Checkbox Tools Manual

Welcome to the official user manual for the Checkbox (FDM) Backend System, your essential resource for managing the Fiscal Data Module (FDM) as mandated by the Belgian government. The Checkbox (FDM) Backend System is a powerful tool designed to simplify the visualization, monitoring, and administration of your Fiscal Data Module. This system enables users to track real-time status updates, monitor transaction counters, review historical fiscal data, identify and resolve errors, and facilitate the transfer of the FDM to another company, ensuring compliance with Belgian fiscal regulations.

This manual is crafted to guide users of all levels—whether business owners, administrators, or technical staff—through the features and functionalities of the Checkbox (FDM) Backend System. Within these pages, you will find clear instructions on setup, operation, troubleshooting, and advanced features to help you maintain seamless compliance and optimize your fiscal data management processes. Our aim is to empower you to use the system efficiently, ensuring accurate and reliable handling of your Checkbox unit.

We invite you to explore this manual to unlock the full capabilities of the Checkbox (FDM) Backend System and streamline your fiscal operations in accordance with Belgian government standards. Let’s get started!

Organization

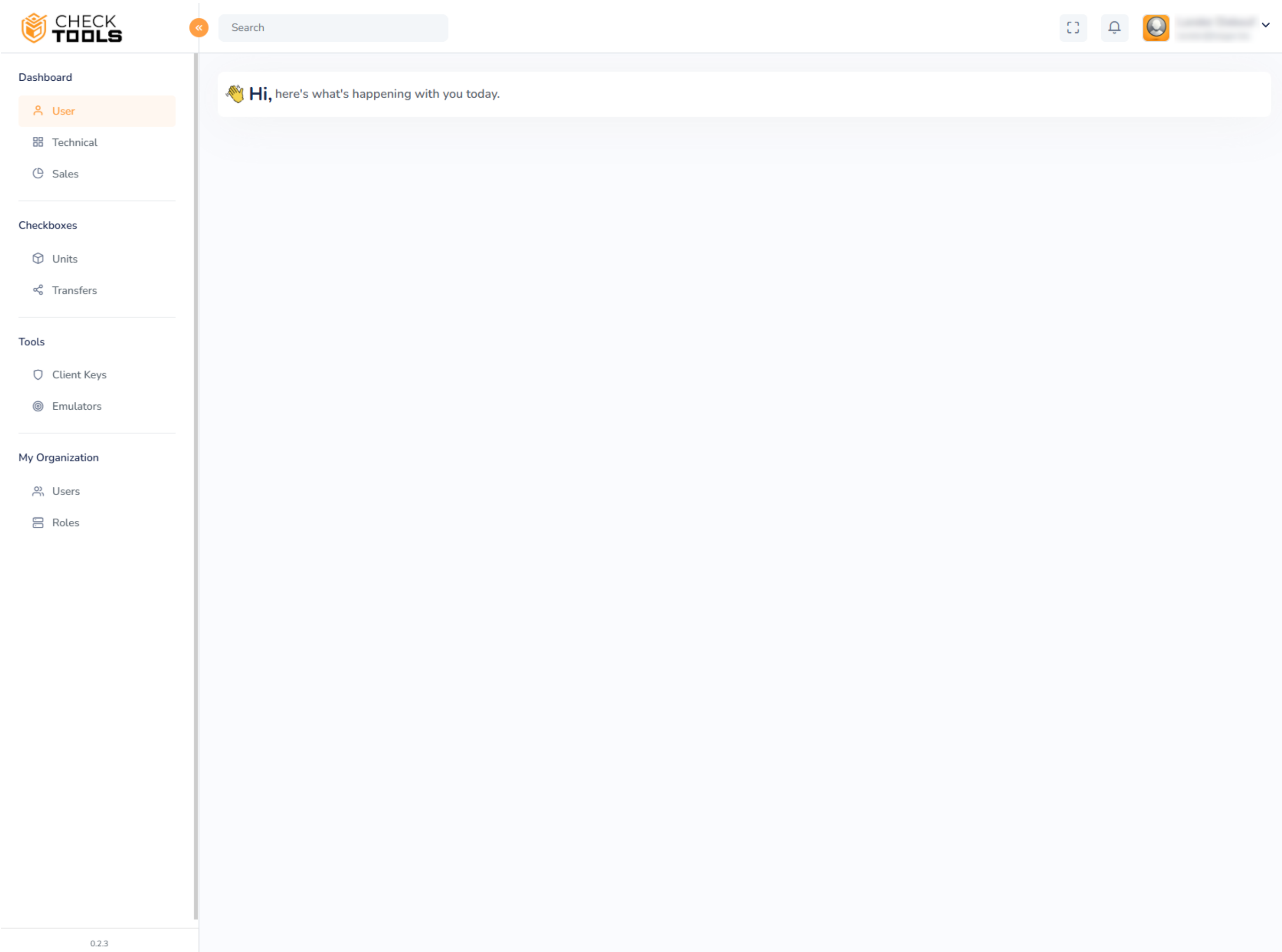
This topic is handling on your organization and the settings for it. How you can add users, and how you can change roles and rights

User Interface

The overall User interface for these Tools

User Interface

Overview



According to the rights and roles this can differ a little.

Top Bar

The top bar does contain a search bar, a notifications bell and a Logged in user widget.

Notification Bell

The notification bell will contain the important notifications for your account,

User Widget

You can see who is logged in, And you can navigate to the details of that user. There you can see the organization you belong to.

Navigation Bar

The navigation bar on the left is the main navigation way to reach the desired function.

Dashboards

We have several dashboards that can help us depending on the role we fullfill in the organization some dashboards can be usefull and some won't
The User Dashboard will have all information concerning your user.
The Technical Dashboard will contain information on the Checkboxes from your organization. It will show you their status, and some technical traits. This iis a usefull dashboard once you have a lot of checkboxes in your pool. You will rapidly find checkboxes that are behaving badly, that have bad connections, that have a lot of errors, and so on. Also the distribution of the firmwares that are installed on the Checkboxes.
The Sales Dashboard will give you insights on the sales of your checkboxes, what days what products what revenue what the best selling products are, what the work hours are, and so on.

Checkboxes

Here you will be able to see the details of your checkboxes, of the transfered checkboxes and even of checkboxes you are allowed to view outside of your pool.

You will also be able to control the transfers for your checkboxes, accept incoming transfers, see all the transfers that were completed in the past.

Tools

Here you can find the API Keys, called Client Keys in order to access the Emulator, of if the Brdige functionality is enabled

Also if you have emulators, you can see the details of the emulators here and see all the transactions done on that emulator.

My Organization

This is the place to maintain the roles and users of your organization.

