

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 ./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

git-submodule-status

information about git submodules that comprise the Covcheck application server

install-covid.sh

primary installation script

nginx-vhost

template vhost file for nginx

odoo.conf

configuration file for ODOO

README.md

this file

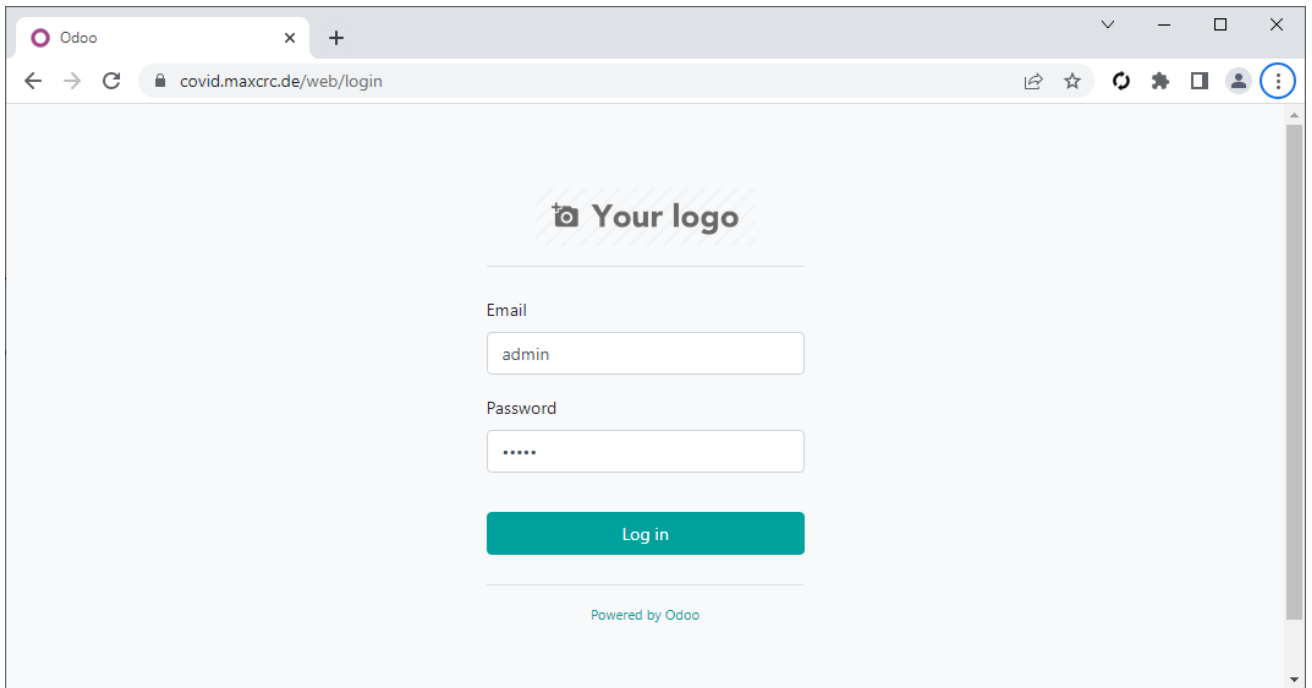
Configuration of Covcheck Application Server

Change Default Password

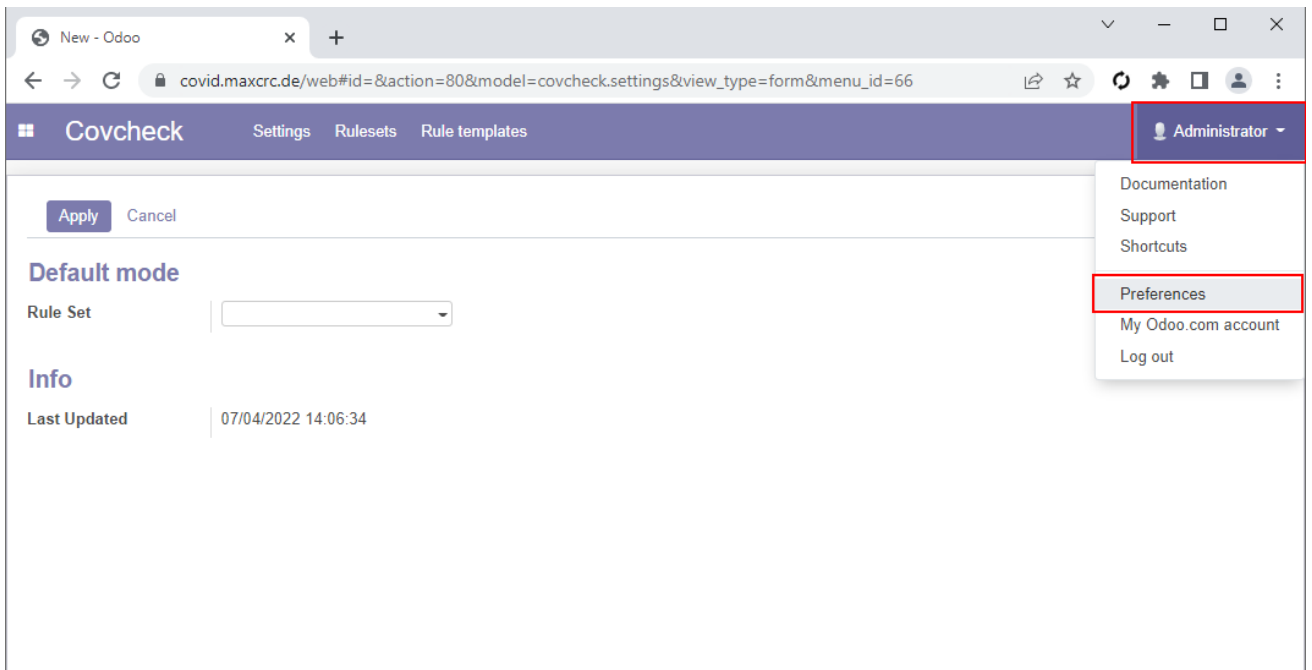
Open the address of the server in a browser and logging using the following default credentials:

Username	Password
----------	----------

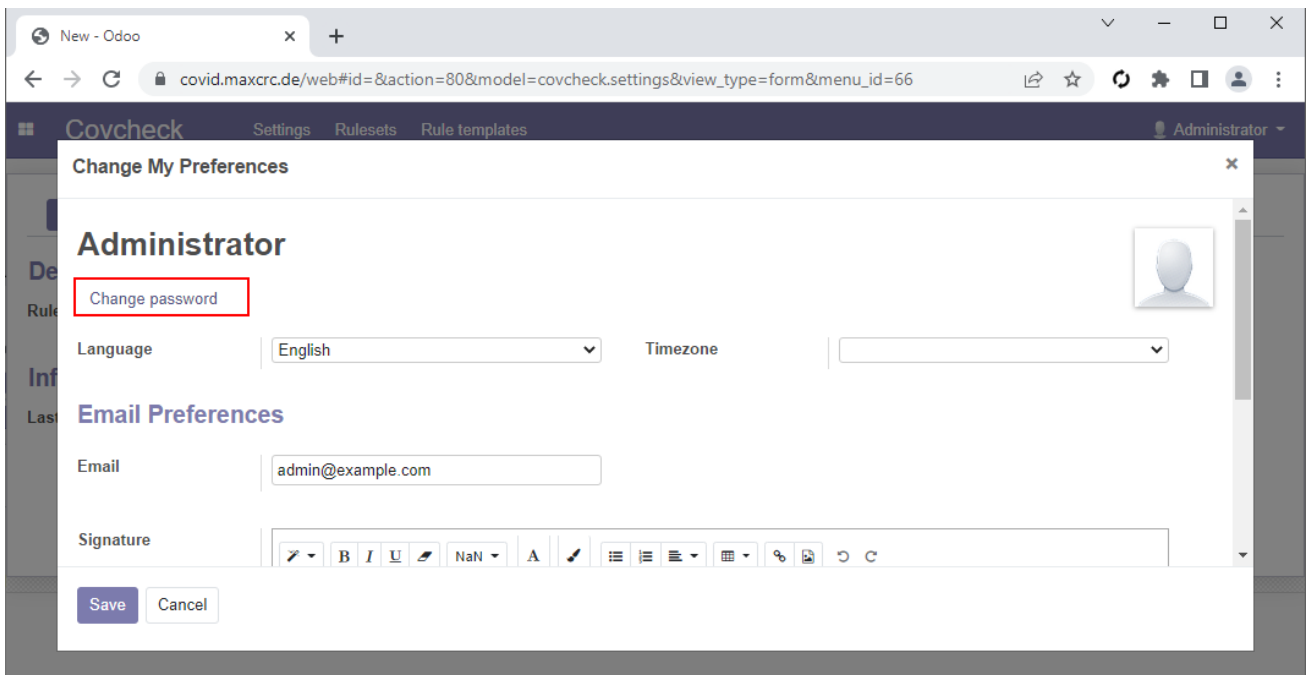
admin	admin
-------	-------



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

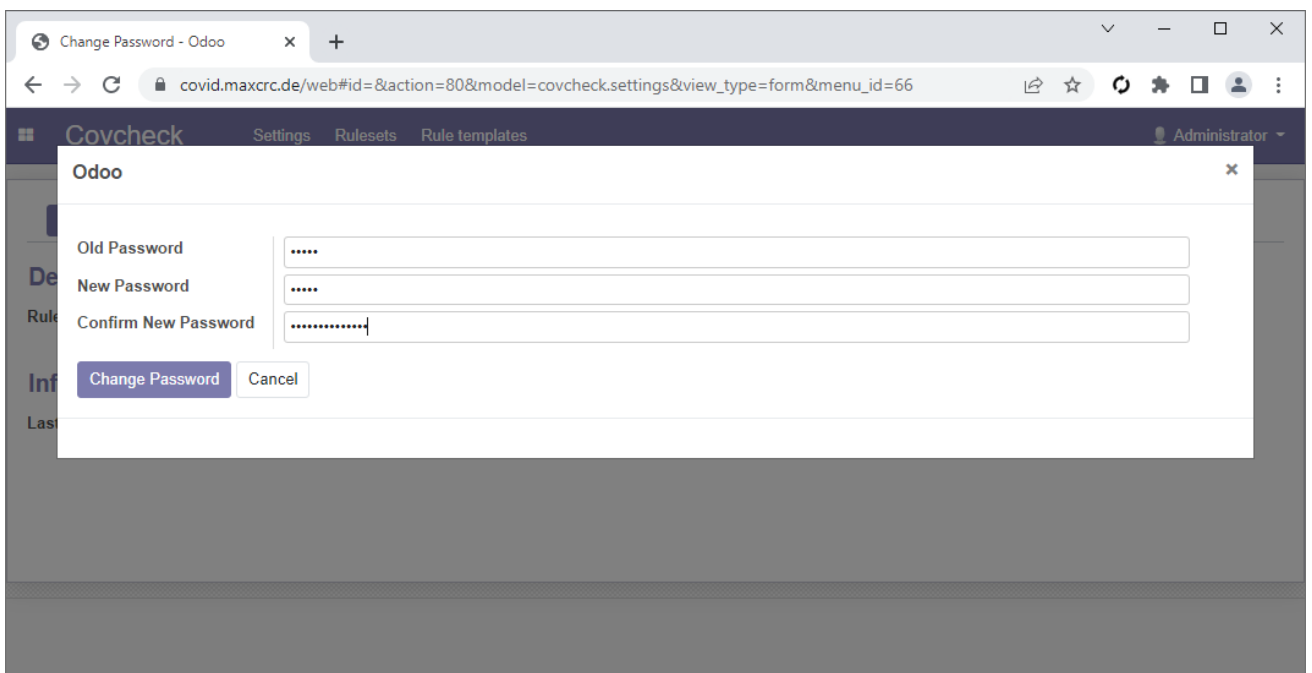


In the opened window click **Change password**:



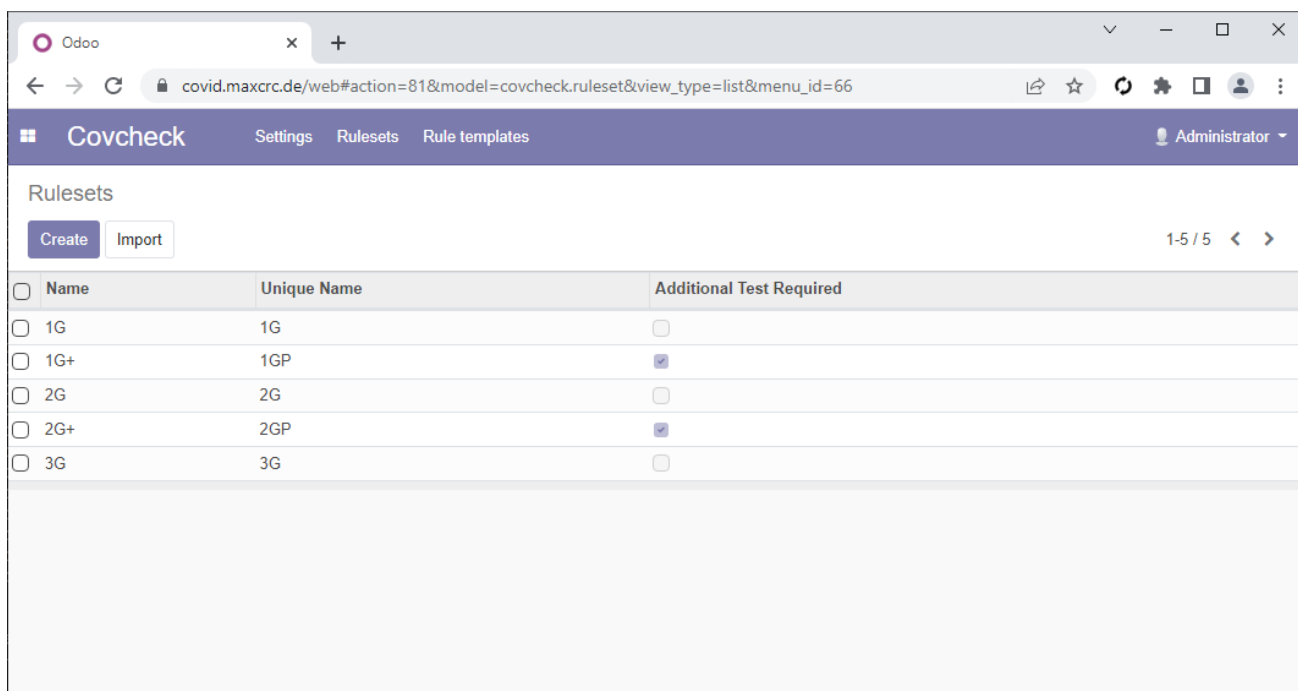
Fill-in the following fields and then click **Change Password**:

- Old Password
- New Password
- Confirm New Password



Managing Rulesets

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

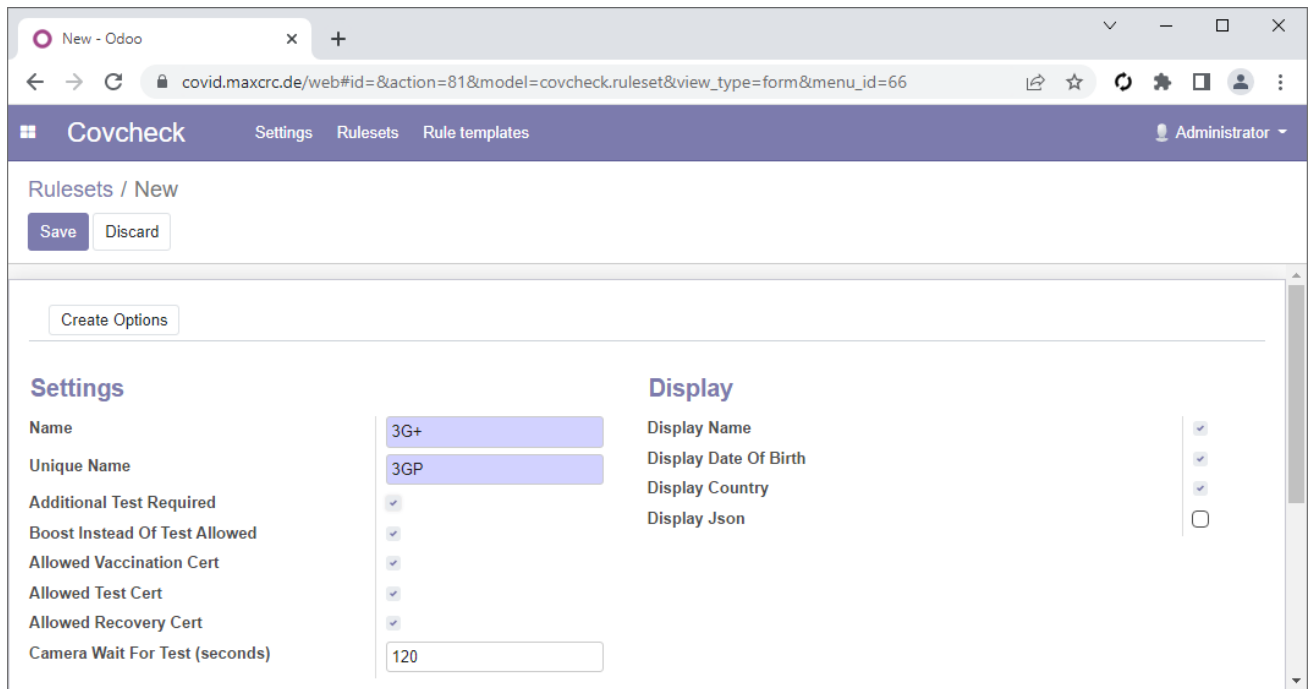


The screenshot shows the Odoo web interface for the 'Covcheck' application. The browser address bar shows 'covid.maxcrc.de/web#action=81&model=covcheck.ruleset&view_type=list&menu_id=66'. The application header includes 'Covcheck', 'Settings', 'Rulesets', and 'Rule templates', with the user 'Administrator' logged in. The main content area is titled 'Rulesets' and contains a table with columns for 'Name', 'Unique Name', and 'Additional Test Required'. The table lists five rulesets: 1G, 1G+, 2G, 2G+, and 3G. The 'Additional Test Required' column has checkboxes, with '1G+' and '2G+' checked. There are 'Create' and 'Import' buttons at the top left of the table area, and a pagination indicator '1-5/5' at the top right.

<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**:

Covcheck



New - Odoo

covid.maxcrc.de/web#id=&action=81&model=covcheck.ruleset&view_type=form&menu_id=66

Covcheck Settings Rulesets Rule templates Administrator

Rulesets / New

Save Discard

Create Options

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

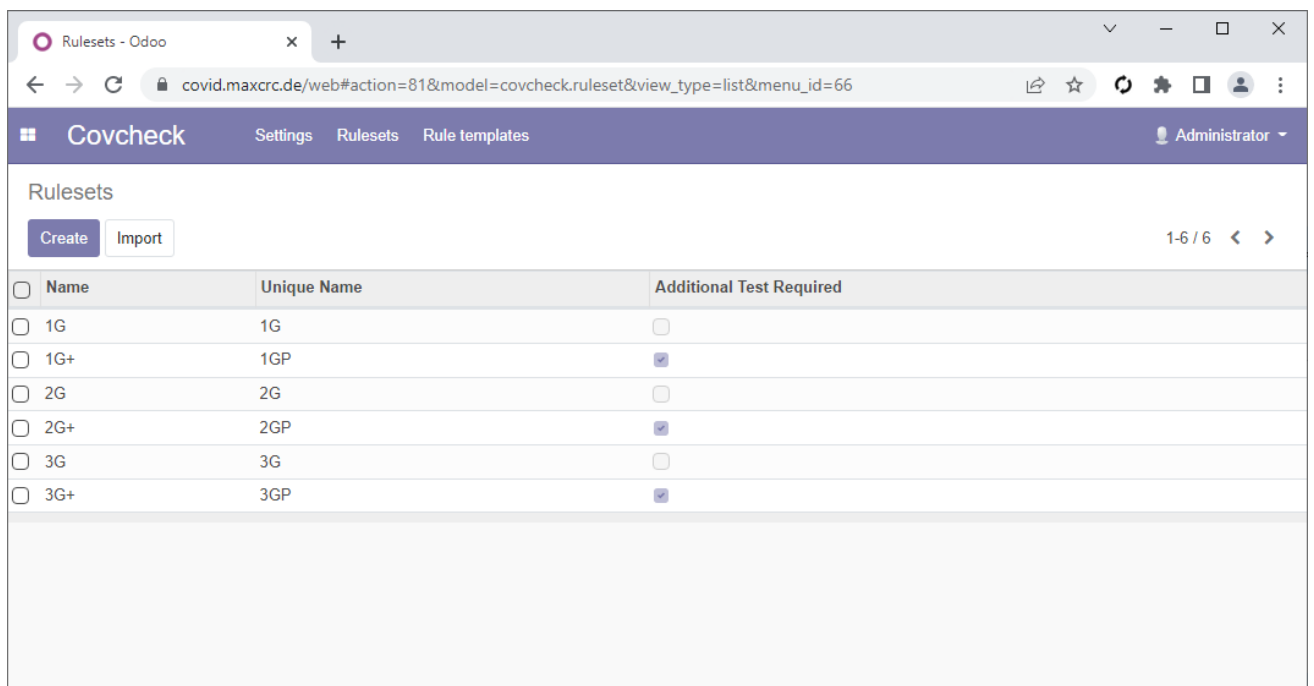
Display Name:

Display Date Of Birth:

Display Country:

Display Json:

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



Rulesets - Odoo

covid.maxcrc.de/web#action=81&model=covcheck.ruleset&view_type=list&menu_id=66

Covcheck Settings Rulesets Rule templates Administrator

Rulesets

Create Import

1-6 / 6 < >

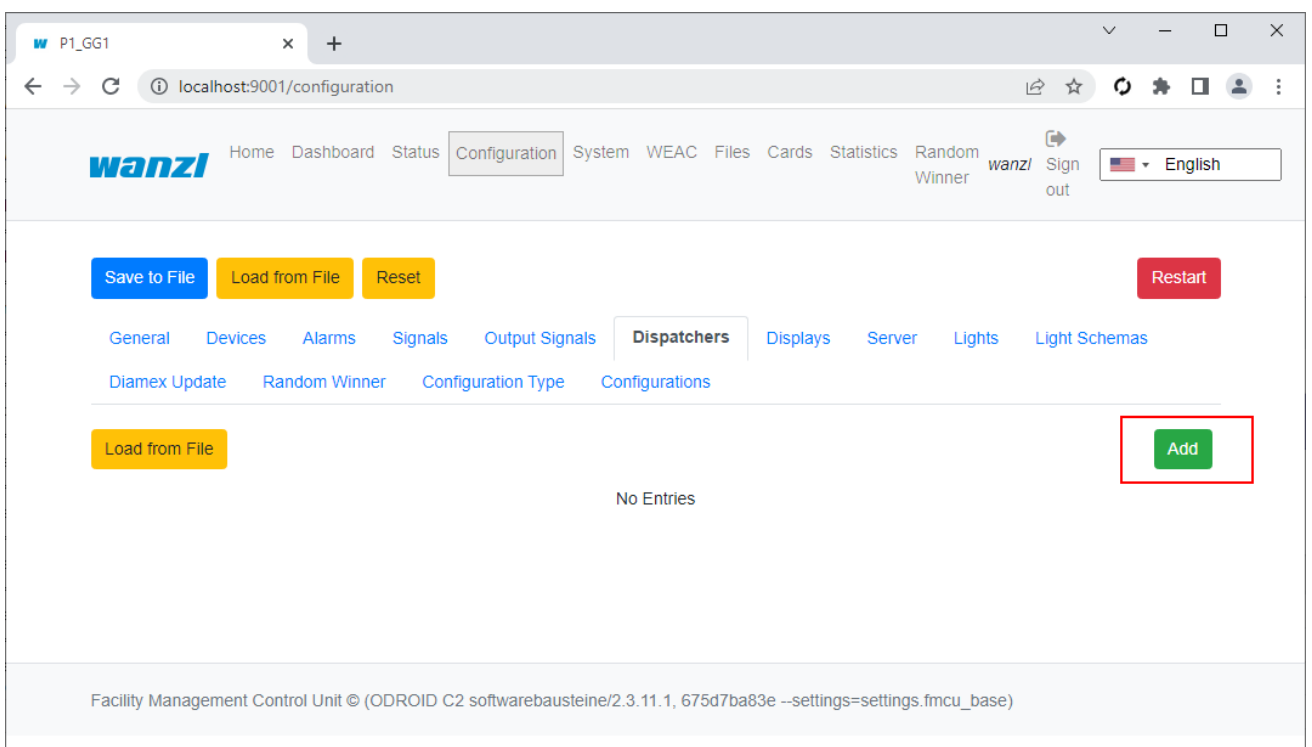
<input type="checkbox"/>	Name	Unique Name	Additional Test Required
<input type="checkbox"/>	1G	1G	<input type="checkbox"/>
<input type="checkbox"/>	1G+	1GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2G	2G	<input type="checkbox"/>
<input type="checkbox"/>	2G+	2GP	<input checked="" type="checkbox"/>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

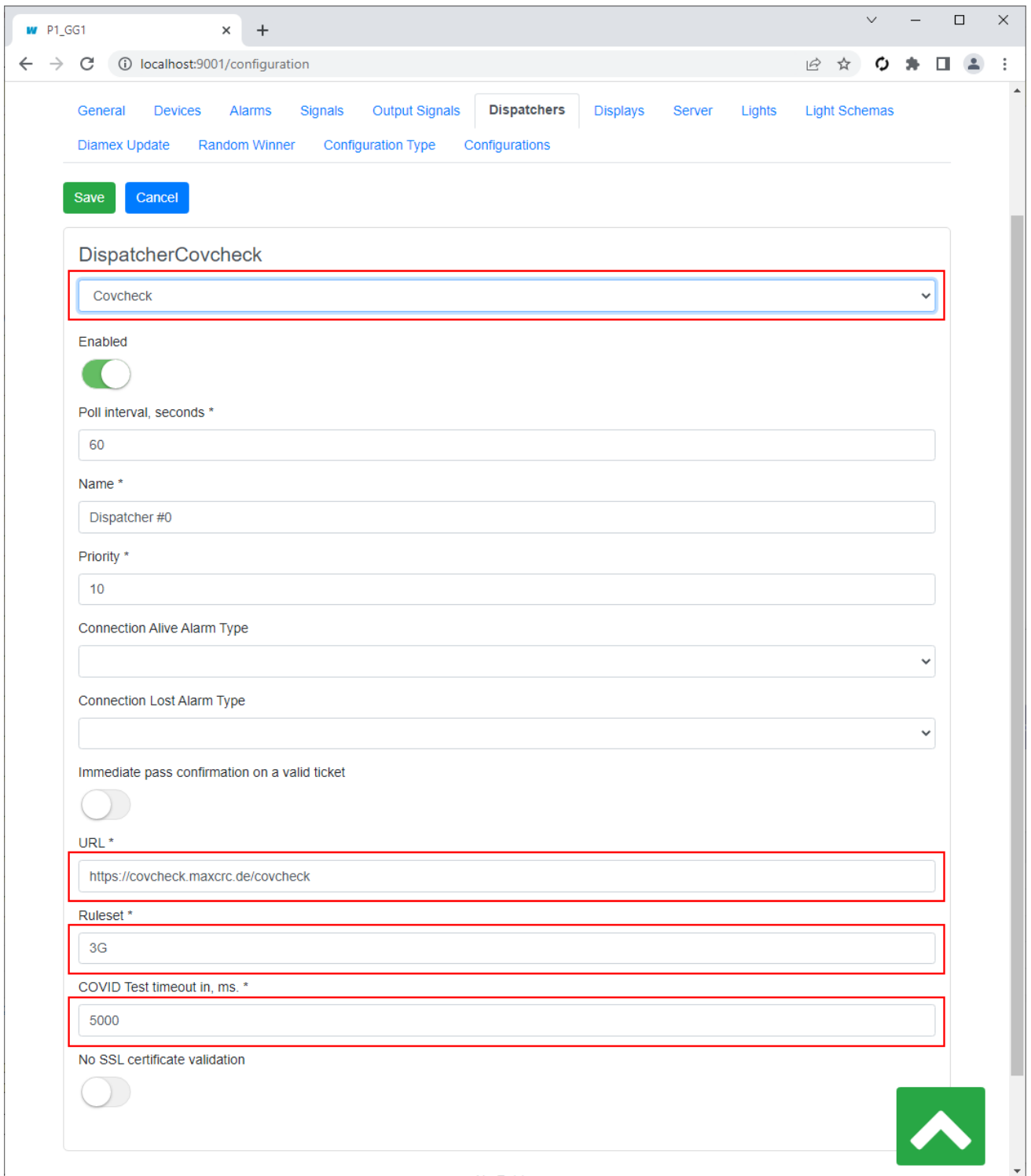
Base URL of Covcheck's API

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



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

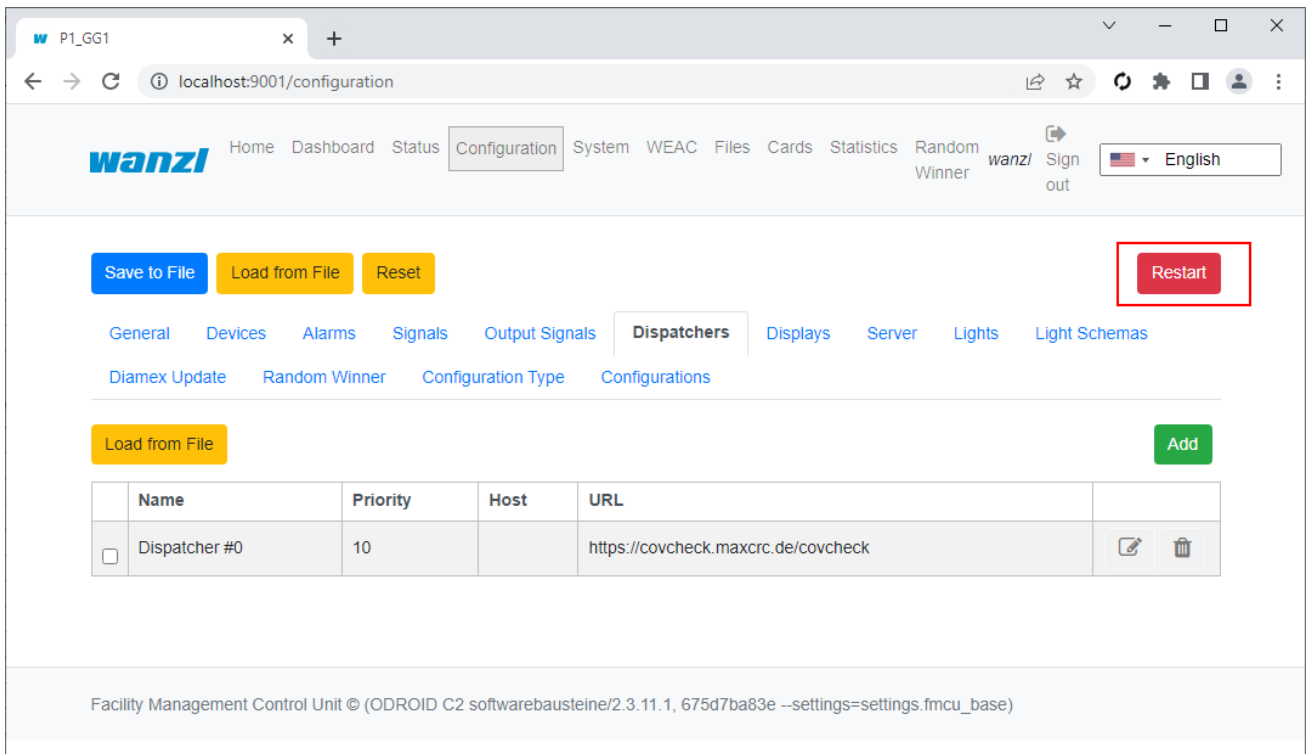
Ruleset *
3G

COVID Test timeout in, ms. *
5000



No SSL certificate validation

Restart the gate:

Covcheck

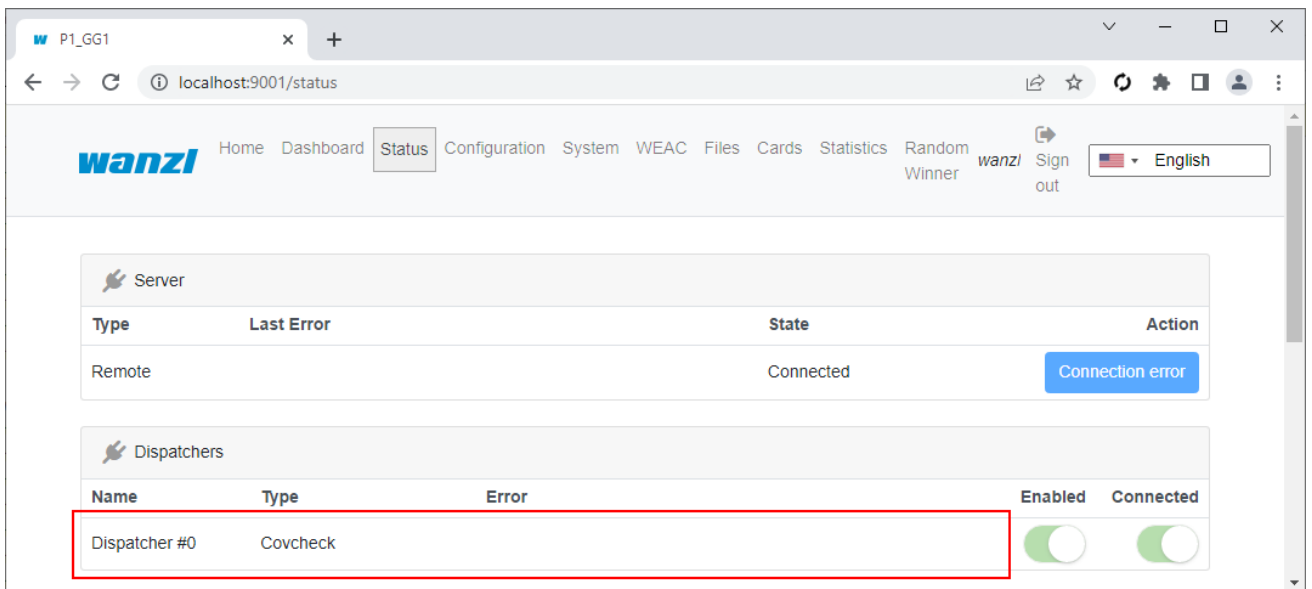


The screenshot shows the Wanzl Configuration page for the Covcheck server. The browser address bar shows `localhost:9001/configuration`. The navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The user is logged in as 'wanzl'. 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 the 'Dispatchers' tab, 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, the footer 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 page. 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	Connection error

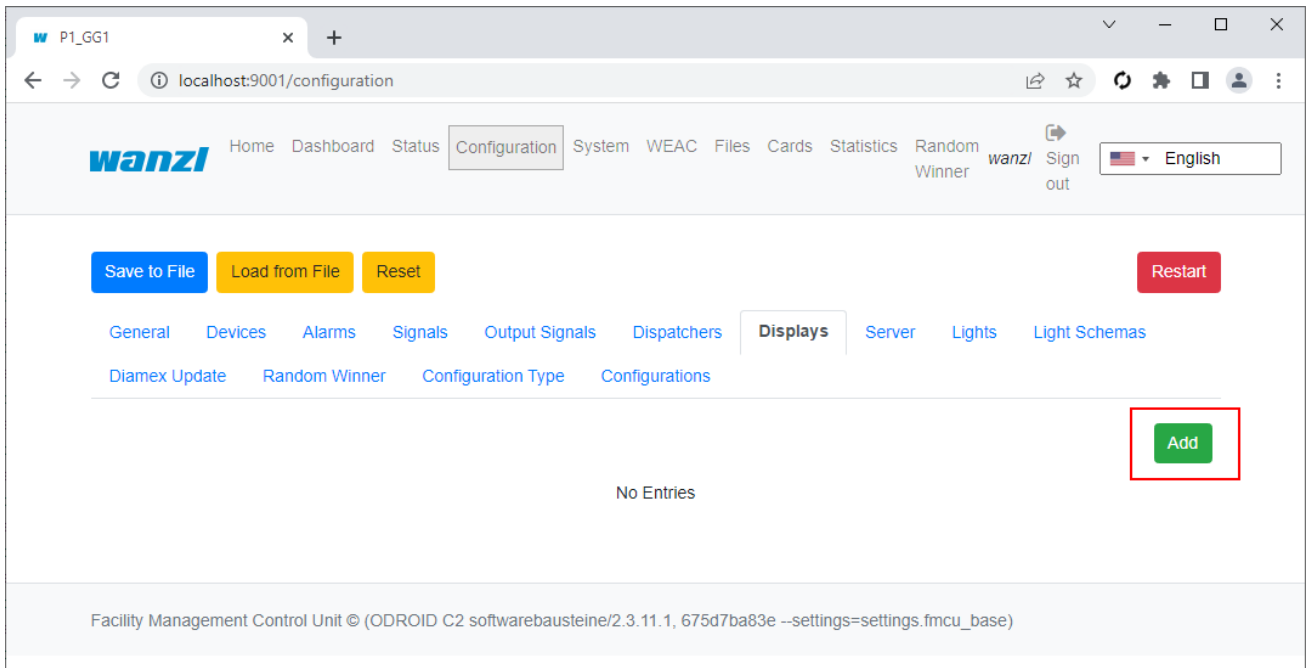
Dispatchers

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

The 'Error' field for '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**:



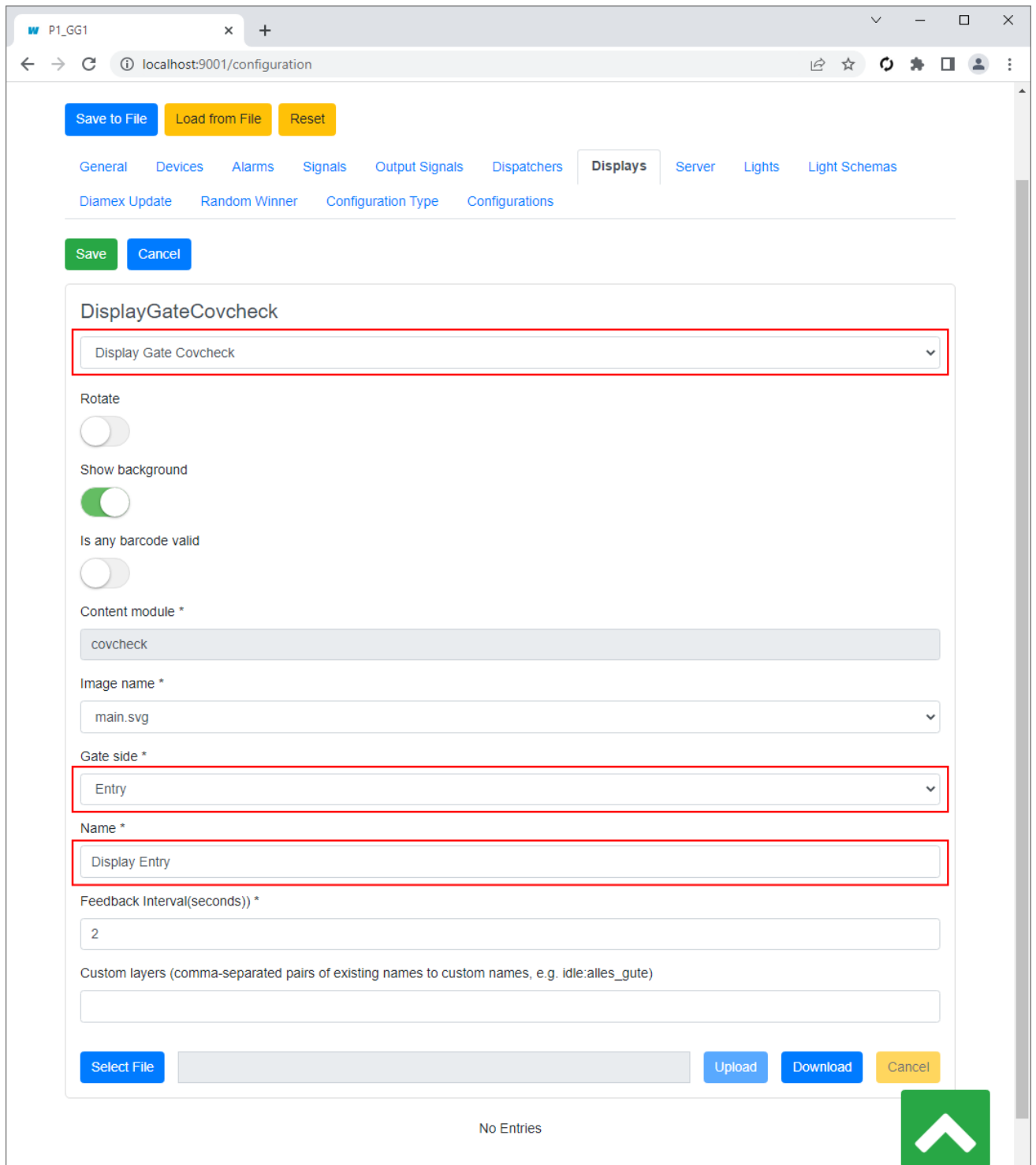
In the combo box under the title **Display** select **Display Gate Covcheck**, modify the following properties if needed and click **Save**:

Gate side

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

Name

User-friendly name

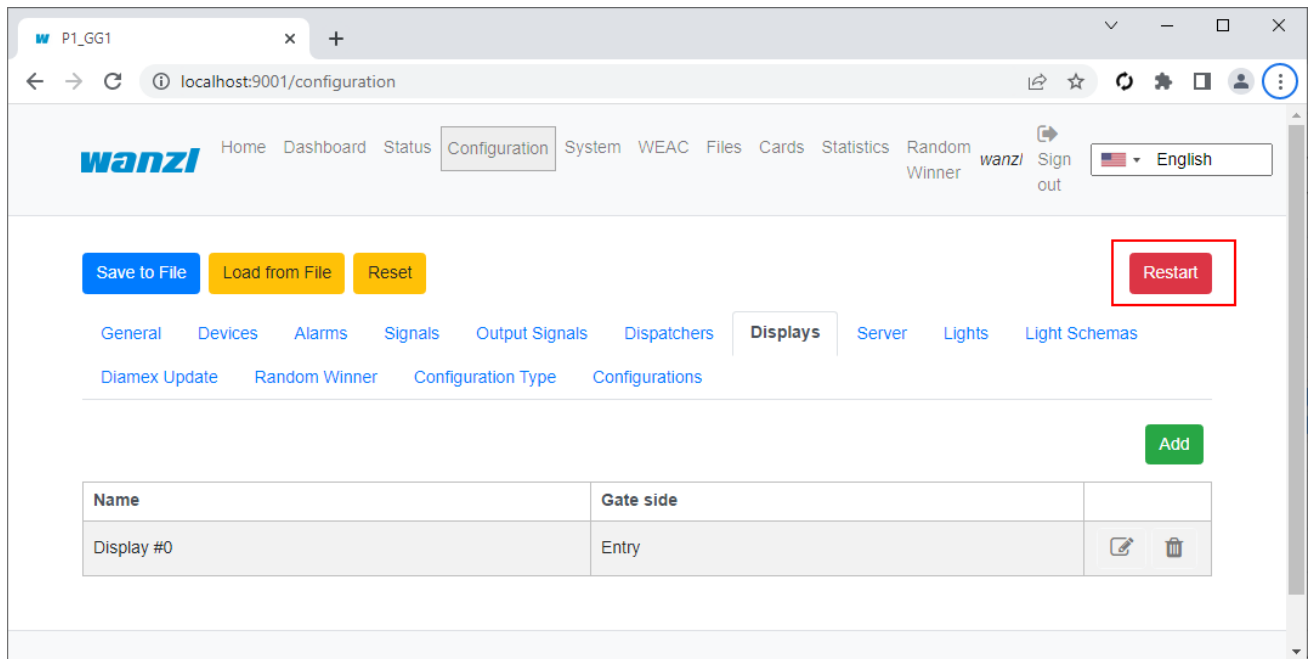


The screenshot shows a web browser window with the URL `localhost:9001/configuration`. The page has a navigation menu with tabs: General, Devices, Alarms, Signals, Output Signals, Dispatchers, **Displays**, Server, Lights, and Light Schemas. Below the navigation, there are buttons for 'Save to File', 'Load from File', and 'Reset'. A sub-menu includes 'Diamex Update', 'Random Winner', 'Configuration Type', and 'Configurations'. The main content area has 'Save' and 'Cancel' buttons. The configuration form is titled 'DisplayGateCovcheck' and contains the following fields:

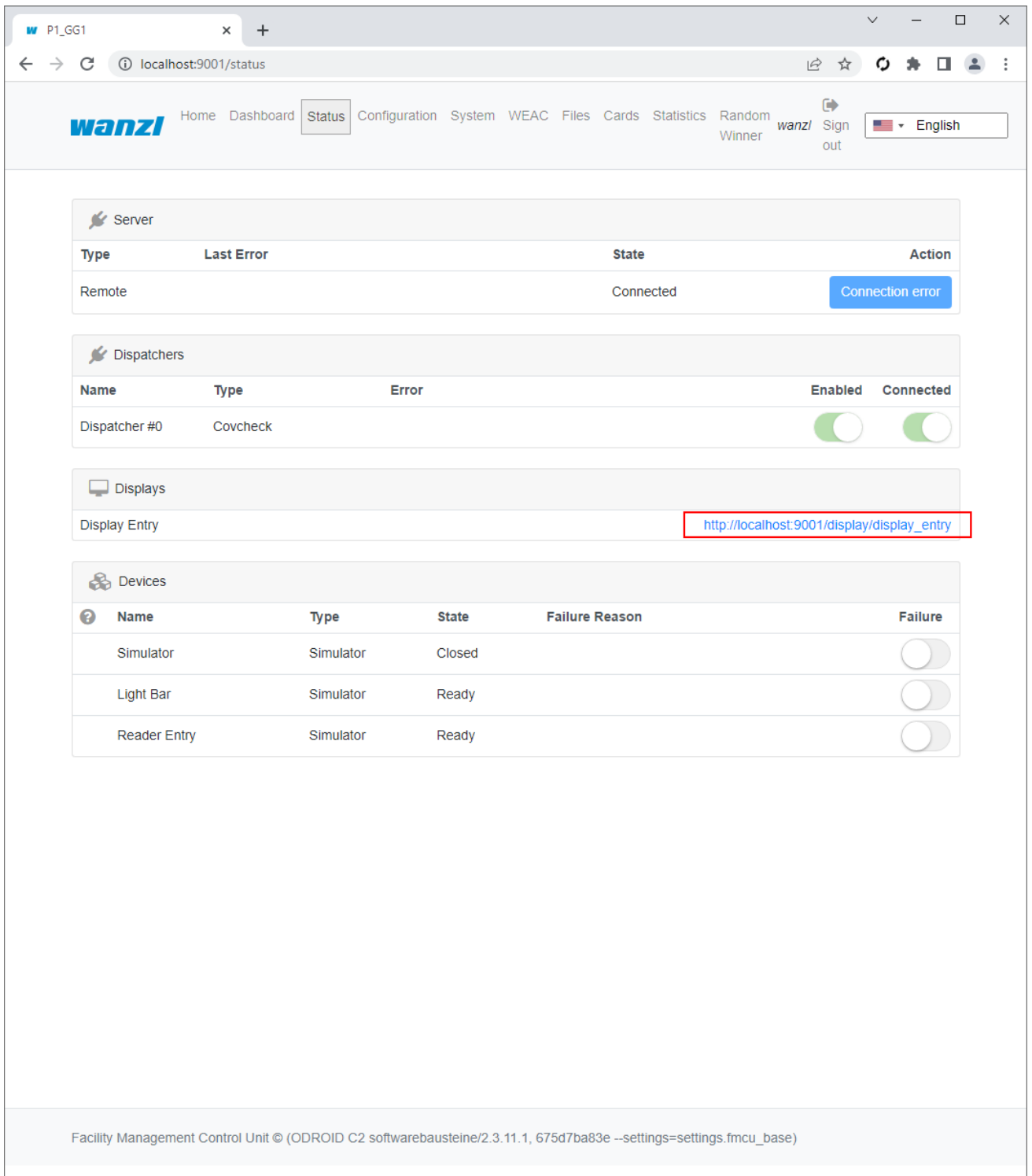
- A dropdown menu with the value 'Display Gate Covcheck' (highlighted with a red box).
- 'Rotate' toggle: off.
- 'Show background' toggle: on.
- 'Is any barcode valid' toggle: off.
- 'Content module *': text input with 'covcheck'.
- 'Image name *': dropdown menu with 'main.svg'.
- 'Gate side *': dropdown menu with 'Entry' (highlighted with a red box).
- 'Name *': text input with 'Display Entry' (highlighted with a red box).
- 'Feedback Interval(seconds) *': text input with '2'.
- 'Custom layers (comma-separated pairs of existing names to custom names, e.g. idle:alles_gute)': empty text input.

At the bottom of the form are buttons for 'Select File', 'Upload', 'Download', and 'Cancel'. Below the form, 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. 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 "URL". The "Display Entry" is "Display Entry" and the "URL" 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:



