

Covcheck

Inhaltsverzeichnis

1 Introduction	1
2 Installation of Covcheck Application Server	1
2.1 Prerequisites	1
2.2 Installation Steps	1
2.3 Installation Files	3
3 Configuration of Covcheck Application Server	3
3.1 Change Default Password	3
3.2 Managing Rulesets	6
4 Configuration of Galaxy Gate	7
4.1 Dispatcher	7
4.2 Display	10

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

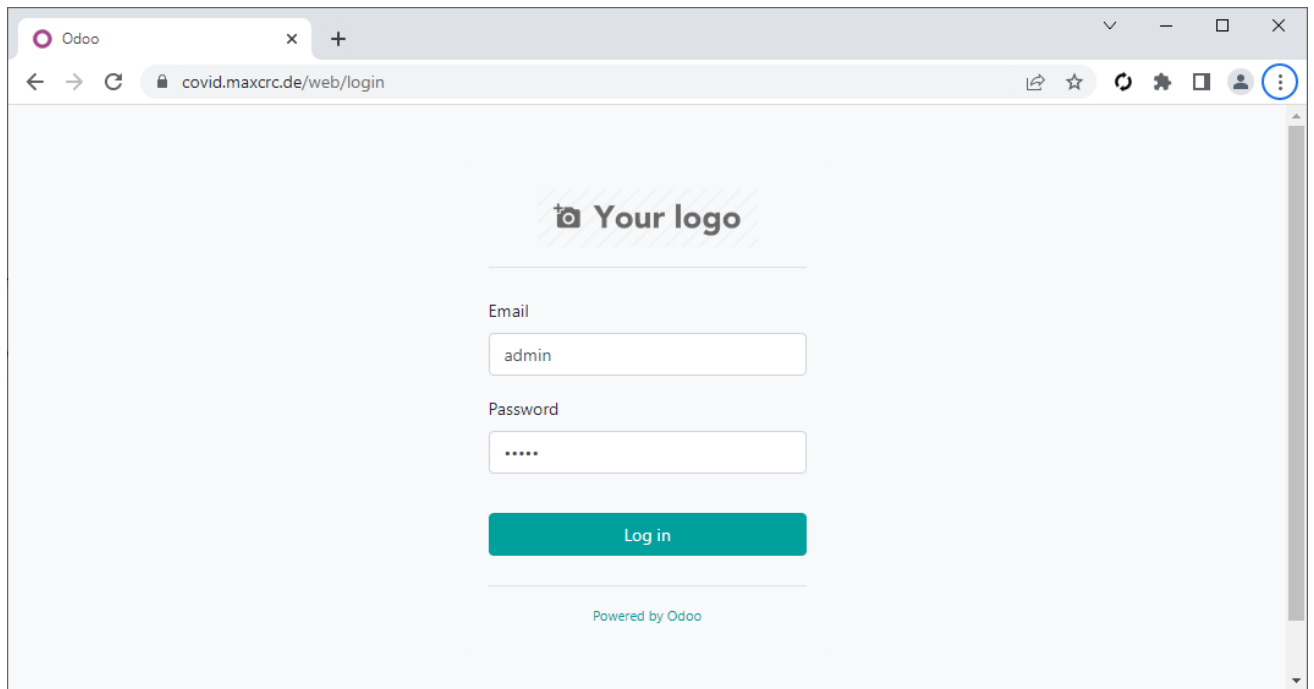