Dashboards

User Dashboard

Technical Dashboard

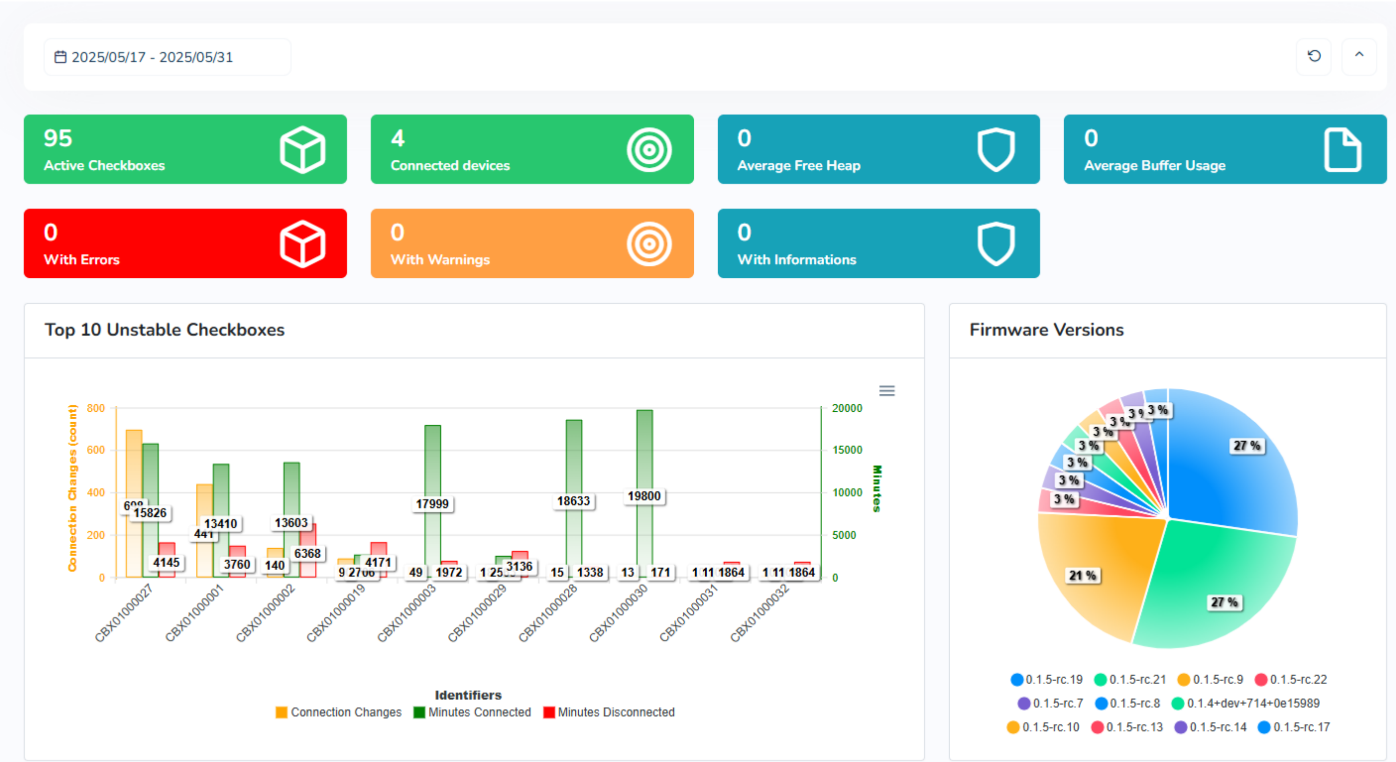
Sales Dashboards

Those dashboards are important depending on the role inside the orngaization.

User Dashboard

Technical Dashboard

This dashboard will give you an overview on the Checkboxes of your organization.

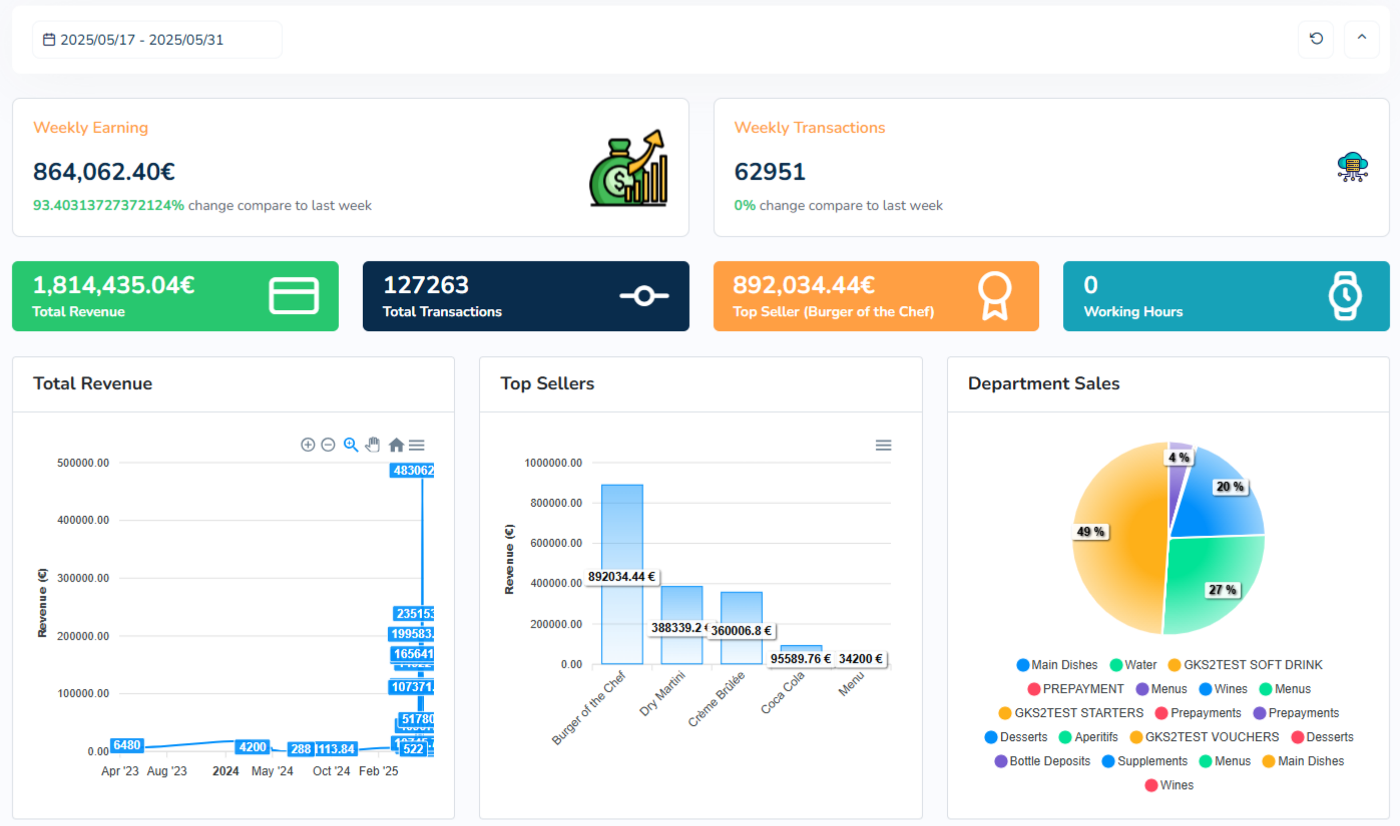


On the top bar you can pick the date range for the boxes to see Inside that date range you will see all your checkboxes and their stats

Dashboards

Sales Dashboard

The sales dashboard will show more insights on the actual sales done by your checkboxes.



Also here you can pick the date range to have all the financial information for. You can see your weekly earnings, compared to the week before. You can see the top sellers, the departments sold, and so on.

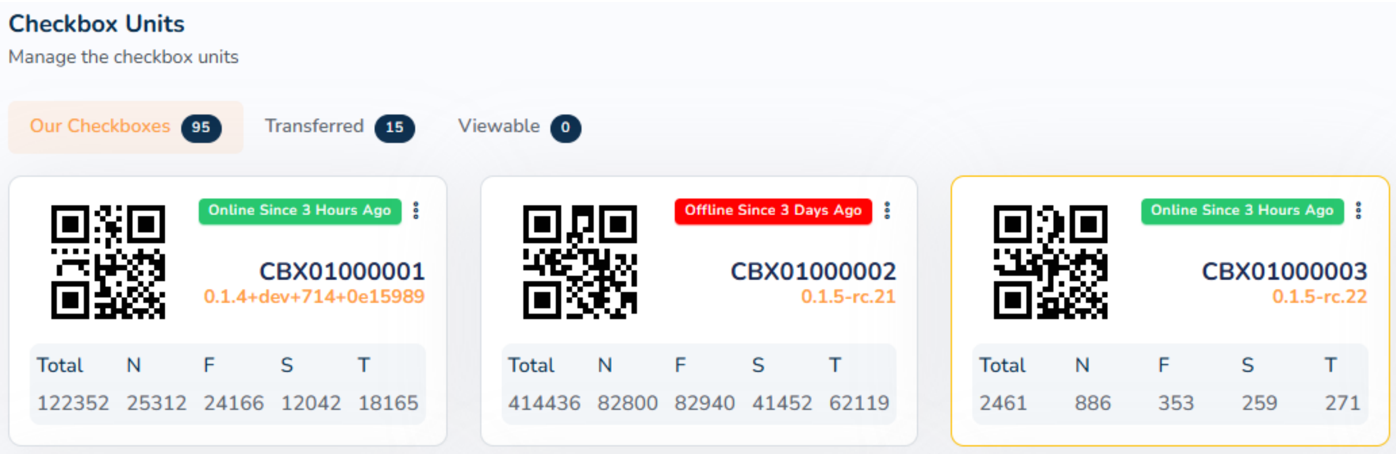
Checkboxes

In the Checkboxes area it is possible to see all the details for your checkboxes. Transfer checkboxes to your customers.

Checkboxes

Units

In the Units page you will have an overview of all your checkboxes.



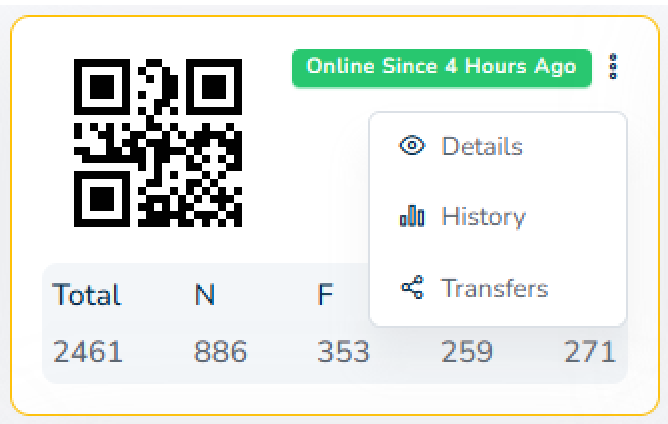
You are able to see 3 Tabs

- Our Checkboxes
- Transferred Checkboxes
- Viewable

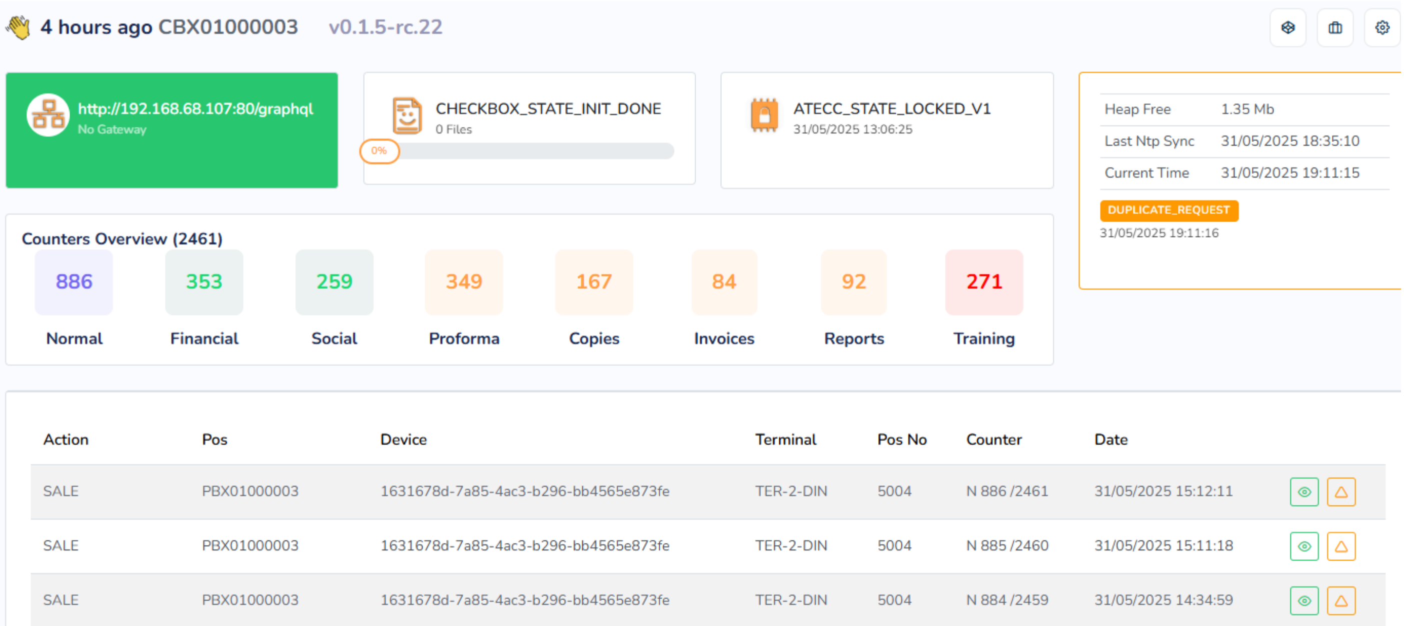
In each tab you can have multiple Checkboxes, where you can rapidly see their status. if they are online, or offline, what their most important counters are at, the current version of the Box, and most important, the box can have a colored border. That border will indicate if there are active Informations, Warnings or Errors.

In this example CBX01000003 does have a warning active.

If you click on the 3 little dots you can go to the details, the history data and the transfers for that Checkbox



Checkbox Unit Detail



On the top you can see what time the last action was on the Checkbox, and the current version of the Checkbox.
The Box core settings, the Admin Console and the general settings can be changed here.

The left box is showing us its connection status, the address of the box and the way it is connected, in this case it is a wired connection.

On the right you can see more information of the colored border. You can also see what warning is active.

There is a card that contains the current counters for each type.

There is also a list available with each mutation that has been completed by the Checkbox. This may be a valuable asset for a developer. Since you can request the raw details for that mutation, The request, the answer the raw data, the sign result.

Sign Result Details

Sign Result Details

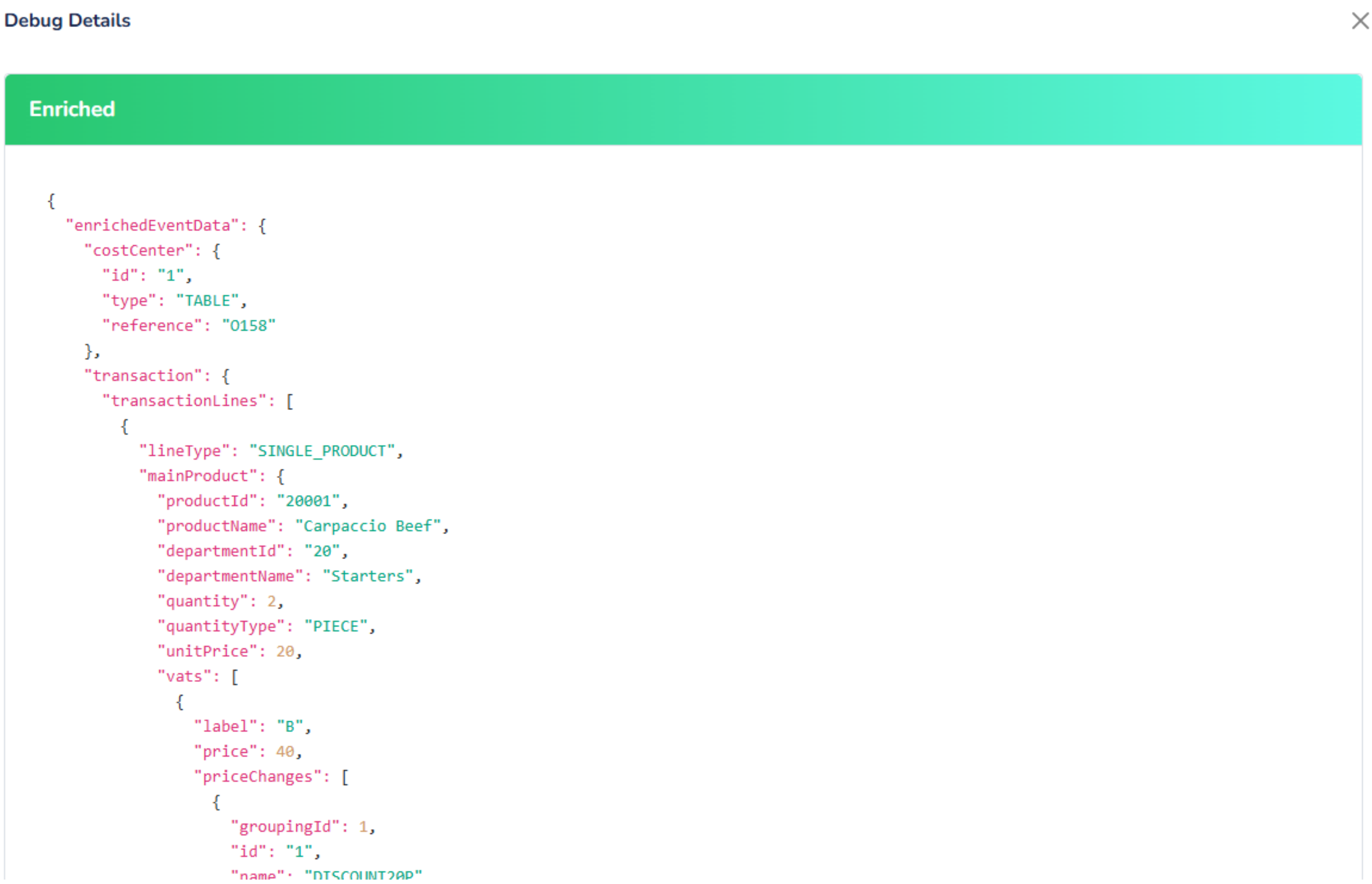
Request


```
{
  "fdmRef": null,
  "costCenter": {
    "id": "1",
    "type": "TABLE",
    "reference": "O158",
    "costCenter": null
  },
  "transaction": {
    "transactionLines": [
      {
        "lineType": "SINGLE_PRODUCT",
        "mainProduct": {
          "gtin": null,
          "productId": "20001",
          "productName": "Carpaccio Beef",
          "departmentId": "20",
          "departmentName": "Starters",
          "quantity": 2,
          "quantityType": "PIECE",
          "negQuantityReason": null,
          "unitPrice": 20,
          "vats": [
            {
              "label": "B",
              "price": 40,
              "priceChanges": [
                {
                  "groupingId": 1,
                  "id": "1",
                  "name": "DISCOUNT20P",
                  "scope": "LINE",
                  "type": "PUBLIC",
                  "amount": -8
                }
              ]
            }
          ]
        },
        "subProducts": null
```


Result

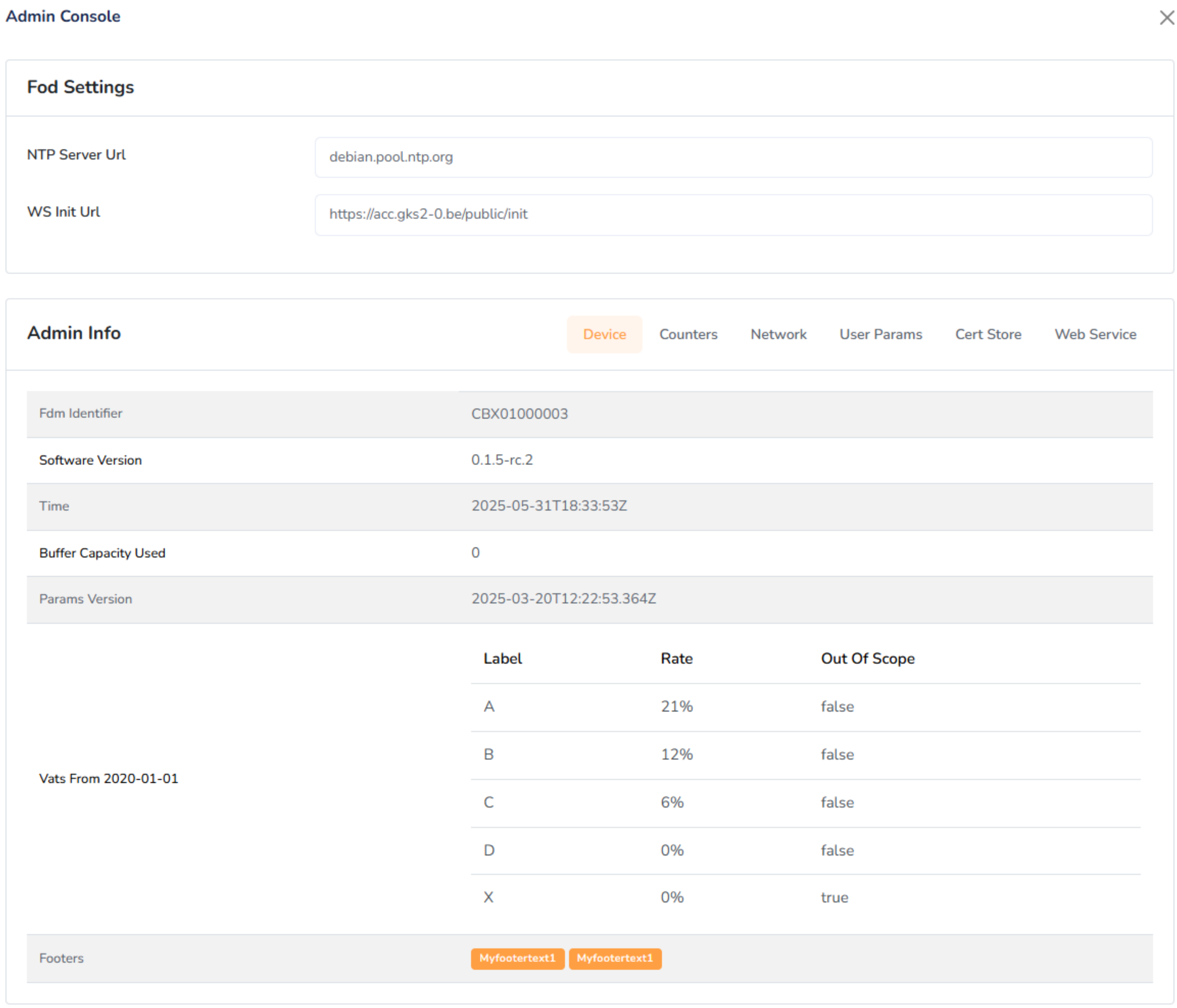

```
{
  "posId": "PBX01000003",
  "posFiscalTicketNo": 5004,
  "posDateTime": "2025-05-31T13:08:36.125Z",
  "terminalId": "TER-2-DIN",
  "deviceId": "1631678d-7a85-4ac3-b296-bb4565e873fe",
  "eventOperation": "SALE",
  "fdmRef": {
    "fdmId": "CBX01000003",
    "fdmDateTime": "2025-05-31T13:12:11.341Z",
    "eventLabel": "N",
    "eventCounter": 886,
    "totalCounter": 2461
  },
  "fdmSwVersion": "0.1.5-rc.2",
  "digitalSignature":
"MEUCIERJsGl7xF0iyE8KTry1GRRhQ51YS7zSyAMT5lBefGGSAiEAh98yvz+GOr
3qbv8zVBZYezJePi0lYq8pq3mkhorcUug=",
  "shortSignature": "806421f2eed74f28a47880364200db430c6474fb",
  "verificationUrl": "https://www.gks2-
0.be/qr5LKD9fbCJvCgSYtPE",
  "vatCalc": [
    {
      "label": "B",
      "rate": 12,
      "taxableAmount": 28.57,
      "vatAmount": 3.43,
      "totalAmount": 32,
      "outOfScope": false
    }
  ],
  "bufferCapacityUsed": 0,
  "warnings": [],
  "informations": [],
  "footer": [
    "myfootertext1",
    "myfootertext1"
  ]
}
```

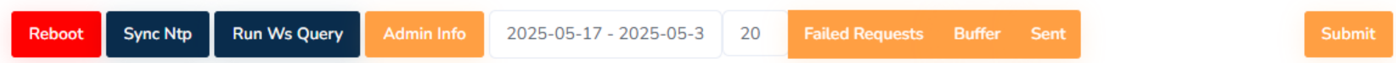

Debug Details



Admin Console

In the admin console you can change the settings for the Admin Console (Ntp server Url, and Ws Init Url)





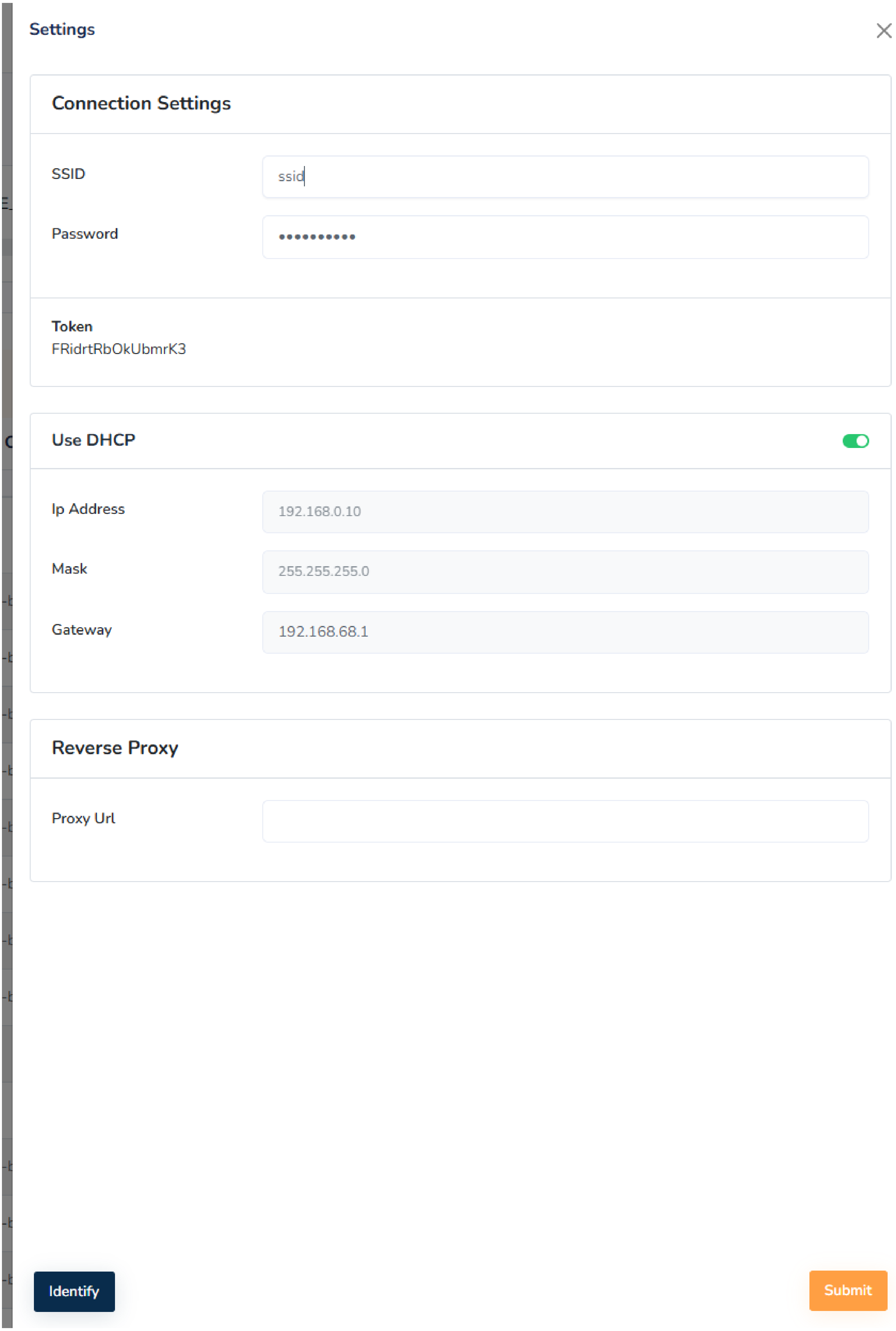
If the Checkbox is online, on the bottom you will see some functions appear. Those functions can query the Checkbox when it is online.

The following functions are available

- Reboot: Rebooting the device
- Sync Ntp: Syncronize the time with the NTP servers
- Run Ws Query: Try running the WS query against the Ws Url
- Admin Infos: queries all the information from the Checkbox that is available

- Failed Requests: Queries the requests between the 2 dates, and maximum that amount of requests as set.
- Buffered messages: Queries the requests between the 2 dates, and maximum that amount of requests as set.
- Sent messages: Queries the requests between the 2 dates, and maximum that amount of requests as set.

General Settings


Settings
Connection Settings
SSID
ssid
Password
Token
FRidrtRbOkUbmrK3
Use DHCP
Ip Address
192.168.0.10
Mask
255.255.255.0
Gateway
192.168.68.1
Reverse Proxy
Proxy Url
Identify
Submit

The general settings are mostly the Wifi settings and the Network settings that can be changed here.

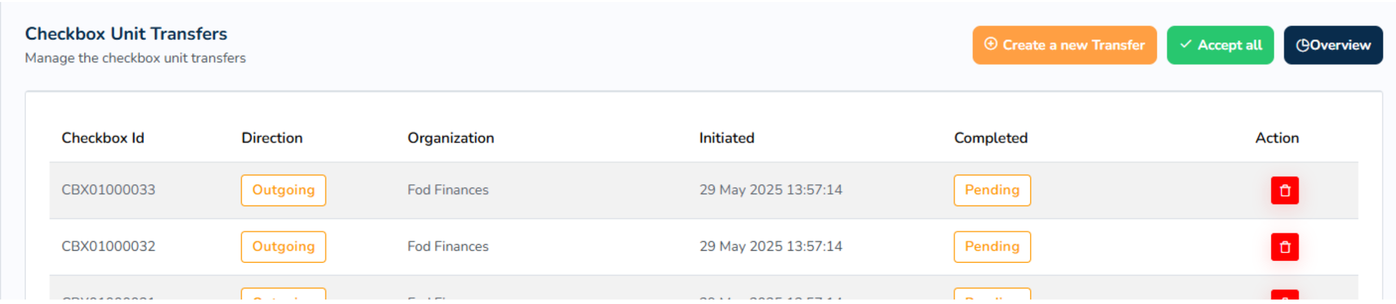
If the Checkbox is connected there is also a function available as Identify. This will change the LED's on the physical Checkbox to a white runner, in order to identify the checkbox you are currently updating.

