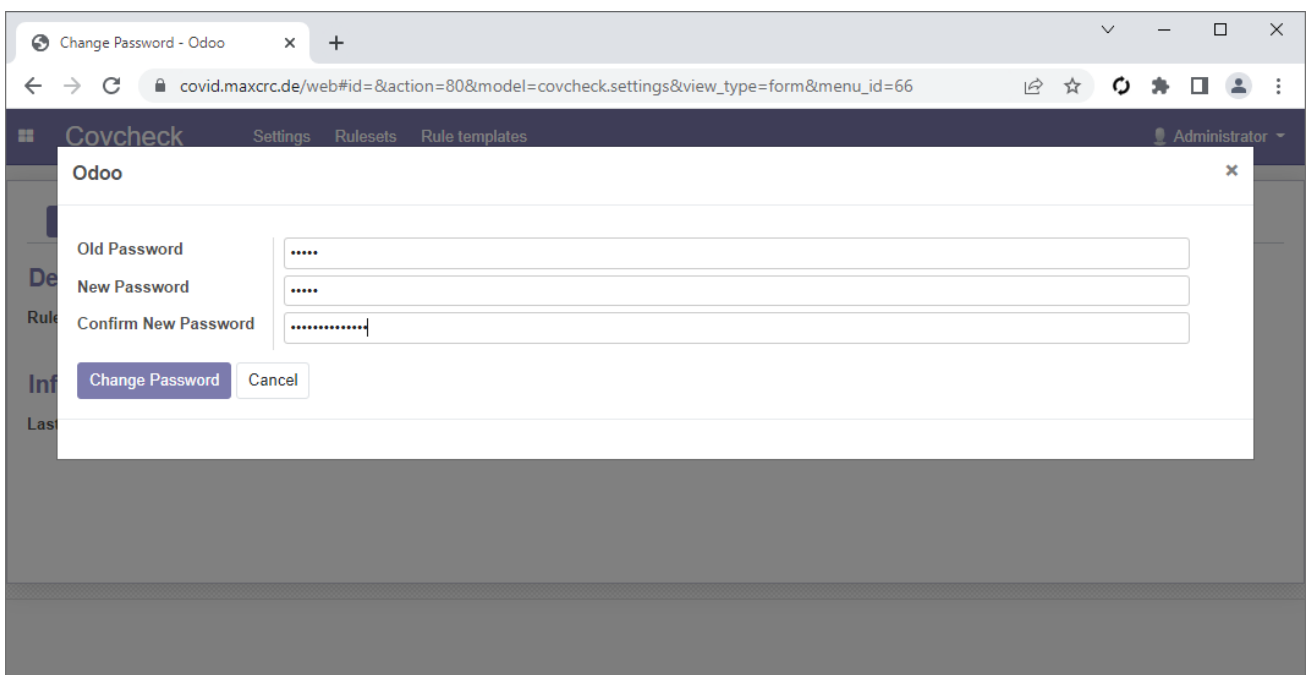


In the opened window click **Change password**:



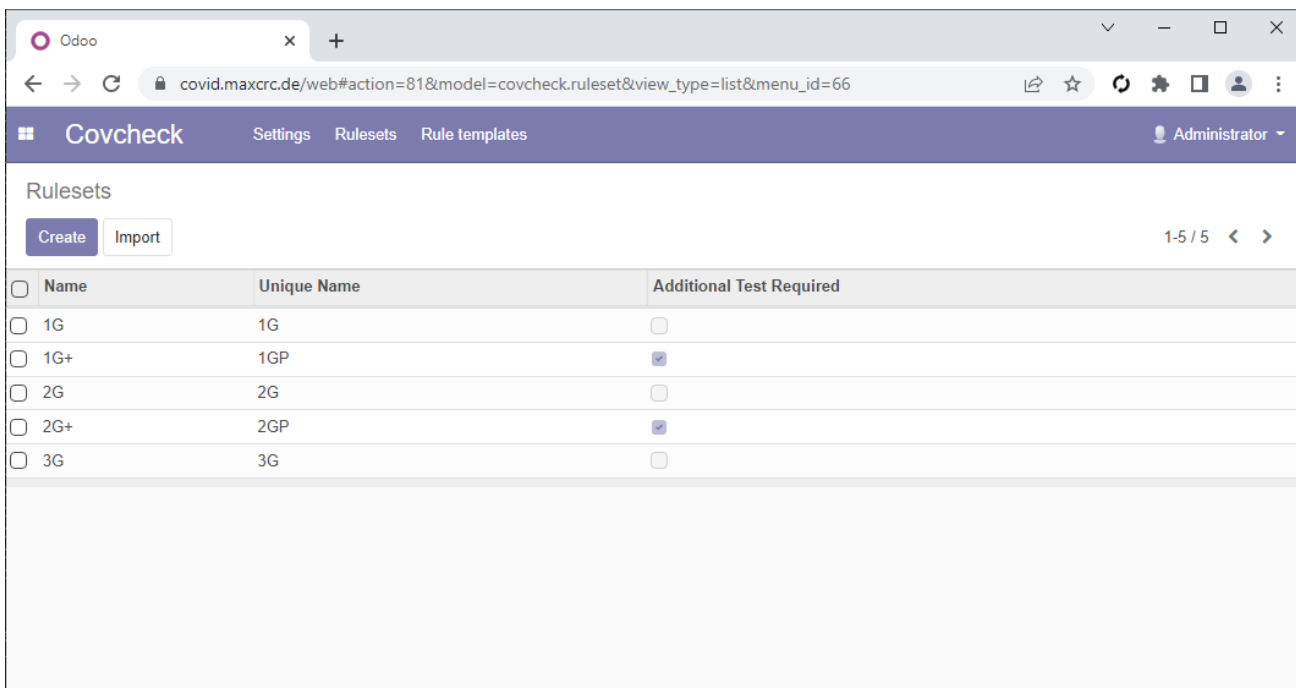
Fill-in the following fields and then click **Change Password**:

- ■ Old Password
- ■ New Password
- ■ Confirm New Password



## Managing Rulesets

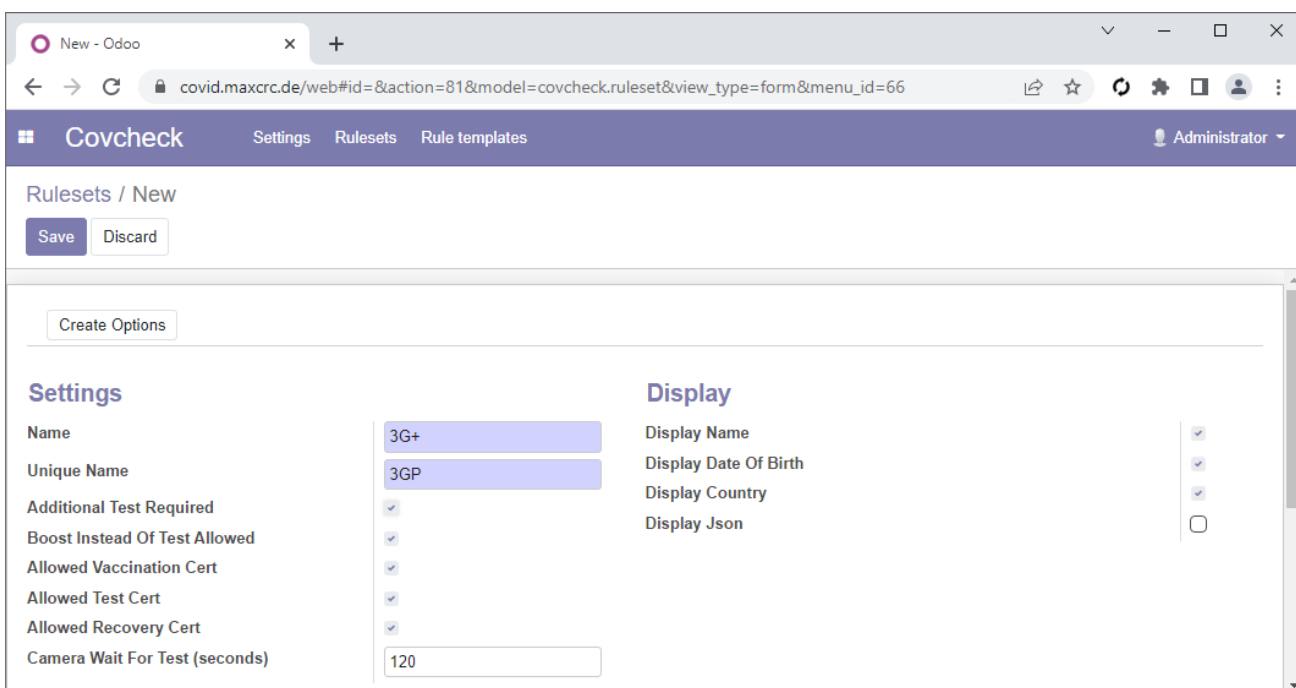
You can add, modify and delete rulesets on the **Rulesets** page:



The screenshot shows the Odoo web interface for the 'Covcheck' application. The browser address bar shows the URL: covid.maxcrc.de/web#action=81&model=covcheck.ruleset&view\_type=list&menu\_id=66. The page title is 'Covcheck' and the user is logged in as 'Administrator'. The main content area is titled 'Rulesets' and contains two buttons: 'Create' and 'Import'. Below the buttons is a table with the following columns: 'Name', 'Unique Name', and 'Additional Test Required'. The table contains five rows of 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**:



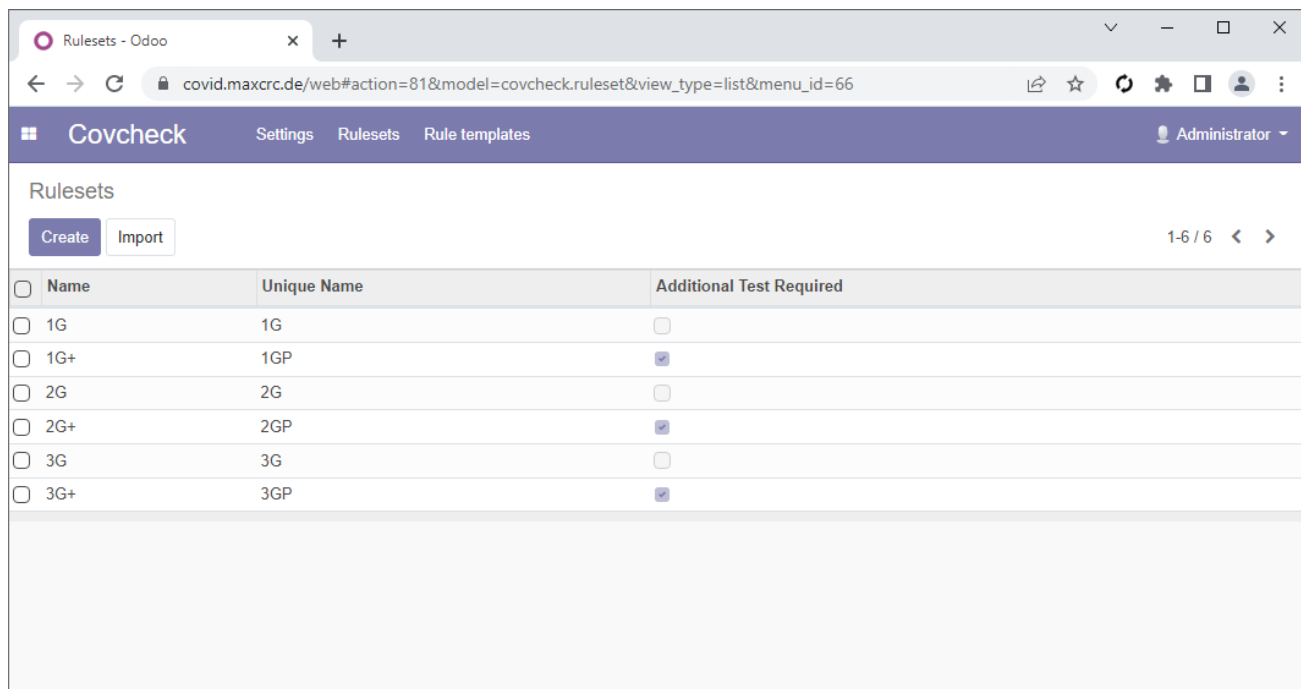
The screenshot shows the Odoo web interface for the 'Covcheck' application, specifically the 'Rulesets / New' form. The browser address bar shows the URL: covid.maxcrc.de/web#id=&action=81&model=covcheck.ruleset&view\_type=form&menu\_id=66. The page title is 'Covcheck' and the user is logged in as 'Administrator'. The main content area is titled 'Rulesets / New' and contains two buttons: 'Save' and 'Discard'. Below the buttons is a 'Create Options' button. The form is divided into two sections: 'Settings' and 'Display'. The 'Settings' section contains the following fields:

- Name: 3G+
- Unique Name: 3GP
- Additional Test Required:
- Boost Instead Of Test Allowed:
- Allowed Vaccination Cert:
- Allowed Test Cert:
- Allowed Recovery Cert:
- Camera Wait For Test (seconds): 120

The 'Display' section contains the following fields:

- Display Name:
- Display Date Of Birth:
- Display Country:
- Display Json:

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



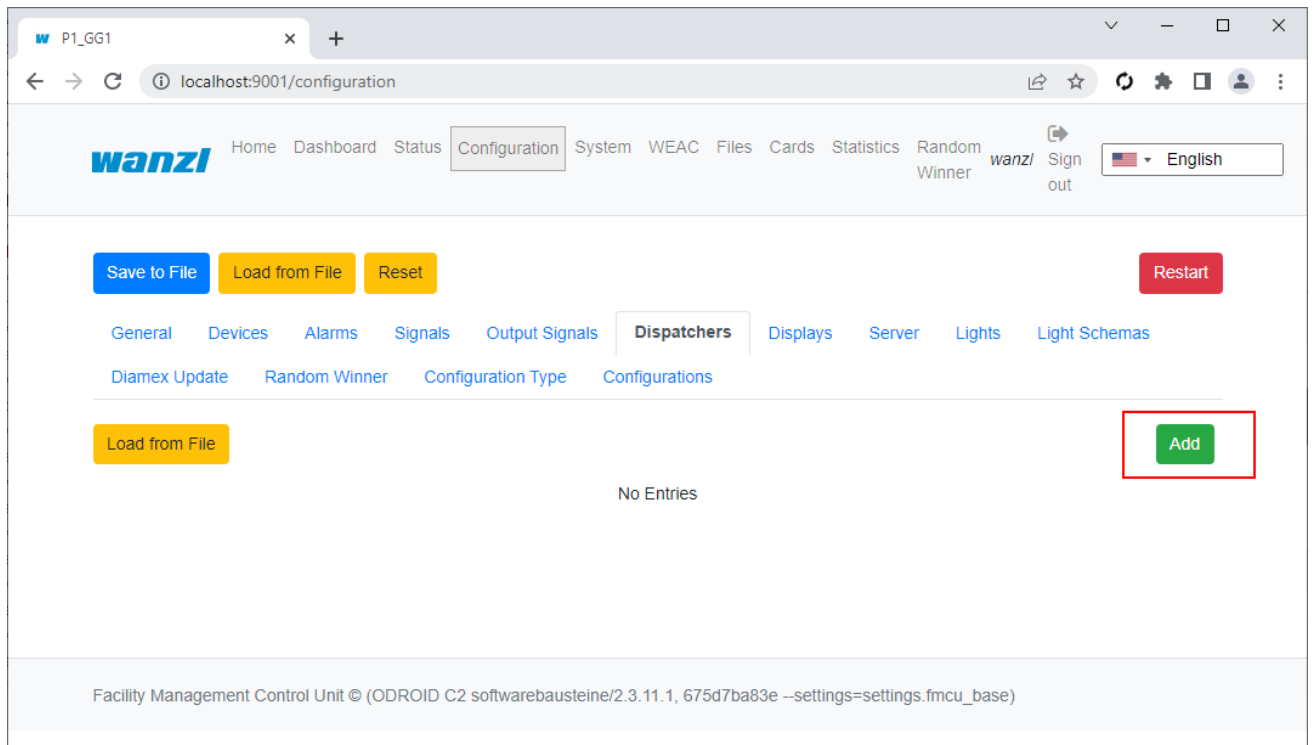
<input type="checkbox"/>	Name	Unique Name	Additional Test Required
<input type="checkbox"/>	1G	1G	<input type="checkbox"/>
<input type="checkbox"/>	1G+	1GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2G	2G	<input type="checkbox"/>
<input type="checkbox"/>	2G+	2GP	<input checked="" type="checkbox"/>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

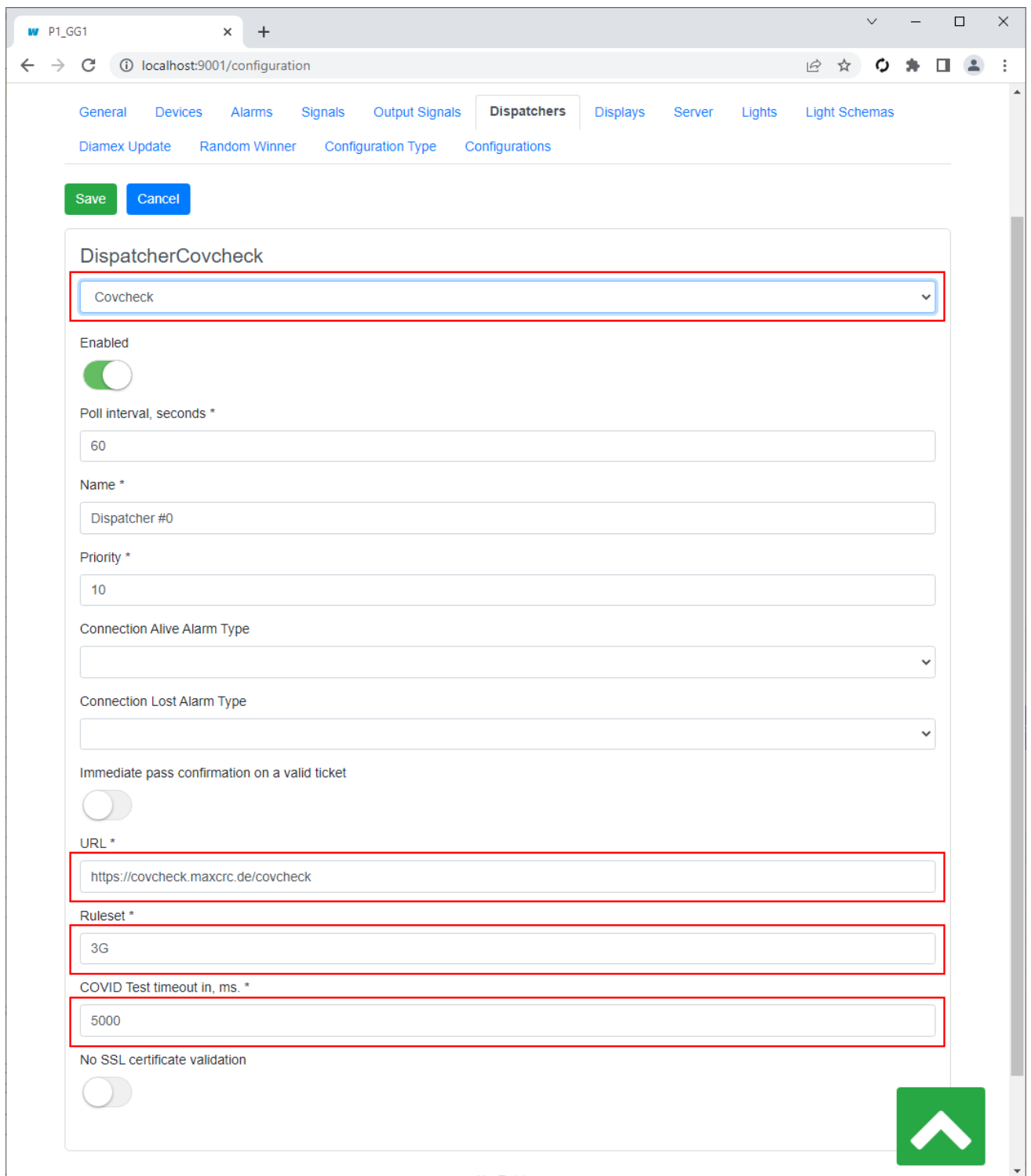
**Ruleset**

Ruleset for validating COVID certificates and tests

**COVID Test timeout, ms**

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





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

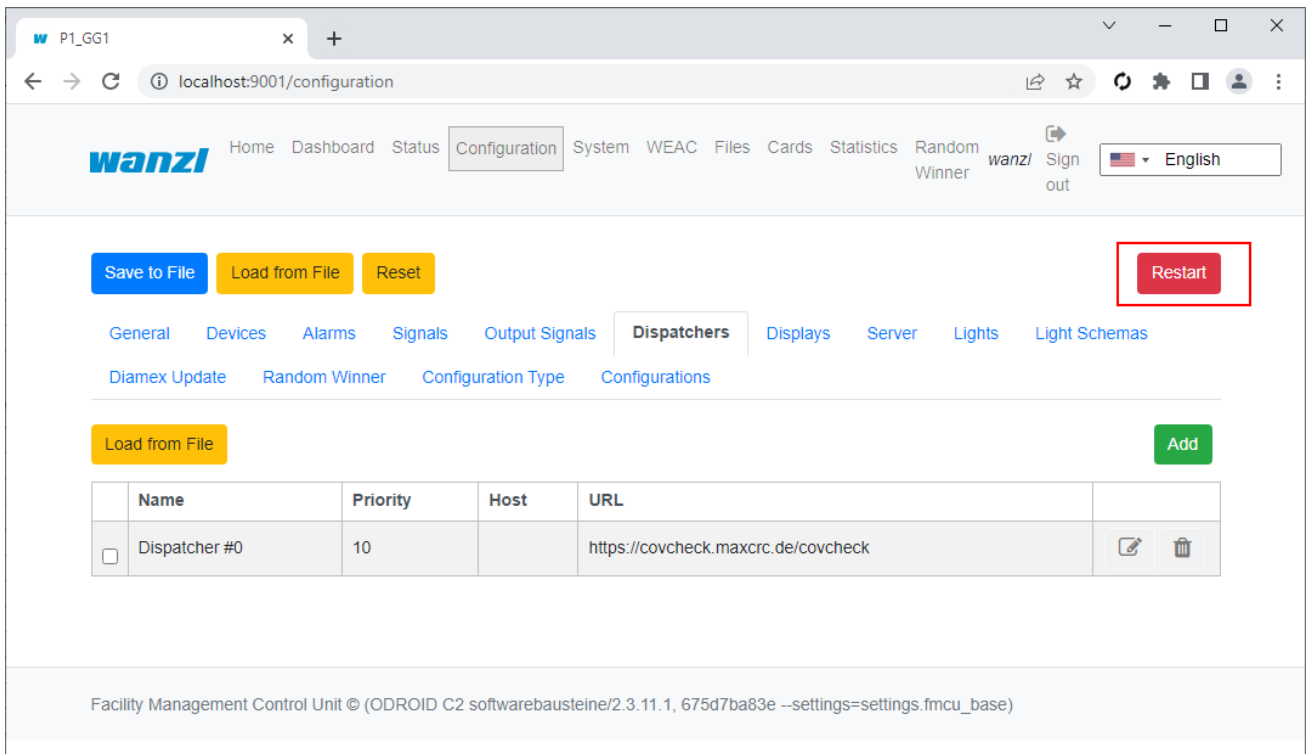
COVID Test timeout in, ms. \*  
5000

No SSL certificate validation





Restart the gate:

## Covcheck

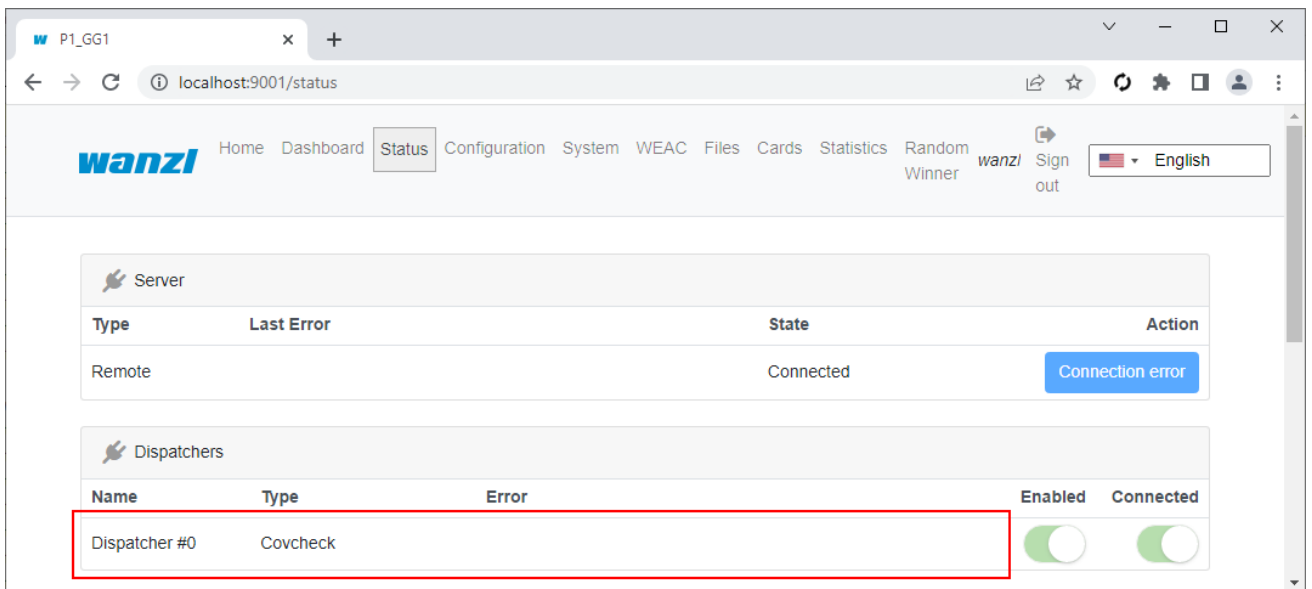


The screenshot shows the Wanzl configuration interface for the Covcheck server. The browser address bar shows `localhost:9001/configuration`. The navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The 'Configuration' tab is active, and the 'Dispatchers' sub-tab is selected. At the top, there are buttons for 'Save to File', 'Load from File', 'Reset', and 'Restart' (highlighted with a red box). Below the navigation, there is a 'Load from File' button and an 'Add' button. A table lists the configured dispatchers:

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

At the bottom, the footer text reads: 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 interface. 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 'Status' tab is active. The 'Server' section shows a table with columns: Type, Last Error, State, and Action. The 'Remote' server is listed as 'Connected' with a 'Connection error' button. The 'Dispatchers' section shows a table with columns: Name, Type, Error, Enabled, and Connected. The 'Dispatcher #0' is listed with 'Covcheck' as the type, and both 'Enabled' and 'Connected' toggle switches are turned on (highlighted with a red box).

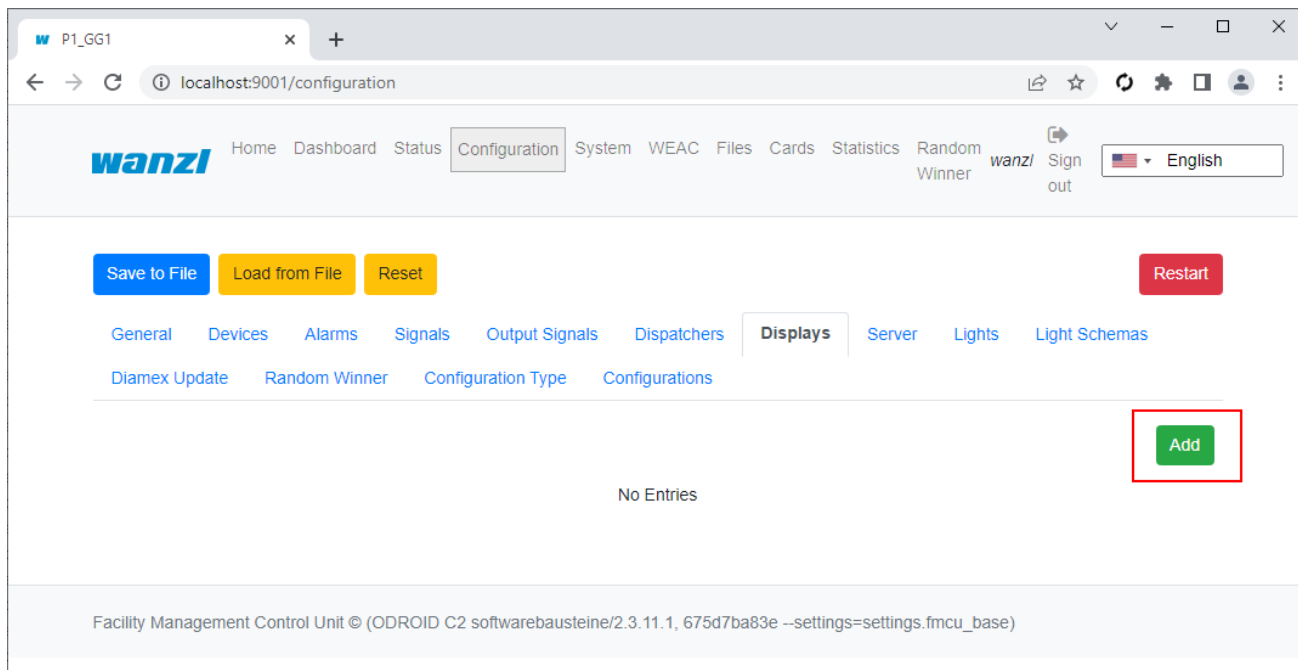
Type	Last Error	State	Action
Remote		Connected	Connection error

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 the user **wanzl** and navigate to the **Configuration** page. Select tab **Displays** and click **Add**:



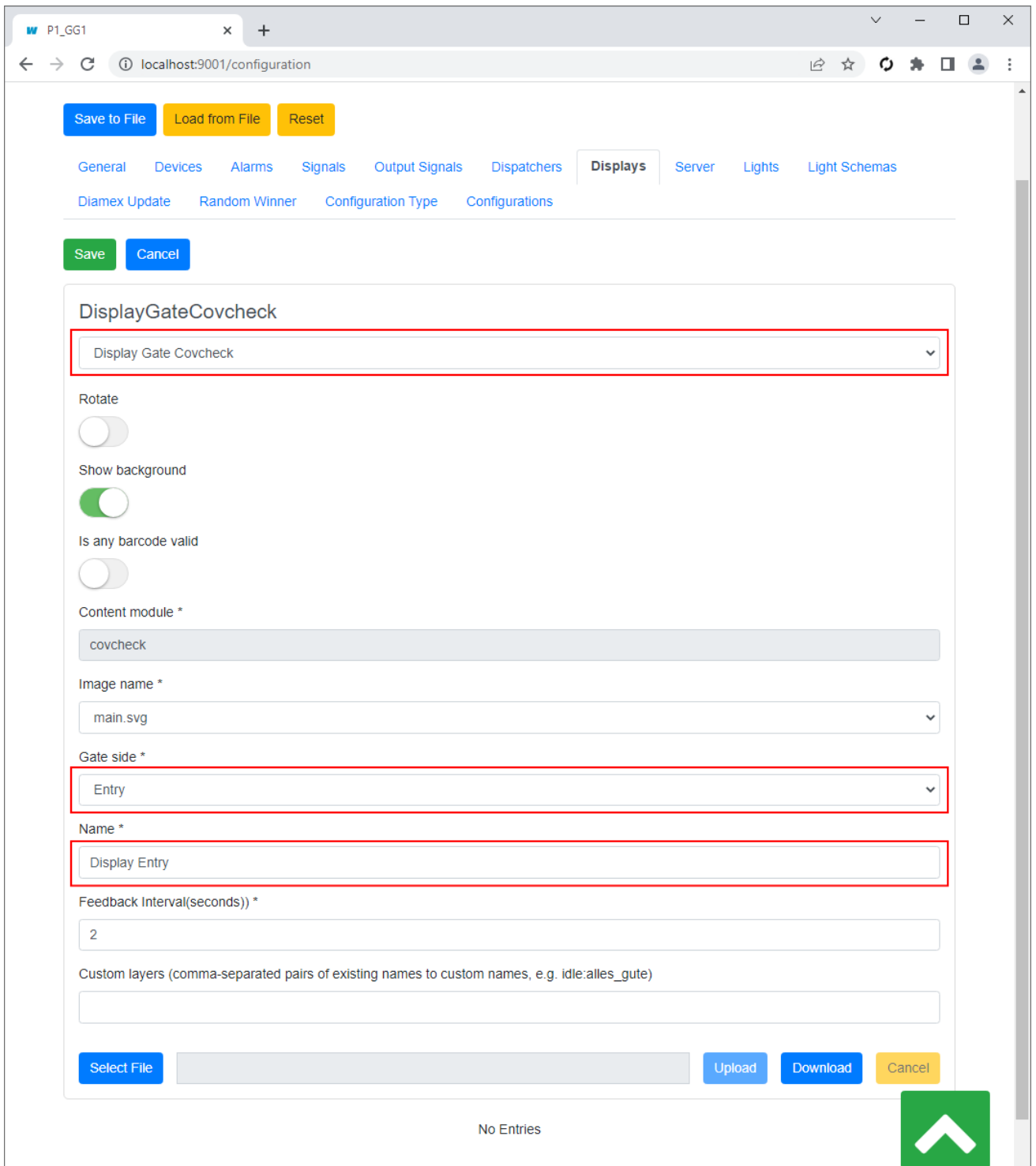
In the combo box under the title **Display** select **Display Gate Covcheck**, modify the following properties if needed and click **Save**:

**Gate side**

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

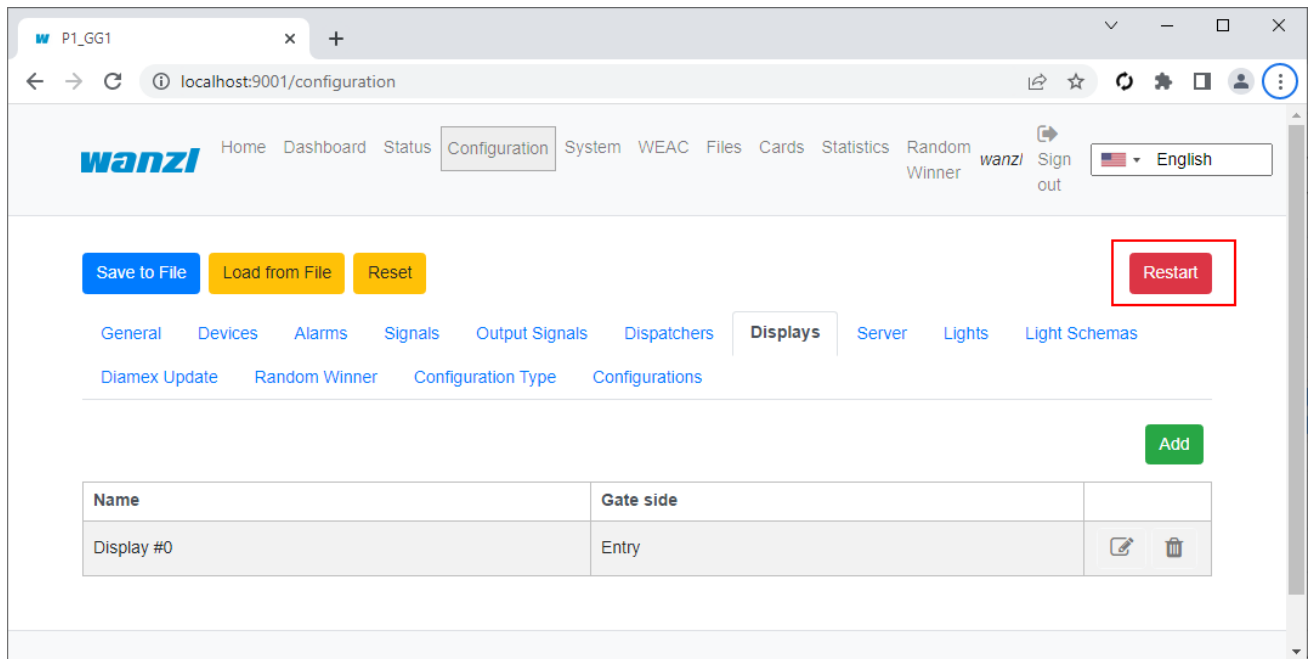
**Name**

User-friendly name

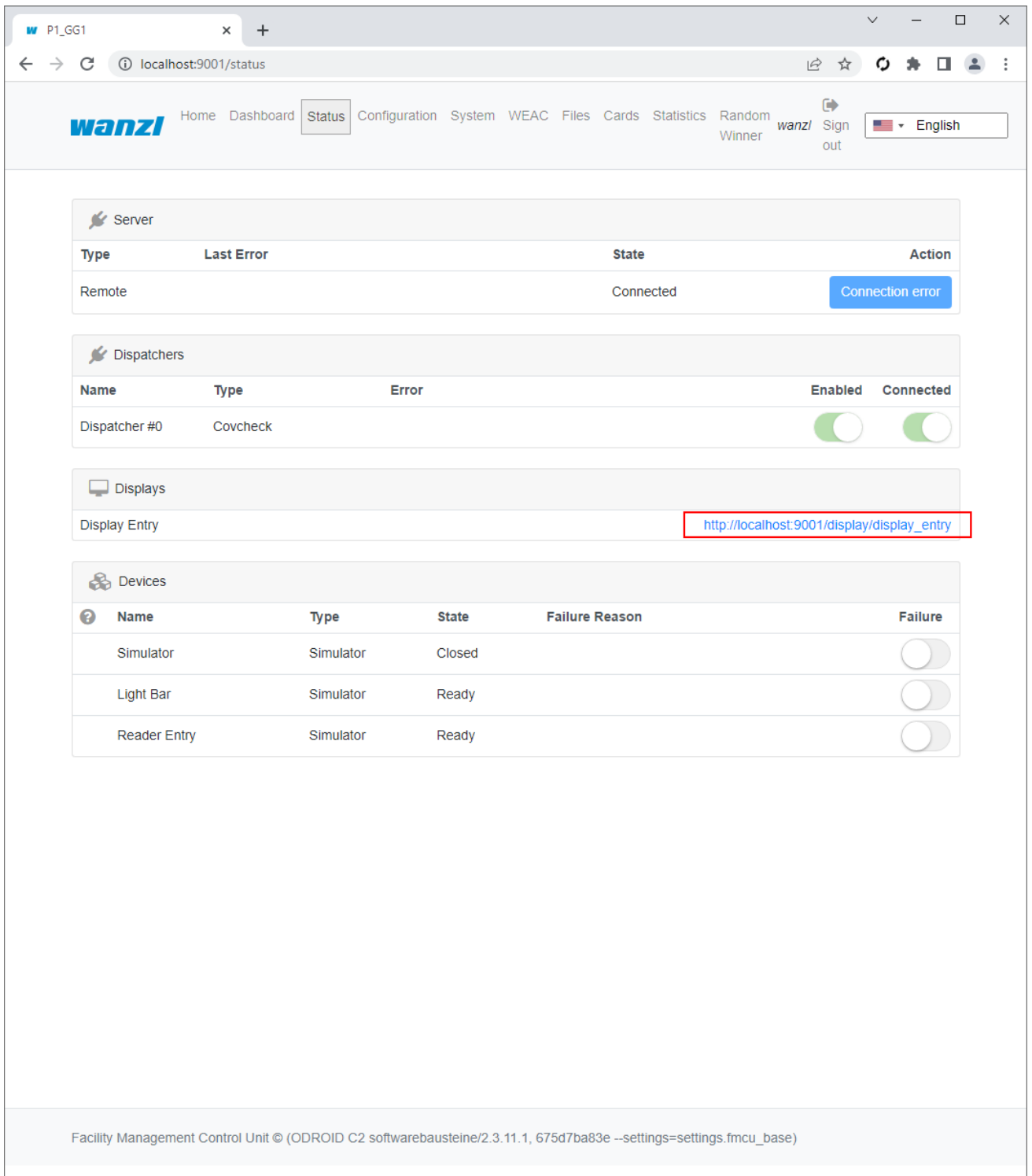


The screenshot shows a web browser window at localhost:9001/configuration. The interface includes navigation tabs for General, Devices, Alarms, Signals, Output Signals, Dispatchers, **Displays**, Server, Lights, and Light Schemas. Below these are sub-tabs for Diamex Update, Random Winner, Configuration Type, and Configurations. At the top left of the configuration area are buttons for 'Save to File', 'Load from File', and 'Reset'. Below these are 'Save' and 'Cancel' buttons. 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 of the configuration area are buttons for 'Select File', 'Upload', 'Download', and 'Cancel'. Below the configuration area, 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:



The screenshot shows a web browser window with the URL `localhost:9001/status`. The page is titled "wanzi" and has a navigation menu with "Home", "Dashboard", "Status", "Configuration", "System", "WEAC", "Files", "Cards", "Statistics", "Random Winner", and "Sign out". The "Status" section is active. It contains four main sections:

- Server:** A table with columns "Type", "Last Error", "State", and "Action". It shows a "Remote" server with state "Connected" and a "Connection error" button.
- Dispatchers:** A table with columns "Name", "Type", "Error", "Enabled", and "Connected". It shows "Dispatcher #0" of type "Covcheck" with both "Enabled" and "Connected" toggles turned on.
- Displays:** A table with columns "Display Entry" and "Action". The "Display Entry" is `http://localhost:9001/display/display_entry`, which is highlighted with a red box.
- Devices:** A table with columns "Name", "Type", "State", "Failure Reason", and "Failure". It lists three devices: "Simulator" (Closed), "Light Bar" (Ready), and "Reader Entry" (Ready), each with a "Failure" toggle.

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:





