

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

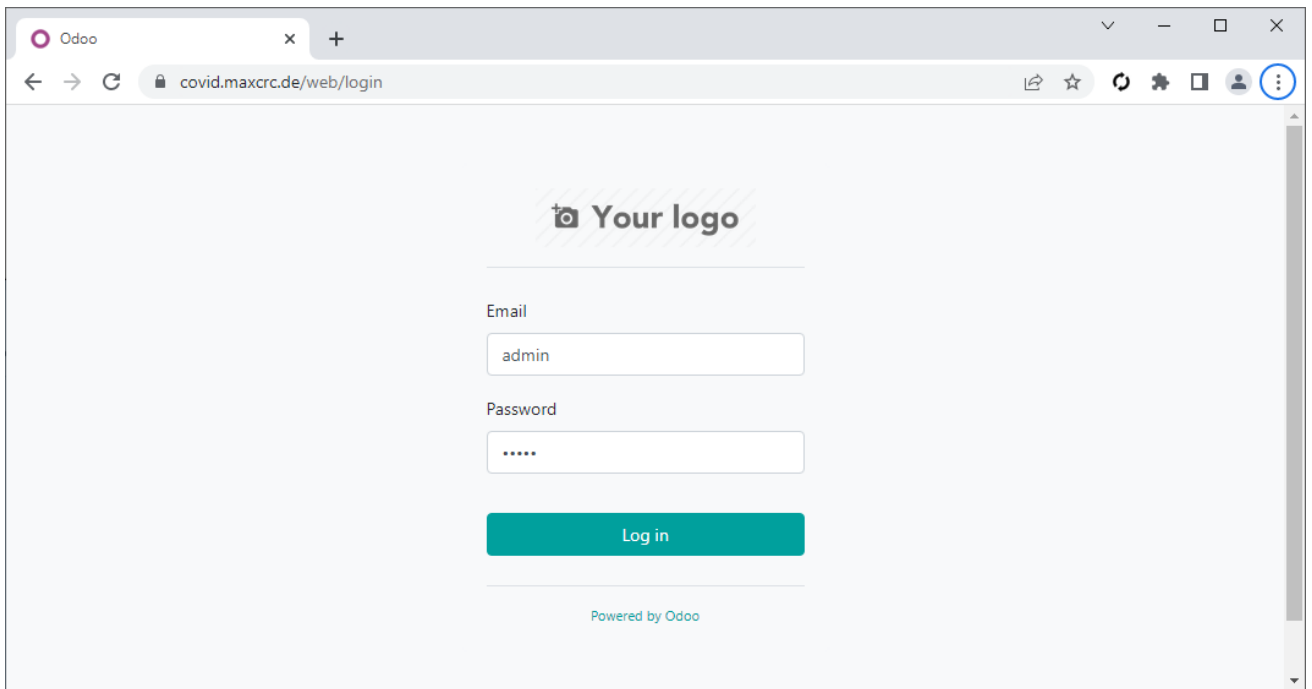
this file

Configuration of Covcheck Application Server

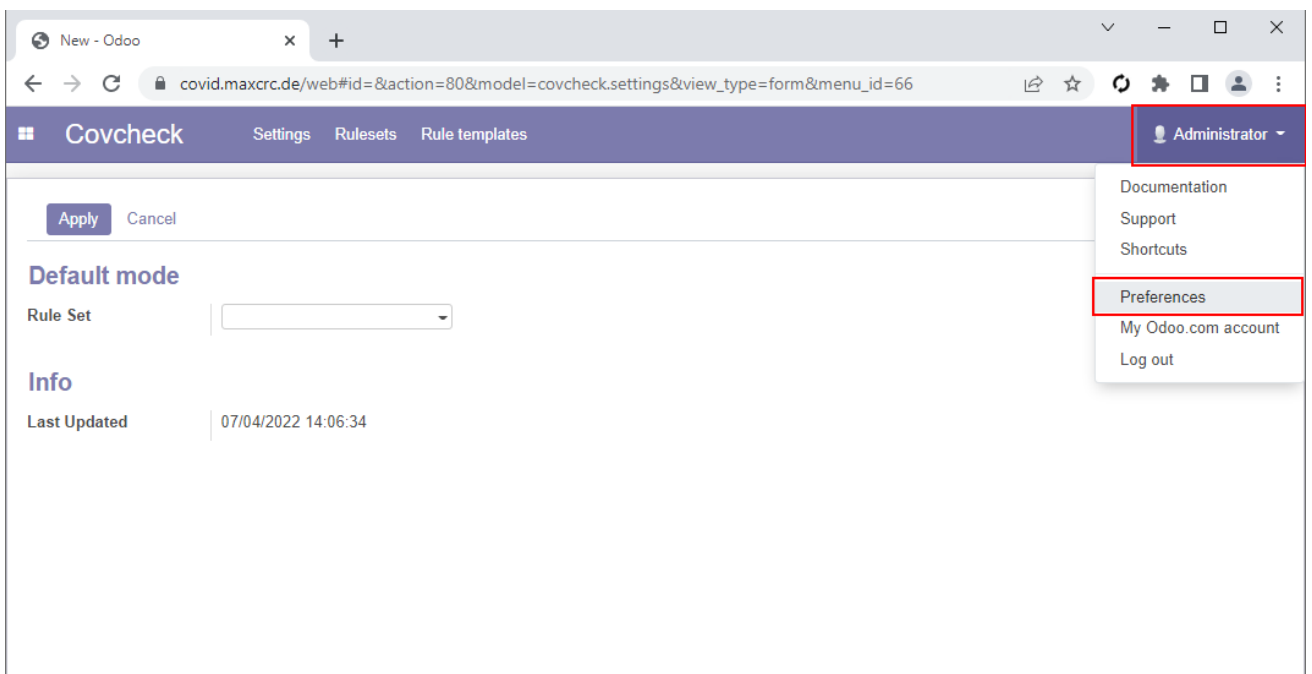
Change Default Password

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

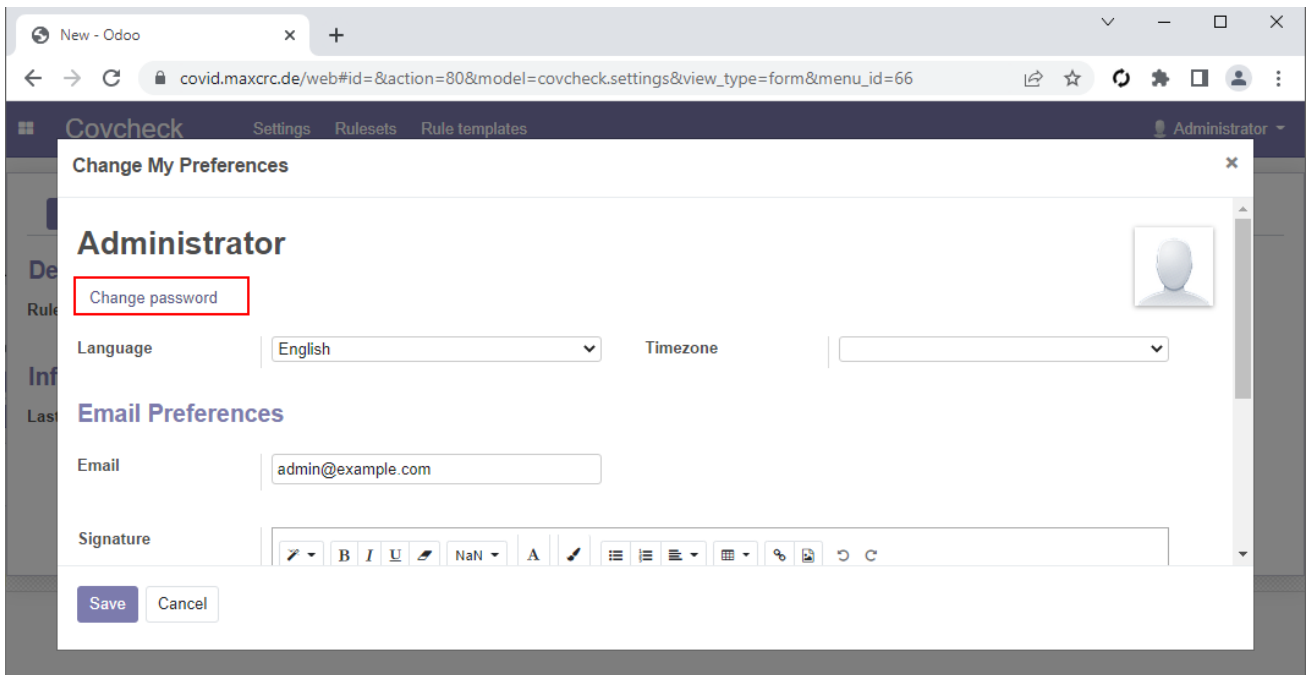
Username	Password
admin	admin



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

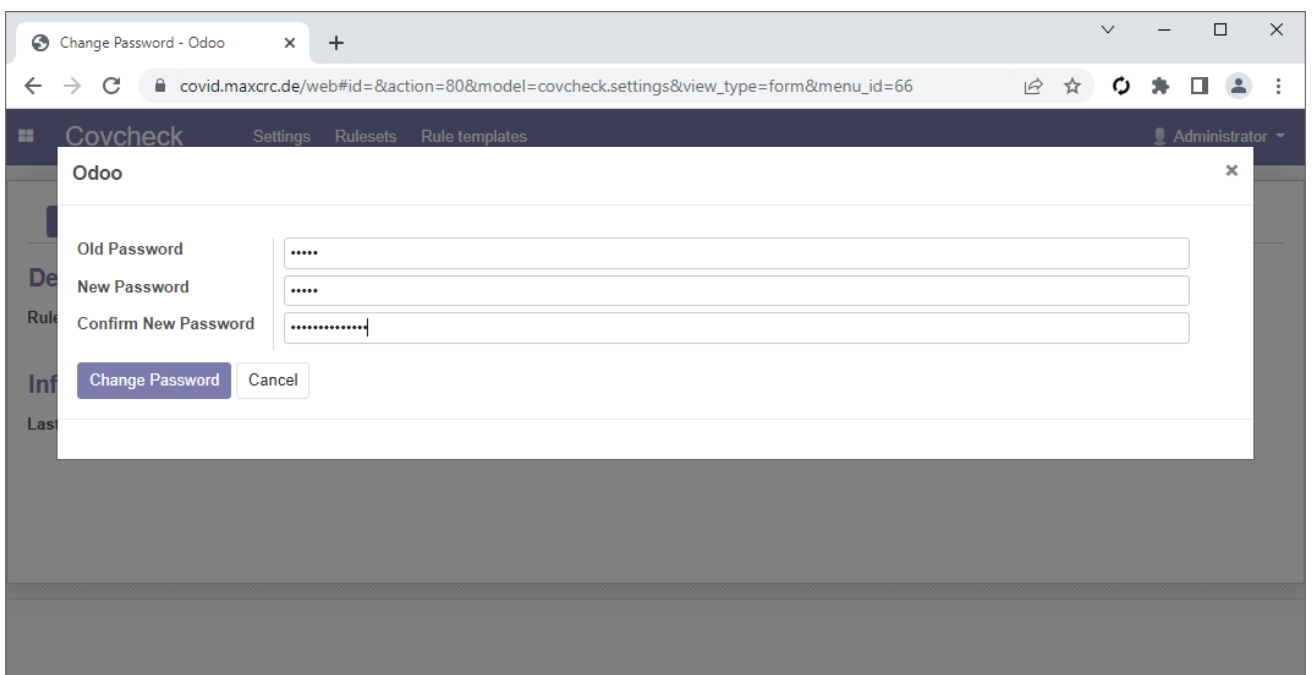


In the opened window click **Change password**:



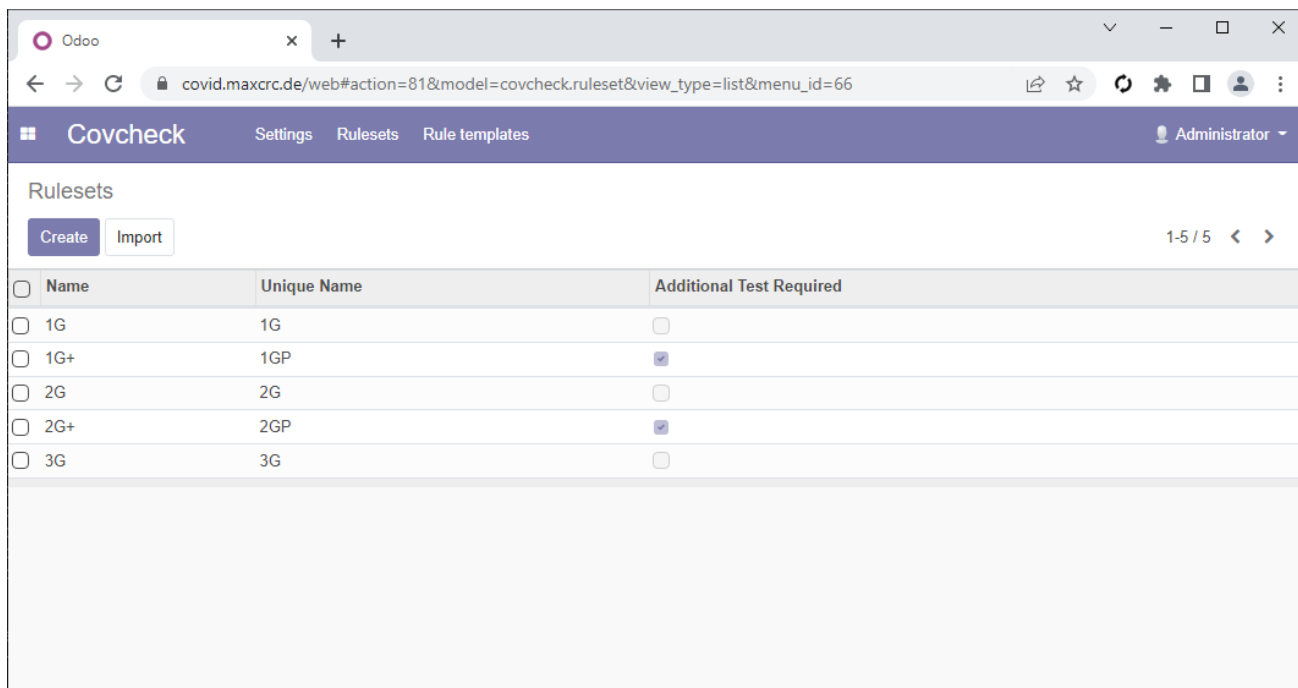
Fill-in the following fields and then click **Change Password**:

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



Managing Rulesets

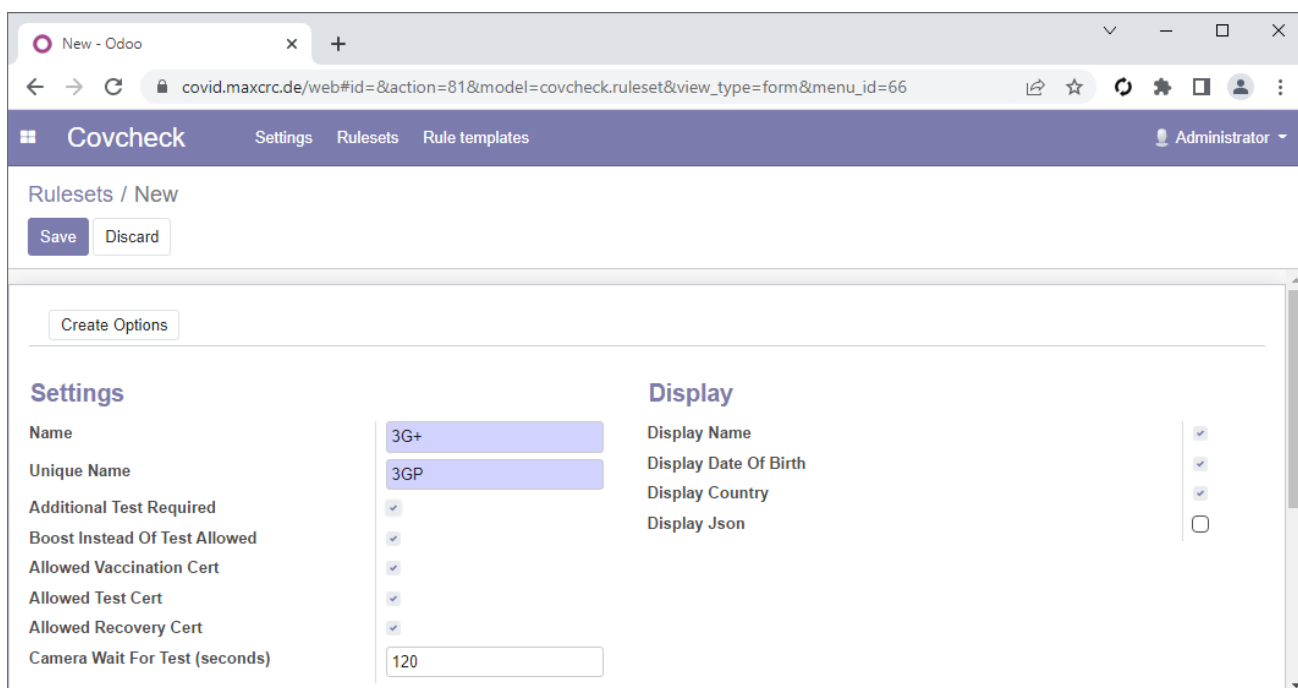
You can add, modify and delete rulesets on the **Rulesets** page:



The screenshot shows the 'Rulesets' page in the Odoo 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 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 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"/>

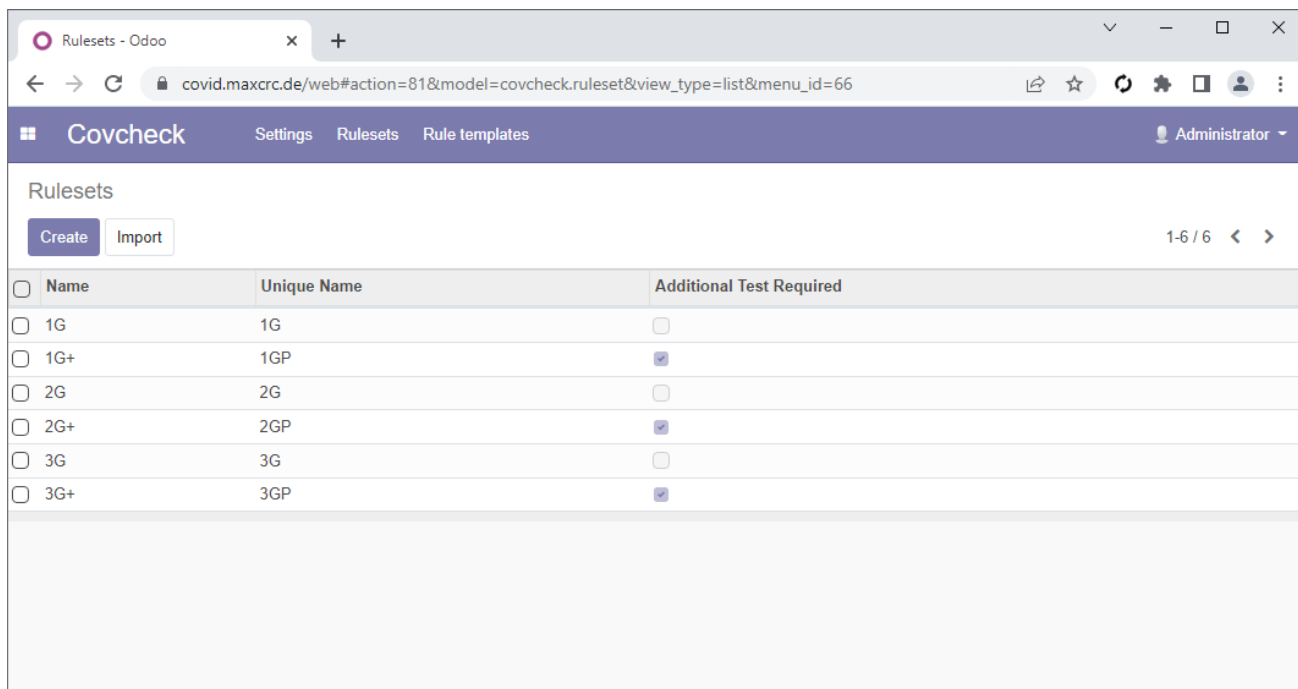
For example, let us create a ruleset **3G+**, which requires an additional test. Click **Create** fill-in the fields **Name** and **Unique Name**, check **Additional Test Required** and click **Save**:



The screenshot shows the 'Rulesets / New' form in the Odoo application. 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 form contains the following fields:

Settings	Display
Name	Display Name
Unique Name	Display Date Of Birth
Additional Test Required	Display Country
Boost Instead Of Test Allowed	Display Json
Allowed Vaccination Cert	
Allowed Test Cert	
Allowed Recovery Cert	
Camera Wait For Test (seconds)	

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



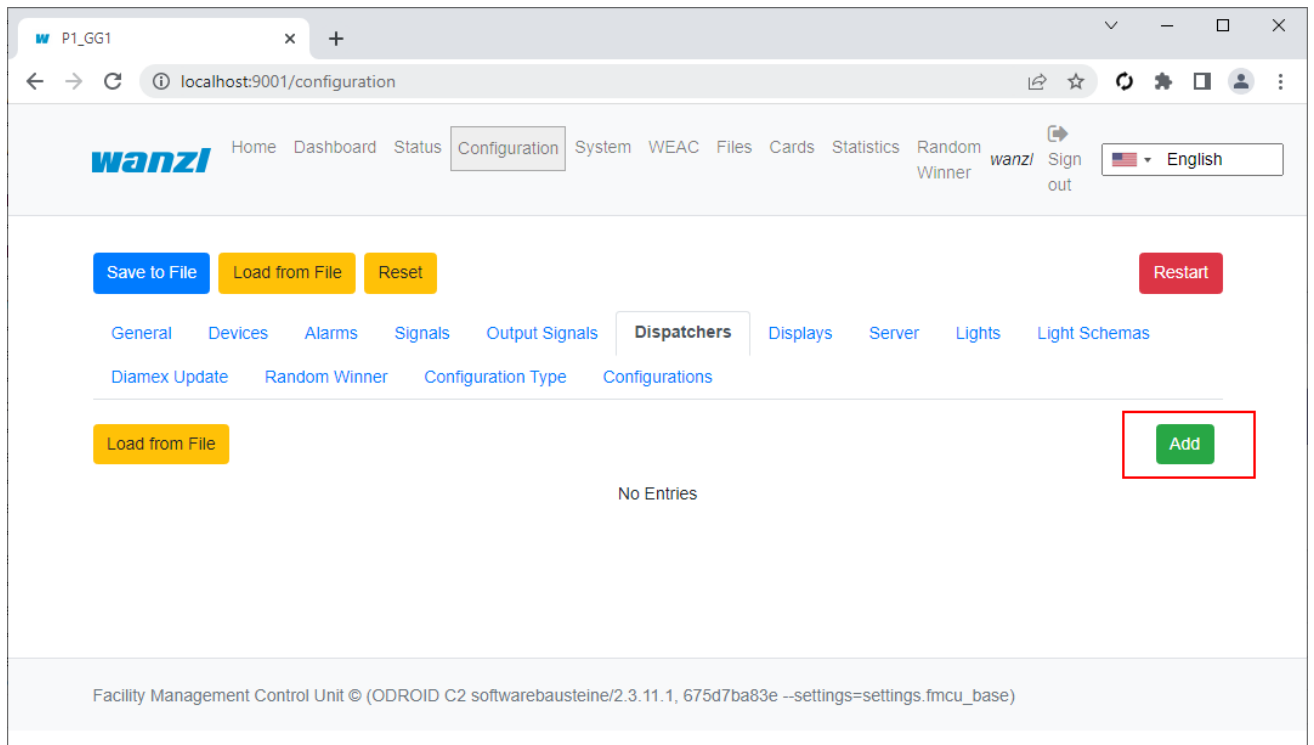
<input type="checkbox"/>	Name	Unique Name	Additional Test Required
<input type="checkbox"/>	1G	1G	<input type="checkbox"/>
<input type="checkbox"/>	1G+	1GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2G	2G	<input type="checkbox"/>
<input type="checkbox"/>	2G+	2GP	<input checked="" type="checkbox"/>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

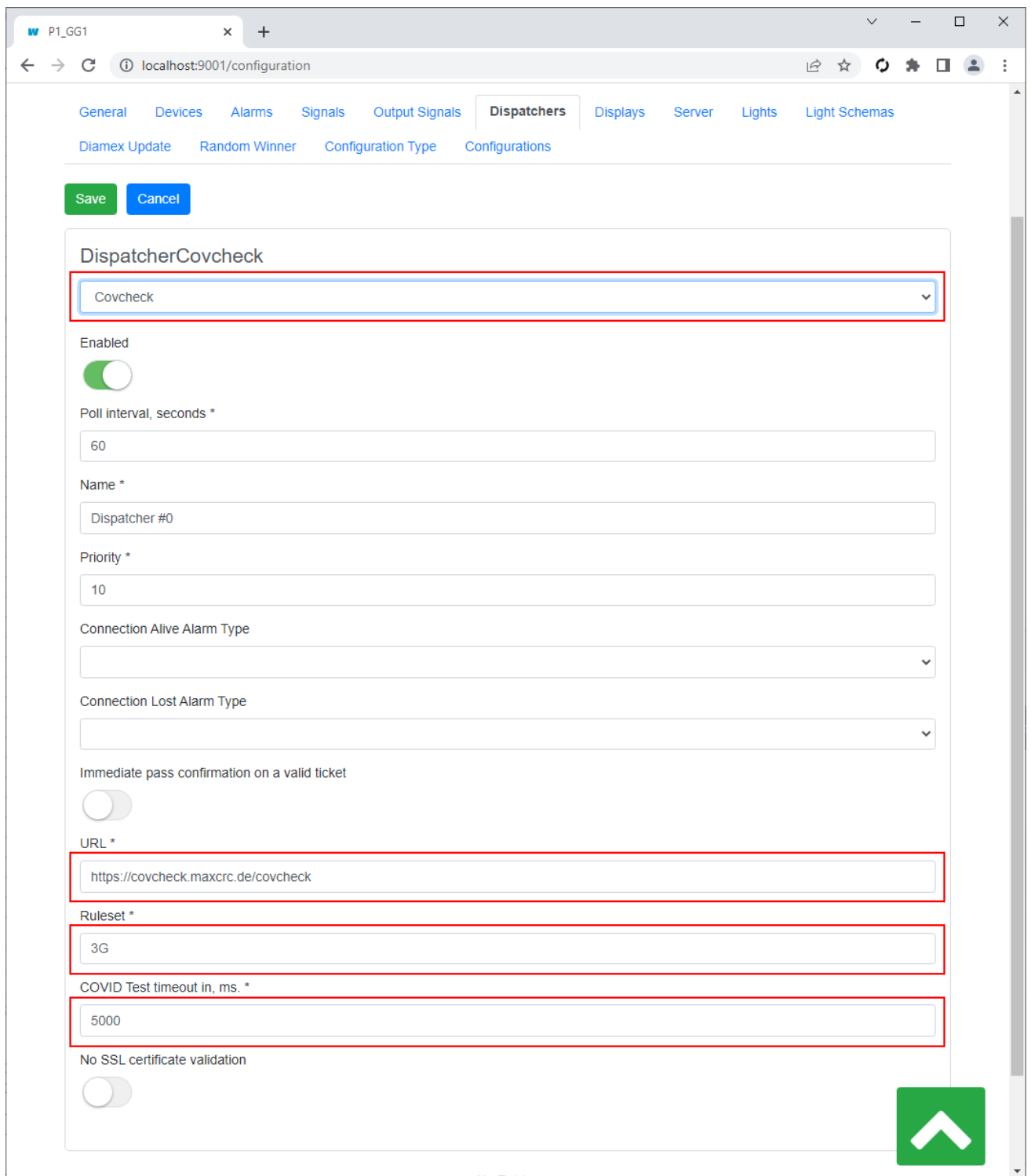
Base URL of Covcheck's API

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



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

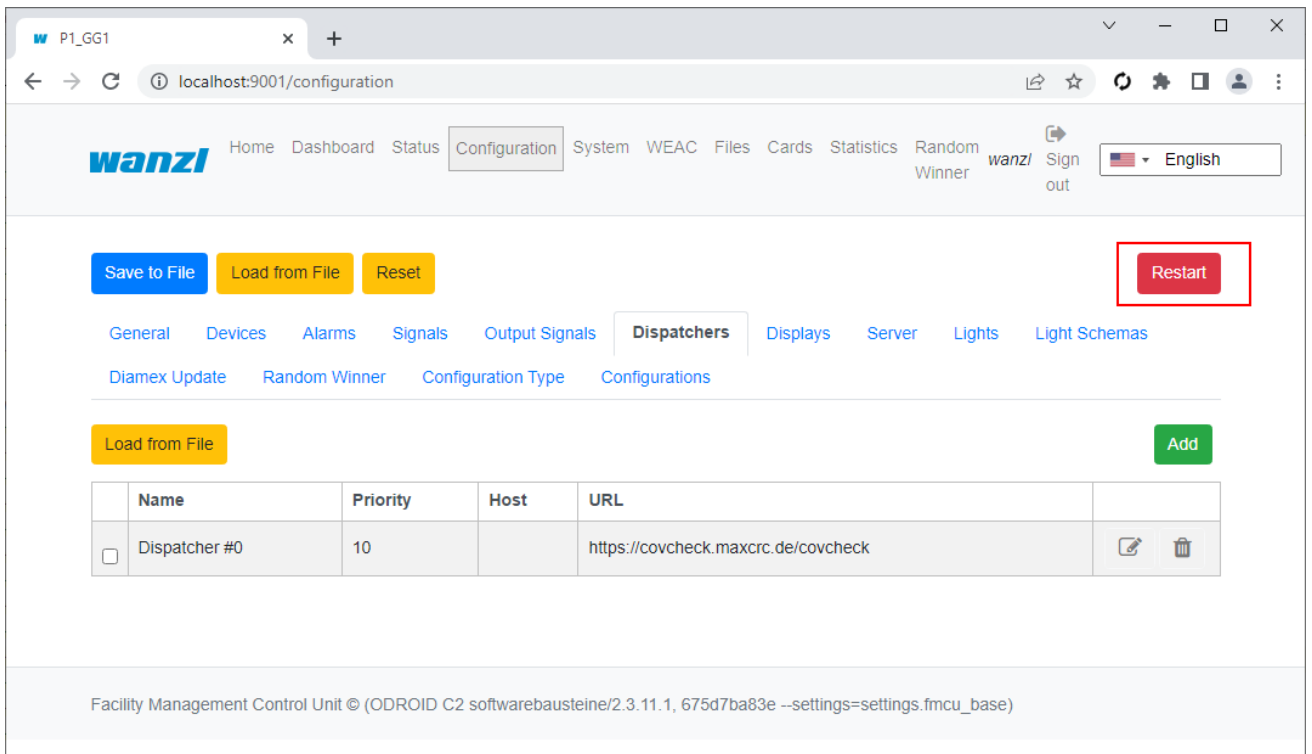
No SSL certificate validation

Save Cancel

↑

Restart the gate:

Covcheck





Save to File Load from File Reset Restart

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

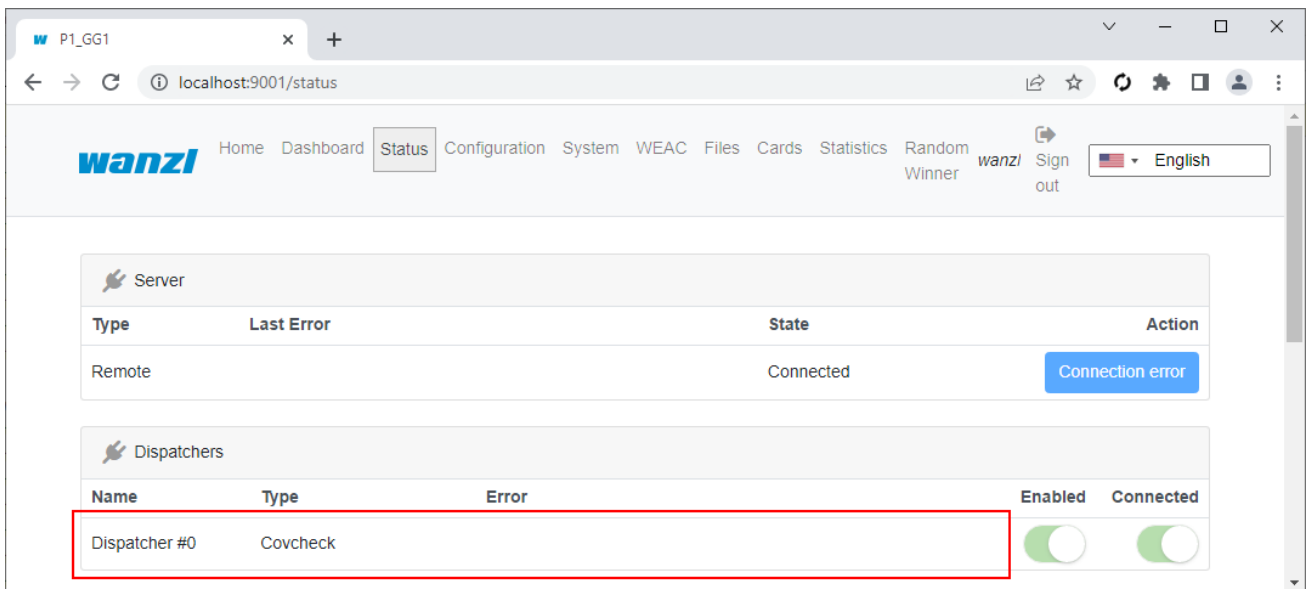
Diamex Update Random Winner Configuration Type Configurations

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

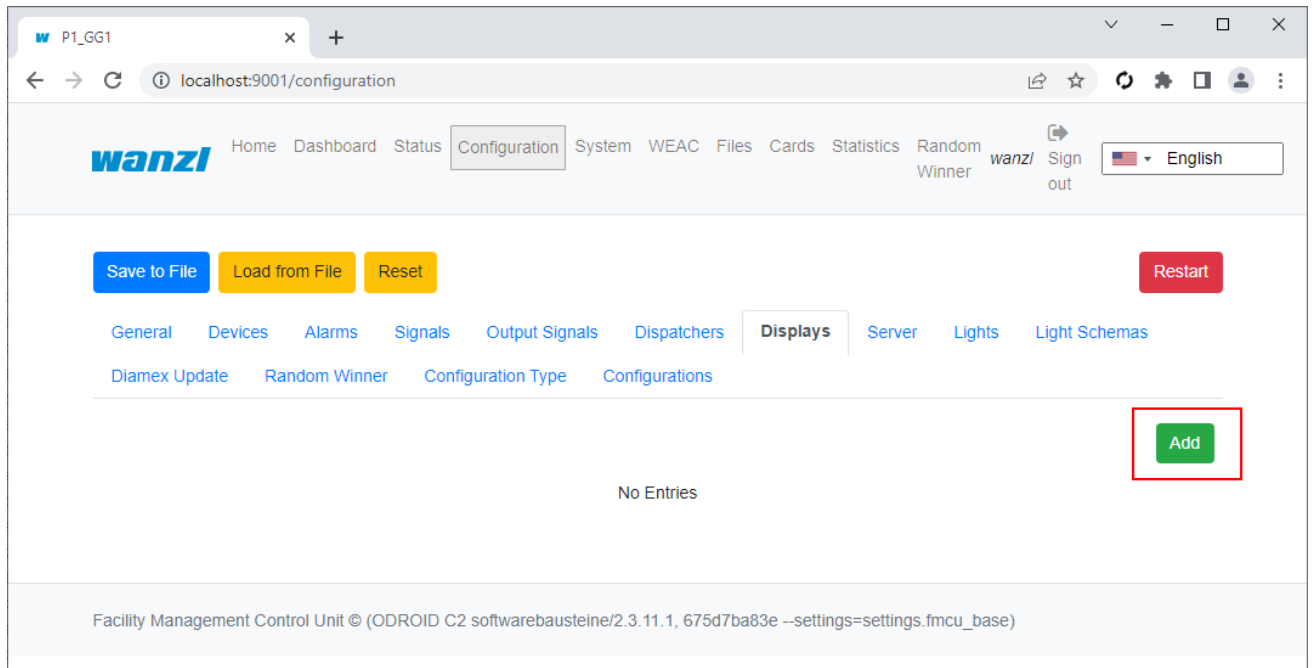
Type	Last Error	State	Action
Remote		Connected	Connection error

Dispatchers

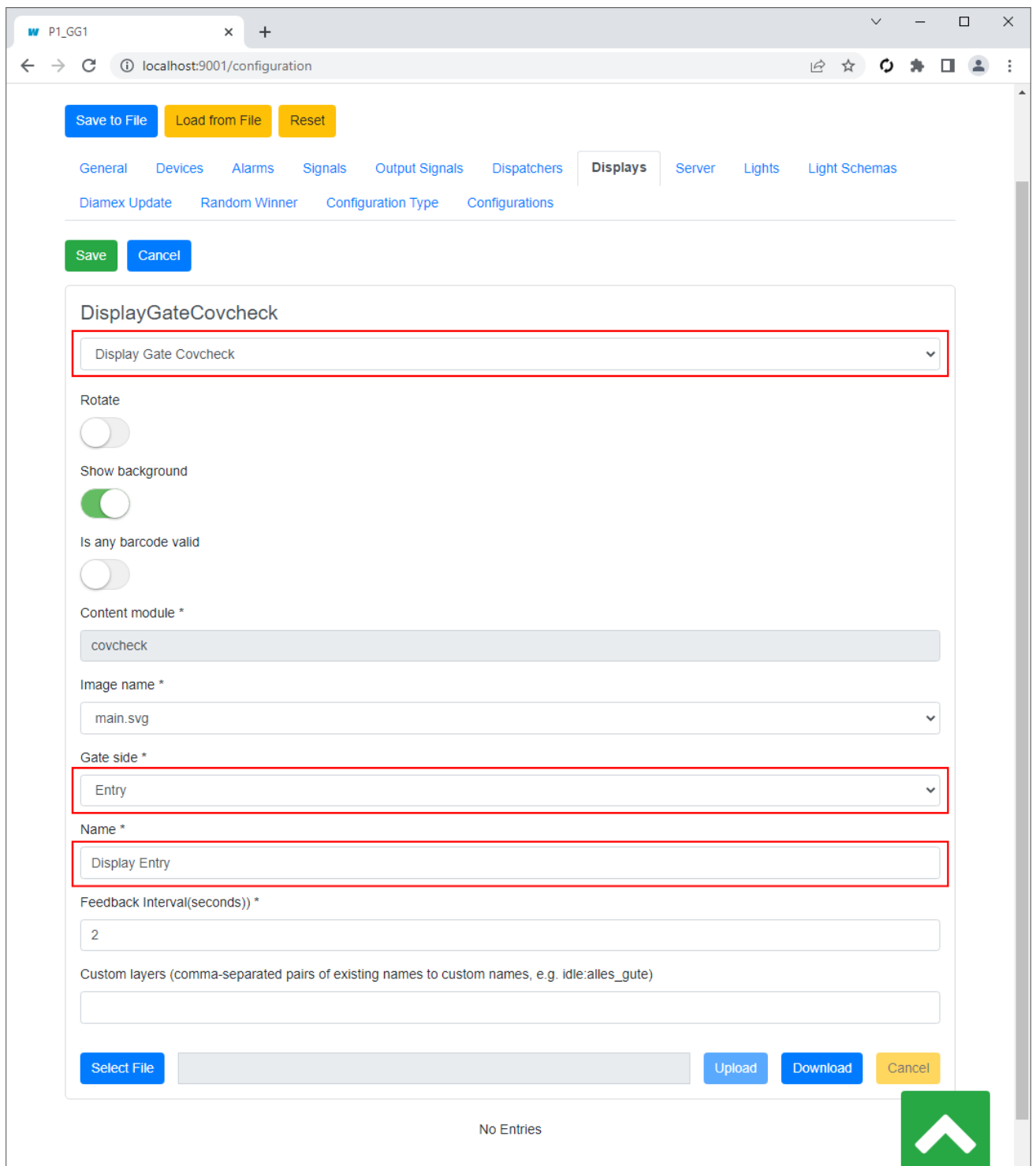
Name	Type	Error	Enabled	Connected
Dispatcher #0	Covcheck		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Display

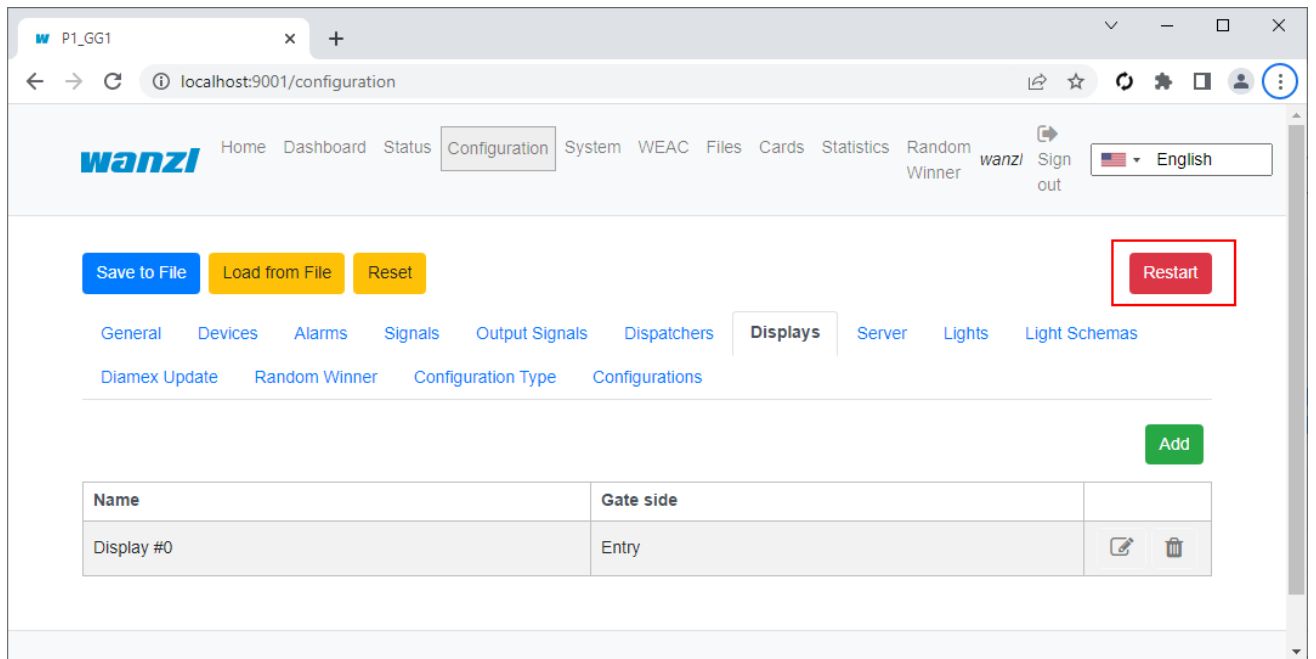
Open the URL of the gate, login with the user **wanzl** and navigate to the **Configuration** page. Select tab **Displays** and click **Add**:



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, which also includes `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 displays `No Entries` and a green `Add` button, which is highlighted with a red rectangle. 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 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 of the configuration area are buttons for 'Save to File', 'Load from File', and 'Reset'. Below that are 'Save' and 'Cancel' buttons. The main configuration section 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' 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 of the configuration area are 'Select File', 'Upload', 'Download', and 'Cancel' buttons. Below the configuration area, it says 'No Entries' and there is a green arrow button pointing up.

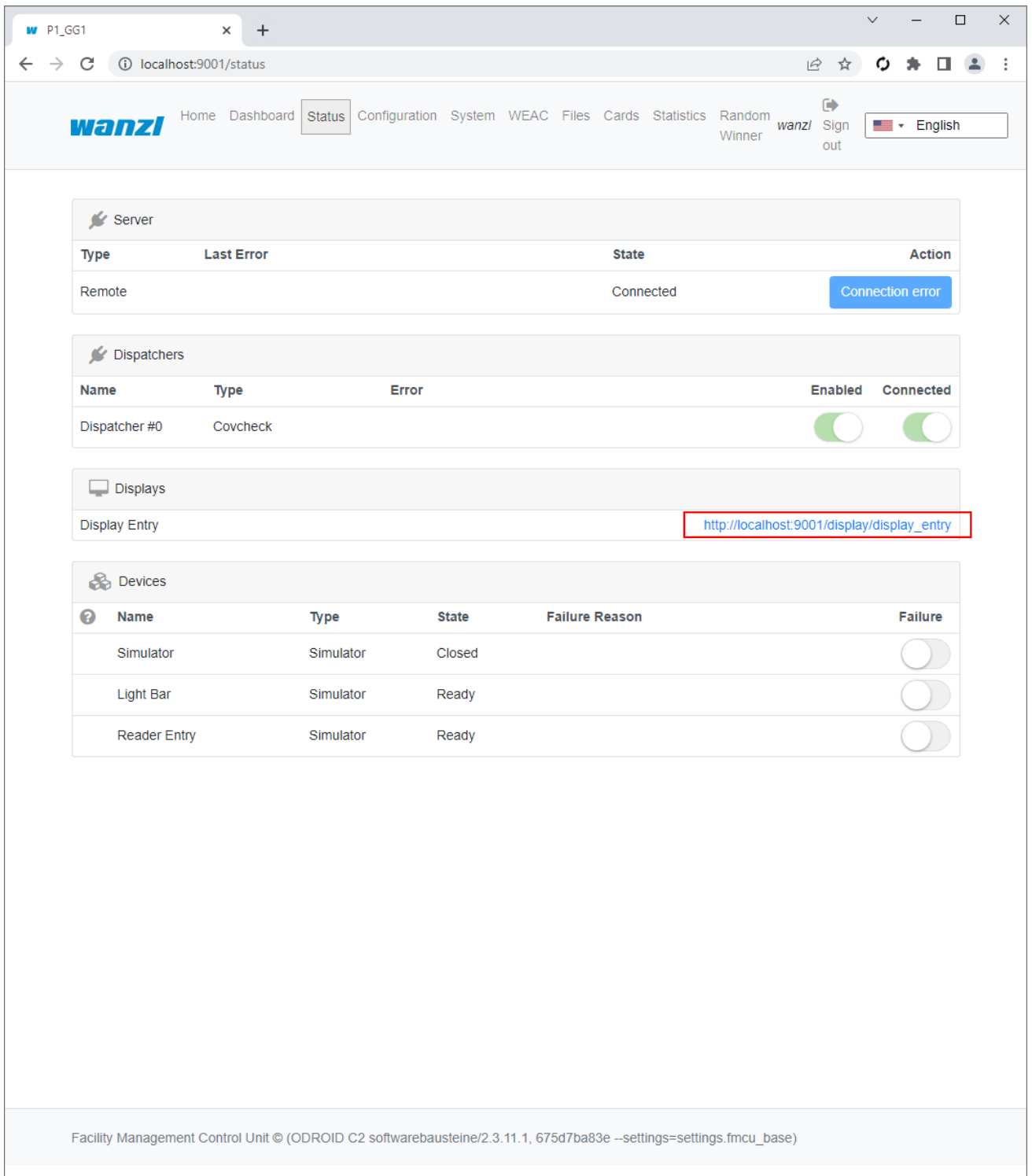


The screenshot shows a web browser window with the URL `localhost:9001/configuration`. The page title is `P1_GG1`. The navigation menu includes `Home`, `Dashboard`, `Status`, `Configuration` (selected), `System`, `WEAC`, `Files`, `Cards`, `Statistics`, `Random Winner`, `wanzi`, and `Sign out`. There is also a language dropdown set to `English`.

At the top of the configuration area, there are buttons for `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`, `Displays` (selected), `Server`, `Lights`, and `Light Schemas`. There are also links for `Diamex Update`, `Random Winner`, `Configuration Type`, and `Configurations`.

A green `Add` button is located to the right of the table. The table has two columns: `Name` and `Gate side`. It contains one row with `Display #0` and `Entry`. There are edit and delete icons in the rightmost column of the row.

Name	Gate side	
Display #0	Entry	 



The screenshot shows the WANZI web interface for a P1_GG1 unit. The browser address bar shows localhost:9001/status. The navigation menu includes Home, Dashboard, Status (selected), Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The interface is in English.

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"/>

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The screenshot shows a web browser window with the address bar containing '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.