Checkboxes

Transfers

Overview

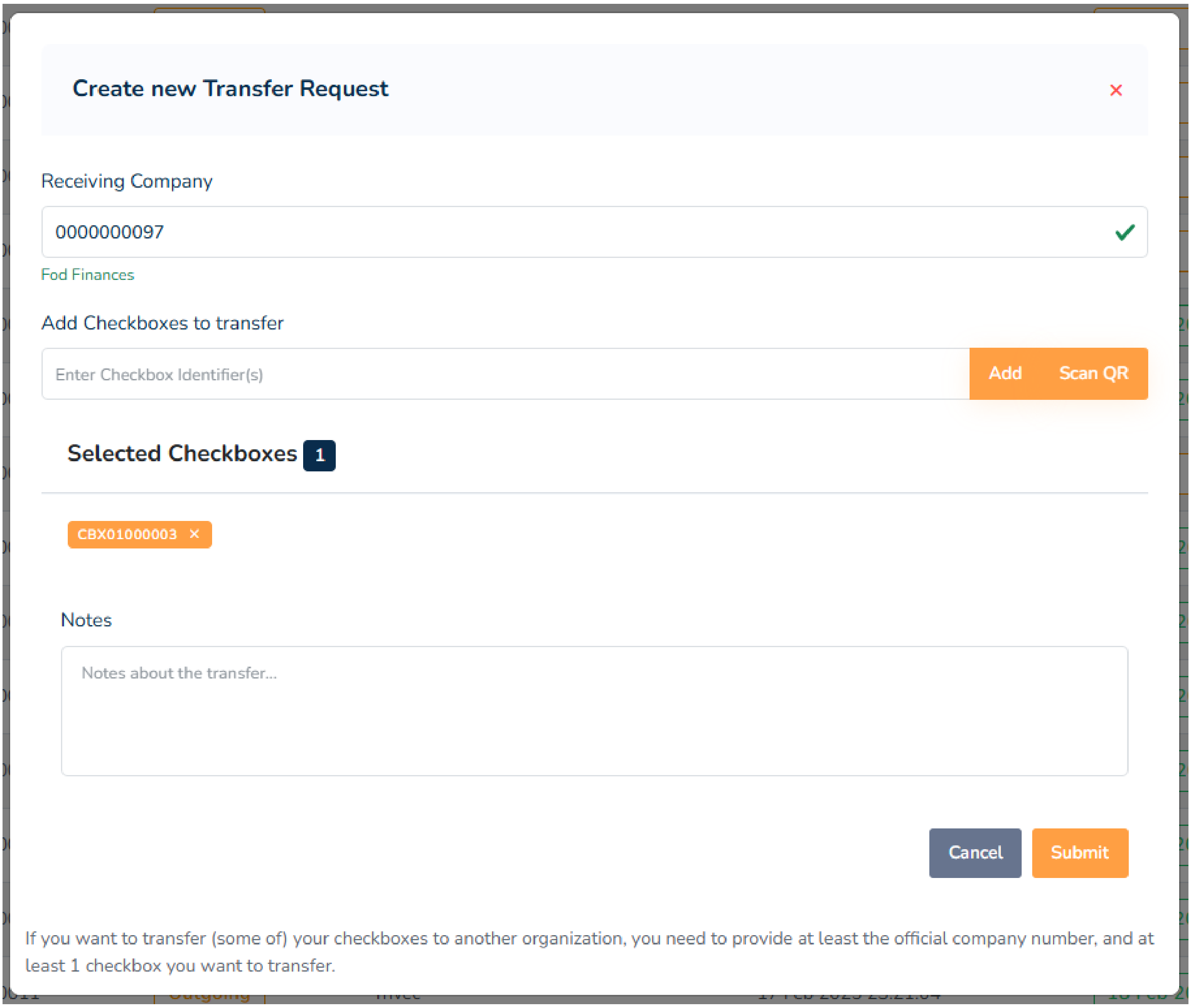
Here you can see the status of the transfers you control



In this example there are some Outging transfers to Fod Finances, but they are not accepted yet, so at that point i can still cancel the transfer by clicking on the red Trash Bin Icon.

Create a new Transfer

When creating a new Transfer This is the form you need to complete



When adding the Company number you wil see the company name you are transferring the Checkboxes to.

Then you need to add the Checkboxes Identifiers you actually want to transfer.

- Single Identifier is inputted like this CBX01000001
- Multiple identifiers comma seperated, CBX01000001, CBX01000003
- Multiple identifier range, CBX01000001-CBX01000003
- Combination of ranges and single identifiers are also possible
- You can also use the camera of your device with Scan QR in order to add the boxes by scanning their QR code

Adding a note to the transfer is optional but might be good for internal tracking or comments.

Once you are pleased with the Receiving Company and the Selected Checkboxes, you just hit the Submit button and the transfer is ready to be accepted

Accepting Transfers

Accepting one checkbox is done by clicking the appropriate line, or accepting all incoming transfers is done by one click the **Accept All** button.

Declaring to FOD

After a transfer is completed, the FOD should be updated that the Checkbox has moved from one company to another company. You could do that manually, but next to a completed transfer, you can download an XML file with the transfer details. That file is intended to upload into the system of FOD in order to speed up the transferring system.

Once Fod is allowing it, completing a transfer in the Checkbox Backend, that configuration will automatically be pushed to the servers of FOD if preferred.

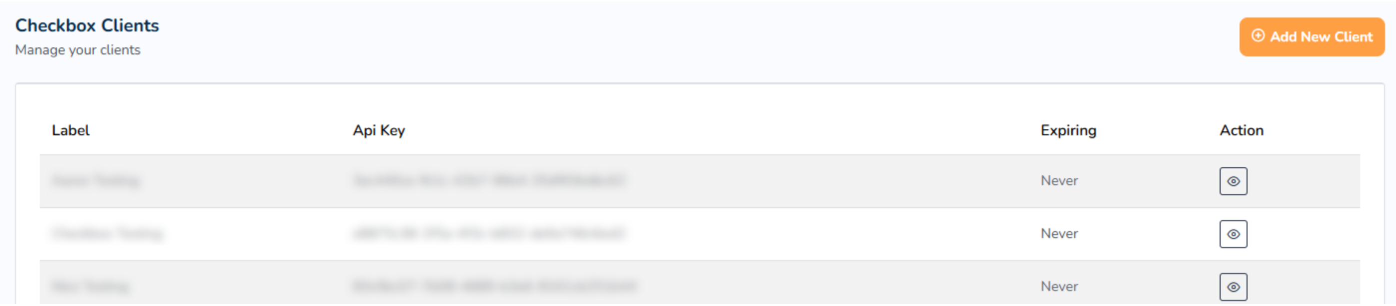
Tools

With these tools you can as a developer find the needed keys and see the results from the emulators you control.

Tools

Client Keys

In the Checkbox Clients it is possible to see all the clients with their scope

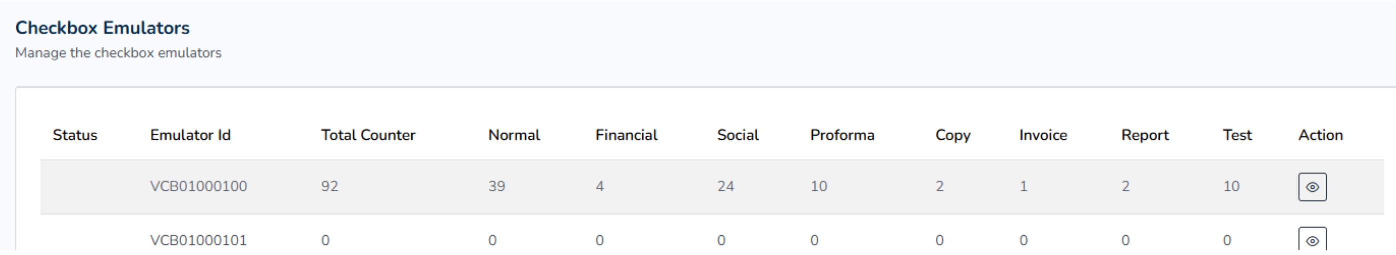


These Api Keys are the keys that are needed to communicate with the **Emulators**, but also with the **Checkbox Bridge.**

When you add a Checkbox Client, you can specify if there are restrictions on the Client Key, What Checkboxes they are allowed to control, if an expiration date is wanted for the Key

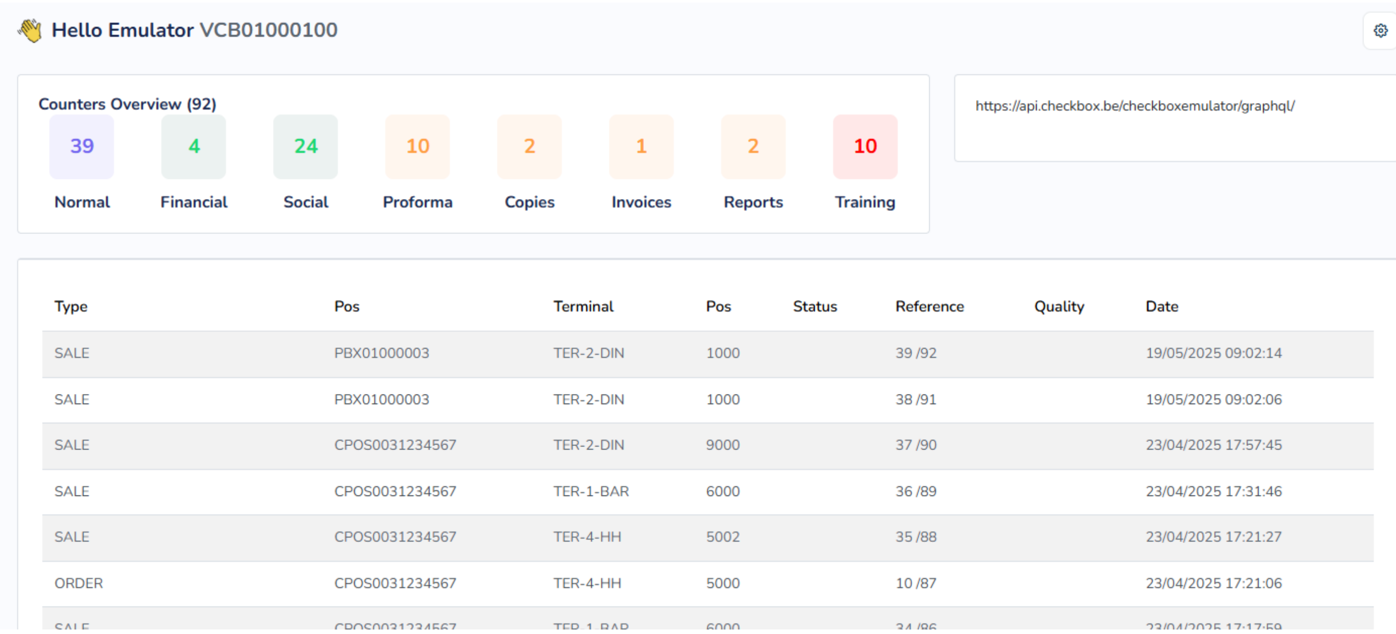
Emulators

In the emulators overview you can see what emulators you control



Status	Emulator Id	Total Counter	Normal	Financial	Social	Proforma	Copy	Invoice	Report	Test	Action
	VCB01000100	92	39	4	24	10	2	1	2	10	
	VCB01000101	0	0	0	0	0	0	0	0	0	

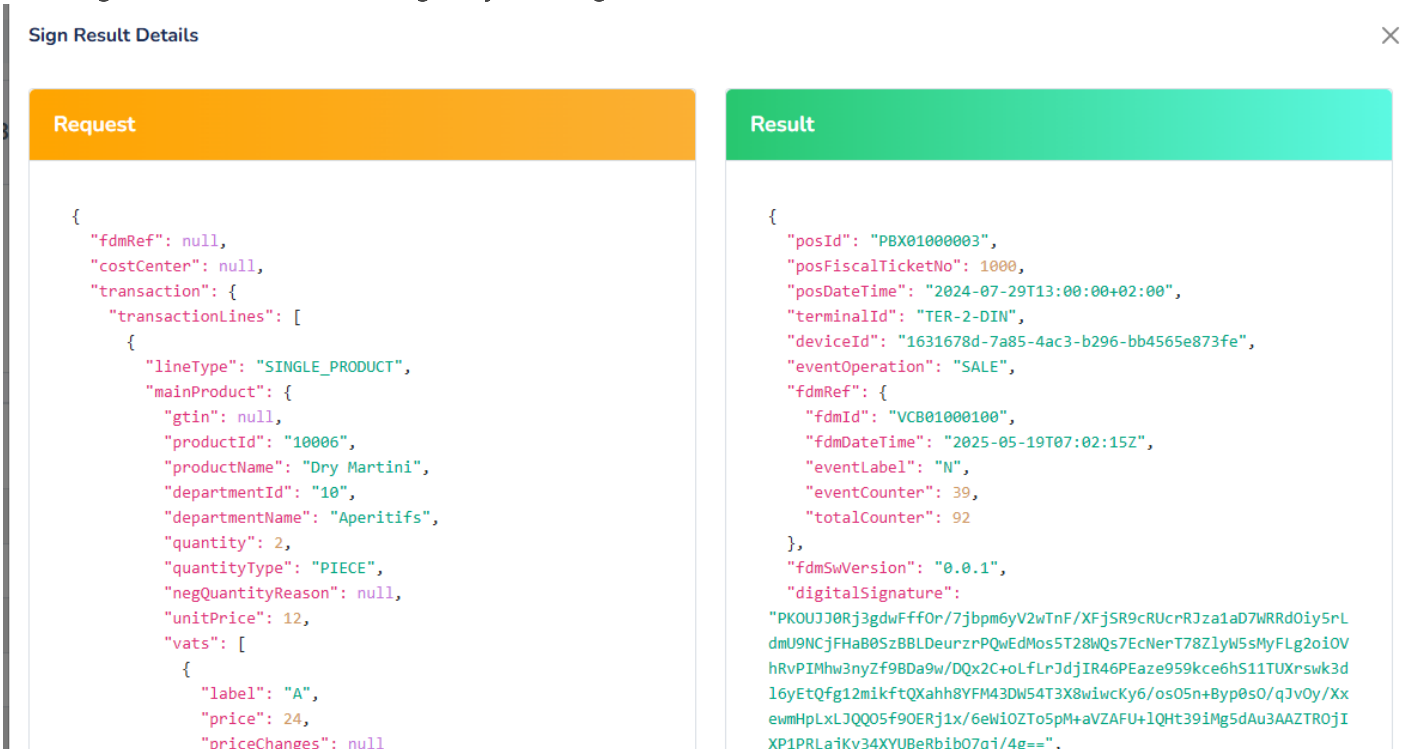
If you click the **eye icon** you can see some details of that emulator.
The details for an emulator are very similar to an actual Checkbox Unit



Type	Pos	Terminal	Pos	Status	Reference	Quality	Date
SALE	PBX01000003	TER-2-DIN	1000		39 /92		19/05/2025 09:02:14
SALE	PBX01000003	TER-2-DIN	1000		38 /91		19/05/2025 09:02:06
SALE	CPOS0031234567	TER-2-DIN	9000		37 /90		23/04/2025 17:57:45
SALE	CPOS0031234567	TER-1-BAR	6000		36 /89		23/04/2025 17:31:46
SALE	CPOS0031234567	TER-4-HH	5002		35 /88		23/04/2025 17:21:27
ORDER	CPOS0031234567	TER-4-HH	5000		10 /87		23/04/2025 17:21:06

There is an overview of the counters,
There is a card with more information of the emulator
There is a list of the transaction done with this emulator.

Clicking on a transaction will give you insight in the details of that transaction.



You can also emulate Warnings and errors by clicking on the Cog icon on top of the Emulator details page.

> This is an emulator, so you can make combinations of errors and warnings that in a real Checkbox will never occur

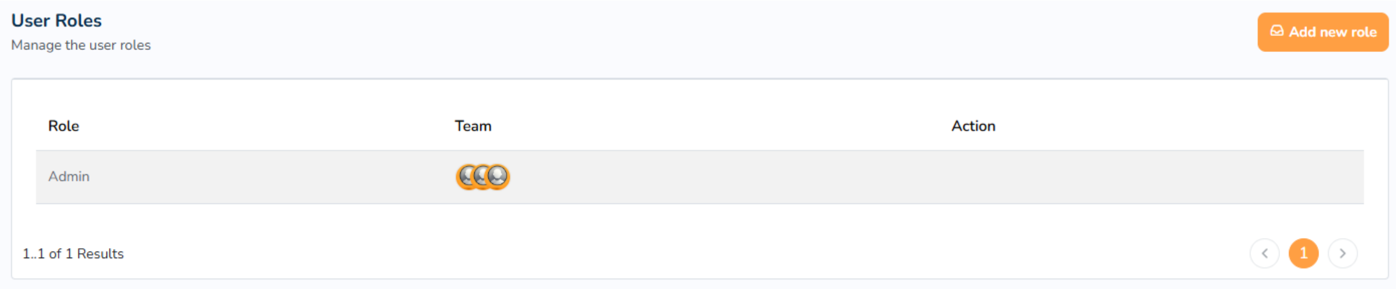
My Organization

In this area you can configure your roles and assign the users to the roles, manage the users in your organization.

My Organization

Roles

Overview



By default you will see an Admin role that comes with the organizationf, this is a role that you are not able to remove, nor change.

You can create a new role by giving it a name, and chosing the permissions that will come with the role

Create a new Role

×

Role Name

Allowed Permissions

- DashboardUserRead
- DashboardTechnicalRead
- MyOrganizationWrite
- MyOrganizationUserList
- MyOrganizationUserRead
- MyOrganizationUserRoleList
- MyOrganizationUserWrite
- MyOrganizationUserRoleRead
- MyOrganizationUserRoleWrite
- CheckboxUnitList
- CheckboxUnitRead
- CheckboxUnitWrite
- CheckboxUnitAdminConsole
- CheckboxUnitBearerToken
- CheckboxUnitTransferList
- CheckboxUnitTransferRead
- CheckboxUnitTransferWrite
- CheckboxUnitTransferAccept
- CheckboxUnitListViewing
- CheckboxUnitViewsList
- CheckboxUnitViewsRead
- CheckboxUnitViewsWrite
- EmulatorList
- EmulatorRead
- EmulatorWrite
- CheckboxClientList
- CheckboxClientRead
- CheckboxClientWrite

Cancel | Submit

You can create a new role and set what type of permissions a user will receive

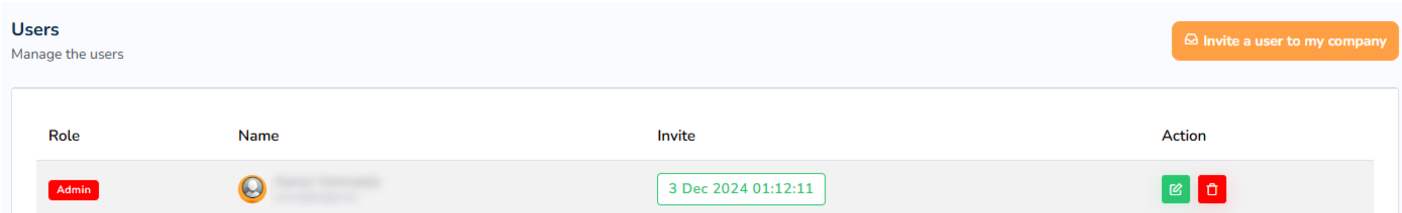
Dashboard User Read	This will allow the user to see a user dashboard
Dashboard Technical Read	This will allow the user to see the technical dashboard

My Organization

Users

Overview

You can see an overview of all the users inside your organization

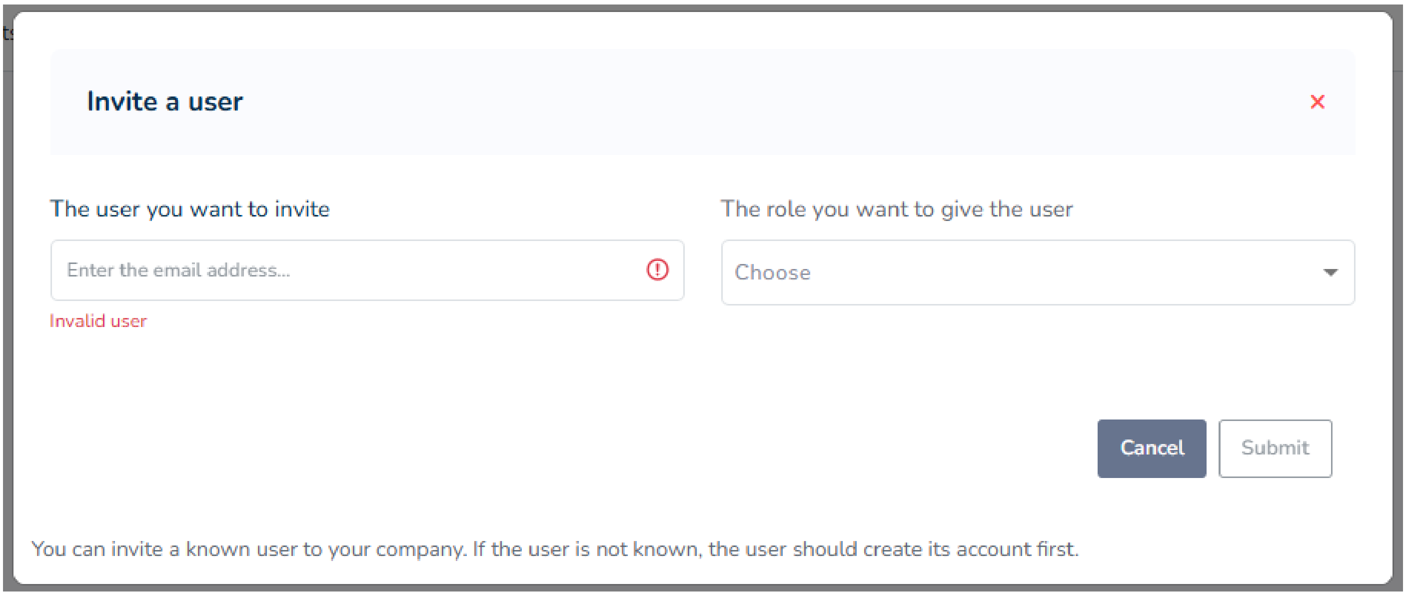


The green button on the user is how you assign that user to a different role.

The roles available in the dropdown are the roles that are created in your Organization Roles

Invite a User

It is important that the user you want to invite already has a Checkbox Account, the account can be created by the user on the Tools login page.



You can enter the email address of the user you want to invite. The user has to exist in the system and the user cannot be a user of another company yet.

You then choose the role you want to assign that user. and Submit the form. At that point the user is a member of your organization.