

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 **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

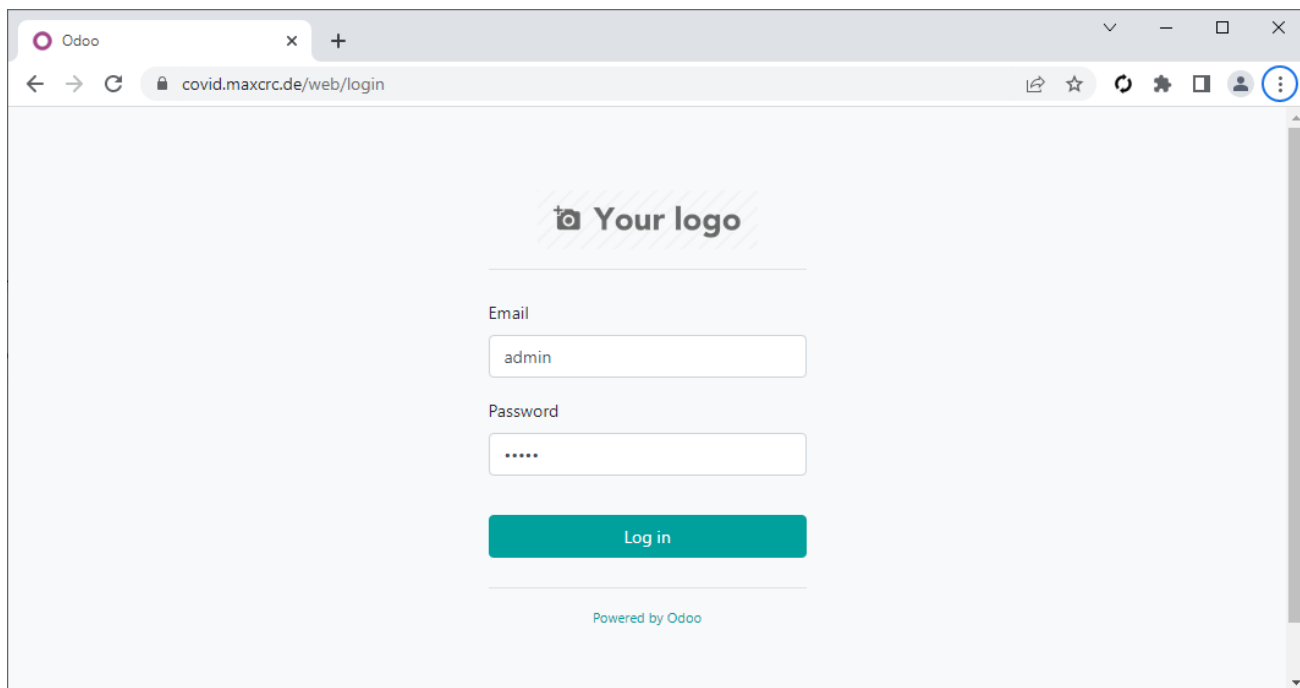
configuration file for ODOO

Configuration of Covcheck Application Server

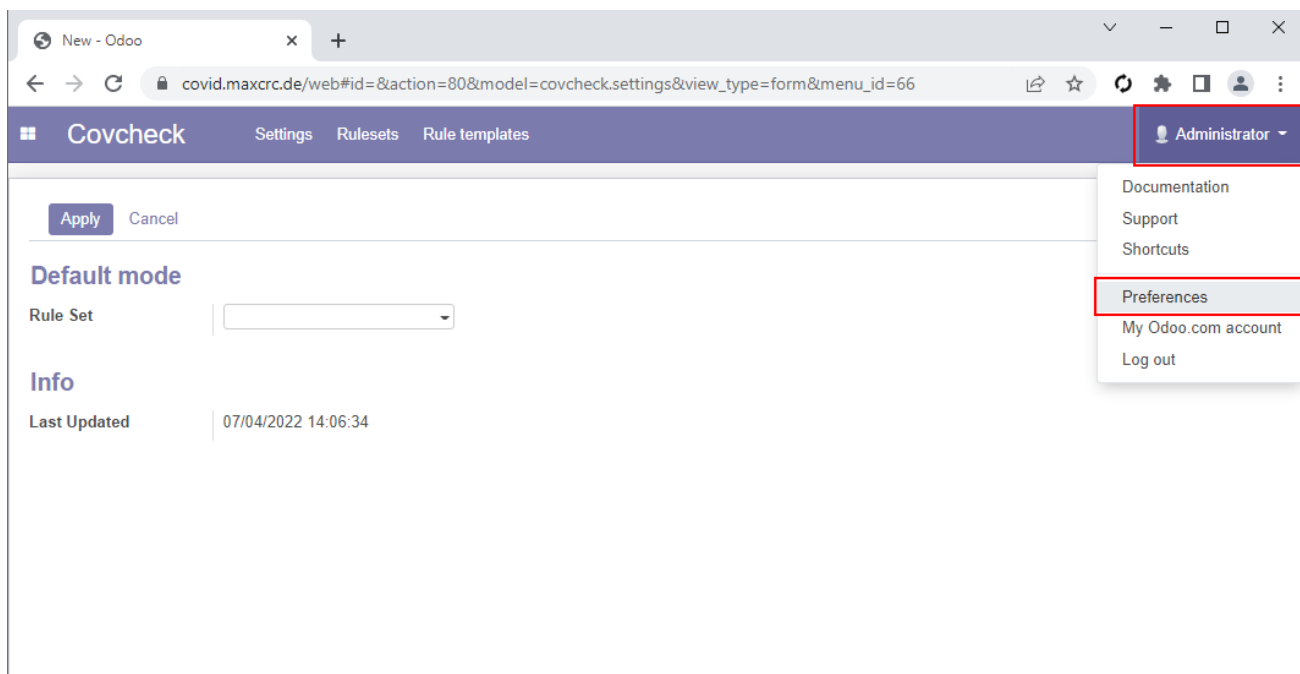
Change Default Password

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

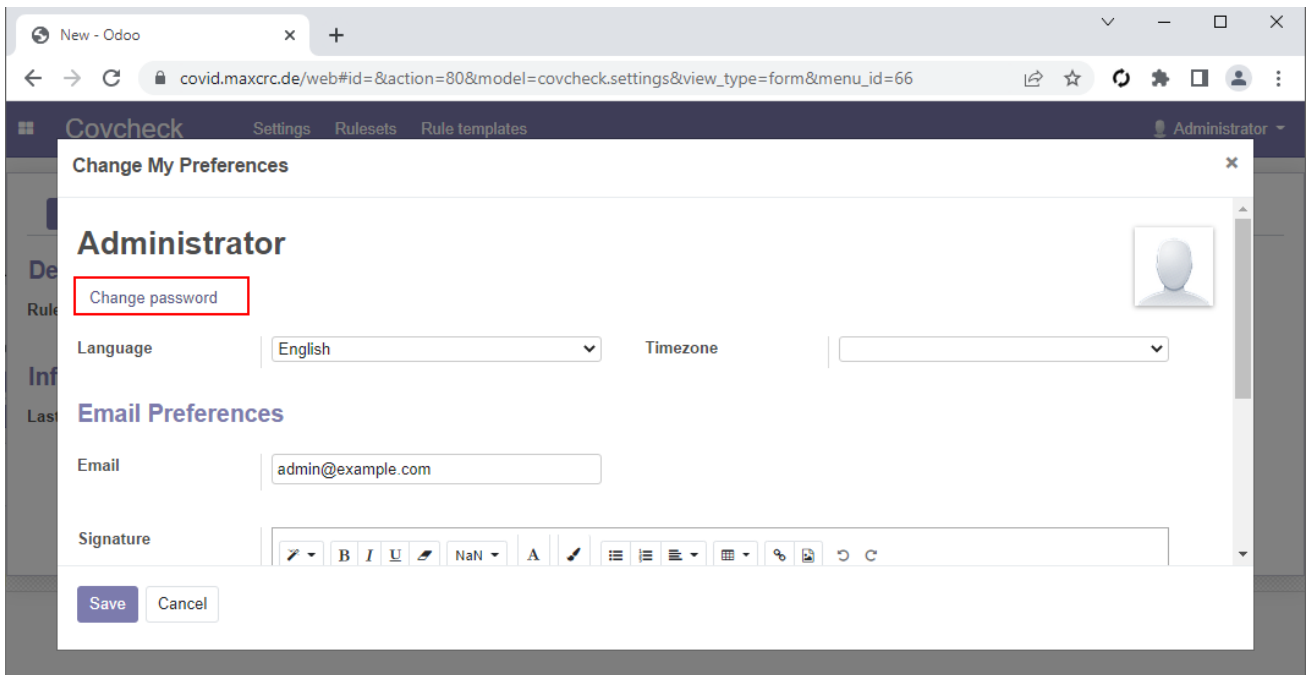
| Username | Password |
|----------|----------|
| admin | admin |



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

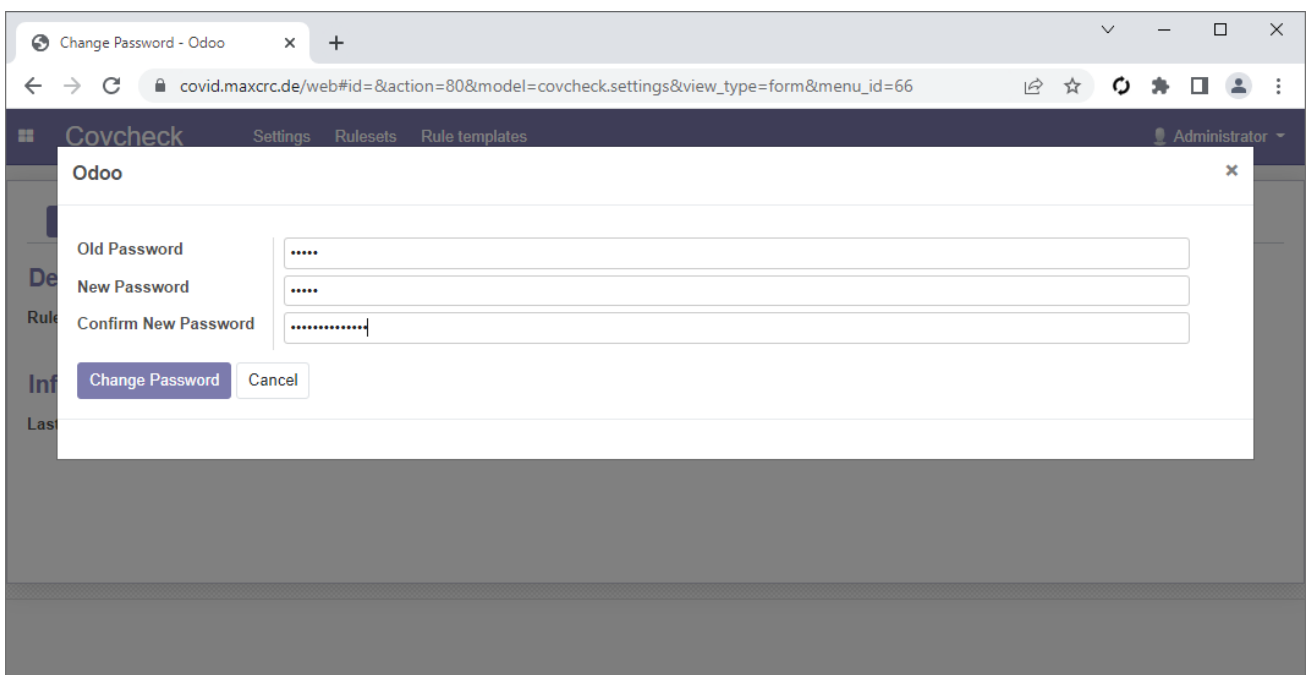


In the opened window click **Change password**:



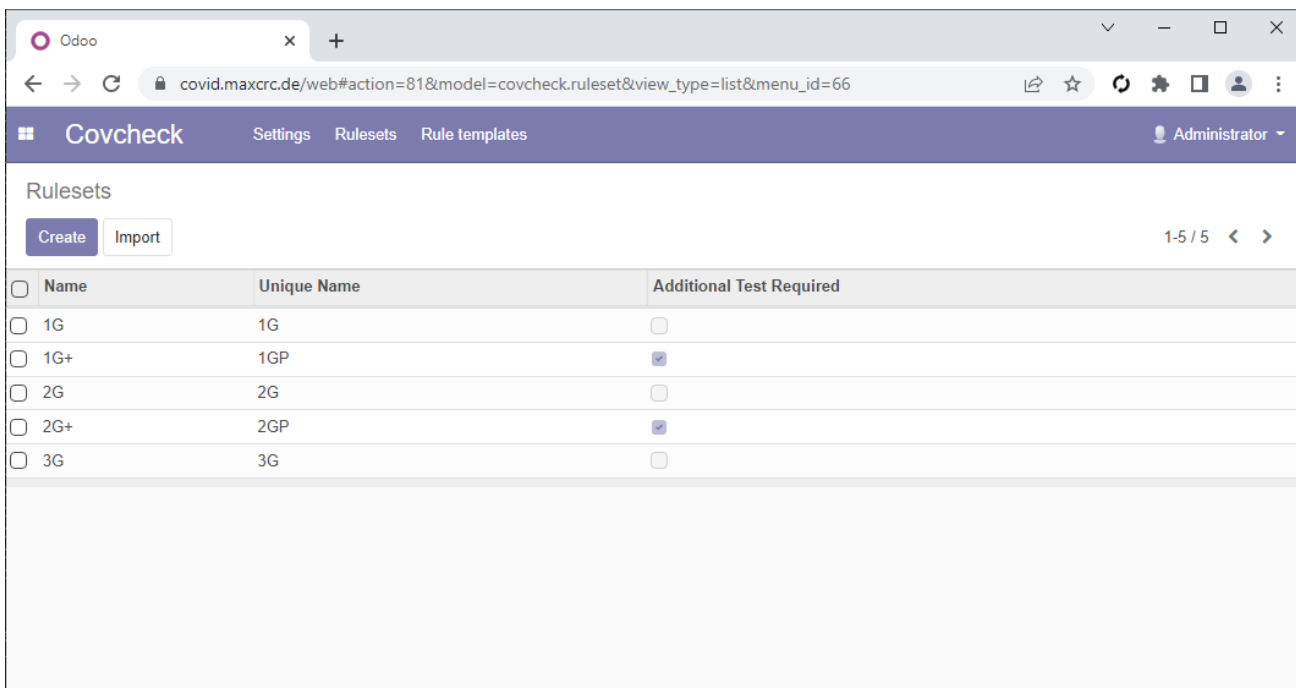
Fill-in the following fields and then click **Change Password**:

- Old Password
- New Password
- Confirm New Password



Managing Rulesets

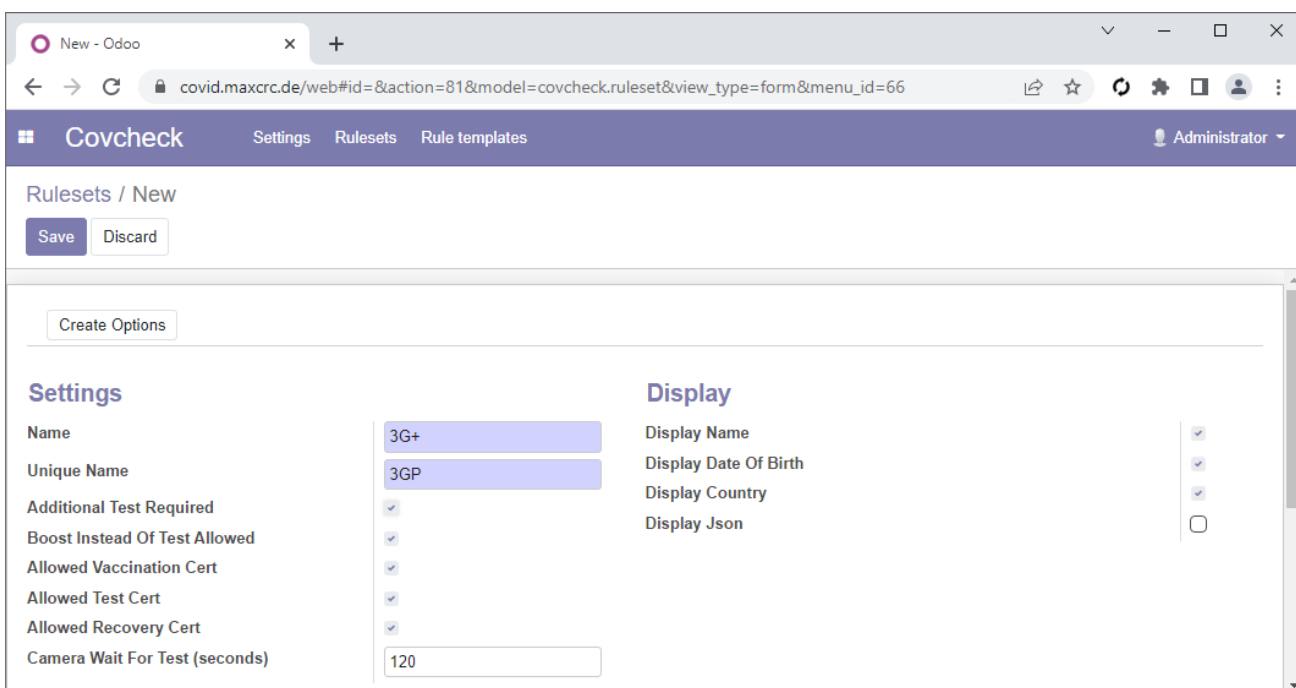
You can add, modify and delete rulesets on the **Rulesets** page:



The screenshot shows the 'Rulesets' page in the Odoo interface. The browser address bar shows the URL: covid.maxcrc.de/web#action=81&model=covcheck.ruleset&view_type=list&menu_id=66. The page header includes 'Covcheck', 'Settings', 'Rulesets', and 'Rule templates', with the user 'Administrator' logged in. The main content area is titled 'Rulesets' and contains two buttons: 'Create' and 'Import'. Below the buttons is 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 interface. 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 header includes 'Covcheck', 'Settings', 'Rulesets', and 'Rule templates', with the user 'Administrator' logged in. 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'.

