

# 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

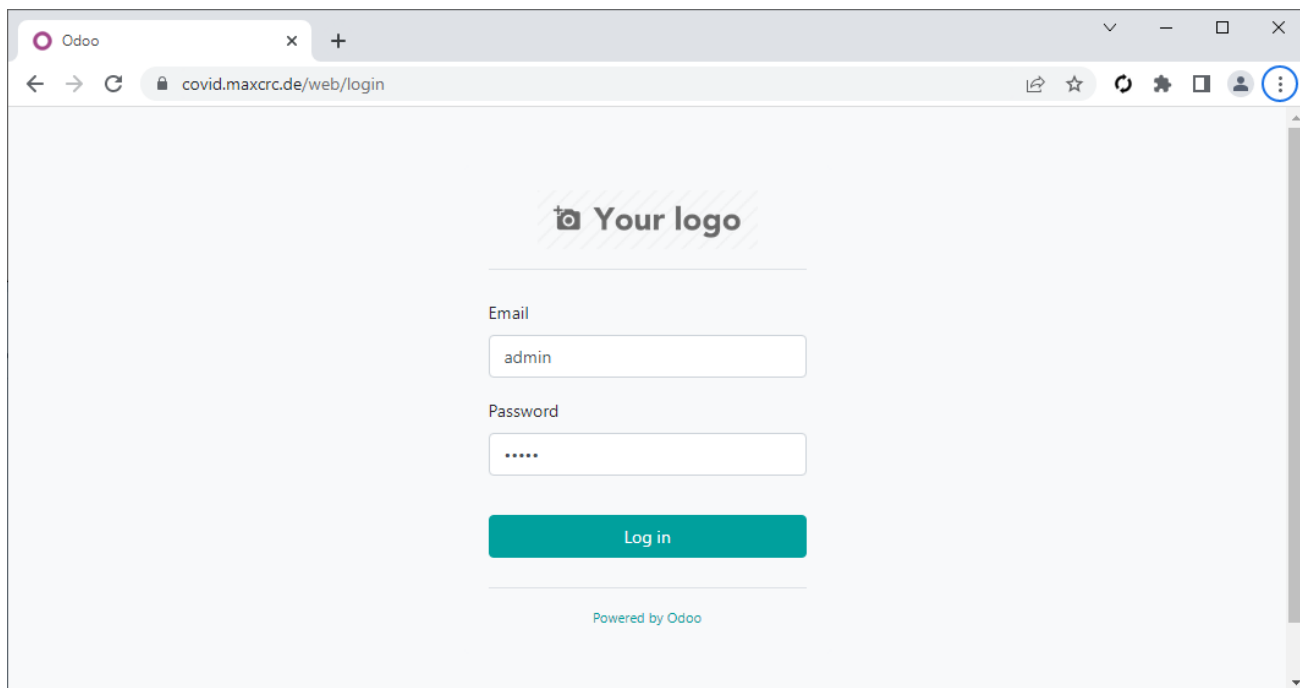
---

### Change Default Password

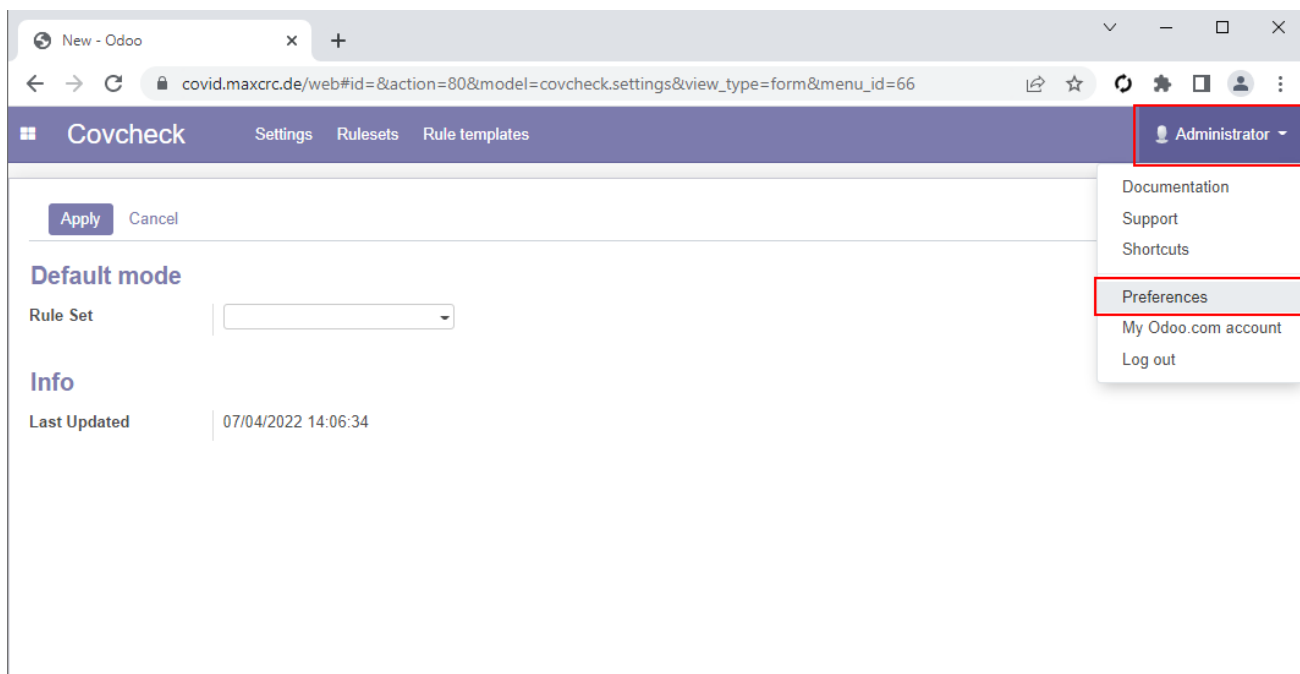
---

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

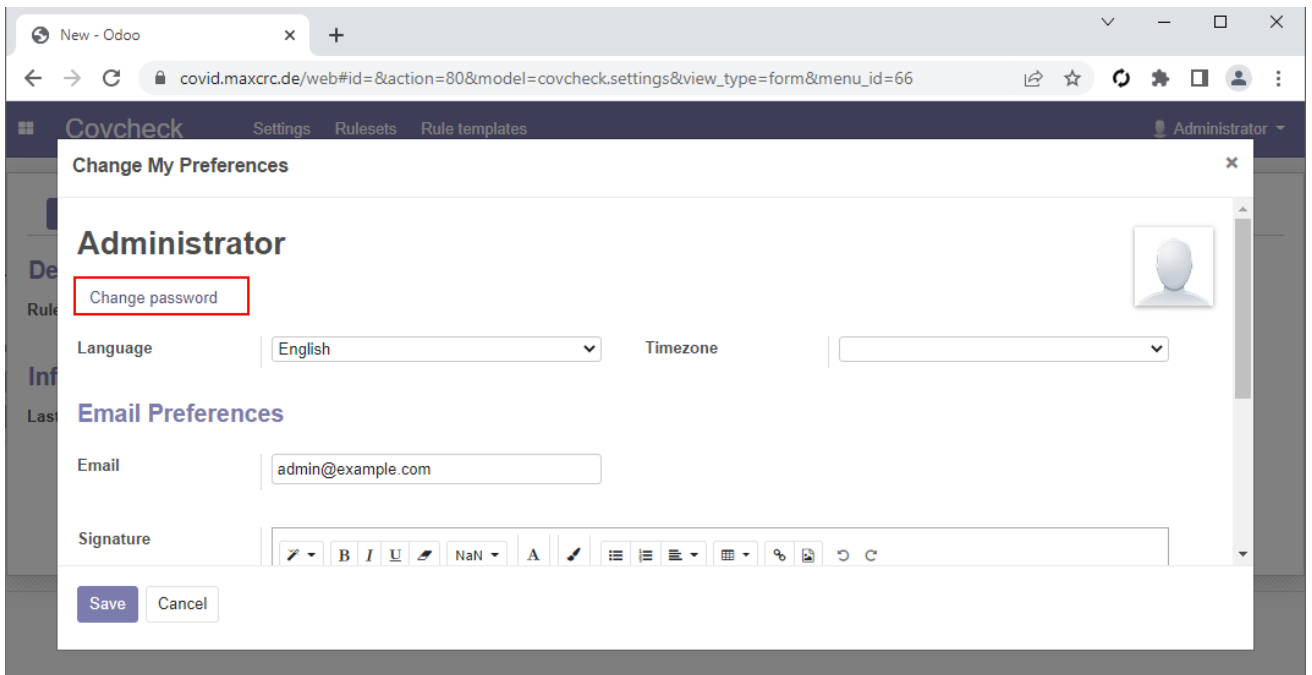
Username	Password
admin	admin



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

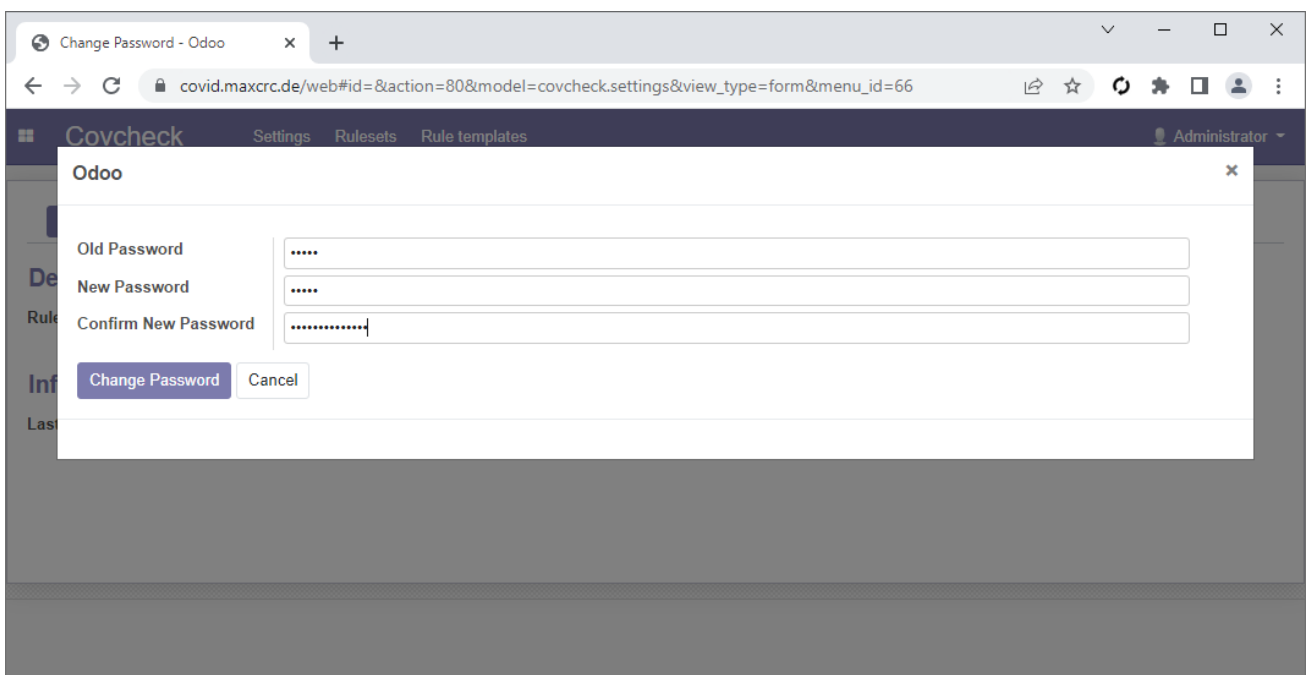


In the opened window click **Change password**:



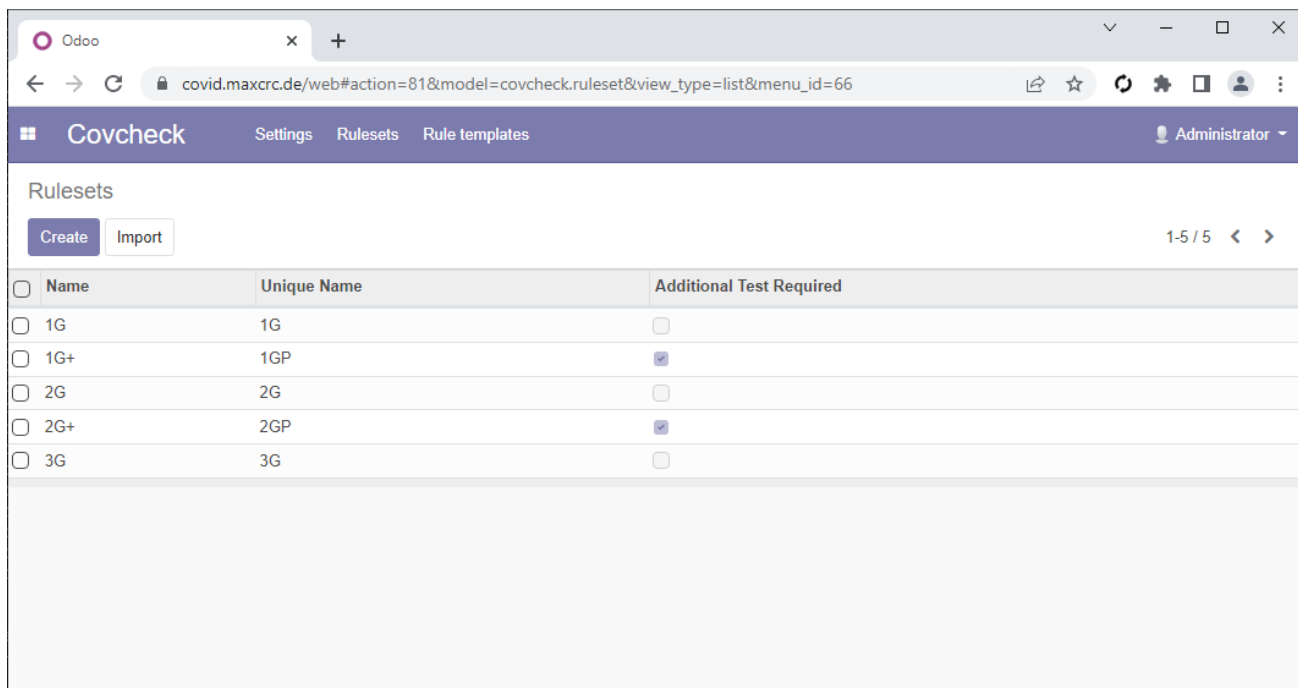
Fill-in the following fields and then click **Change Password**:

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



## Managing Rulesets

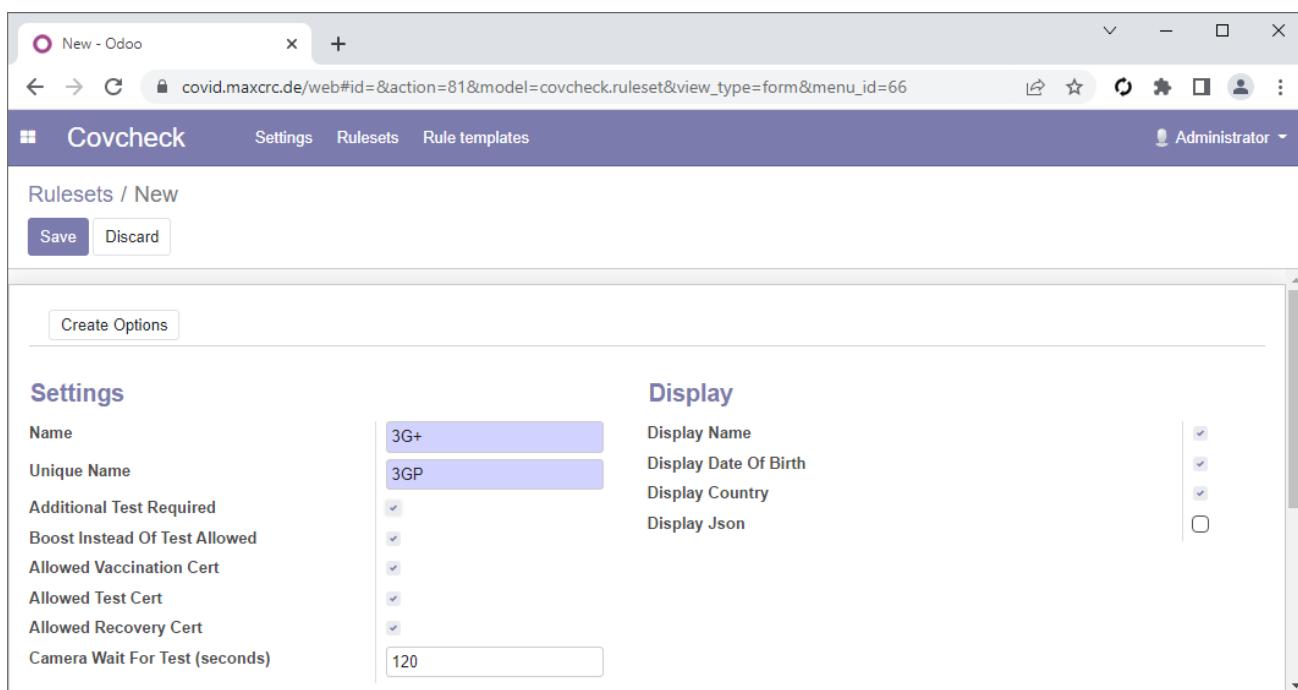
You can add, modify and delete rulesets on the **Rulesets** page:



The screenshot shows the 'Rulesets' page in the Covcheck application. The page has a navigation bar with 'Settings', 'Rulesets', and 'Rule templates'. The 'Rulesets' page includes 'Create' and 'Import' buttons and a table listing existing rulesets. The table has columns for 'Name', 'Unique Name', and 'Additional Test Required'.