this file

Configuration of Covcheck Application Server

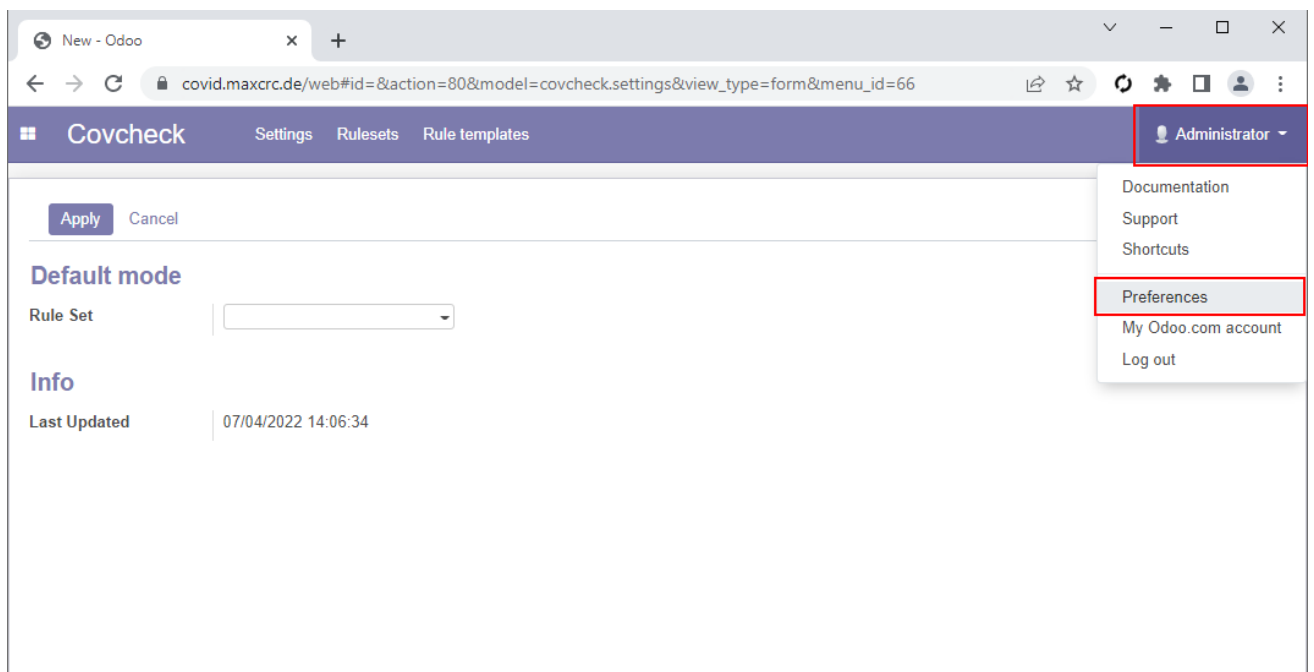
Change Default Password

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

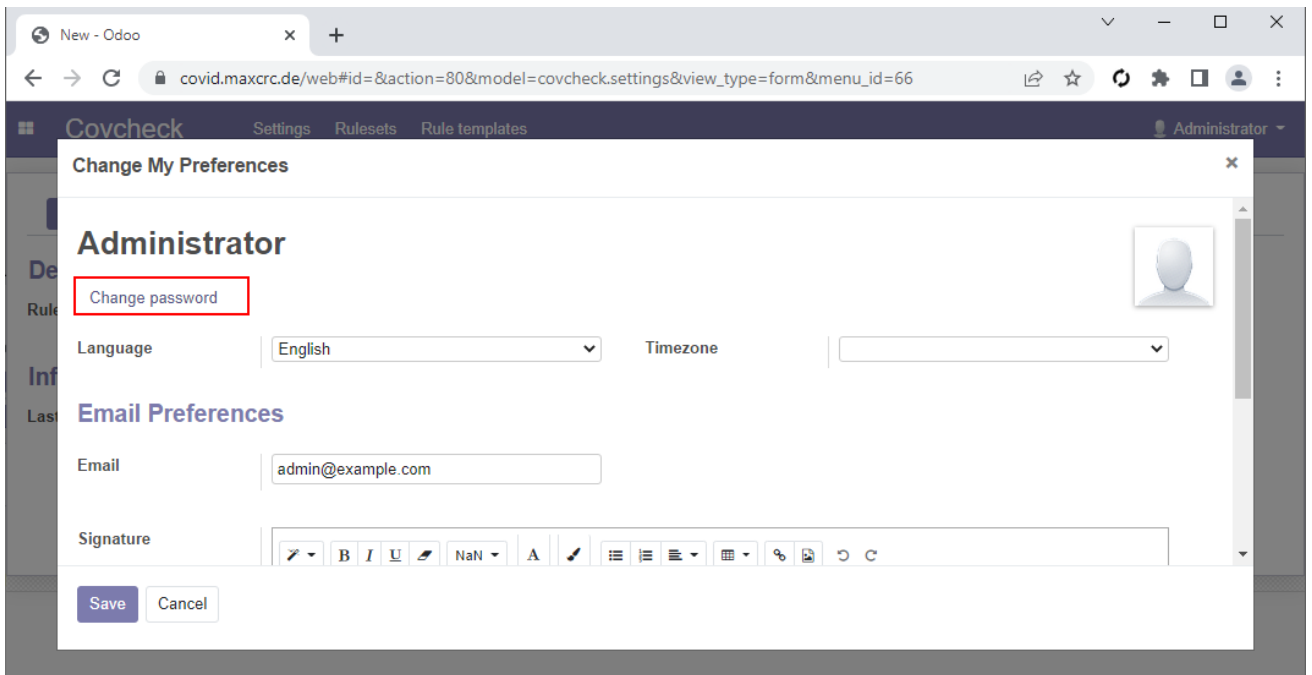
Username	Password
admin	admin



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

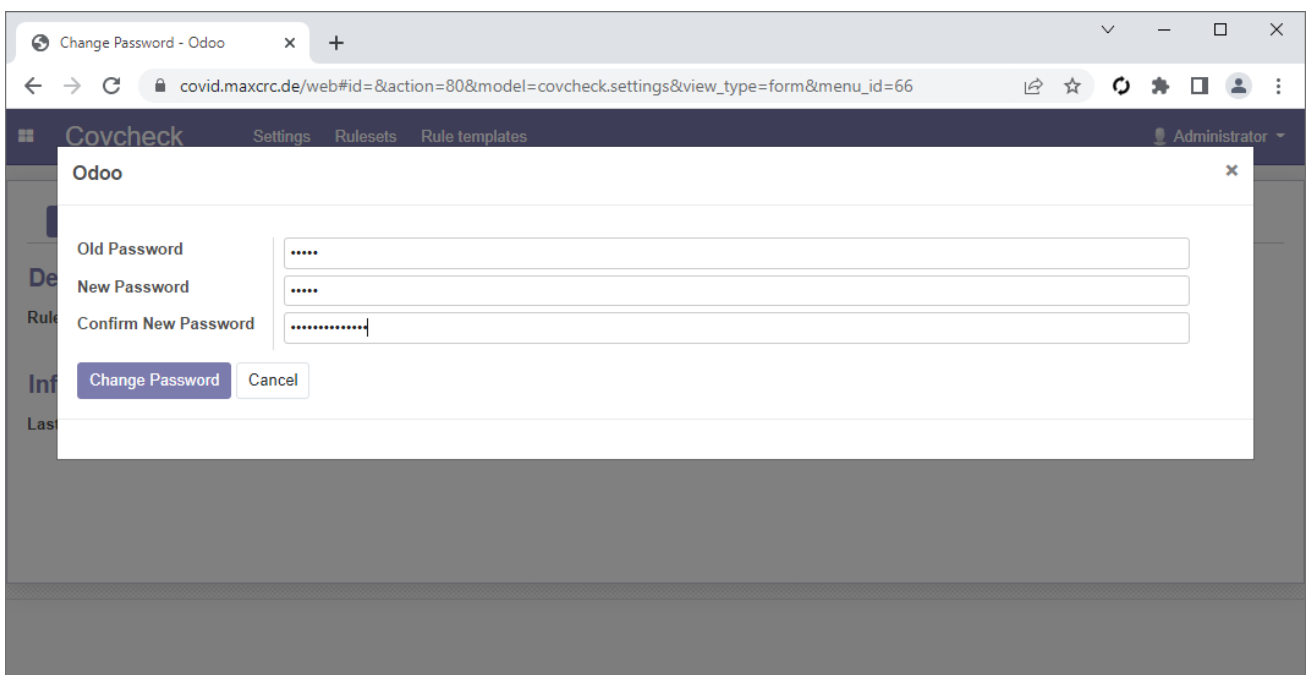


In the opened window click **Change password**:



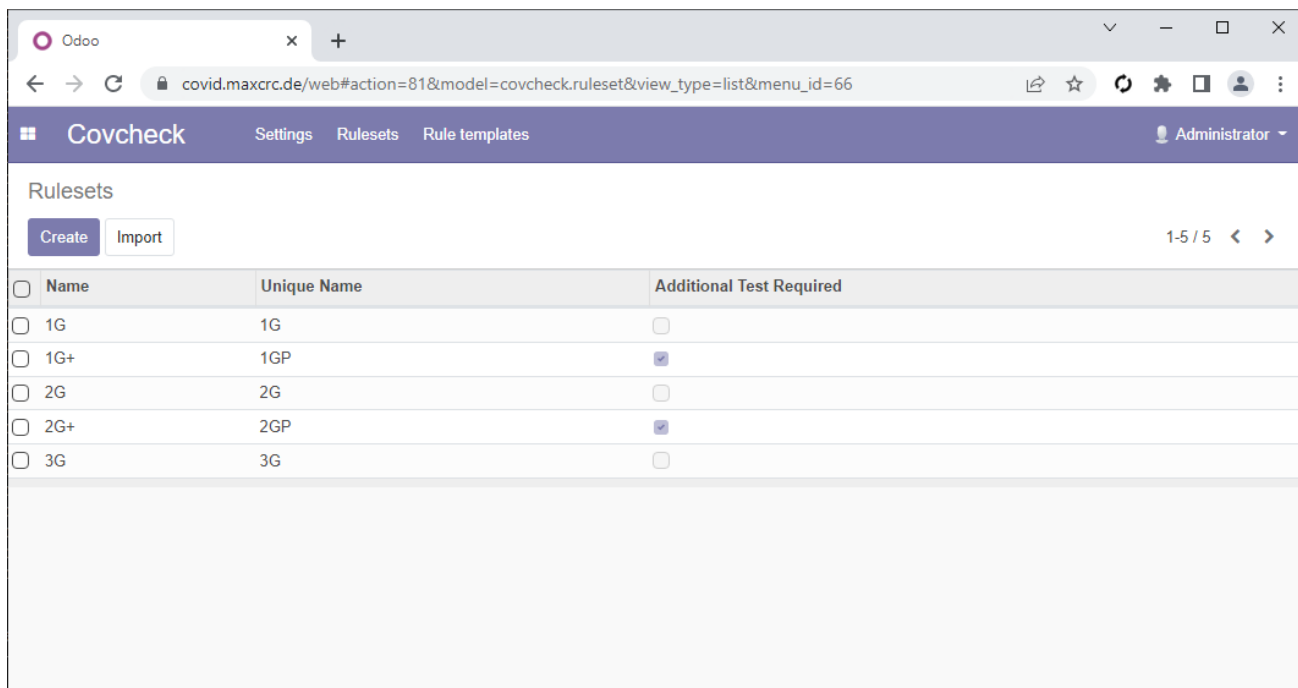
Fill-in the following fields and then click **Change Password**:

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



Managing Rulesets

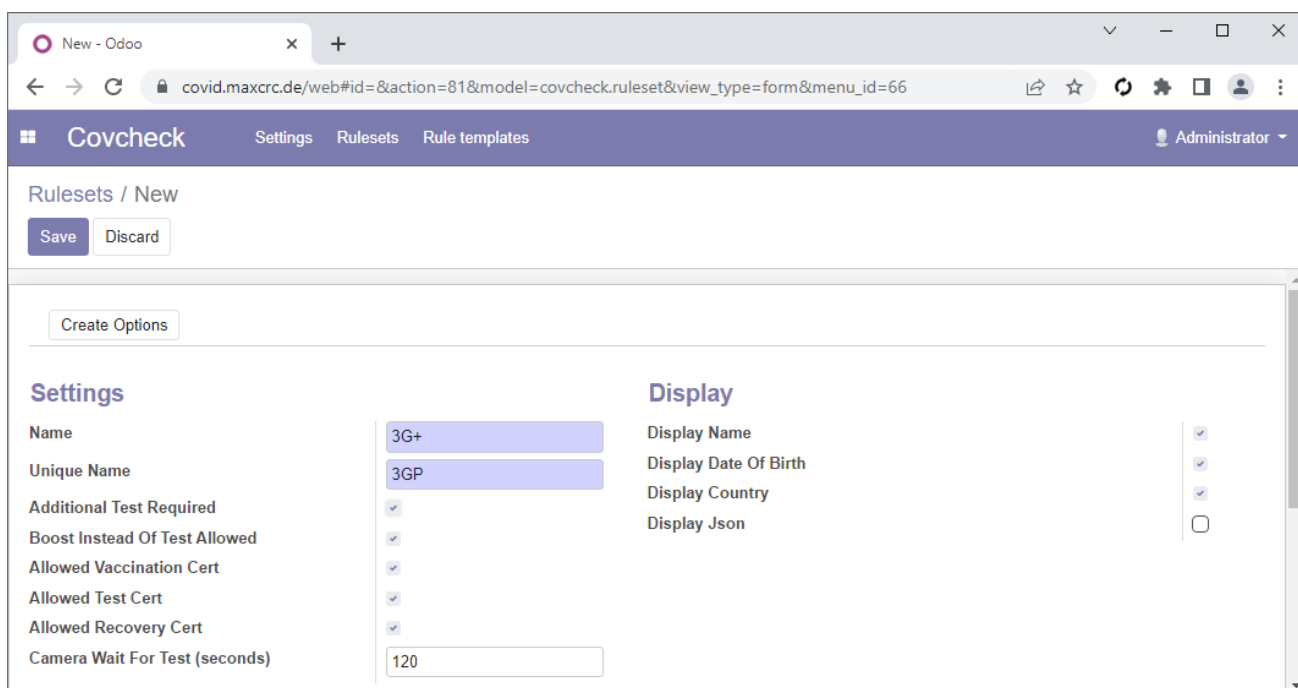
You can add, modify and delete rulesets on the **Rulesets** page:



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 two buttons: 'Create' and 'Import'. Below the buttons is a table with the following columns: 'Name', 'Unique Name', and 'Additional Test Required'. The table lists five rulesets:

<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**:



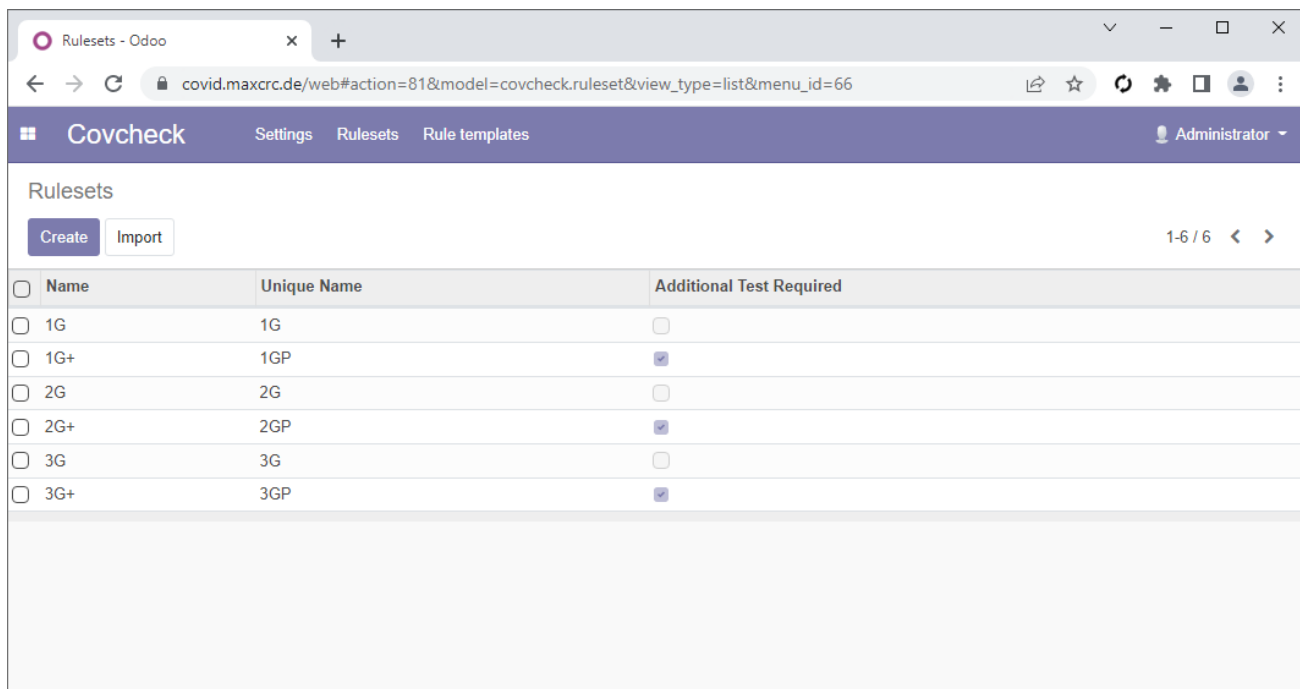
The screenshot shows the 'Rulesets / New' form in the Odoo application. The browser address bar shows the URL: covid.maxcrc.de/web#id=&action=81&model=covcheck.ruleset&view_type=form&menu_id=66. The page header includes 'Covcheck', 'Settings', 'Rulesets', and 'Rule templates', with the user 'Administrator' logged in. The 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'. The 'Settings' section has the following fields:

- 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

The 'Display' section has the following fields:

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

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



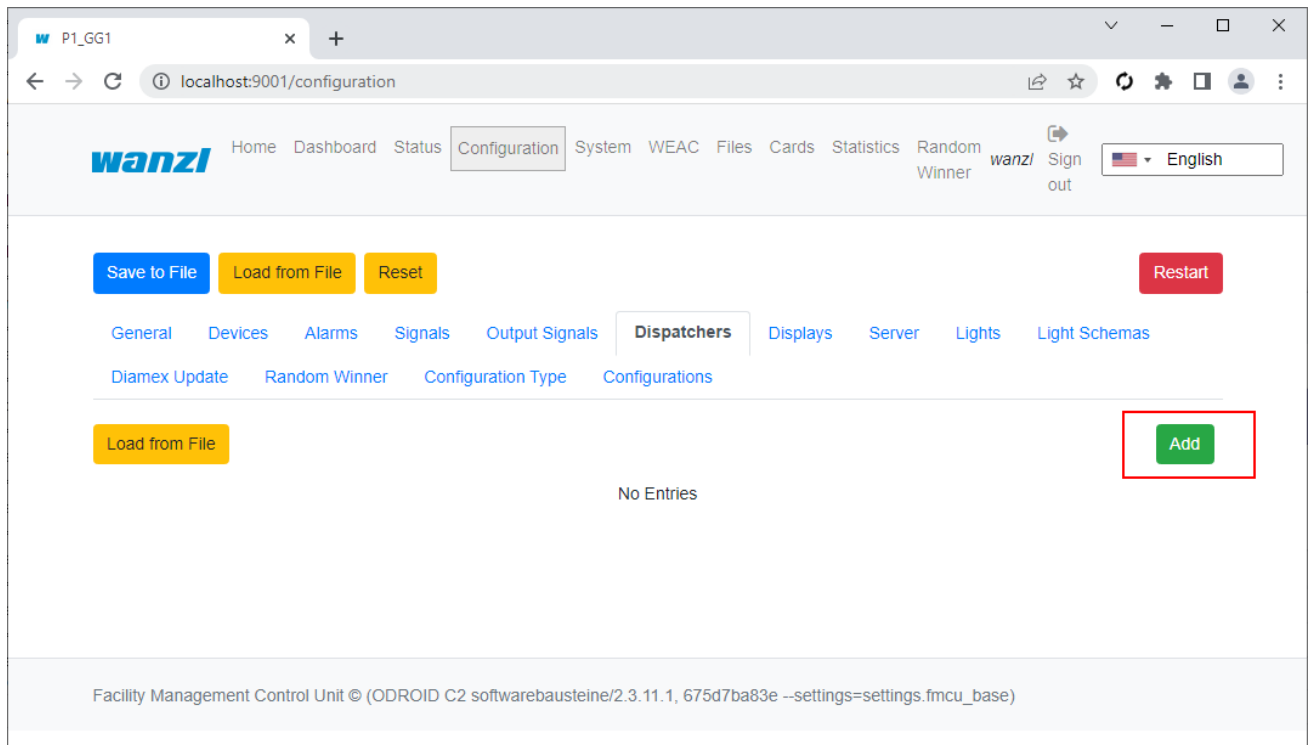
<input type="checkbox"/>	Name	Unique Name	Additional Test Required
<input type="checkbox"/>	1G	1G	<input type="checkbox"/>
<input type="checkbox"/>	1G+	1GP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2G	2G	<input type="checkbox"/>
<input type="checkbox"/>	2G+	2GP	<input checked="" type="checkbox"/>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

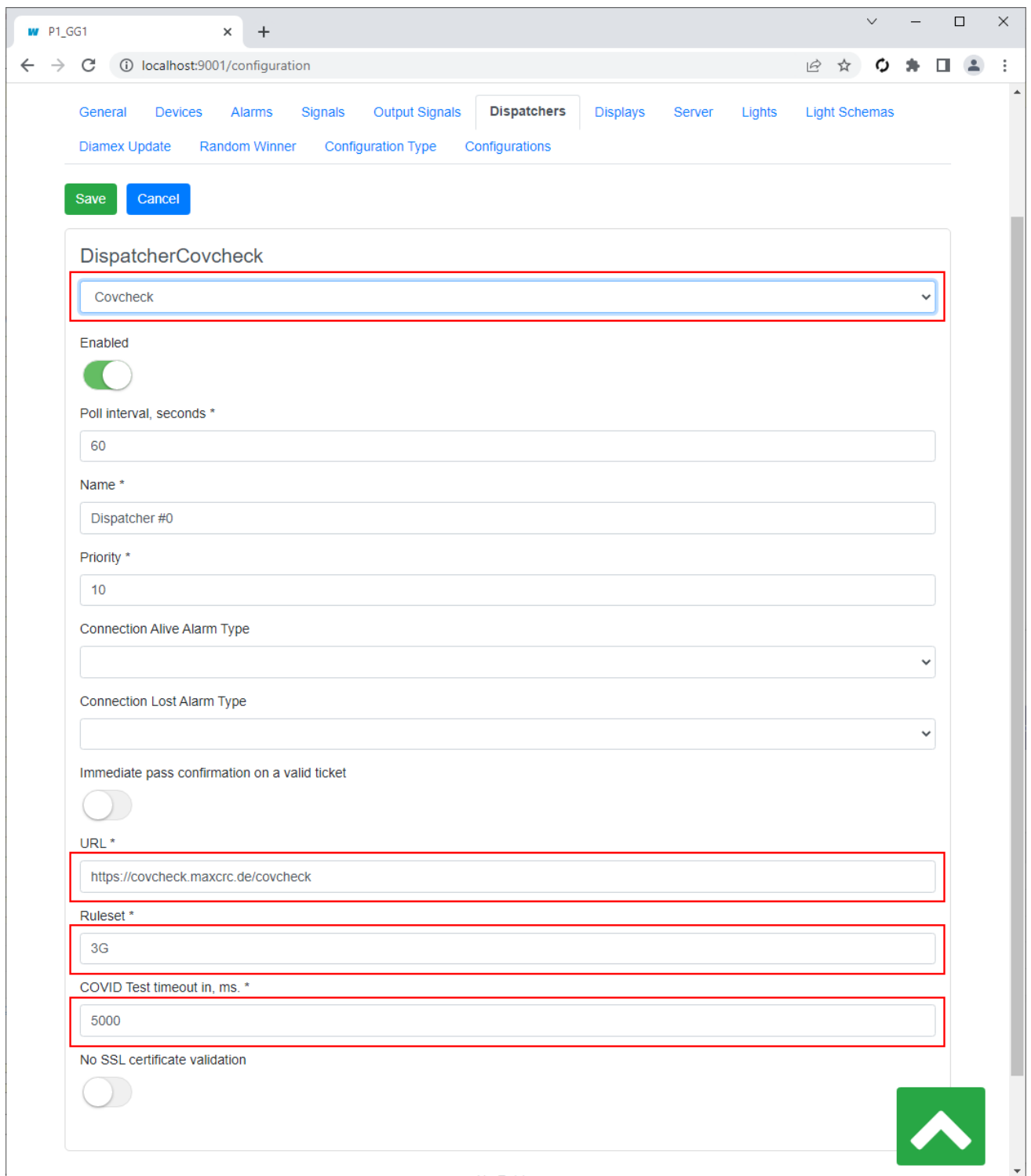
Base URL of Covcheck's API

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



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

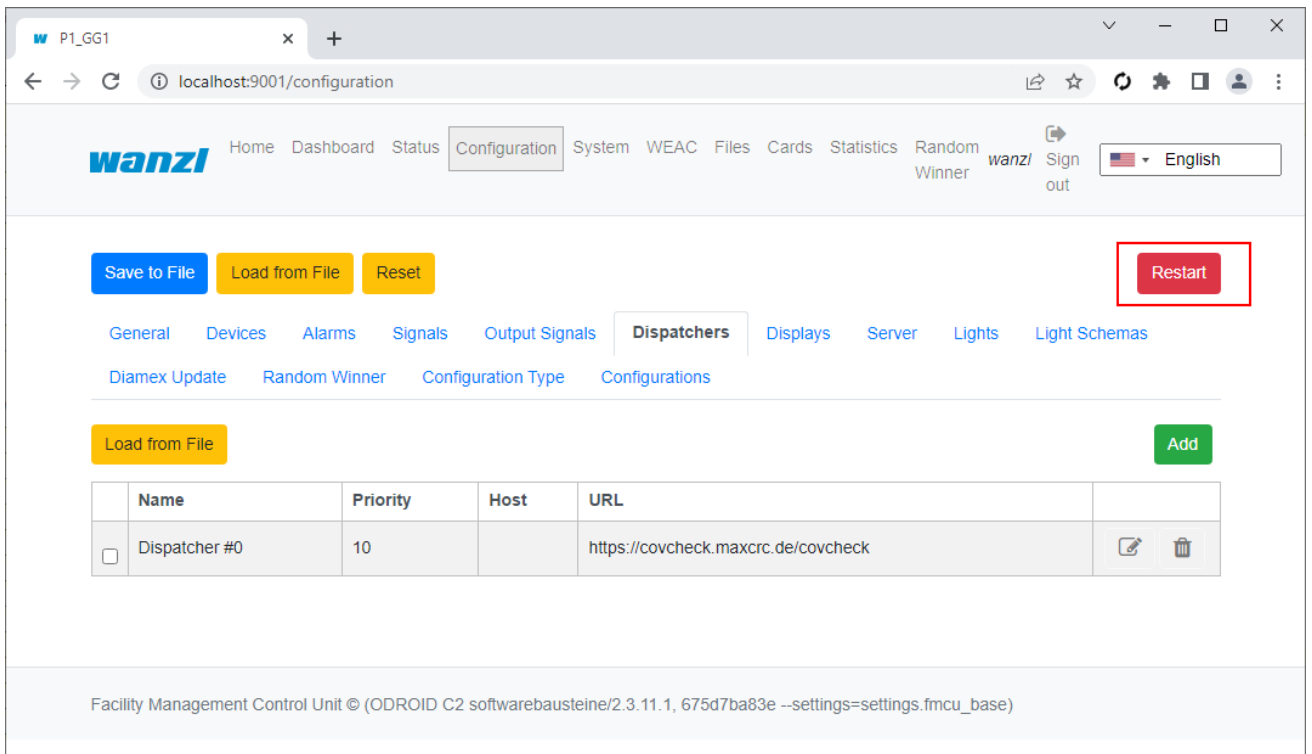
COVID Test timeout in, ms. *
5000

No SSL certificate validation

Green arrow button

Restart the gate:

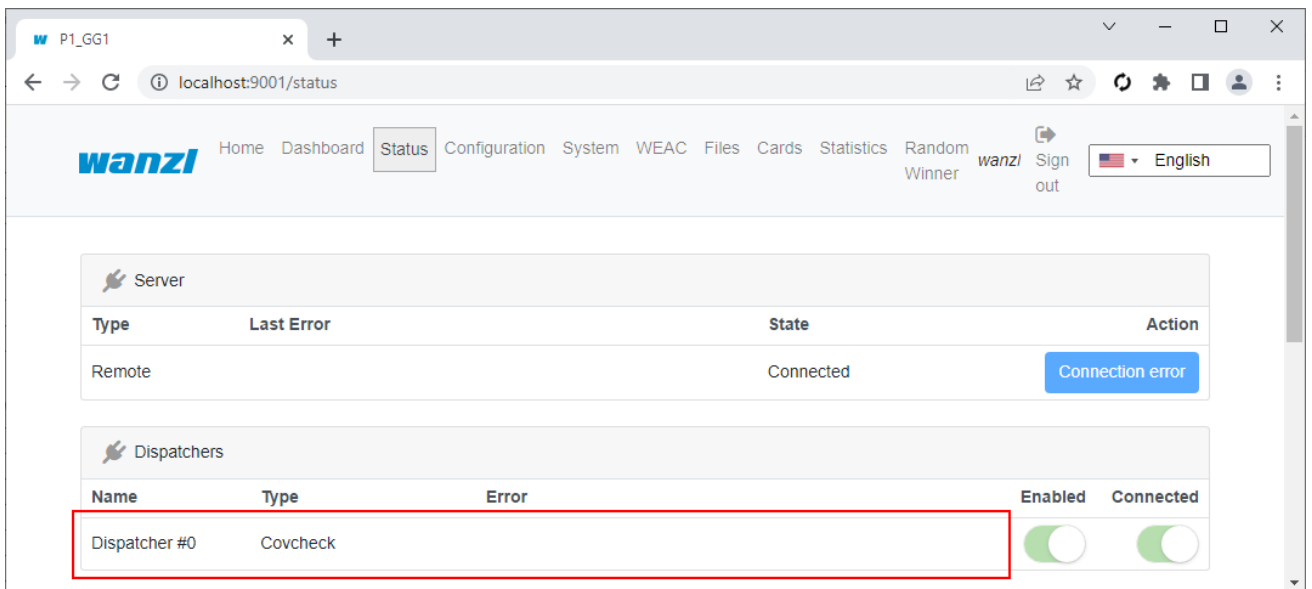
Covcheck



The screenshot shows the Wanzl configuration interface for the Covcheck server. The browser address bar indicates the URL is localhost:9001/configuration. The navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The 'Configuration' menu is expanded, showing options like General, Devices, Alarms, Signals, Output Signals, Dispatchers, Displays, Server, Lights, and Light Schemas. The 'Dispatchers' sub-menu is active, displaying a table with one entry: 'Dispatcher #0' with a priority of 10 and a URL of https://covcheck.maxcrc.de/covcheck. A red box highlights the 'Restart' button in the top right corner. Other buttons include 'Save to File', 'Load from File', 'Reset', and 'Add'.

Name	Priority	Host	URL
Dispatcher #0	10		https://covcheck.maxcrc.de/covcheck

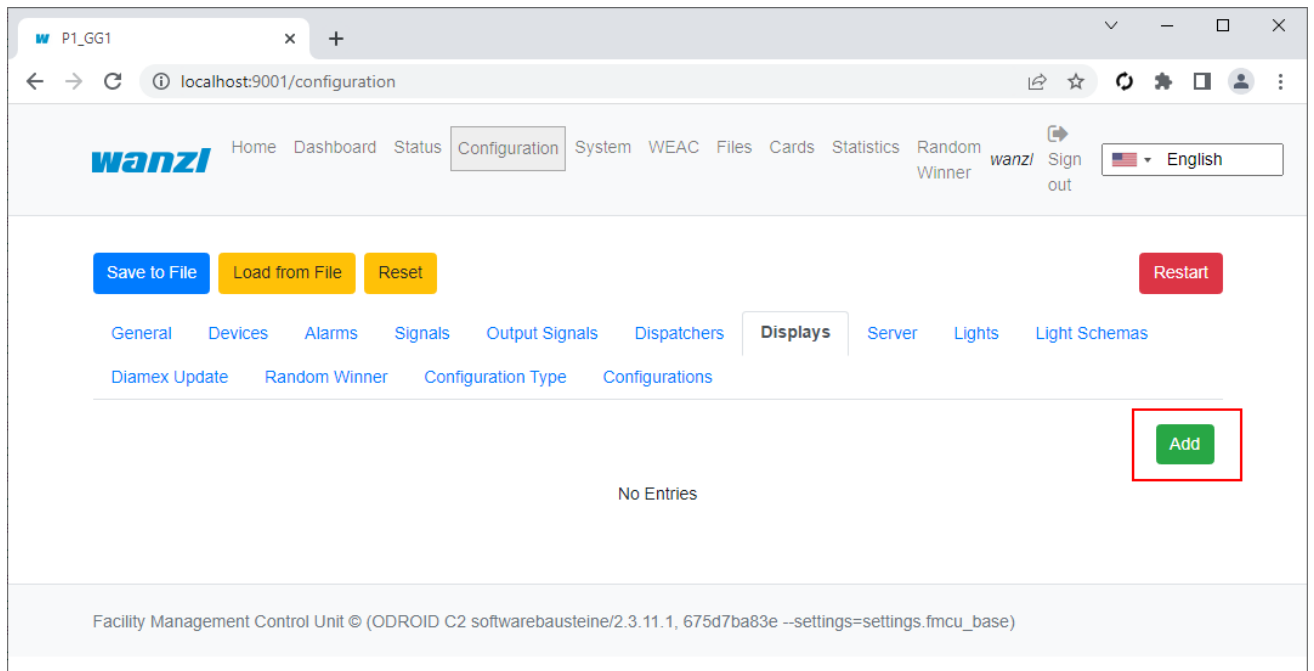
If the Covcheck server is available, the **Error** field is empty:



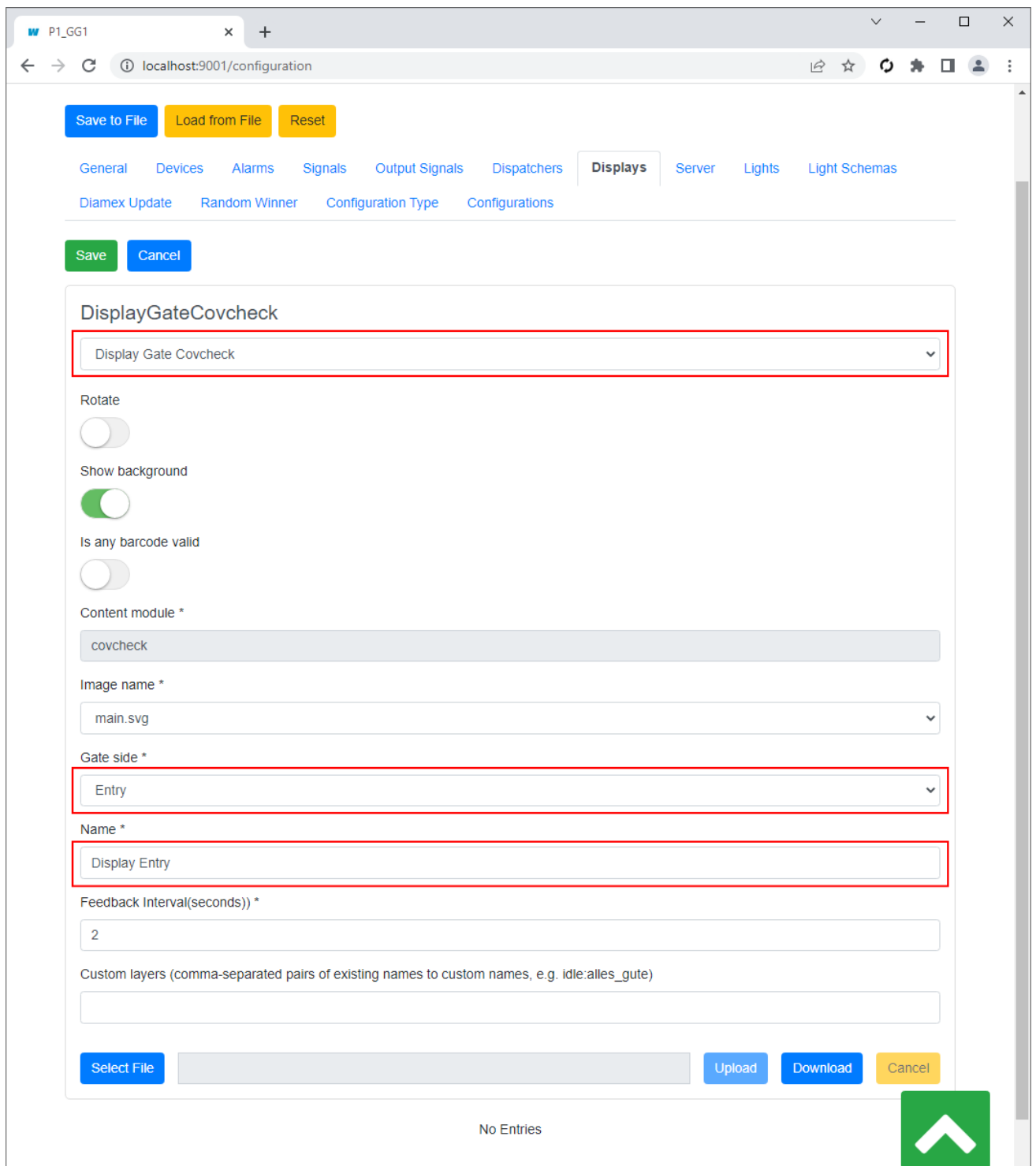
The screenshot shows the Wanzl status page for the Covcheck server. The browser address bar indicates the URL is localhost:9001/status. The navigation menu includes Home, Dashboard, Status, Configuration, System, WEAC, Files, Cards, Statistics, Random Winner, and Sign out. The 'Status' menu is active, displaying a table with one entry: 'Dispatcher #0' with a type of 'Covcheck'. The 'Error' field is empty, and the 'Enabled' and 'Connected' status indicators are both green. A red box highlights the 'Dispatcher #0' row.

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

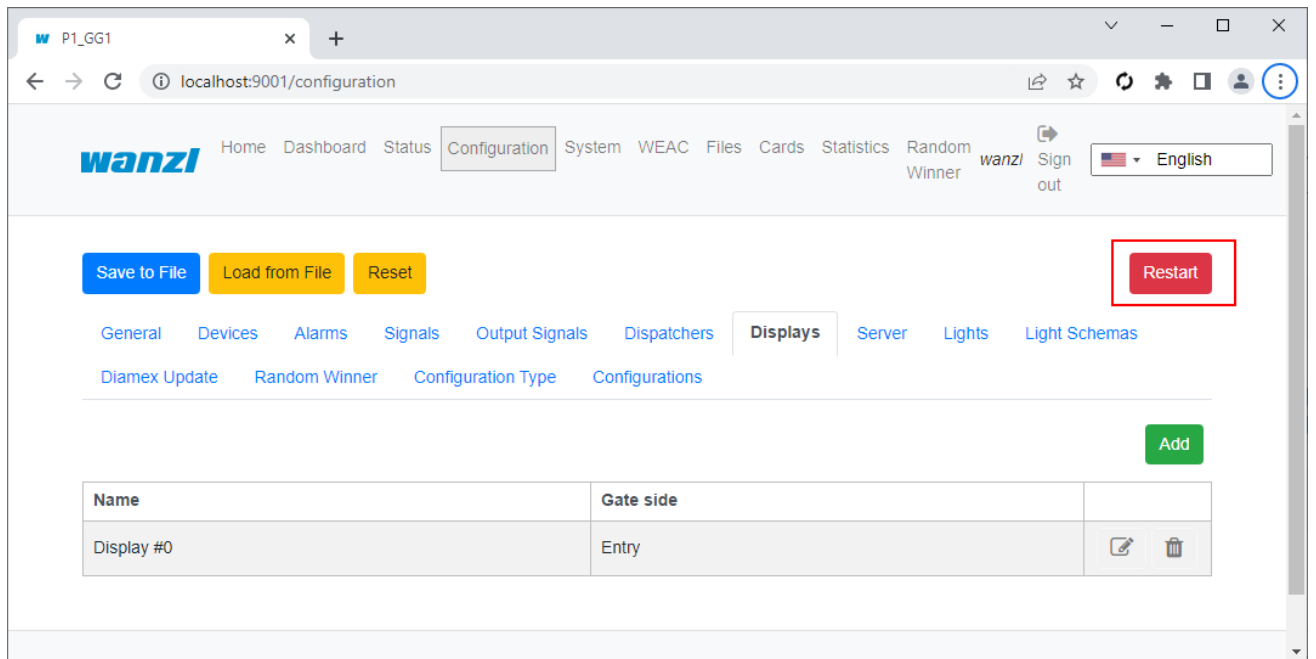
Display





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 main content area has tabs for `General`, `Devices`, `Alarms`, `Signals`, `Output Signals`, `Dispatchers`, `Displays` (active), `Server`, `Lights`, and `Light Schemas`. Below these tabs are links for `Diamex Update`, `Random Winner`, `Configuration Type`, and `Configurations`. A green `Add` button is highlighted with a red box. The text `No Entries` is displayed in the center. The footer contains the text `Facility Management Control Unit © (ODROID C2 softwarebausteine/2.3.11.1, 675d7ba83e --settings=settings.fmcu_base)`.

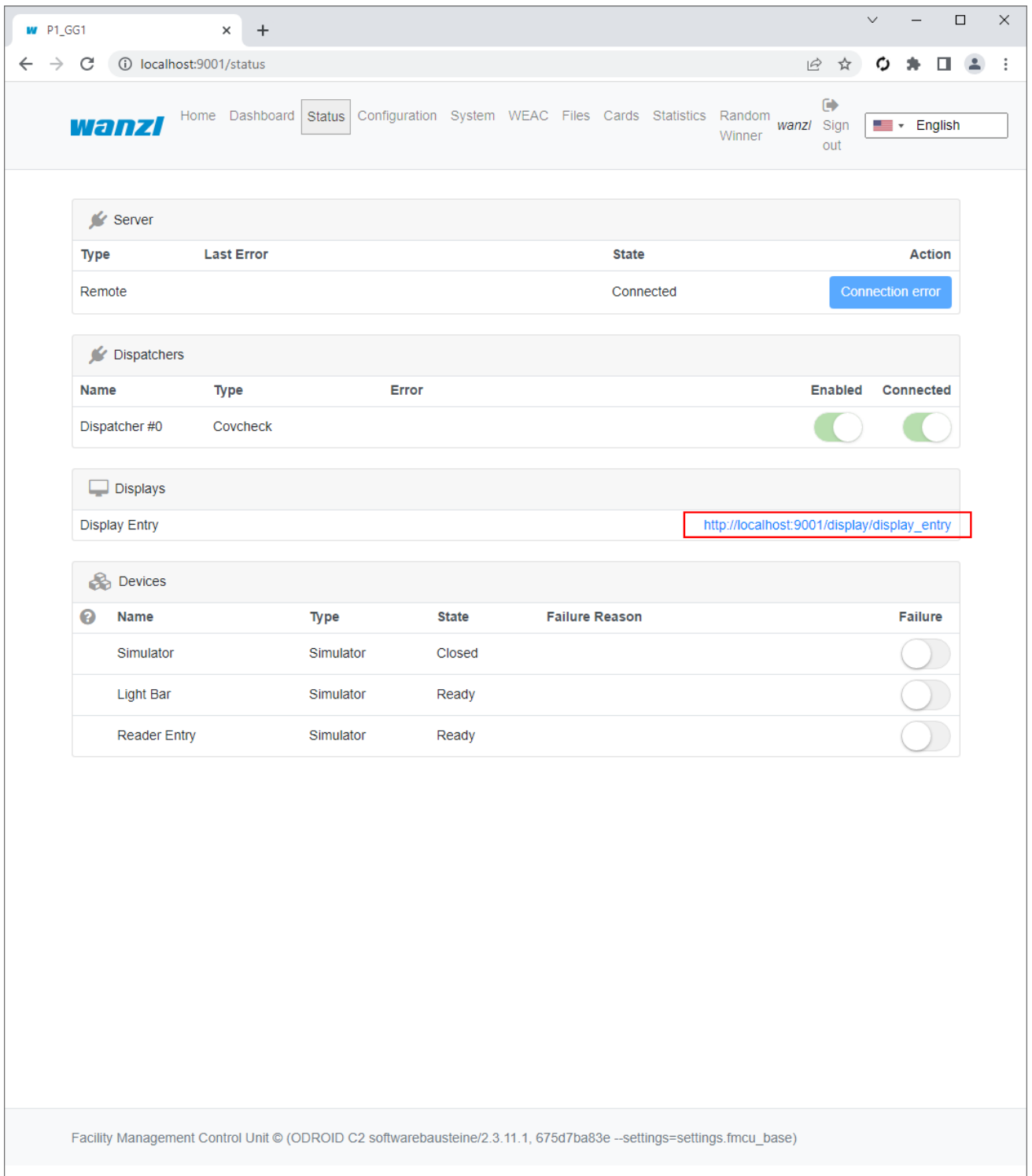


The screenshot shows a web browser window at localhost:9001/configuration. The interface includes navigation tabs for General, Devices, Alarms, Signals, Output Signals, Dispatchers, **Displays**, Server, Lights, and Light Schemas. Below these are sub-tabs for Diamex Update, Random Winner, Configuration Type, and Configurations. At the top of the configuration area are buttons for 'Save to File', 'Load from File', and 'Reset'. A 'Save' button and a 'Cancel' button are also present. 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 with a placeholder '(comma-separated pairs of existing names to custom names, e.g. idle:alles_gute)'. At the bottom of the configuration area are buttons for 'Select File', 'Upload', 'Download', and 'Cancel'. 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`. A language dropdown is set to `English`. Below the navigation, there are three buttons: `Save to File` (blue), `Load from File` (yellow), and `Reset` (yellow). A red box highlights a `Restart` button (red) in the top right corner. Below these buttons is a horizontal menu with tabs: `General`, `Devices`, `Alarms`, `Signals`, `Output Signals`, `Dispatchers`, `Displays` (selected), `Server`, `Lights`, and `Light Schemas`. Below the tabs are links for `Diamex Update`, `Random Winner`, `Configuration Type`, and `Configurations`. A green `Add` button is located on the right side. Below the `Add` button is a table with the following content:

Name	Gate side	
Display #0	Entry	 



Browser window: P1_GG1, localhost:9001/status

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

Language: 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
	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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