

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**)
- 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

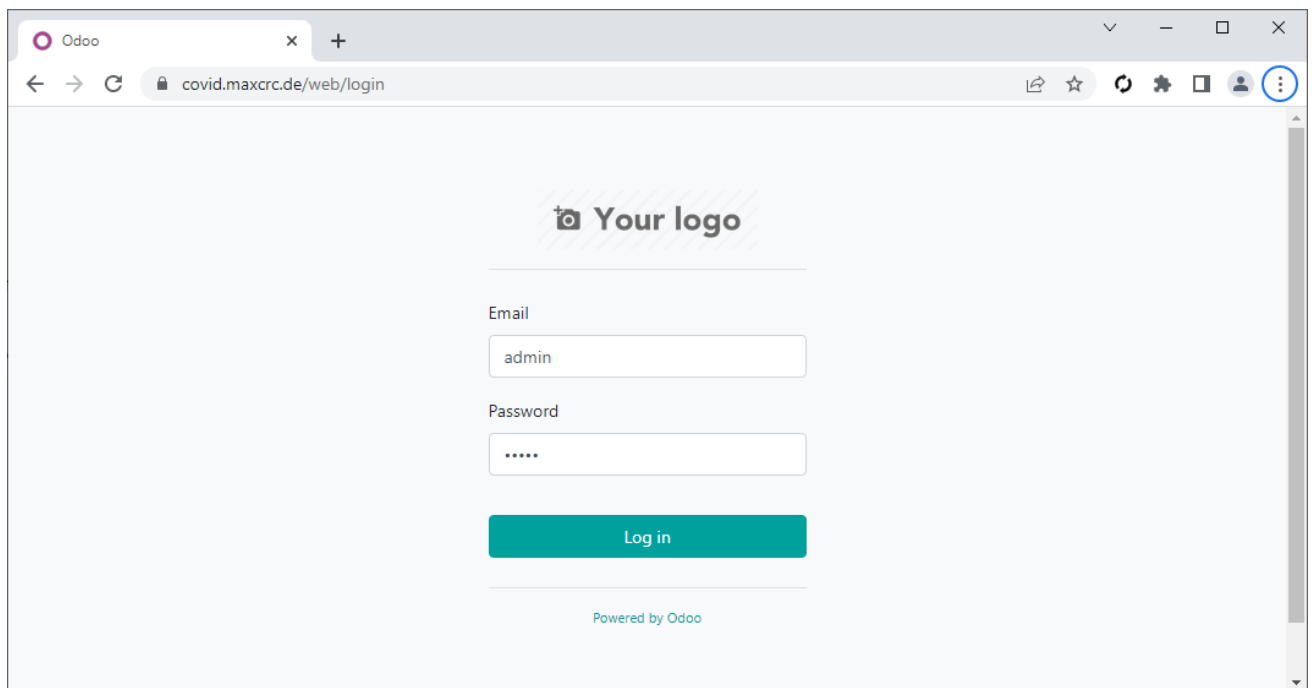
this file

Configuration of Covcheck Application Server

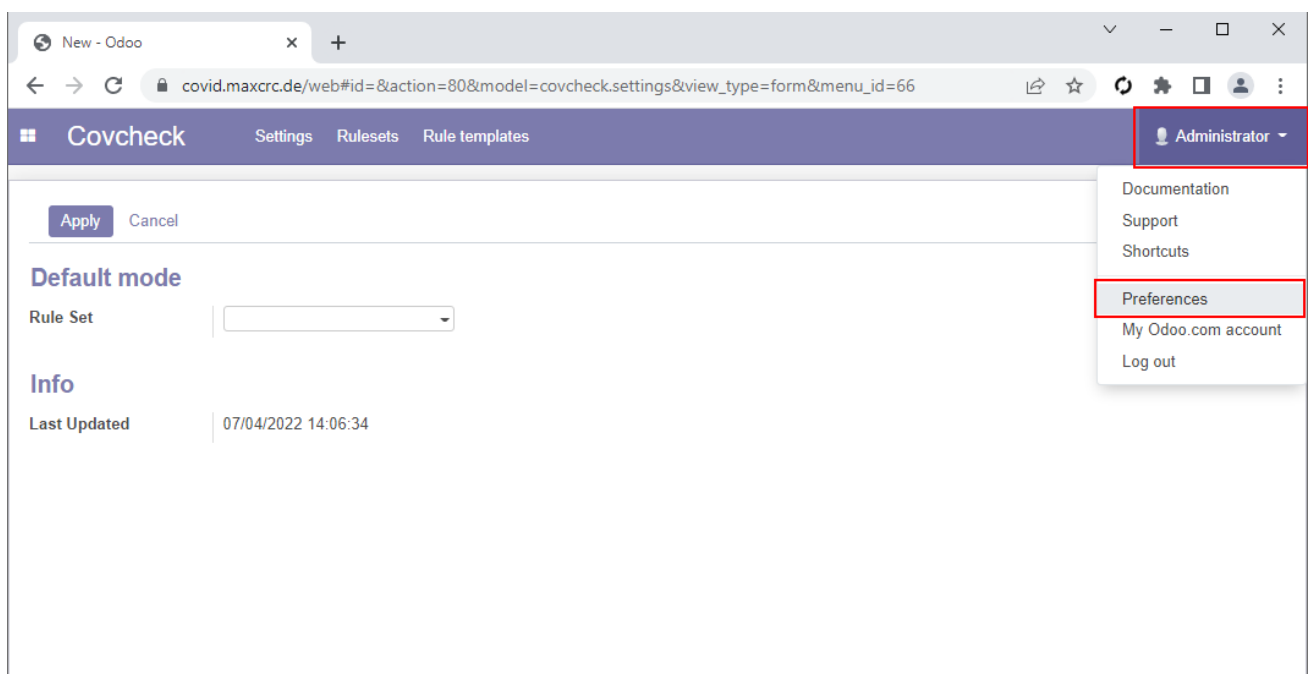
Change Default Password

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

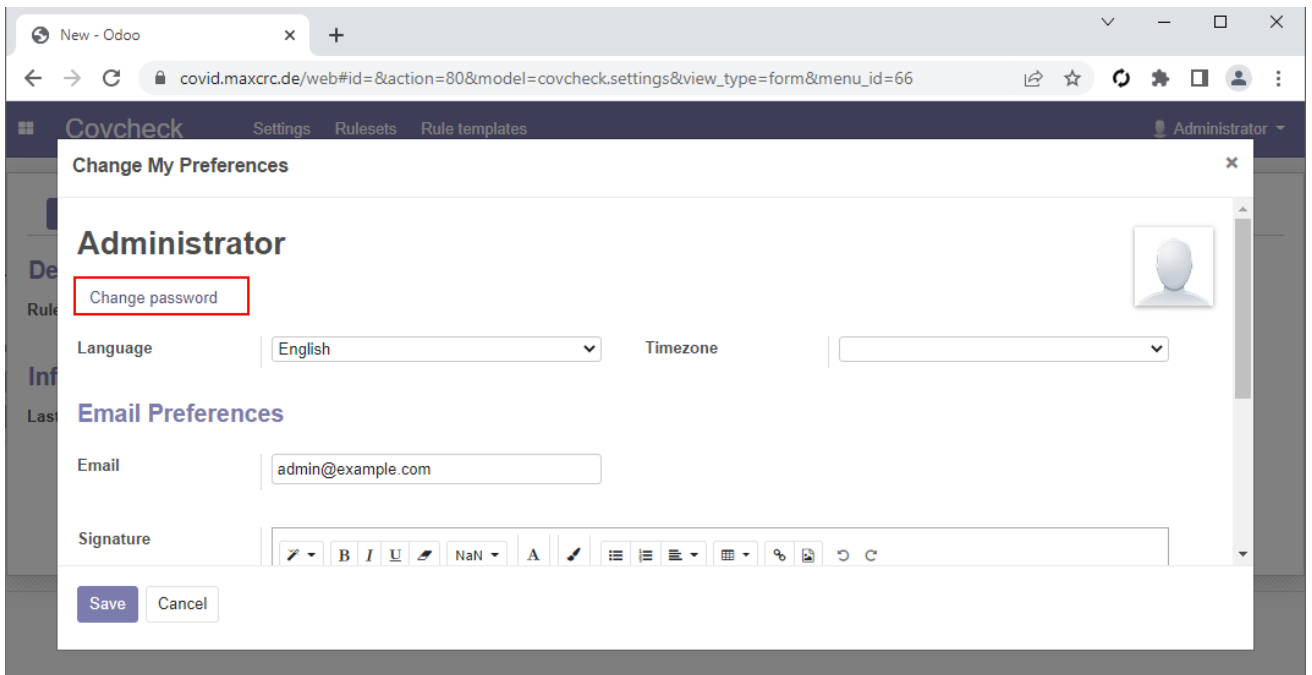
Username	Password
admin	admin



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

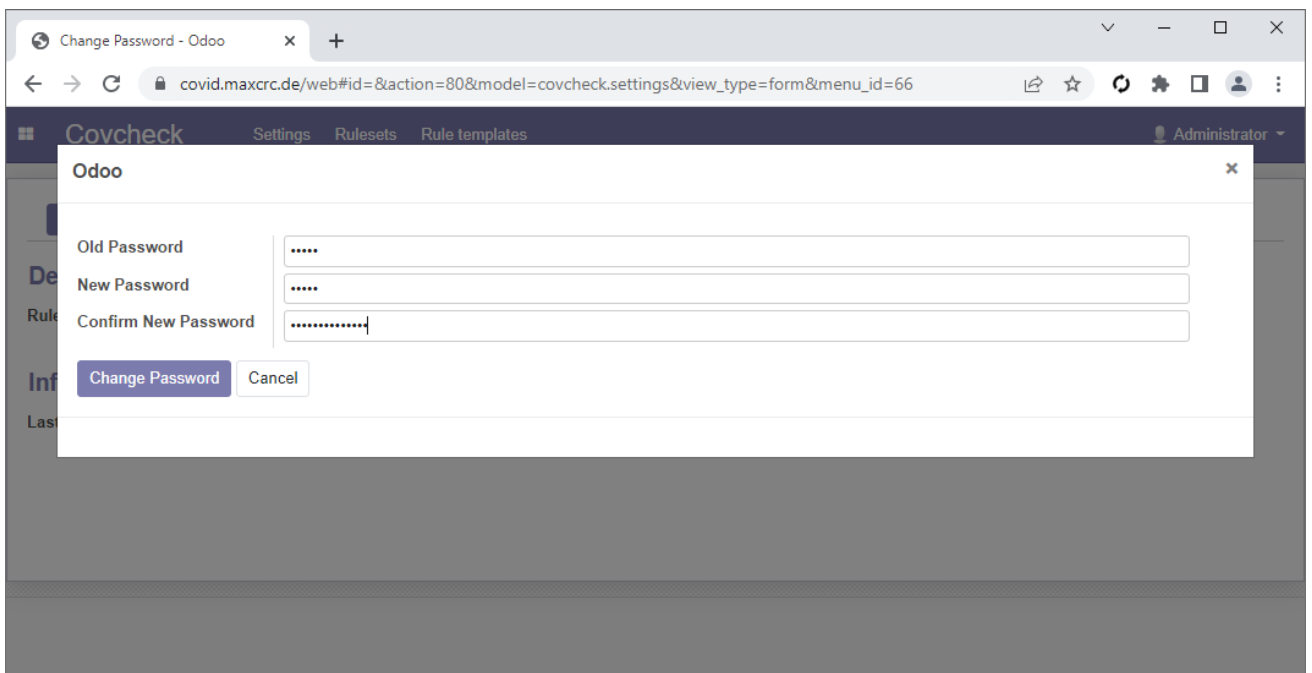


In the opened window click **Change password**:



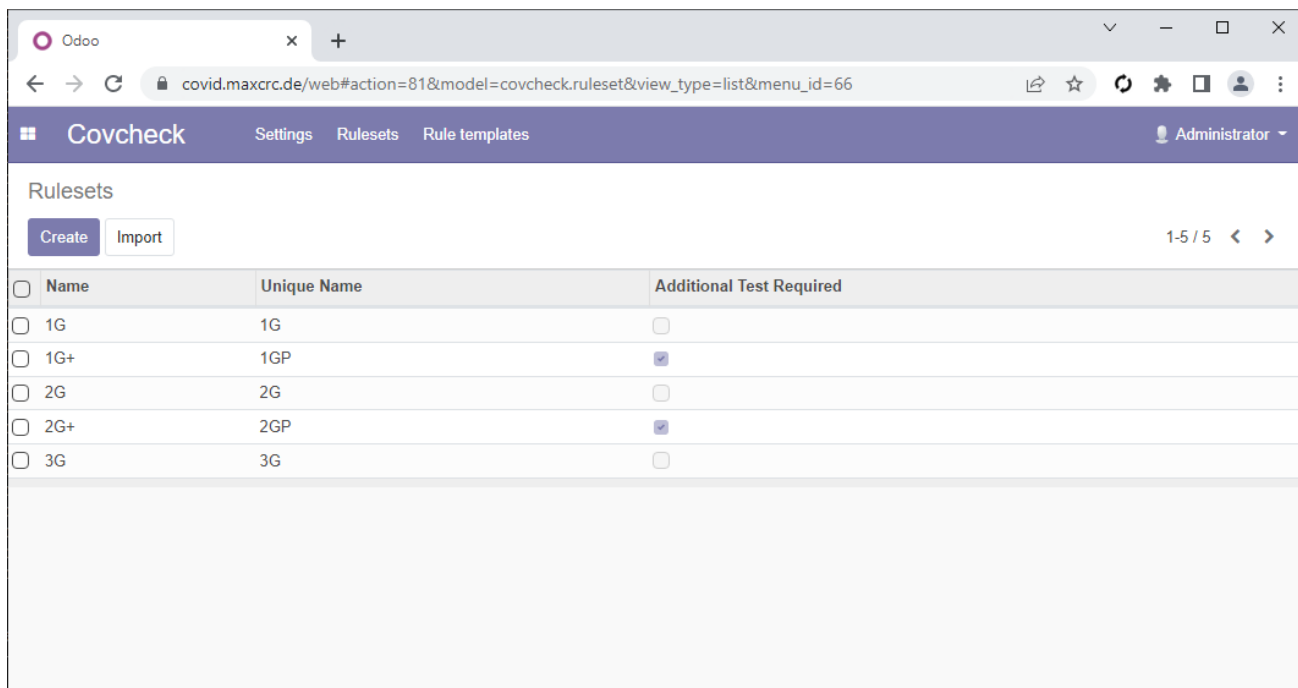
Fill-in the following fields and then click **Change Password**:

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

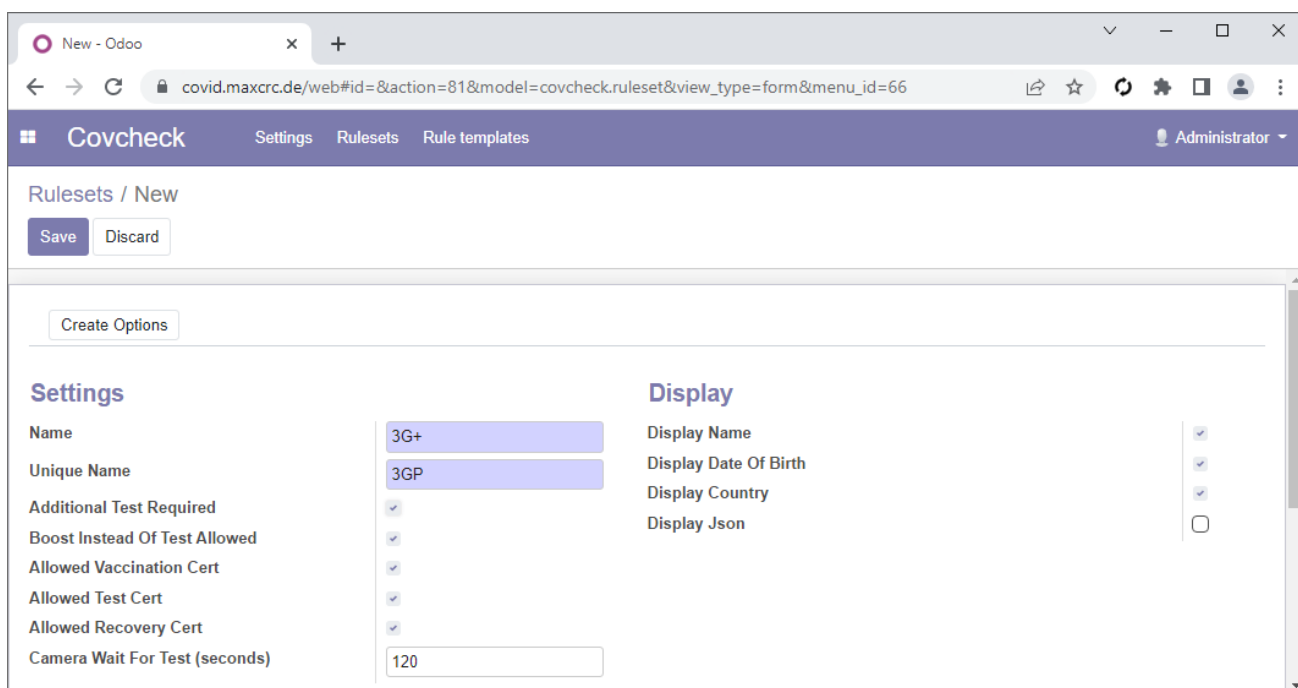


Managing Rulesets

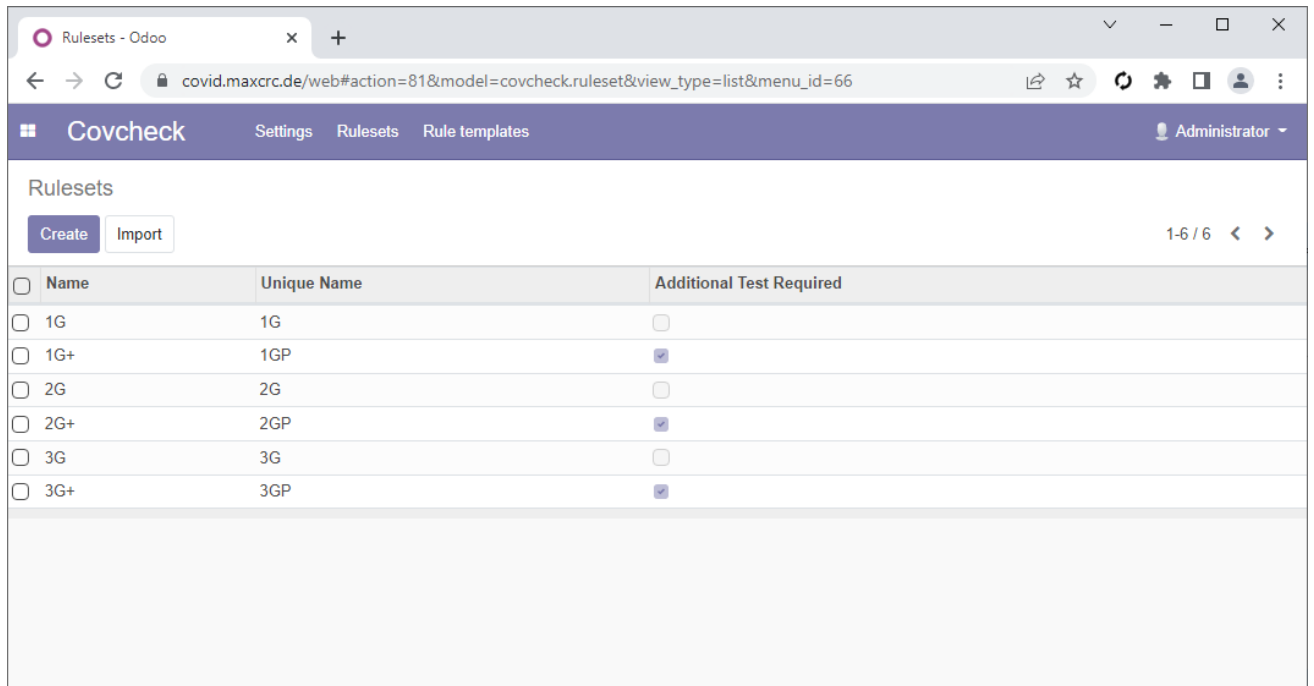
You can add, modify and delete rulesets on the **Rulesets** page:



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:



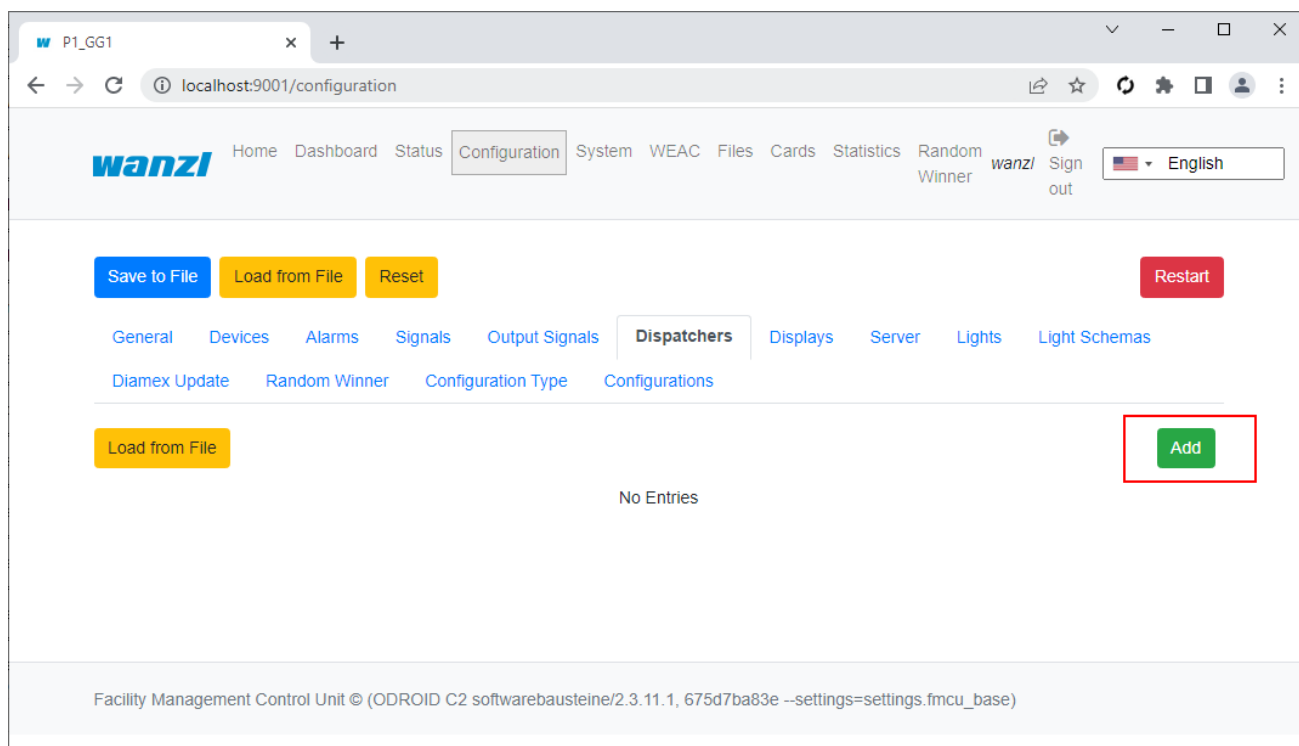
<input type="checkbox"/>	Name	Unique Name	Additional Test Required
<input type="checkbox"/>	1G	1G	<input type="checkbox"/>
<input type="checkbox"/>	1G+	1GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2G	2G	<input type="checkbox"/>
<input type="checkbox"/>	2G+	2GP	<input checked="" type="checkbox"/>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

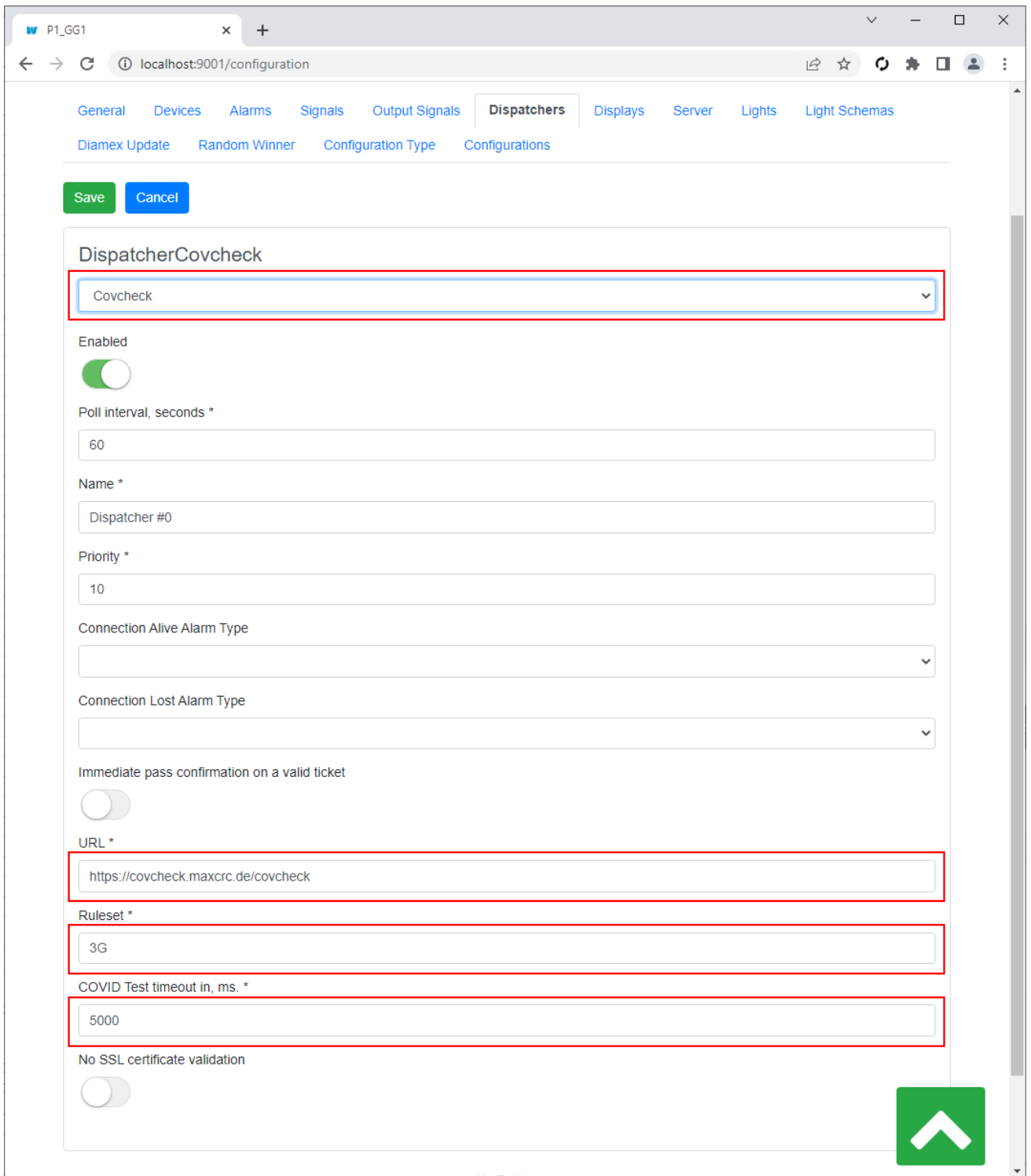
Base URL of Covcheck's API

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



Browser: 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

Section: DispatcherCovcheck

Dropdown: Covcheck

Enabled:

Poll interval, seconds *: 60

Name *: Dispatcher #0

Priority *: 10

Connection Alive Alarm Type: [Empty]

Connection Lost Alarm Type: [Empty]


Immediate pass confirmation on a valid ticket:

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

Ruleset *: 3G

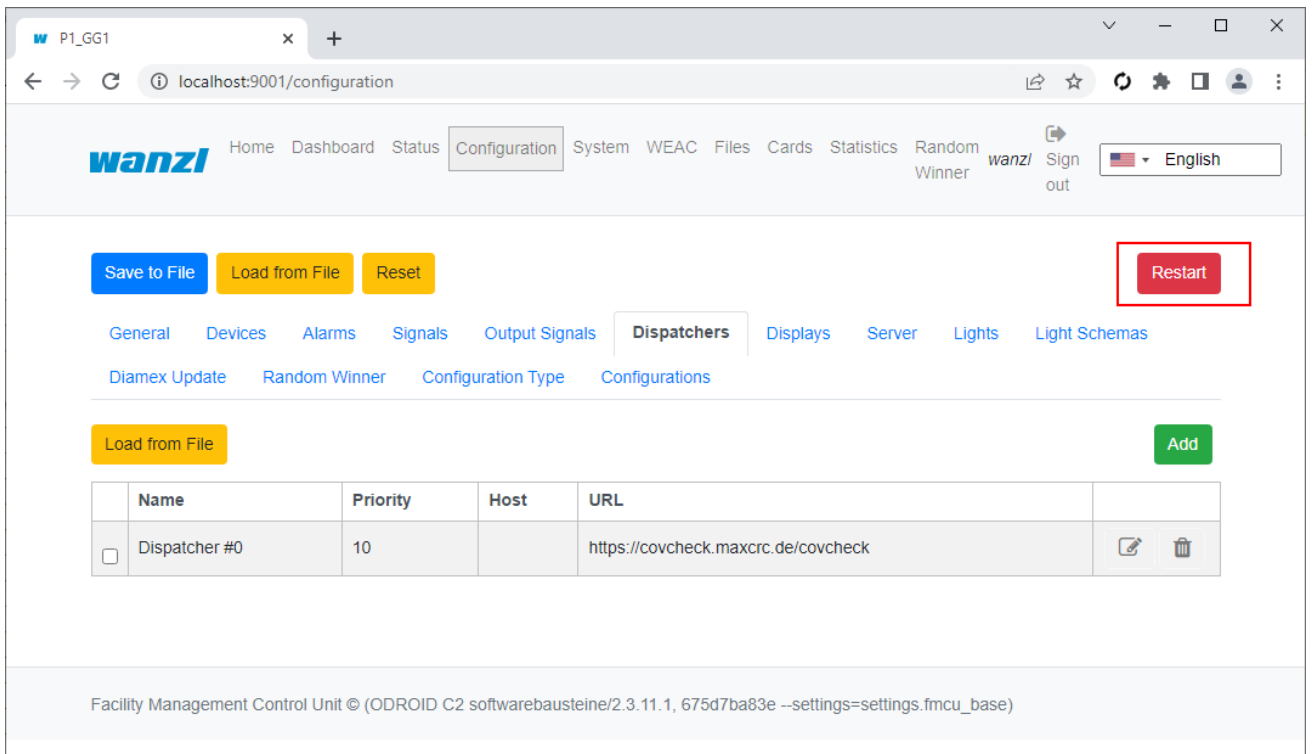
COVID Test timeout in, ms. *: 5000

No SSL certificate validation:



Bottom right: 

Restart the gate:

Covcheck

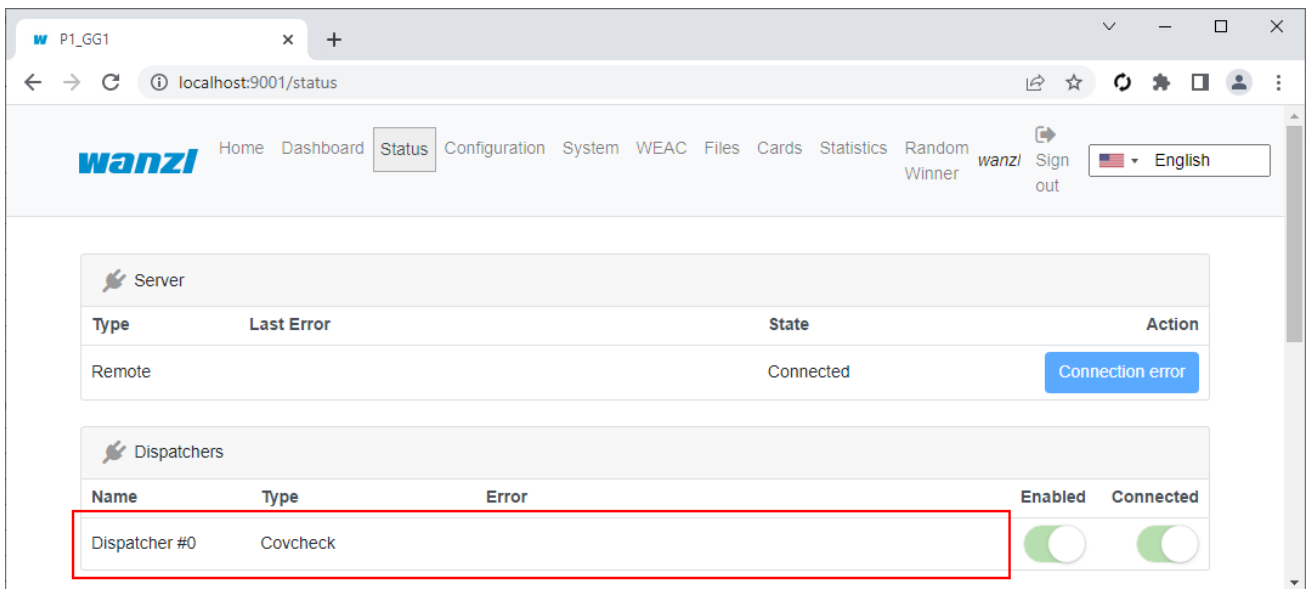


The screenshot shows the Wanzl configuration interface for the Covcheck server. The browser address bar shows `localhost:9001/configuration`. The navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The 'Configuration' tab 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:



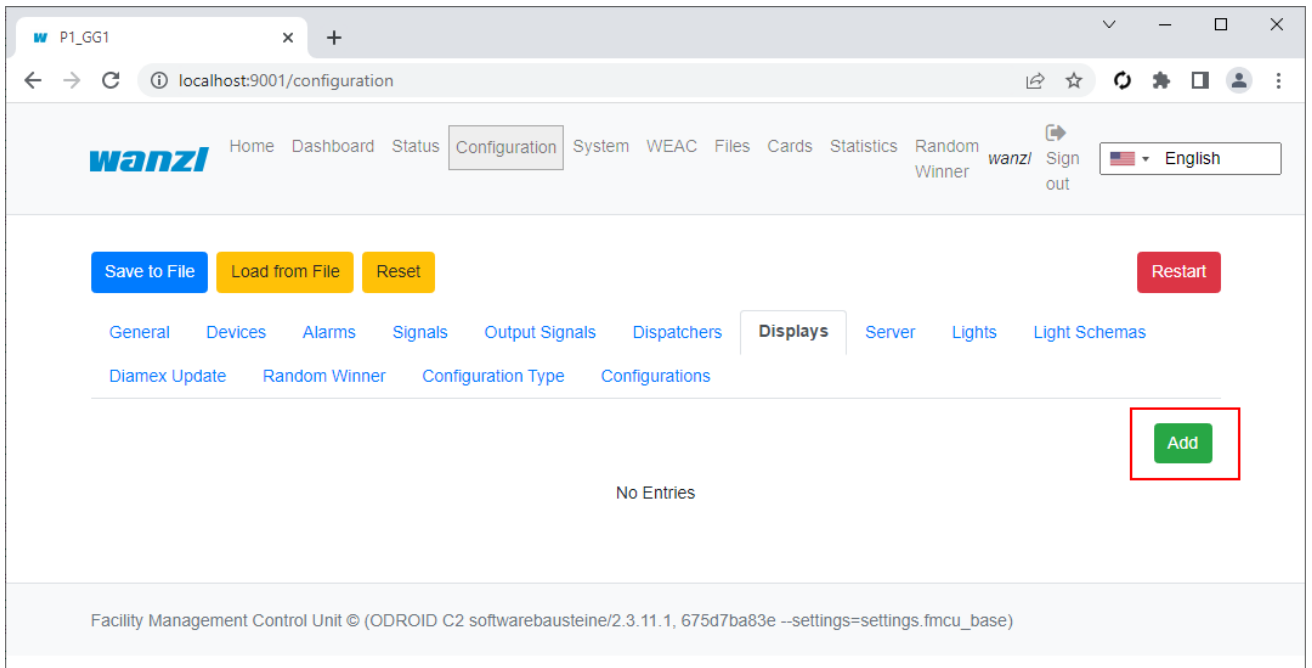
The screenshot shows the Wanzl status interface. The browser address bar shows `localhost:9001/status`. The navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The 'Status' tab is active. The 'Server' section shows a table 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

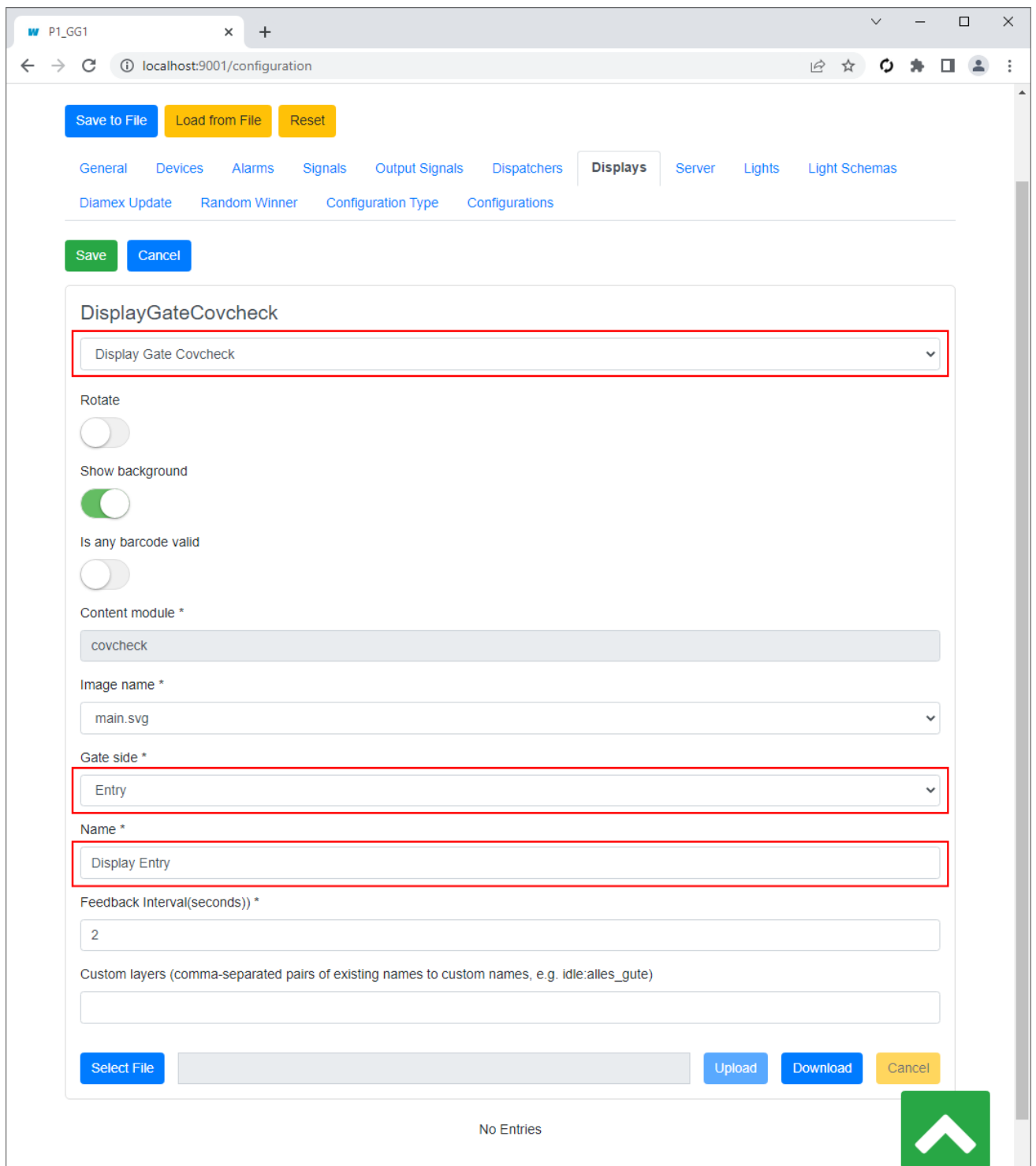
Name	Type	Error	Enabled	Connected
Dispatcher #0	Covcheck		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Display

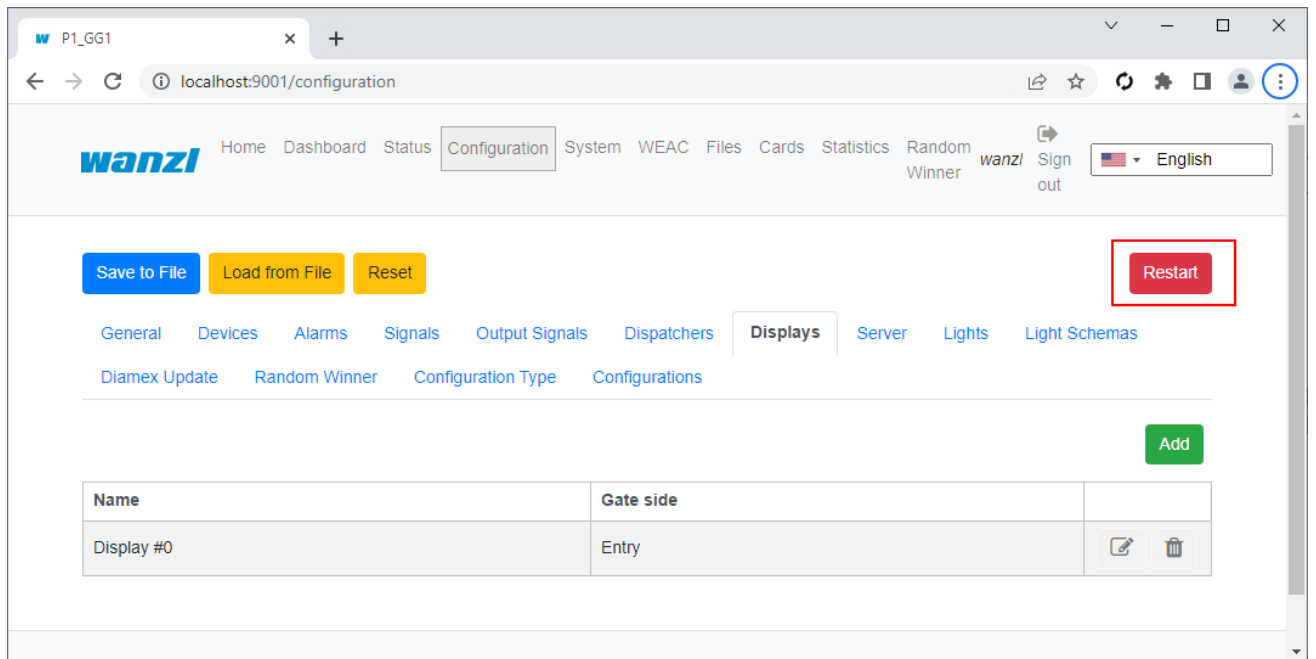
Open the URL of the gate, login with the user **wanzl** and navigate to the **Configuration** page. Select tab **Displays** and click **Add**:





The screenshot shows a web browser window with the URL `localhost:9001/configuration`. The page title is `P1_GG1`. The navigation menu includes `Home`, `Dashboard`, `Status`, `Configuration` (highlighted), `System`, `WEAC`, `Files`, `Cards`, `Statistics`, `Random Winner`, `wanzi/ Sign out`, and a language dropdown set to `English`. Below the navigation, there are buttons for `Save to File` (blue), `Load from File` (yellow), `Reset` (yellow), and `Restart` (red). The `Displays` tab is selected in the sub-menu, along with `General`, `Devices`, `Alarms`, `Signals`, `Output Signals`, `Dispatchers`, `Server`, `Lights`, and `Light Schemas`. Below the sub-menu, there are links for `Diamex Update`, `Random Winner`, `Configuration Type`, and `Configurations`. The main content area is empty, displaying `No Entries`. A green `Add` button is highlighted with a red box. At the bottom, the footer text reads: `Facility Management Control Unit © (ODROID C2 softwarebausteine/2.3.11.1, 675d7ba83e --settings=settings.fmcu_base)`.

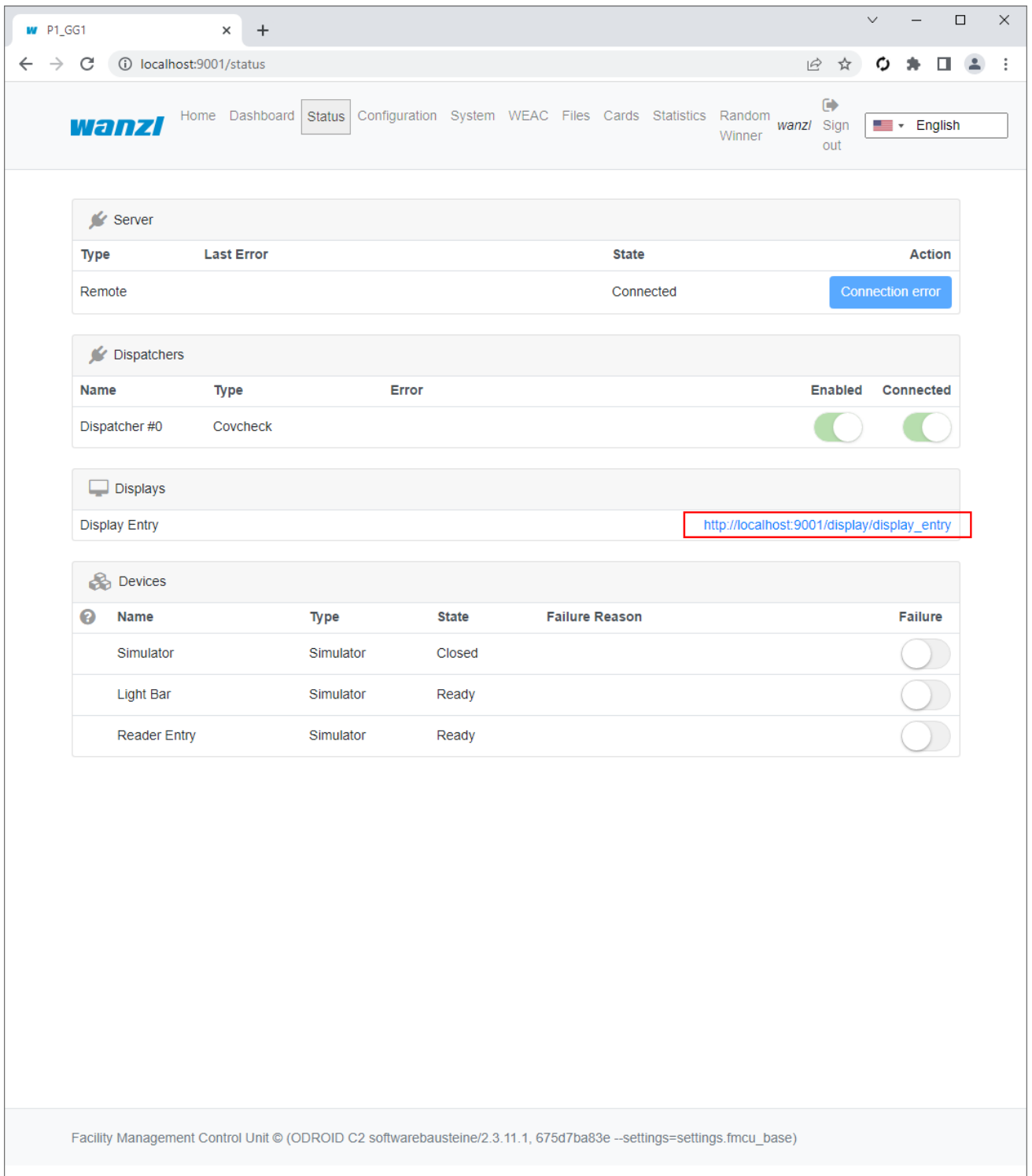


The screenshot shows a web browser window at localhost:9001/configuration. The interface includes a top navigation bar with buttons for 'Save to File', 'Load from File', and 'Reset'. Below this is a menu with 'Displays' selected. The main configuration area for 'DisplayGateCovcheck' contains several fields: a dropdown menu for 'Display Gate Covcheck', toggle switches for 'Rotate', 'Show background', and 'Is any barcode valid', a text field for 'Content module *' (covcheck), a dropdown for 'Image name *' (main.svg), a dropdown for 'Gate side *' (Entry), a text field for 'Name *' (Display Entry), a text field for 'Feedback Interval(seconds) *' (2), and a text field for 'Custom layers'. At the bottom, there are buttons for 'Select File', 'Upload', 'Download', and 'Cancel'. A green arrow button is visible in the bottom right corner.



The screenshot shows a web browser window with the URL localhost:9001/configuration. The page title is 'wanzi' and the navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The 'Configuration' menu item is highlighted. Below the navigation, there are buttons for 'Save to File', 'Load from File', 'Reset', and 'Restart' (the latter is highlighted with a red box). The 'Displays' tab is selected in the sub-menu. Below the sub-menu, there is an 'Add' button and a table with the following content:

Name	Gate side	
Display #0	Entry	 



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"/>

Displays

Display Entry	Link
Display Entry	http://localhost:9001/display/display_entry

Devices

Name	Type	State	Failure Reason	Failure
Simulator	Simulator	Closed		<input type="checkbox"/>
Light Bar	Simulator	Ready		<input type="checkbox"/>
Reader Entry	Simulator	Ready		<input type="checkbox"/>

Facility Management Control Unit © (ODROID C2 softwarebausteine/2.3.11.1, 675d7ba83e --settings=settings.fmcu_base)







The screenshot shows a web browser window with the address bar displaying "localhost:9001/display/display_er" and "localhost:9001/display/display_entry". The main content area has a light blue background and features a blue icon of a hand holding a smartphone. Below the icon, the text reads "Bitte Test-Zertificat scannen" in a large, bold, blue font. At the bottom, there is a large blue number "5" followed by a blue hourglass icon, indicating a 5-minute time limit.