<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"/>

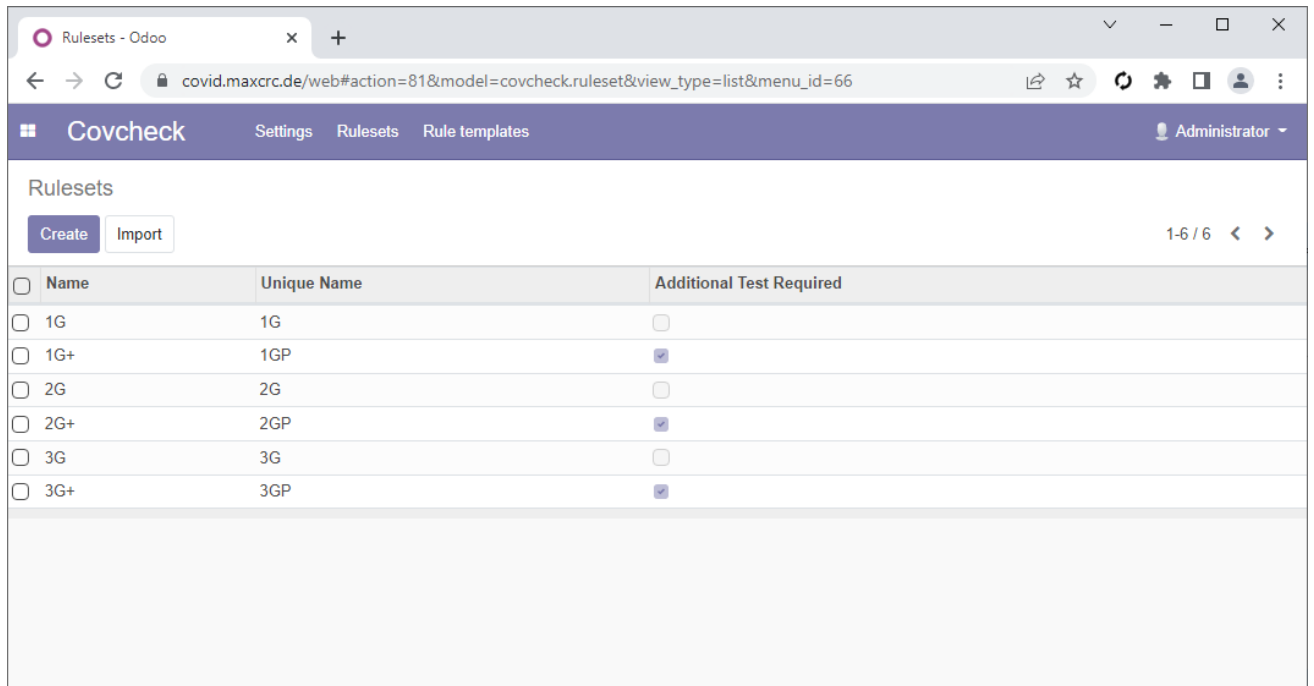
For example, let us create a ruleset **3G+**, which requires an additional test. Click **Create** fill-in the fields **Name** and **Unique Name**, check **Additional Test Required** and click **Save**:



The screenshot shows the 'Rulesets / New' form in the Covcheck application. The form has 'Save' and 'Discard' buttons. It is divided into 'Settings' and 'Display' sections. The 'Settings' section includes fields for Name, Unique Name, and several checkboxes for test requirements. The 'Display' section includes checkboxes for 'Display Name', 'Display Date Of Birth', 'Display Country', and 'Display Json'.

Settings	Display
Name: 3G+	Display Name: <input checked="" type="checkbox"/>
Unique Name: 3GP	Display Date Of Birth: <input checked="" type="checkbox"/>
Additional Test Required: <input checked="" type="checkbox"/>	Display Country: <input checked="" type="checkbox"/>
Boost Instead Of Test Allowed: <input checked="" type="checkbox"/>	Display Json: <input type="checkbox"/>
Allowed Vaccination Cert: <input checked="" type="checkbox"/>	
Allowed Test Cert: <input checked="" type="checkbox"/>	
Allowed Recovery Cert: <input checked="" type="checkbox"/>	
Camera Wait For Test (seconds): 120	

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



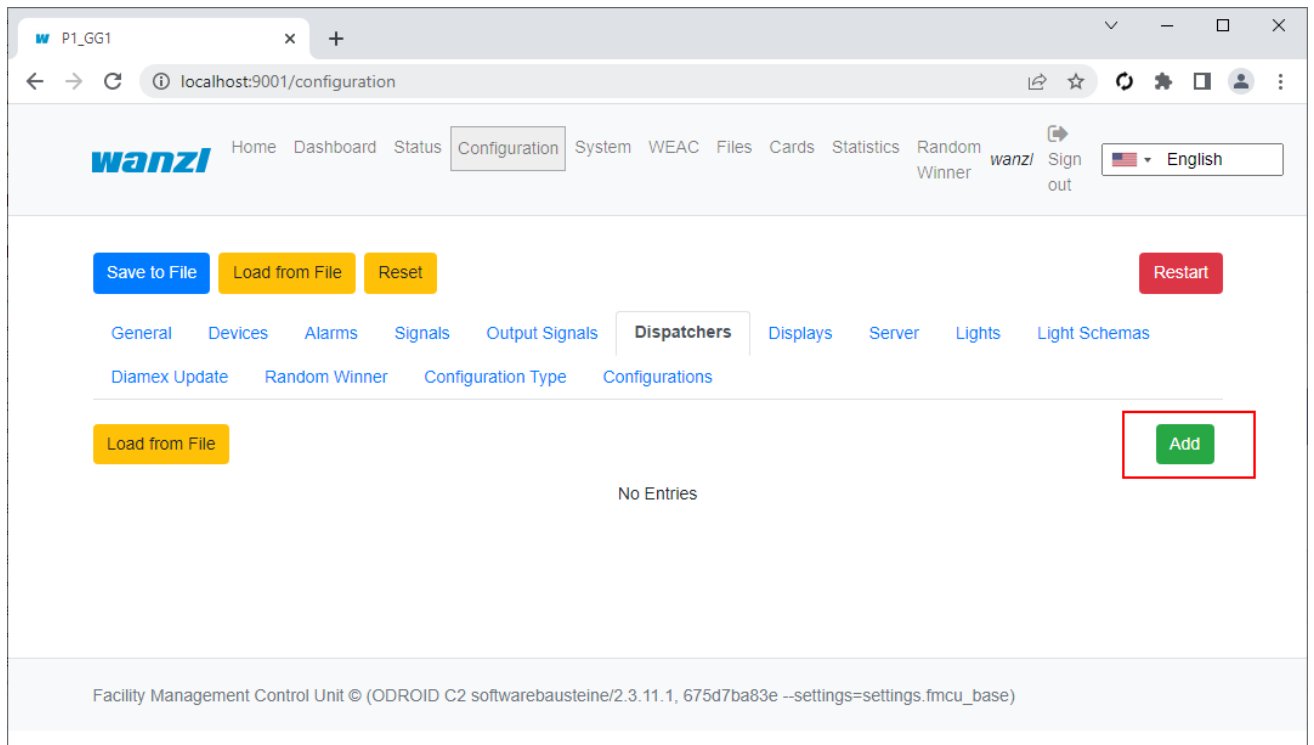
<input type="checkbox"/>	Name	Unique Name	Additional Test Required
<input type="checkbox"/>	1G	1G	<input type="checkbox"/>
<input type="checkbox"/>	1G+	1GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2G	2G	<input type="checkbox"/>
<input type="checkbox"/>	2G+	2GP	<input checked="" type="checkbox"/>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