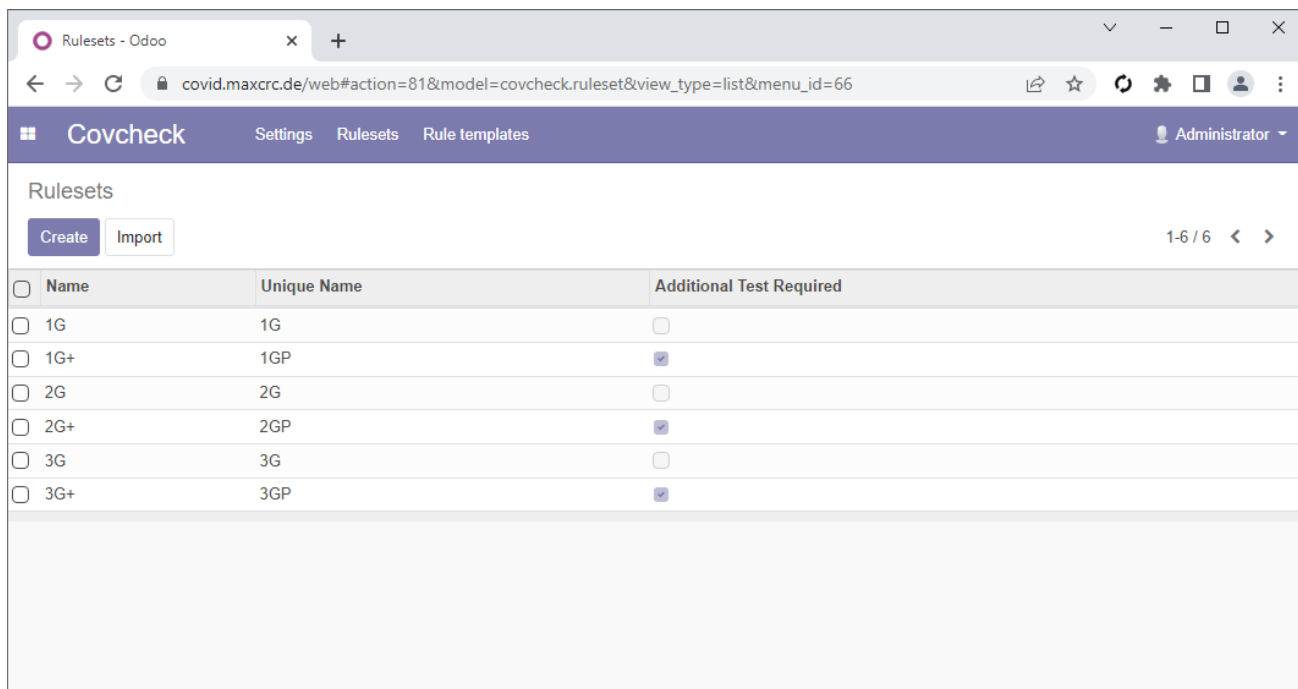
Settings

- 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

Display

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

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



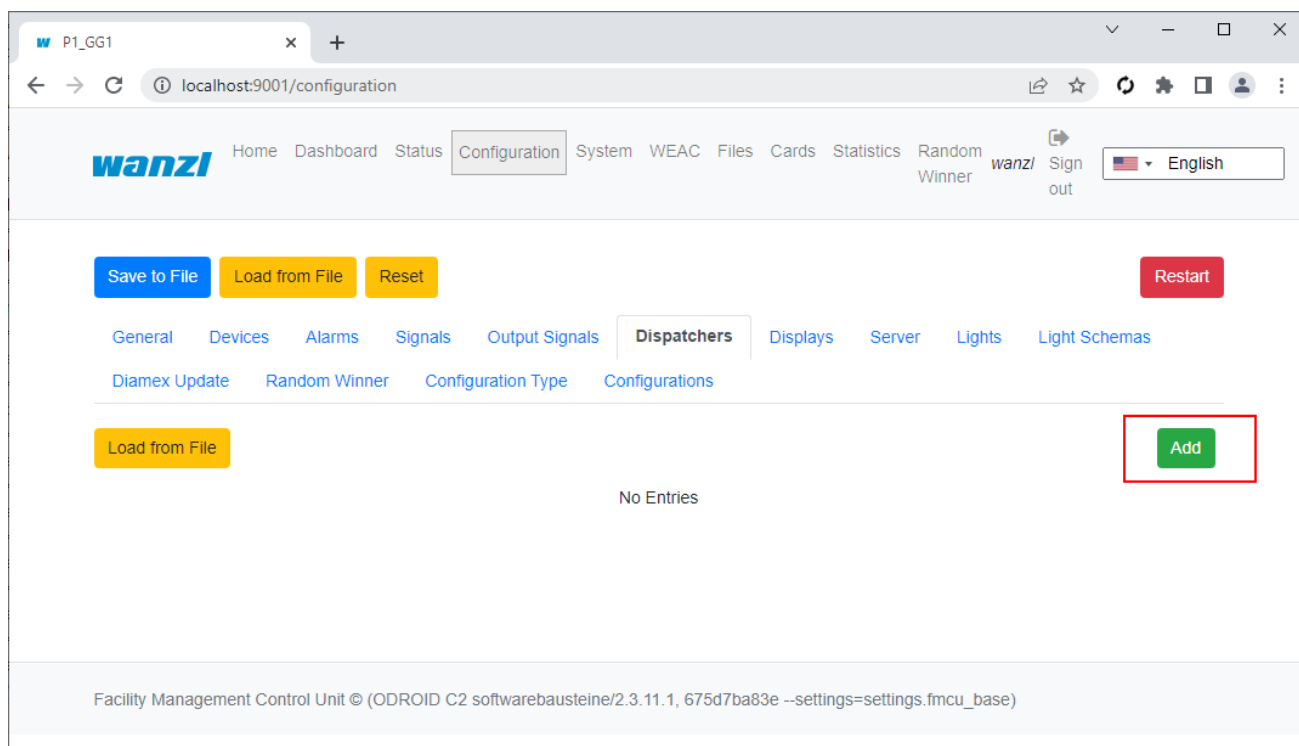
| <input type="checkbox"/> | Name | Unique Name | Additional Test Required |
|--------------------------|------|-------------|-------------------------------------|
| <input type="checkbox"/> | 1G | 1G | <input type="checkbox"/> |
| <input type="checkbox"/> | 1G+ | 1GP | <input checked="" type="checkbox"/>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

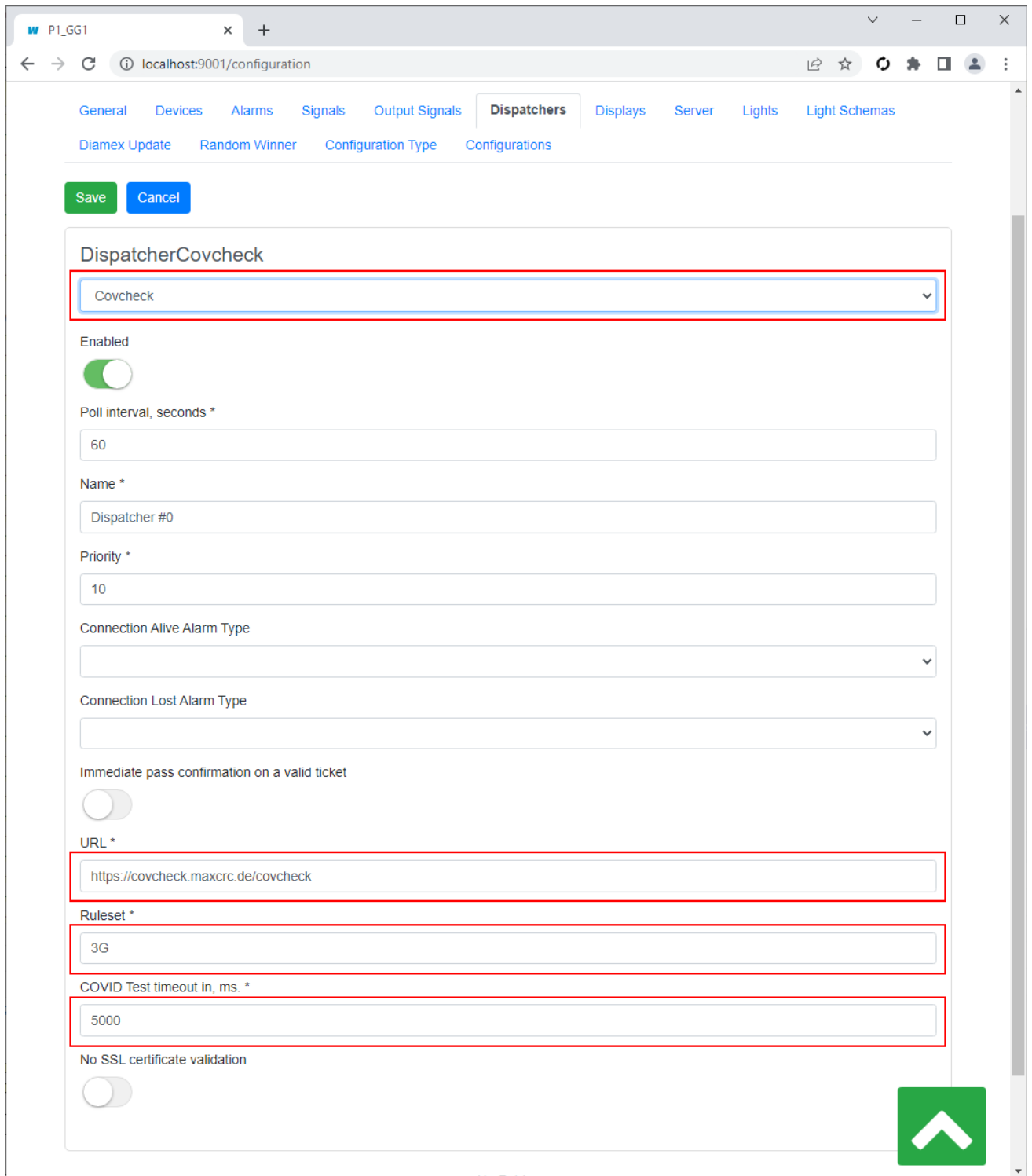
Base URL of Covcheck's API

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

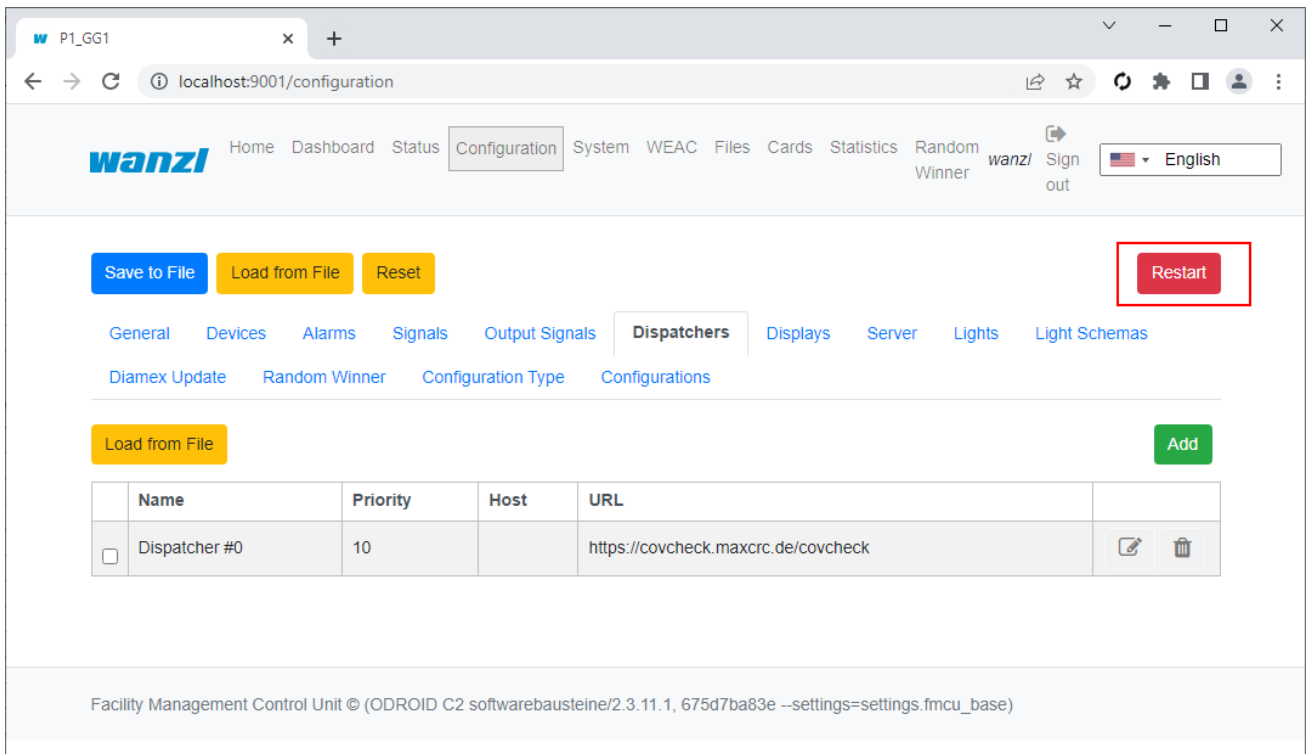
COVID Test timeout in, ms. *
5000

No SSL certificate validation

Green arrow button

Restart the gate:

Covcheck



Browser: P1_GG1, localhost:9001/configuration

Navigation: Home, Dashboard, Status, **Configuration**, System, WEAC, Files, Cards, Statistics, Random Winner, wanzl, Sign out

Buttons: Save to File, Load from File, Reset, **Restart**

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

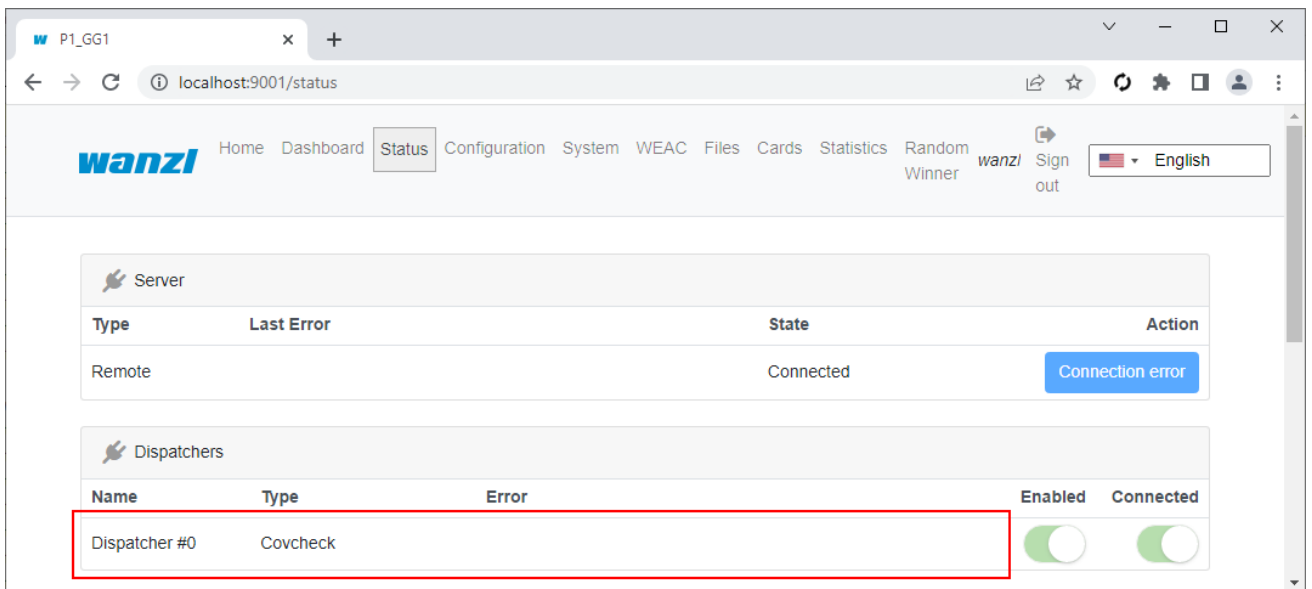
Sub-menu: Diamex Update, Random Winner, Configuration Type, Configurations

Buttons: 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:



Browser: P1_GG1, localhost:9001/status

Navigation: Home, Dashboard, **Status**, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, wanzl, Sign out

Server

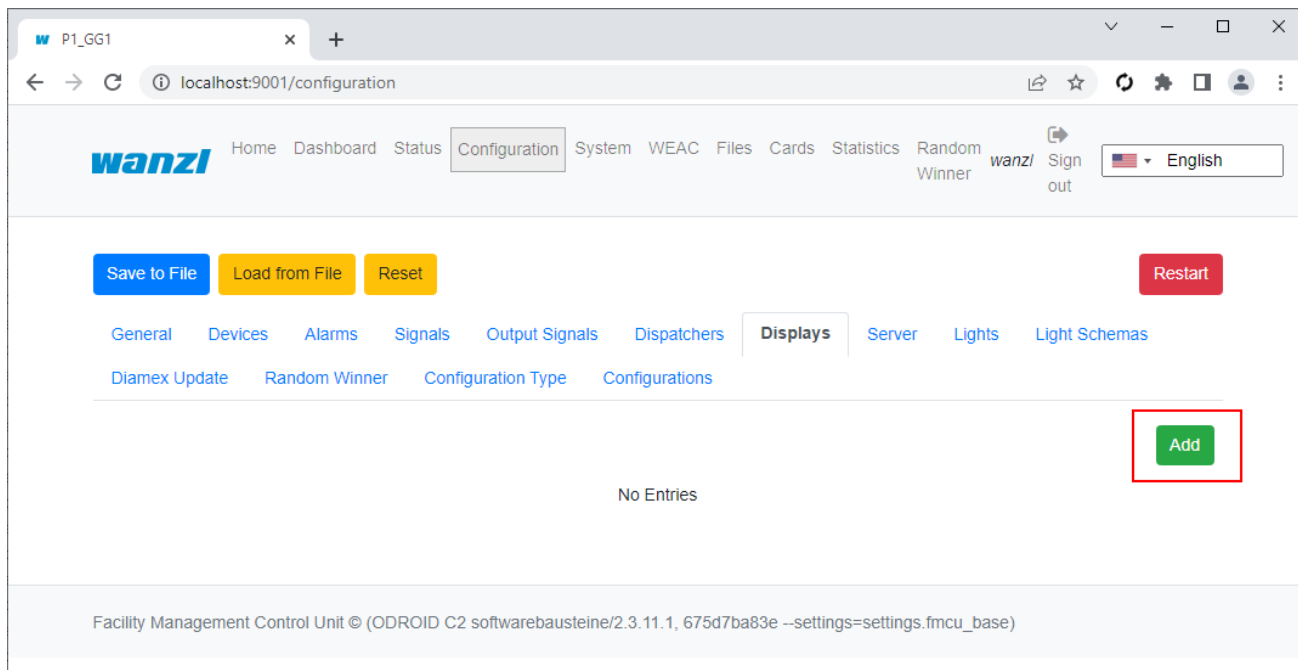
| Type | Last Error | State | Action |
|--------|------------|-----------|------------------|
| Remote | | Connected | Connection error |