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

**URL**

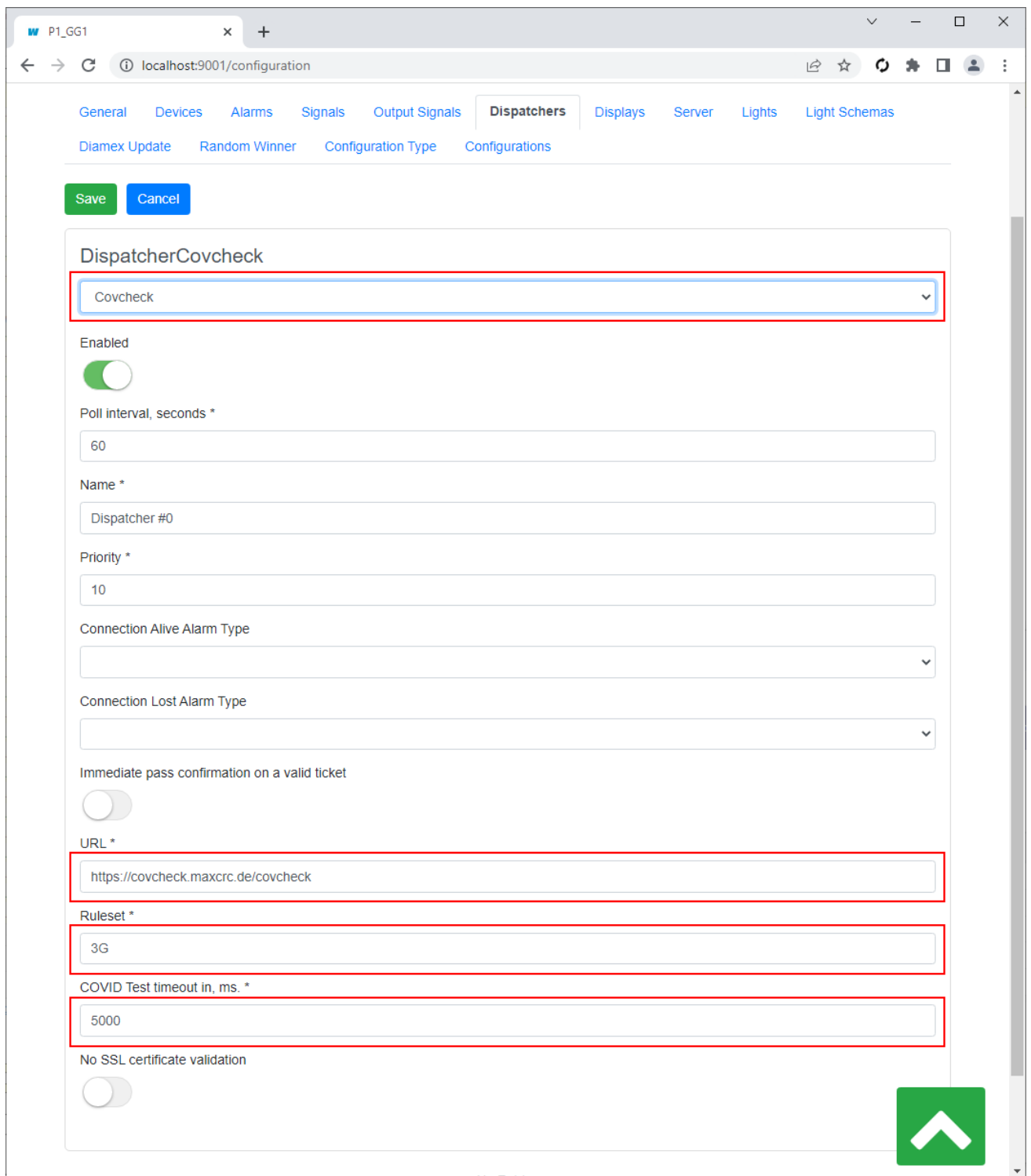
Base URL of Covcheck's API

**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

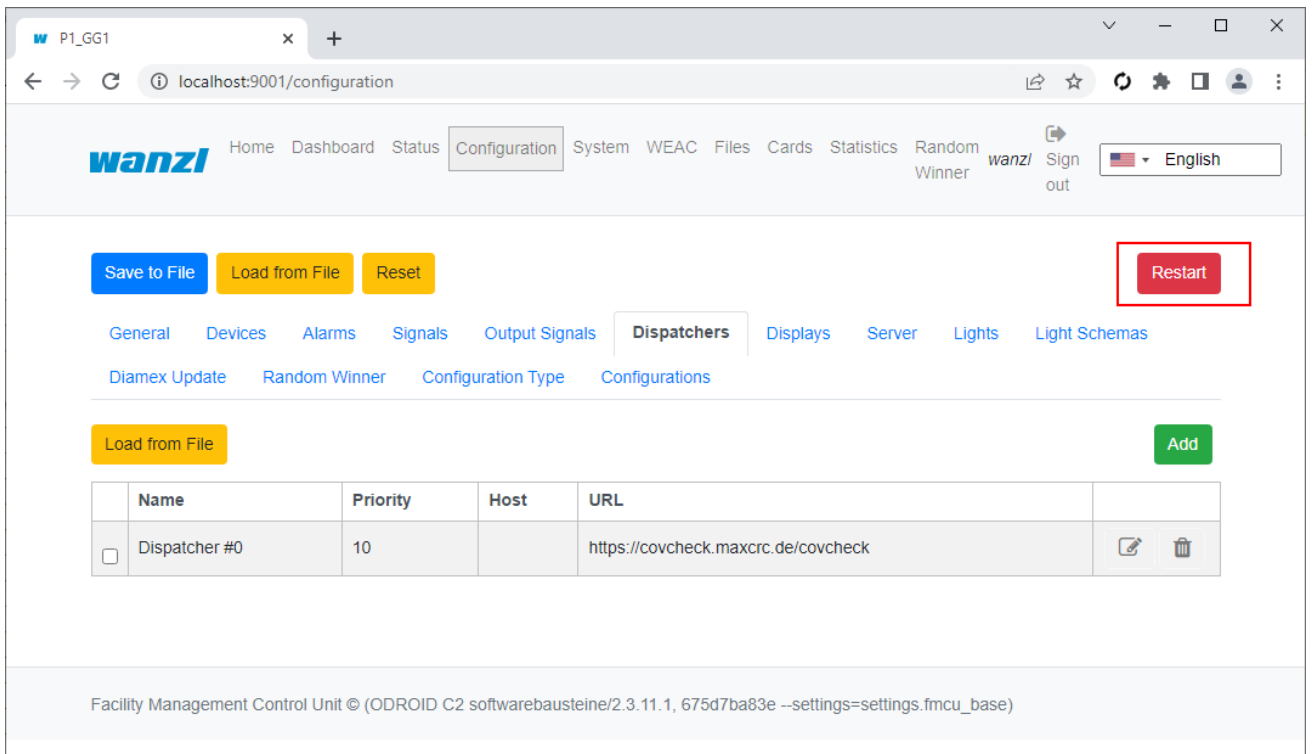
Ruleset \*  
3G

COVID Test timeout in, ms. \*  
5000

No SSL certificate validation

Restart the gate:

## Covcheck





Save to File Load from File Reset Restart

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

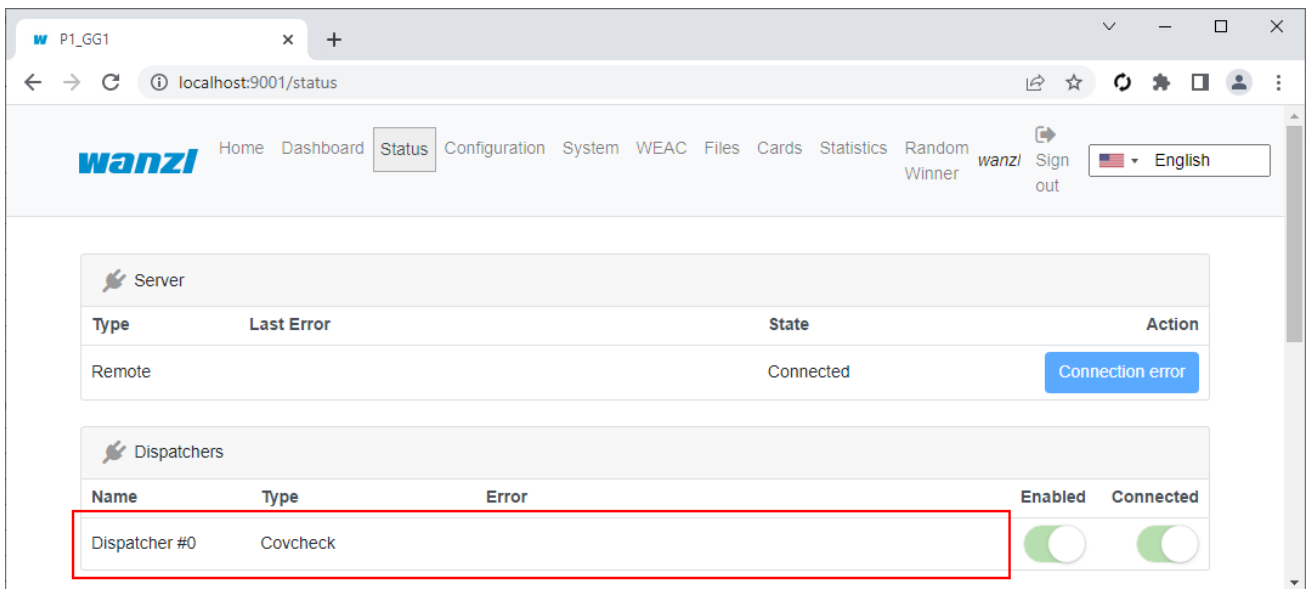
Diamex Update Random Winner Configuration Type Configurations

Load from File Add

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

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If the Covcheck server is available, the **Error** field is empty:



Server

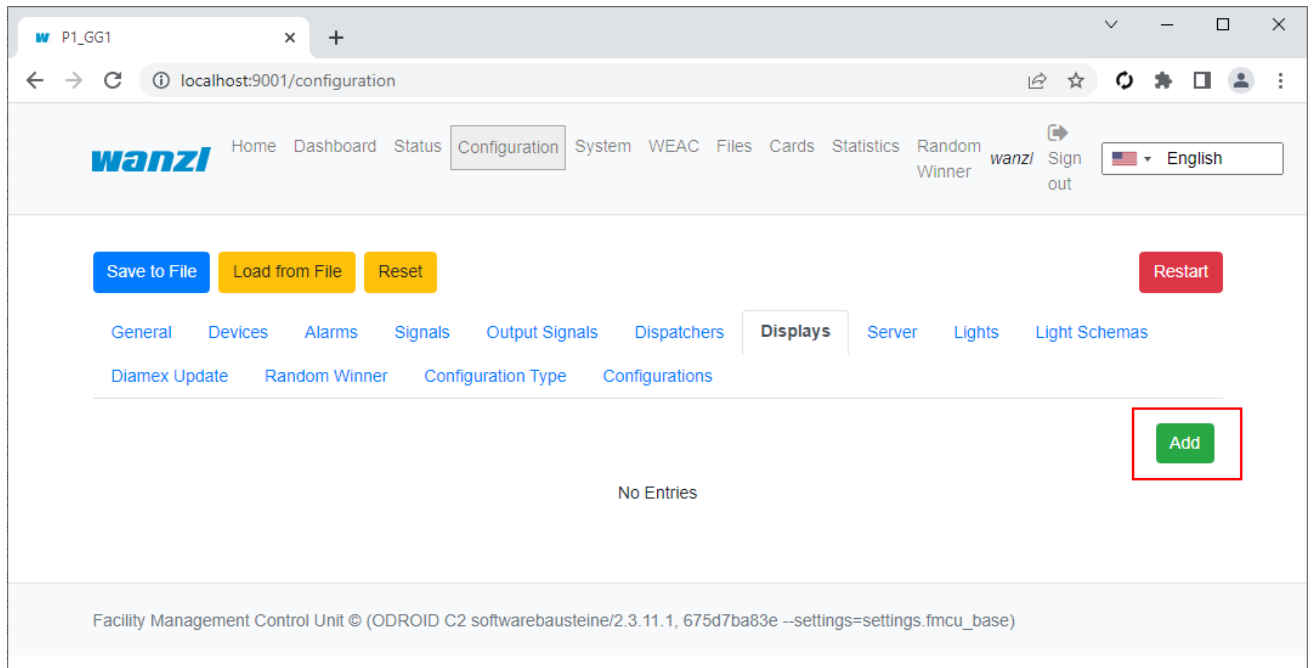
Type	Last Error	State	Action
Remote		Connected	Connection error

Dispatchers

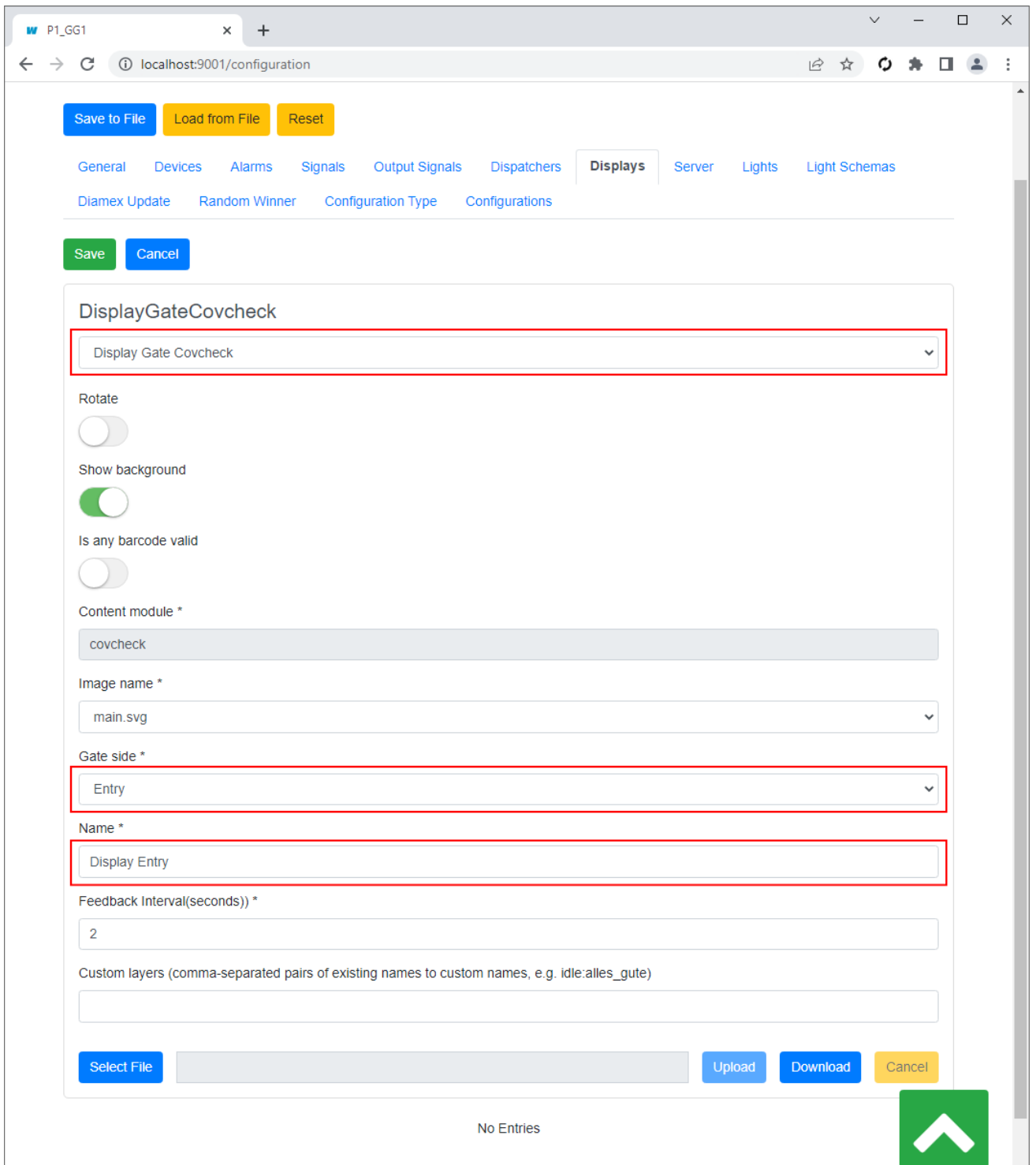
Name	Type	Error	Enabled	Connected
Dispatcher #0	Covcheck		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Display

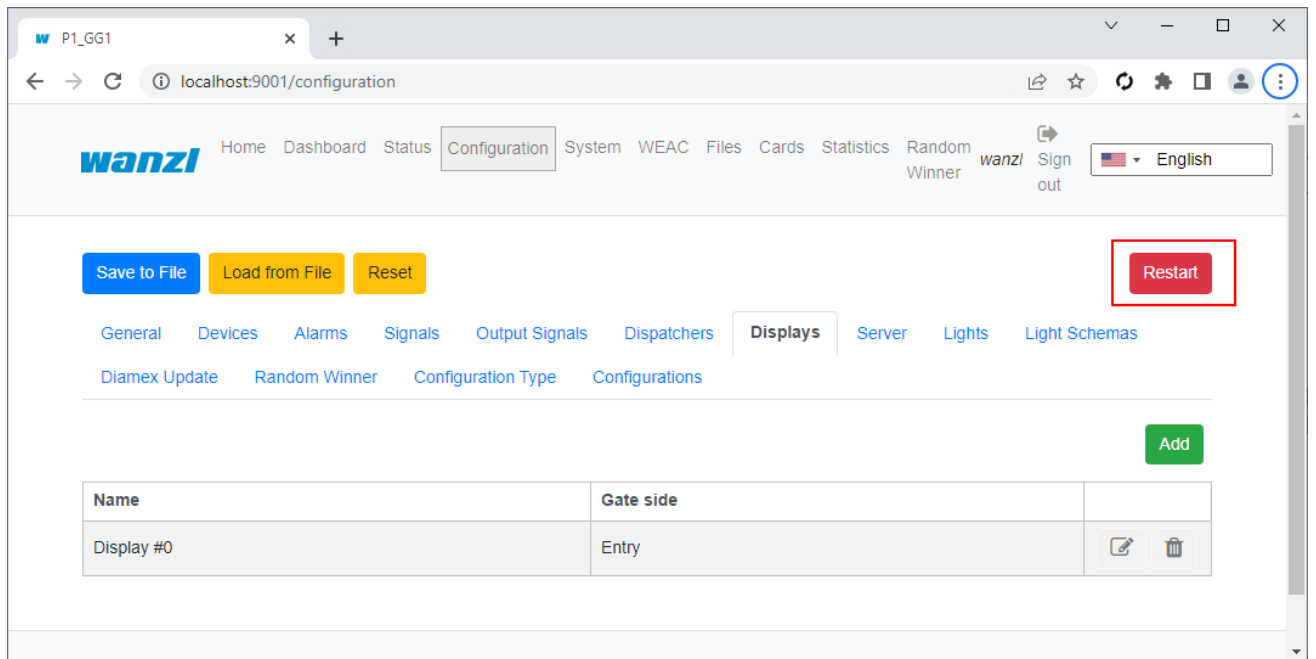
Open the URL of the gate, login with the user **wanzl** and navigate to the **Configuration** page. Select tab **Displays** and click **Add**:





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 box. At the bottom, the footer text reads: `Facility Management Control Unit © (ODROID C2 softwarebausteine/2.3.11.1, 675d7ba83e --settings=settings.fmcu_base)`.



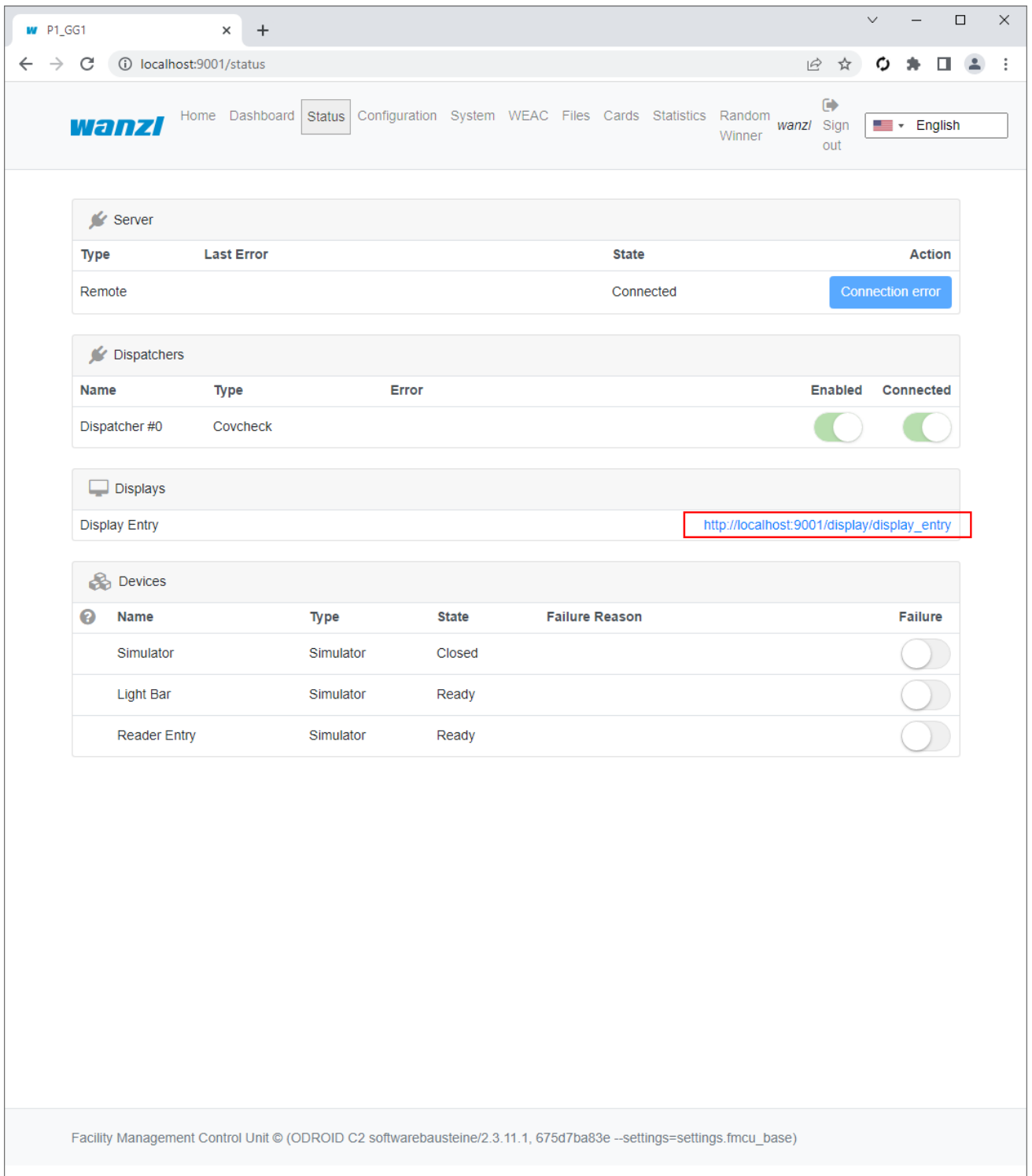
The screenshot shows a web browser window at localhost:9001/configuration. The interface includes navigation tabs for General, Devices, Alarms, Signals, Output Signals, Dispatchers, **Displays**, Server, Lights, and Light Schemas. Below these are sub-tabs for Diamex Update, Random Winner, Configuration Type, and Configurations. Action buttons for 'Save to File', 'Load from File', and 'Reset' are at the top left. A 'Save' button and 'Cancel' button are below the navigation. 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, there are 'Select File', 'Upload', 'Download', and 'Cancel' buttons. A green arrow button is in the bottom right corner. The text 'No Entries' is centered at the bottom of the configuration area.



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, and Sign out. A language dropdown is set to English. Below the navigation, there are buttons for 'Save to File', 'Load from File', 'Reset', and 'Restart' (highlighted with a red box). The 'Displays' tab is active, showing a table with one entry:

Name	Gate side	
Display #0	Entry	 

An 'Add' button is located to the right of the table.



**wanzi** Home Dashboard **Status** Configuration System WEAC Files Cards Statistics Random Winner Sign out

English

### Server

Type	Last Error	State	Action
Remote		Connected	<a href="#">Connection error</a>

### Dispatchers

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

### Displays

Display Entry	Link
	<a href="http://localhost:9001/display/display_entry">http://localhost:9001/display/display_entry</a>

### 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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