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**:



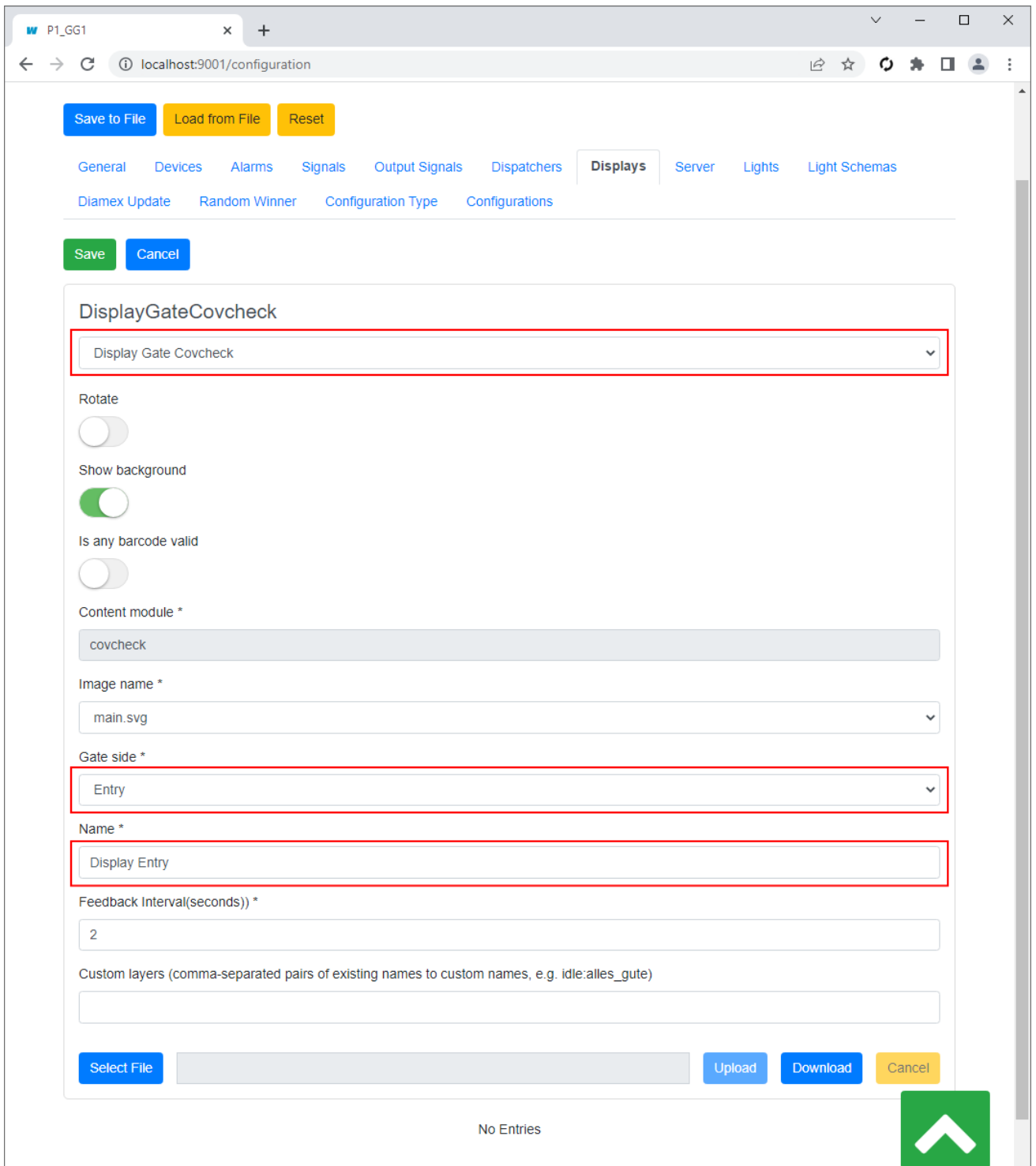
In the combo box under the title **Display** select **Display Gate Covcheck**, modify the following properties if needed and click **Save**:

Gate side

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

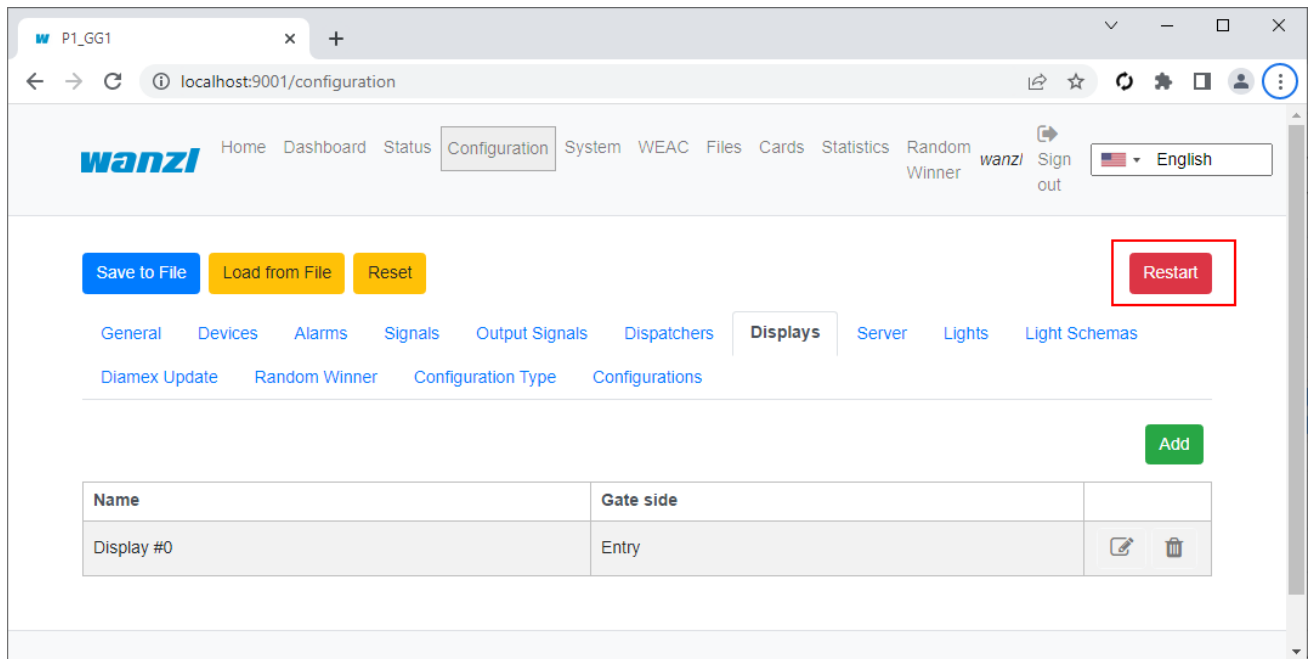
Name

User-friendly name

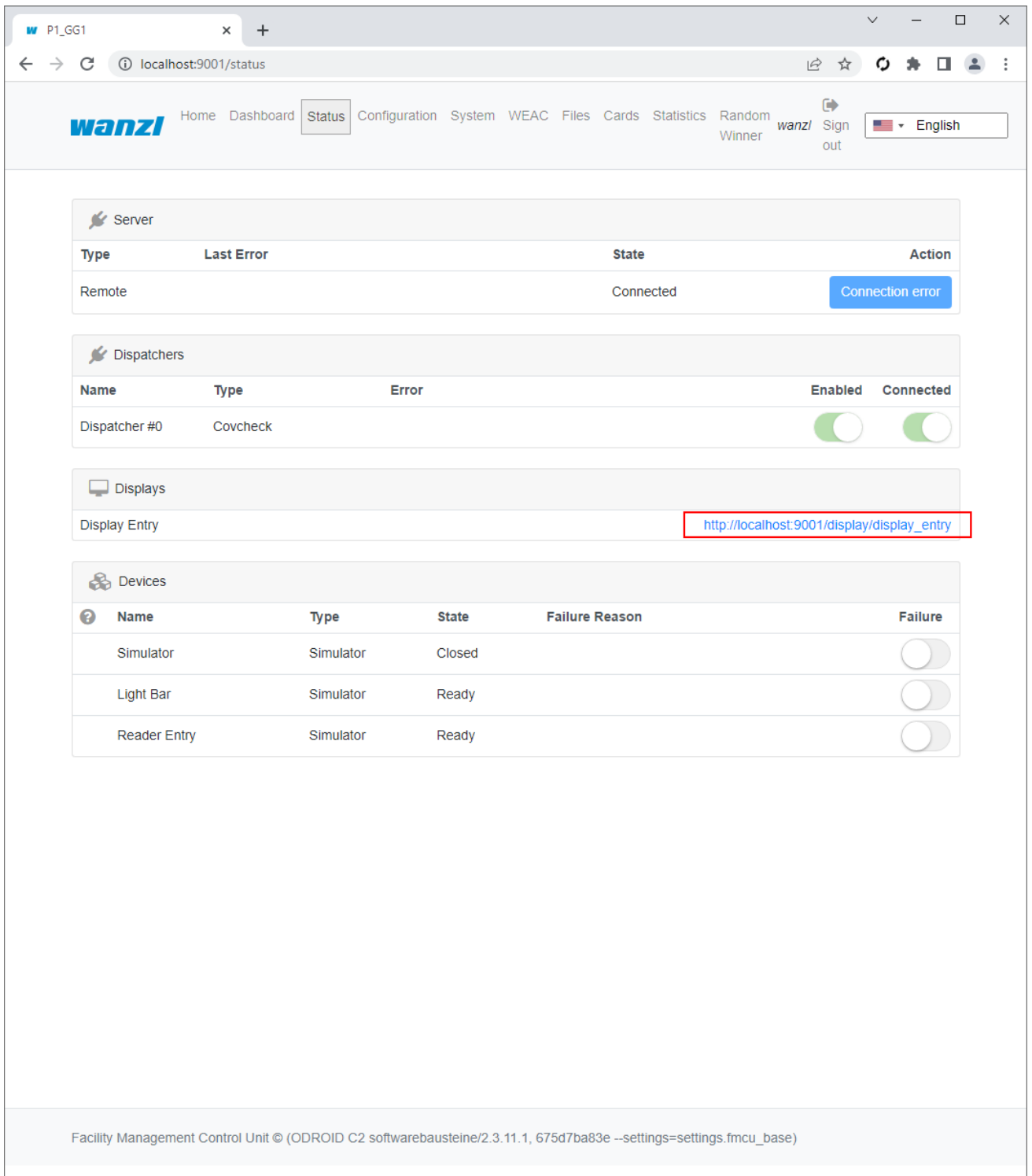


The screenshot shows a web browser window at localhost:9001/configuration. The interface includes navigation tabs for General, Devices, Alarms, Signals, Output Signals, Dispatchers, Displays (selected), Server, Lights, and Light Schemas. Below these are sub-tabs for Diamex Update, Random Winner, Configuration Type, and Configurations. The main configuration area for 'DisplayGateCovcheck' 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' selected, 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 visible 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 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. Below the navigation, there are 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:



