

# Benutzerhandbuch/en

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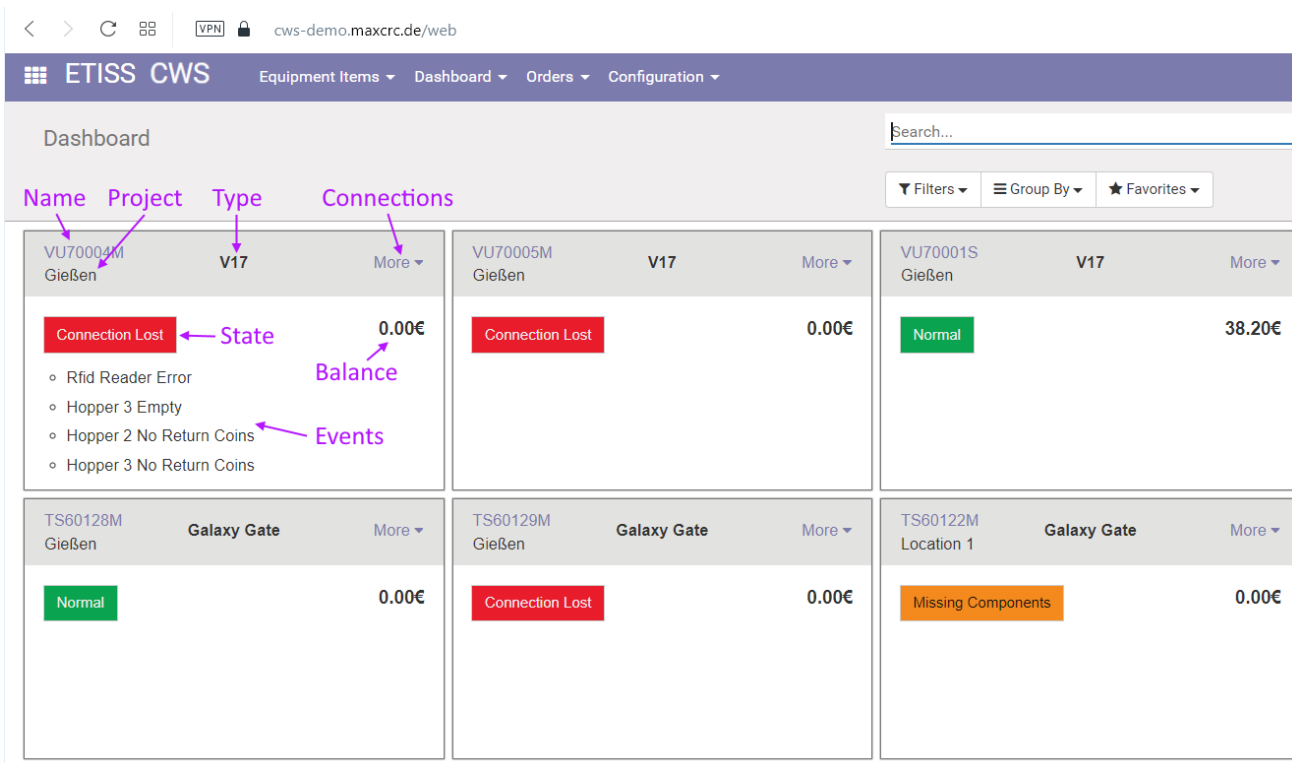
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## DASHBOARD

### Main elements description

The dashboard is designed to give user a convenient way of managing and controlling equipment items registered in the system. Each dashboard item represents a physical device and consists of the following elements:



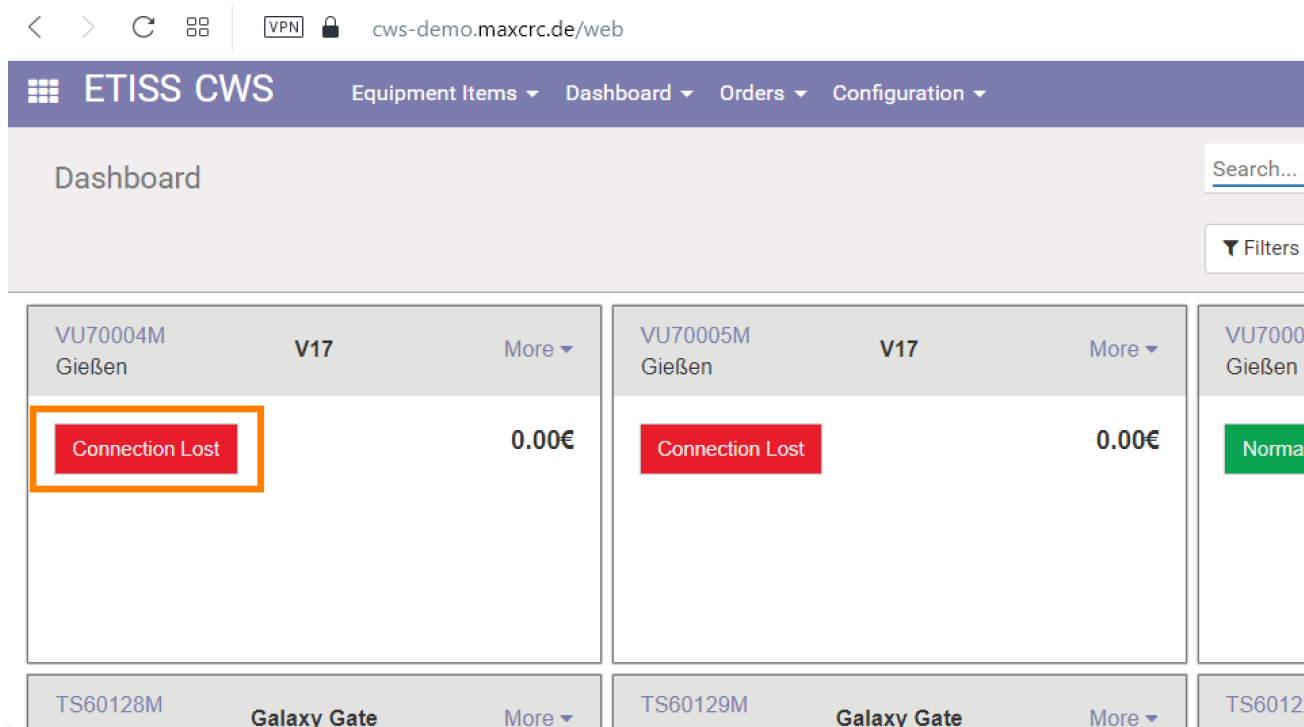
The screenshot shows the ETISS CWS dashboard interface. At the top, there is a navigation bar with 'ETISS CWS' and menu items like 'Equipment Items', 'Dashboard', 'Orders', and 'Configuration'. Below this is a search bar and filter options. The main content area displays a grid of equipment items. Each item card shows the name, project, type, and a 'Connections' link. The status is indicated by a colored box (e.g., 'Connection Lost' in red, 'Normal' in green, 'Missing Components' in orange). The balance is shown in the top right corner of each card. The first card (VU70004M) has a 'State' dropdown and a list of 'Events' (Rfid Reader Error, Hopper 3 Empty, Hopper 2 No Return Coins, Hopper 3 No Return Coins). The second card (VU70005M) shows 'Connection Lost' and '0.00€'. The third card (VU70001S) shows 'Normal' and '38.20€'. The fourth card (TS60128M) shows 'Normal' and '0.00€'. The fifth card (TS60129M) shows 'Connection Lost' and '0.00€'. The sixth card (TS60122M) shows 'Missing Components' and '0.00€'.

- **Name:** Equipment item name
- **Project:** A project to which this equipment item belongs
- **Type:** Equipment item type. In case of Vending Units, this can be either V21 or V7, or other modifications
- **Connections:** This link allows to quickly connect to the item either with ssh, or VNC and check the status.
- **Balance:** In case of VU, shows the current amount of money in the Vending Unit.
- **Events:** Shows the list of events that have happened recently

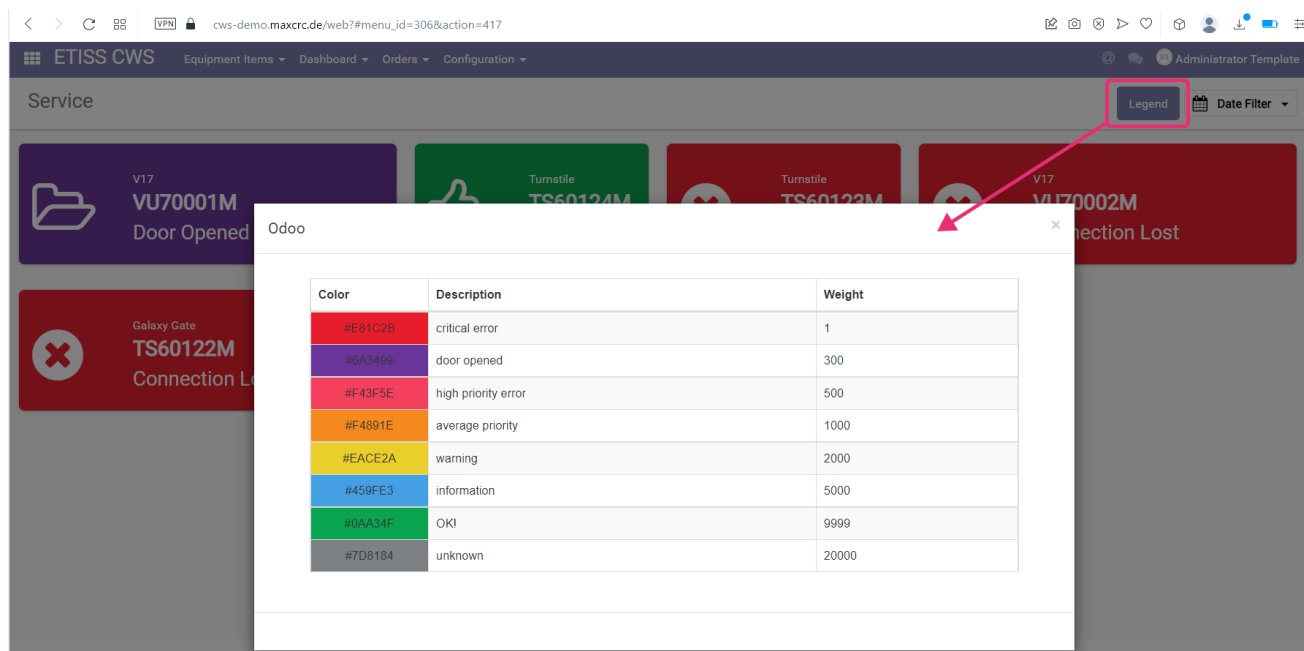
- **State:** Displays current state of the equipment item

## VU state and events

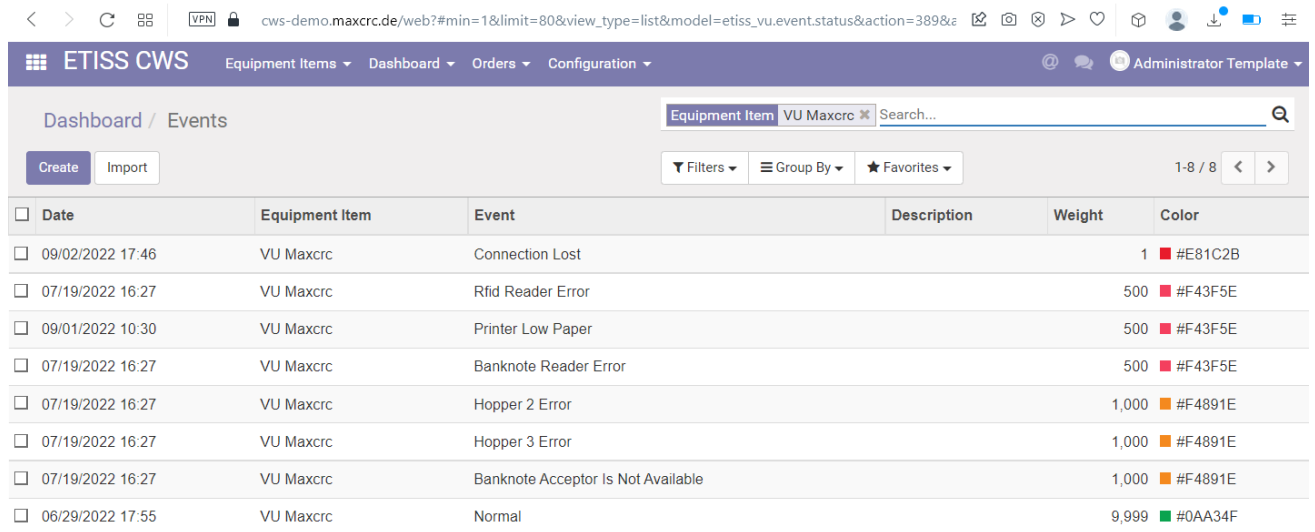
When something happens with Vending Unit or other equipment, it sends an event to the server. You can view current status of the unit and events that happened earlier by pressing a button on the dashboard:



Each event in the list is color-coded and has different weight. More reddish colors have bigger weight and need to be checked immediately. You can see detailed colors description by pressing on the **Legend** button.



The events list can be sorted by date, weight, color, etc.



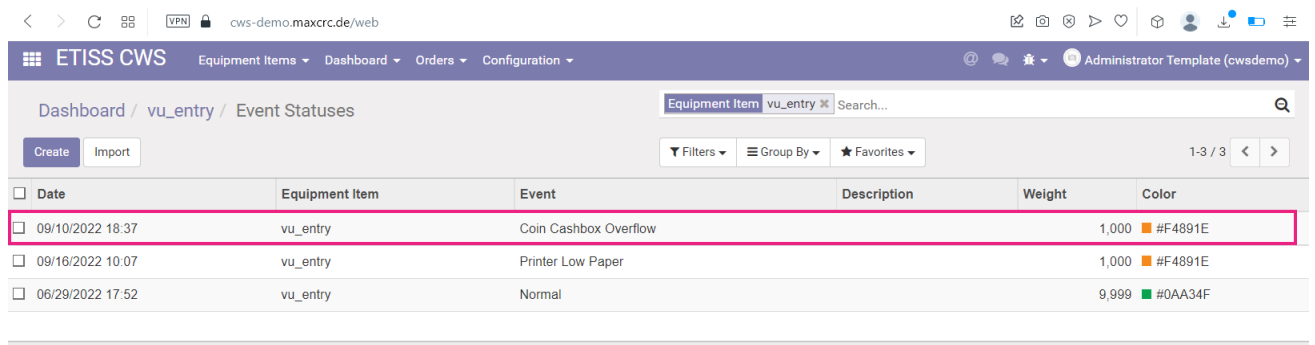
Dashboard / Events

Equipment Item: VU Maxcrc

<input type="checkbox"/>	Date	Equipment Item	Event	Description	Weight	Color
<input type="checkbox"/>	09/02/2022 17:46	VU Maxcrc	Connection Lost		1	#E81C2B
<input type="checkbox"/>	07/19/2022 16:27	VU Maxcrc	Rfid Reader Error		500	#F43F5E
<input type="checkbox"/>	09/01/2022 10:30	VU Maxcrc	Printer Low Paper		500	#F43F5E
<input type="checkbox"/>	07/19/2022 16:27	VU Maxcrc	Banknote Reader Error		500	#F43F5E
<input type="checkbox"/>	07/19/2022 16:27	VU Maxcrc	Hopper 2 Error		1,000	#F4891E
<input type="checkbox"/>	07/19/2022 16:27	VU Maxcrc	Hopper 3 Error		1,000	#F4891E
<input type="checkbox"/>	07/19/2022 16:27	VU Maxcrc	Banknote Acceptor Is Not Available		1,000	#F4891E
<input type="checkbox"/>	06/29/2022 17:55	VU Maxcrc	Normal		9,999	#0AA34F

## Muted events

Sometimes you don't want to see a particular event in the list of current events and you want to simply hide it. The ETISS ERP system allows to do that. Let's say that we know that our coin cashbox is in overflow state and we don't want to see this event in the list.

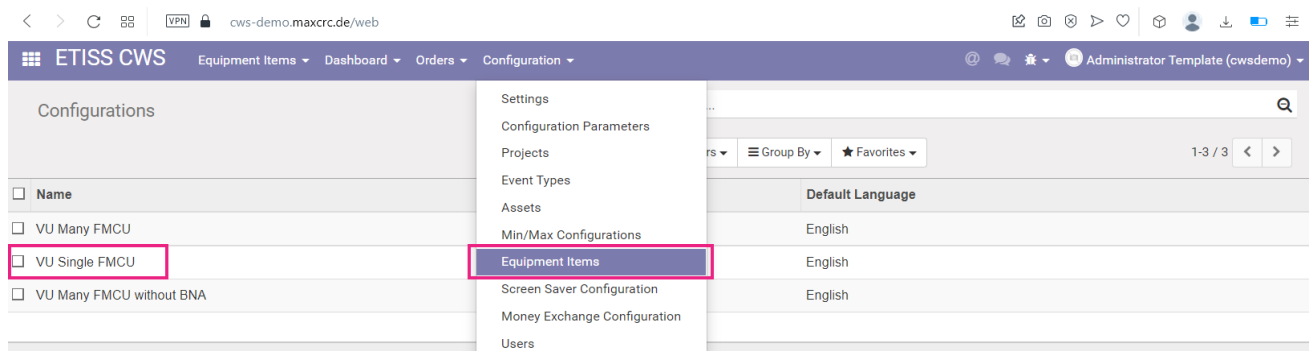


Dashboard / vu\_entry / Event Statuses

Equipment Item: vu\_entry

<input type="checkbox"/>	Date	Equipment Item	Event	Description	Weight	Color
<input type="checkbox"/>	09/10/2022 18:37	vu_entry	Coin Cashbox Overflow		1,000	#F4891E
<input type="checkbox"/>	09/16/2022 10:07	vu_entry	Printer Low Paper		1,000	#F4891E
<input type="checkbox"/>	06/29/2022 17:52	vu_entry	Normal		9,999	#0AA34F

To do this, first, open the **VU - FMCU** configuration by going into: **Main menu/ETISS CWS/Configuration/Equipment items** and select a configuration that your vending unit is currently using. For example, we'll take **VU Single FMCU** configuration.

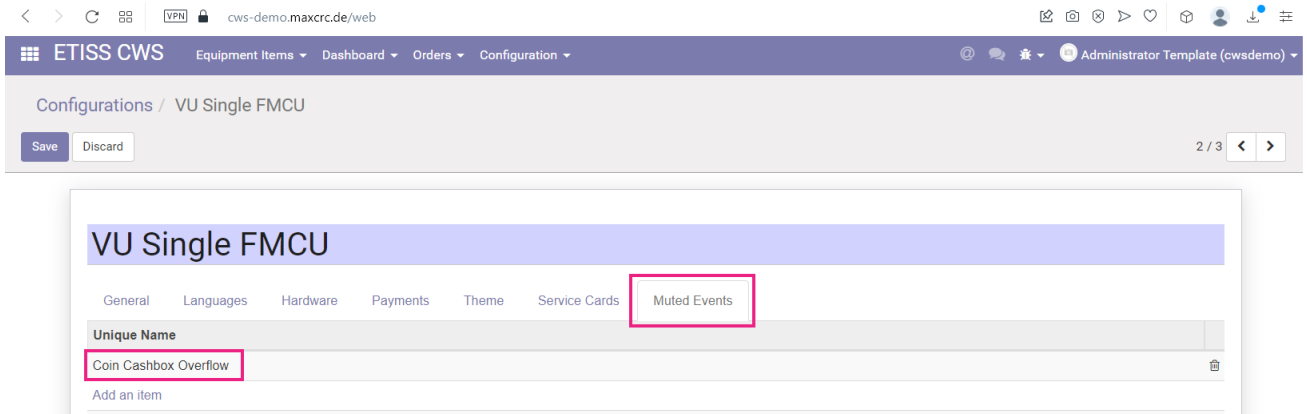


Configurations

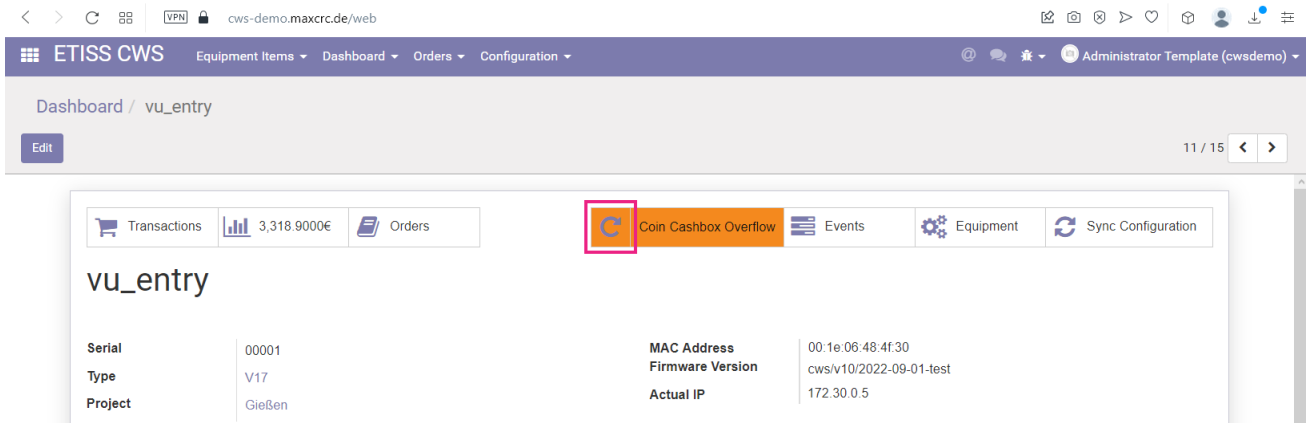
<input type="checkbox"/>	Name
<input type="checkbox"/>	VU Many FMCU
<input type="checkbox"/>	VU Single FMCU
<input type="checkbox"/>	VU Many FMCU without BNA

- Settings
- Configuration Parameters
- Projects
- Event Types
- Assets
- Min/Max Configurations
- Equipment Items
- Screen Saver Configuration
- Money Exchange Configuration
- Users

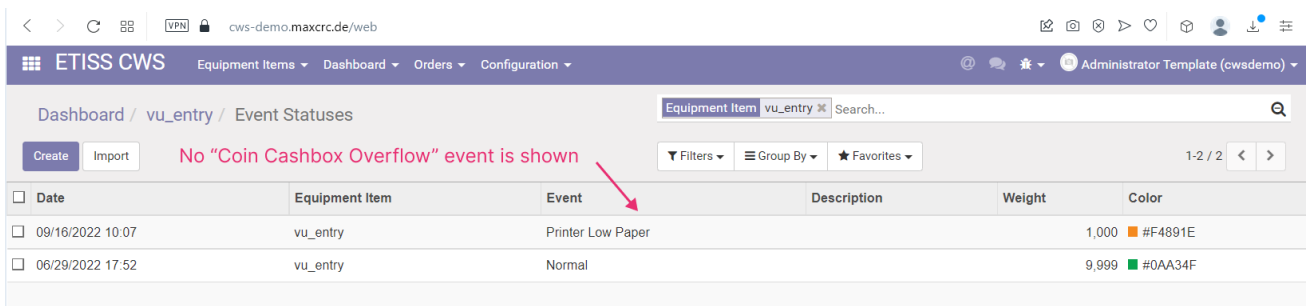
In the configuration navigate to the **Muted events** tab and add an event or a group of events that you don't want to see in the list of current events.



Save the configuration and reload events on the VU instance.

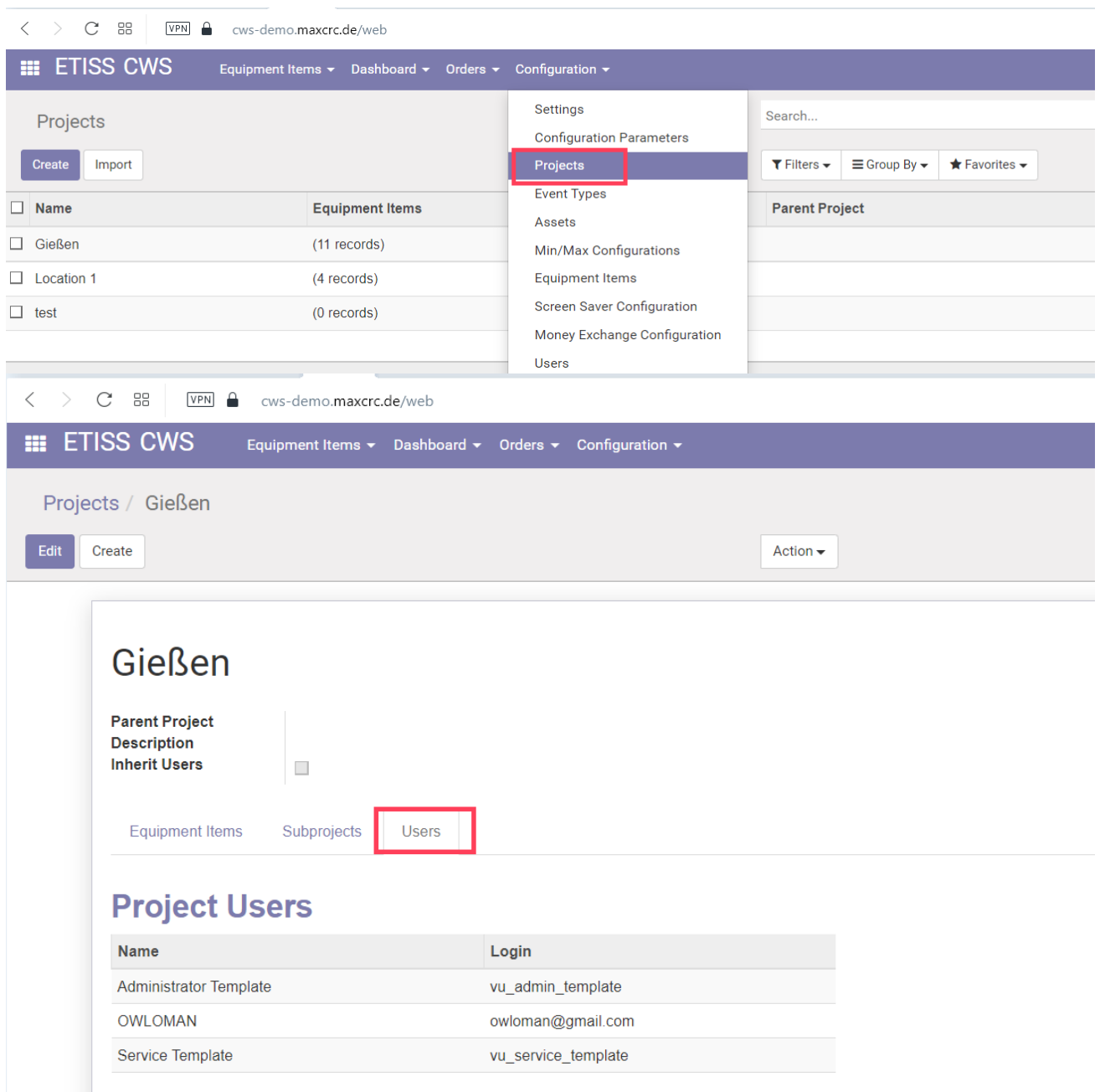


The event will disappear from the dashboard and current events list.



## Projects

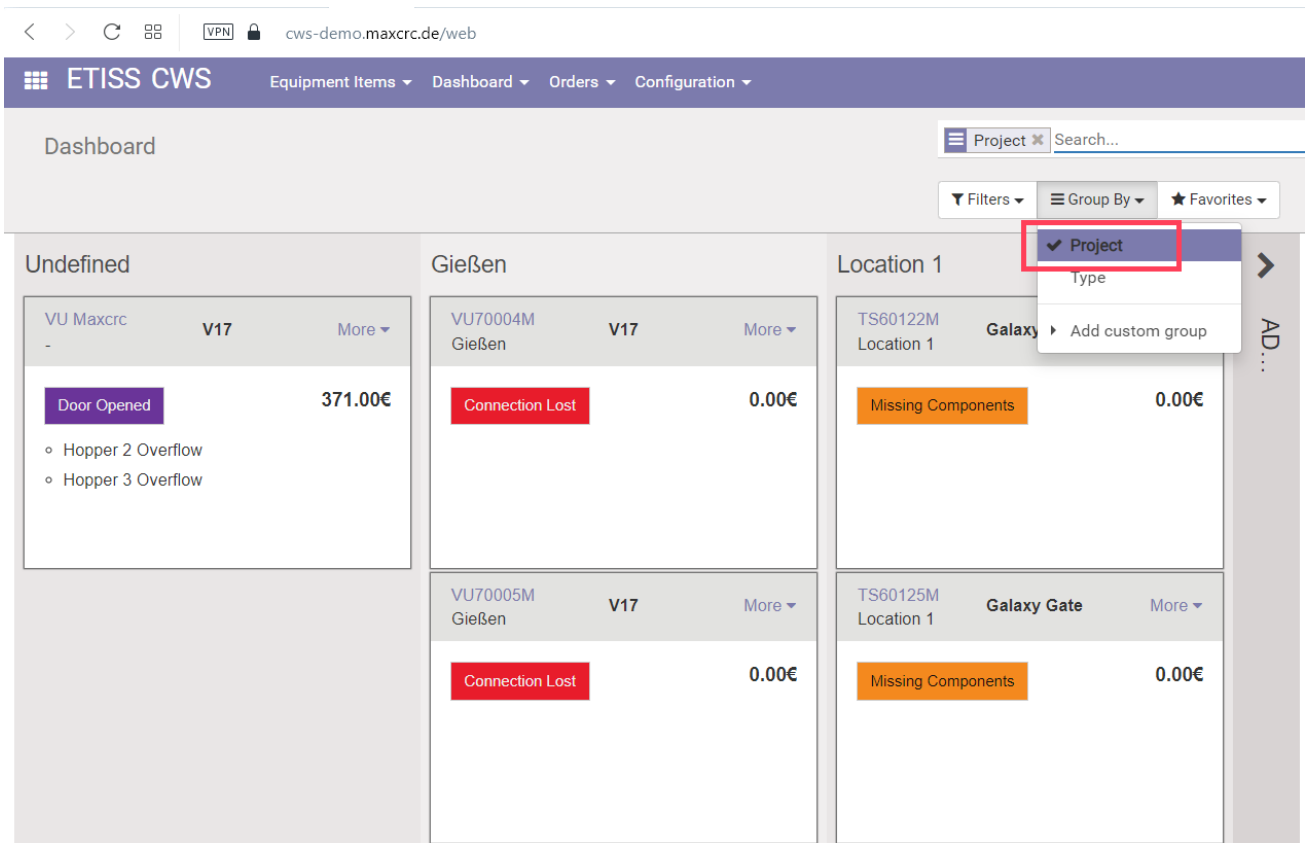
Each equipment item can belong to a certain project. You can configure projects in **Etiss CWS** -> **Configuration** -> **Projects** menu. Once you add an item to a project, you can limit visibility of the project items for certain users by assigning a user to the project. After that, each user will be able to see and work only with equipment items that belong to a certain project.



The image shows two screenshots of the ETISS CWS web application. The top screenshot displays the 'Configuration' menu, where the 'Projects' option is highlighted with a red box. The bottom screenshot shows the 'Gießen' project details page, where the 'Users' tab is highlighted with a red box. The 'Project Users' table is visible below the tabs.

Name	Login
Administrator Template	vu_admin_template
OWLOMAN	owloman@gmail.com
Service Template	vu_service_template

There's also a nice ability to group equipment items by their project or type.



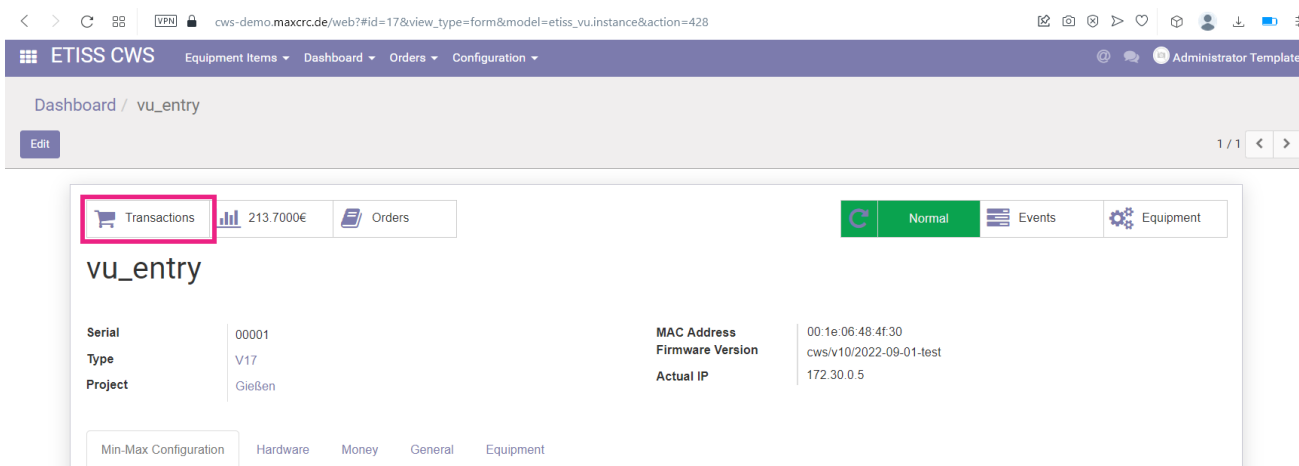
## VU TABS AND PROPERTIES

When you click on Vending Unit from the dashboard, you'll see a tabbed page with it's detailed properties. At first you'll see the most common properties of the VU such as:

- **Serial:** VU serial number
- **Type:** The VU type. There are number of various VU types such as V17, V21, etc.
- **Project:** Project to which this VU is assigned
- **MAC Address:** MAC address of the VU
- **Firmware version:** This shows the current firmware version of the device
- **Actual IP:** If the device has a real network IP address, it will be displayed here

## Transactions button

This buttons shows all transactions that happened on the VU.

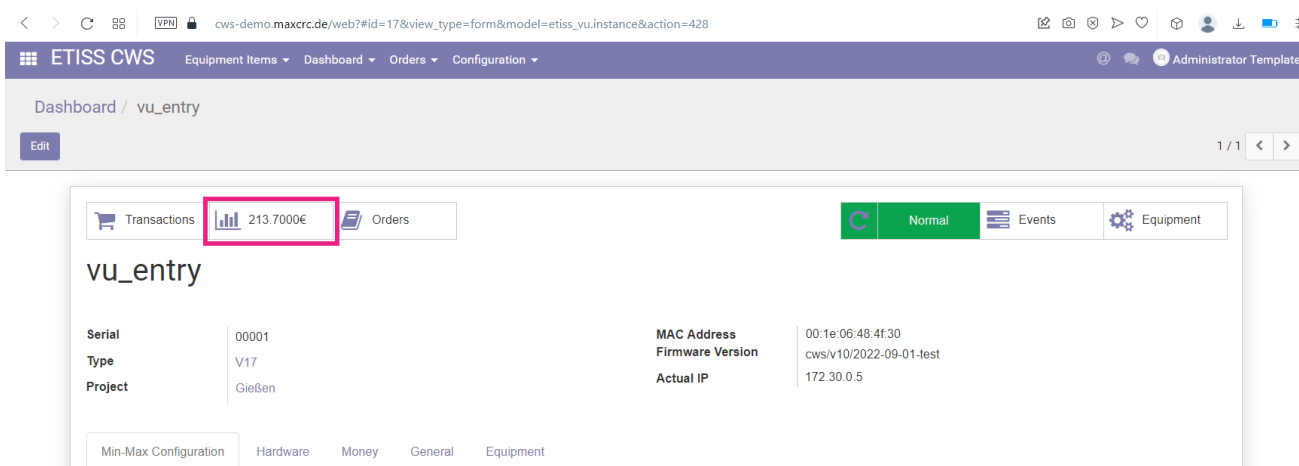


You can see here the type of transaction, related money status and other information.

Equipment Item	Date	VU Date	Transaction type	Transaction money	Discrepancy money	Begin Total Money	End Total Money	Money Status Begin ID	Money Status End ID	Info
<input type="checkbox"/> vu_entry	09/02/2022 09:42	09/02/2022 09:41	Reboot	0.00	-1,962.00	18,940.43	16,978.43	147	0	
<input type="checkbox"/> vu_entry	09/01/2022 15:22	09/01/2022 15:22	PaymentCash	0.90	0.00	18,939.53	18,940.43	129	132	
<input type="checkbox"/> vu_entry	09/01/2022 11:11	09/01/2022 11:11	Reboot	0.00	1,000.00	17,939.53	18,939.53	128	0	

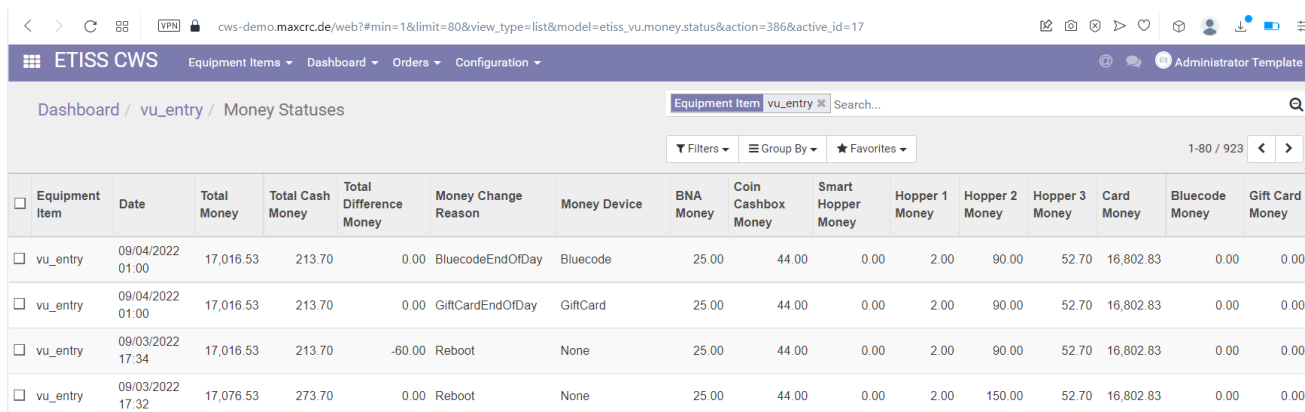
## Money statuses button

If you press this button, you'll be presented with the detailed information about money in the VU.



If money amount changes on VU a record is added here, so you won't miss any money-related event on this VU.





Dashboard / vu\_entry / Money Statuses

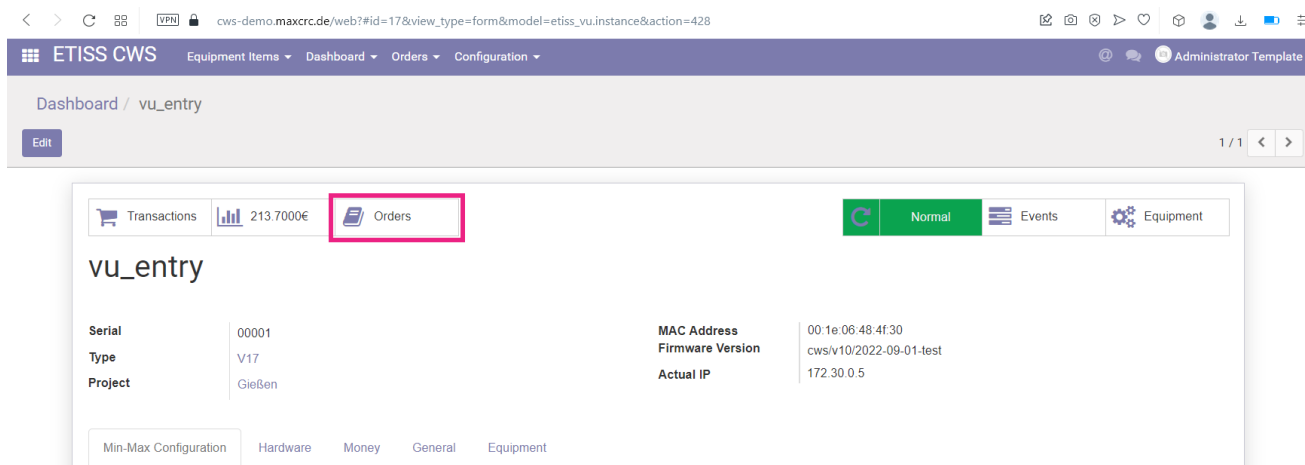
Equipment Item **vu\_entry** Search...

Filters Group By Favorites 1-80 / 923

Equipment Item	Date	Total Money	Total Cash Money	Total Difference Money	Money Change Reason	Money Device	BNA Money	Coin Cashbox Money	Smart Hopper Money	Hopper 1 Money	Hopper 2 Money	Hopper 3 Money	Card Money	Bluecode Money	Gift Card Money
<input type="checkbox"/> vu_entry	09/04/2022 01:00	17,016.53	213.70	0.00	BluecodeEndOfDay	Bluecode	25.00	44.00	0.00	2.00	90.00	52.70	16,802.83	0.00	0.00
<input type="checkbox"/> vu_entry	09/04/2022 01:00	17,016.53	213.70	0.00	GiftCardEndOfDay	GiftCard	25.00	44.00	0.00	2.00	90.00	52.70	16,802.83	0.00	0.00
<input type="checkbox"/> vu_entry	09/03/2022 17:34	17,016.53	213.70	-60.00	Reboot	None	25.00	44.00	0.00	2.00	90.00	52.70	16,802.83	0.00	0.00
<input type="checkbox"/> vu_entry	09/03/2022 17:32	17,076.53	273.70	0.00	Reboot	None	25.00	44.00	0.00	2.00	150.00	52.70	16,802.83	0.00	0.00

## Orders button

This button displays a table with the list of orders that were created on the VU.



Dashboard / vu\_entry

Edit 1 / 1

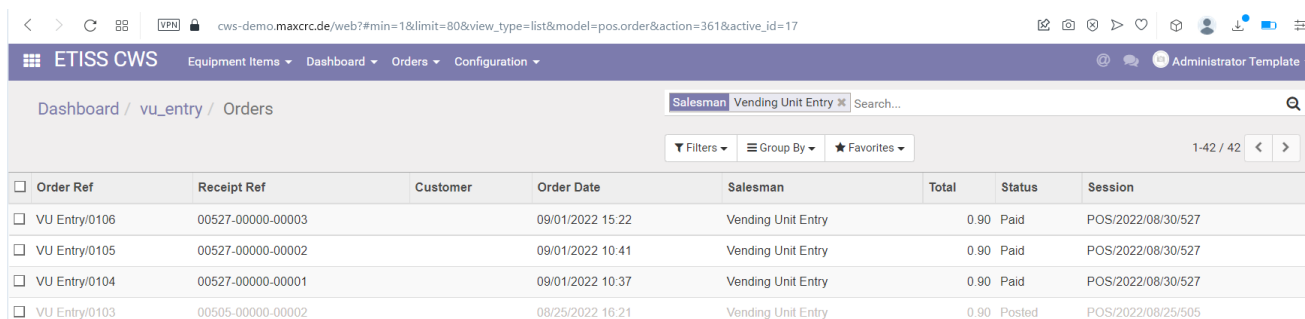
Transactions 213.7000€ **Orders** Normal Events Equipment

**vu\_entry**

Serial	00001	MAC Address	00:1e:06:48:4f:30
Type	V17	Firmware Version	cws/v10/2022-09-01-test
Project	Gießen	Actual IP	172.30.0.5

Min-Max Configuration Hardware Money General Equipment

If you open any order here, you'll get detailed information about it such as date, amount of money paid, etc.



Dashboard / vu\_entry / Orders

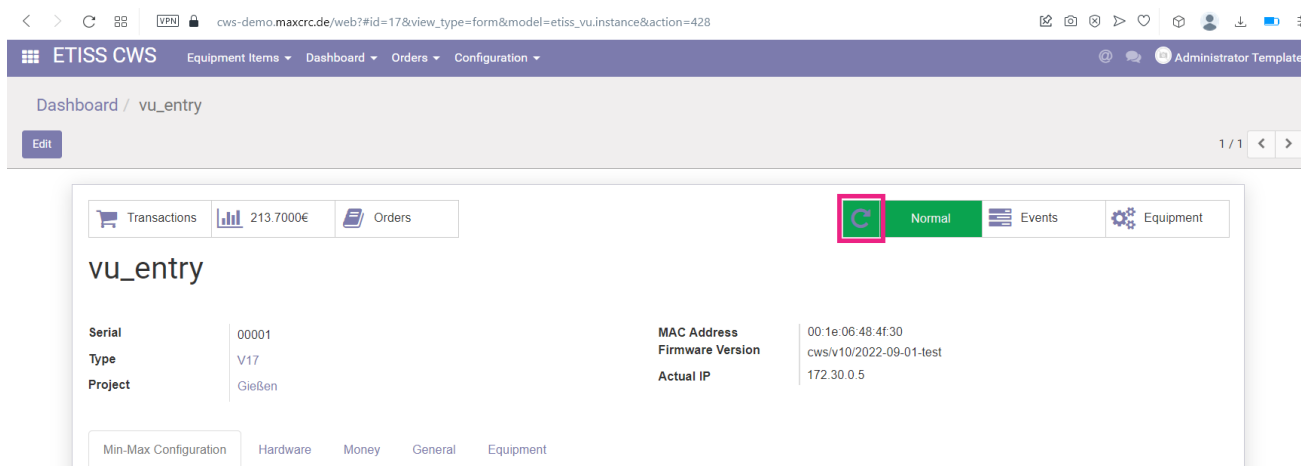
Salesman **Vending Unit Entry** Search...

Filters Group By Favorites 1-42 / 42

Order Ref	Receipt Ref	Customer	Order Date	Salesman	Total	Status	Session
<input type="checkbox"/> VU Entry/0106	00527-00000-00003		09/01/2022 15:22	Vending Unit Entry	0.90	Paid	POS/2022/08/30/527
<input type="checkbox"/> VU Entry/0105	00527-00000-00002		09/01/2022 10:41	Vending Unit Entry	0.90	Paid	POS/2022/08/30/527
<input type="checkbox"/> VU Entry/0104	00527-00000-00001		09/01/2022 10:37	Vending Unit Entry	0.90	Paid	POS/2022/08/30/527
<input type="checkbox"/> VU Entry/0103	00505-00000-00002		08/25/2022 16:21	Vending Unit Entry	0.90	Posted	POS/2022/08/25/505

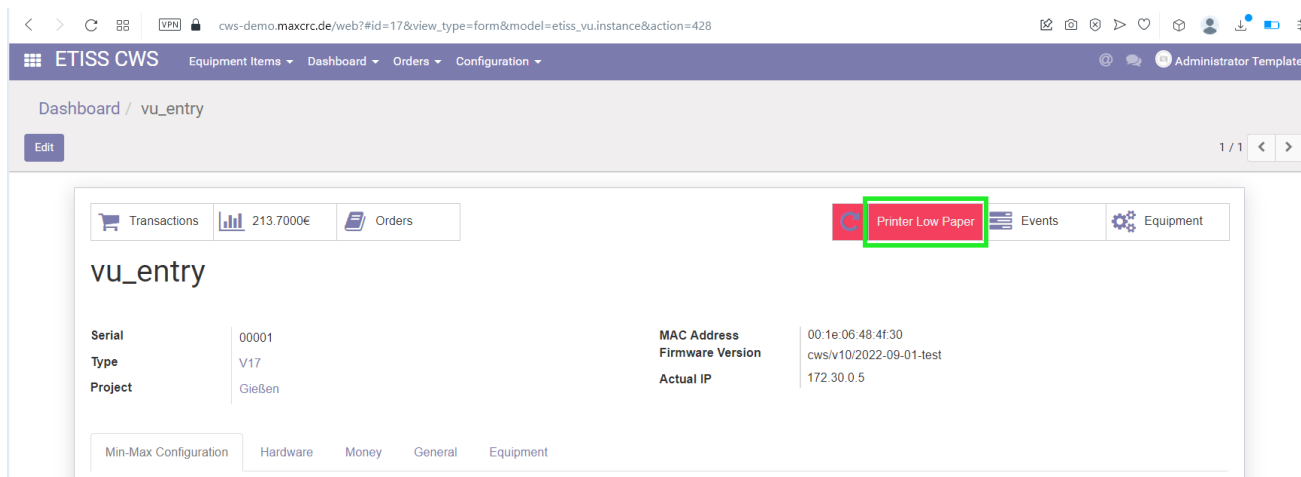
## Reload events button

Sometimes a situation can occur when a Vending Unit displays wrong information about it's current state. You can press this button and the system will re-request current information about Vending Unit status and events.

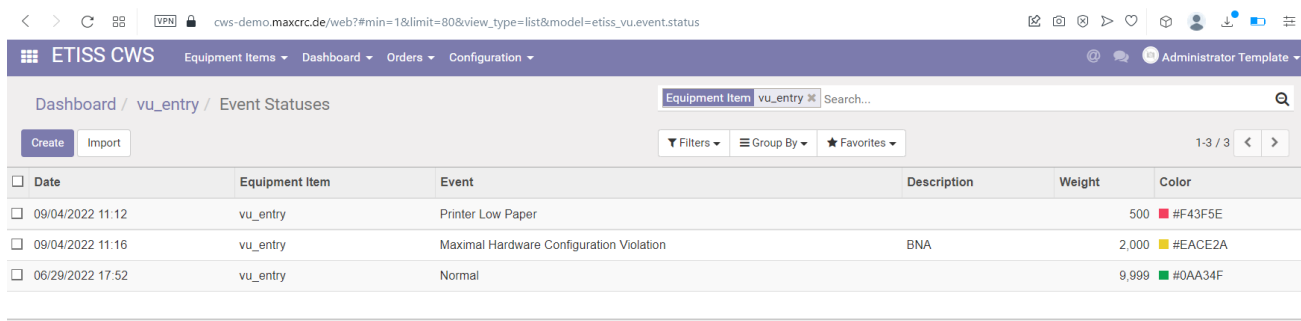


## Current events button

When something happens with the VU, you'll see most significant problem displayed on this button.

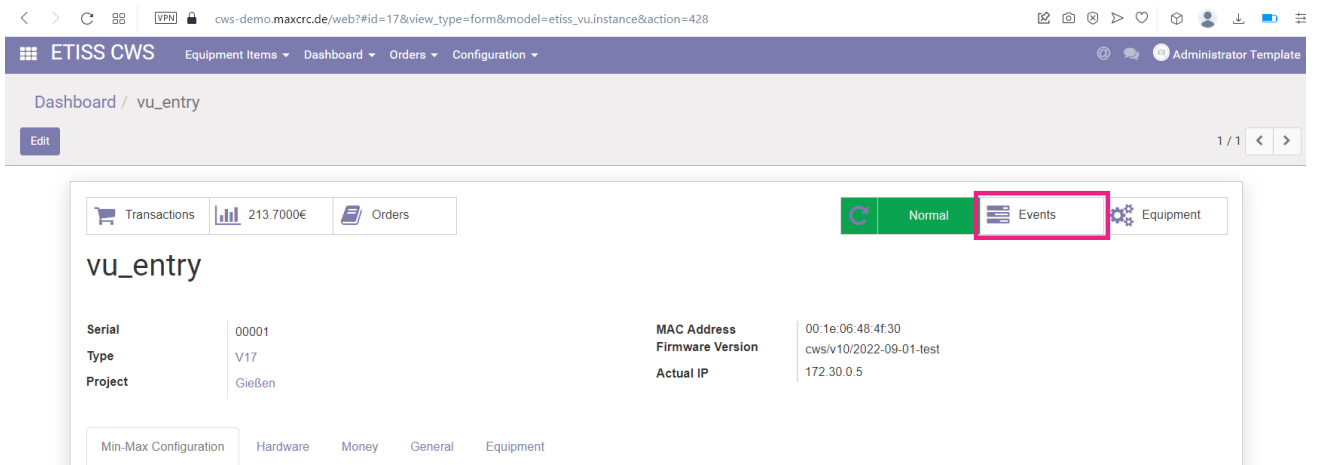


After pressing this button you'll see a list of current events that happened on the VU and they will be ordered by their weight.



## Events button

This button shows the complete history of events that happened on the particular VU.



ETISS CWS Equipment Items Dashboard Orders Configuration Administrator Template

Dashboard / vu\_entry

1 / 1

Transactions 213.7000€ Orders

Normal Events Equipment

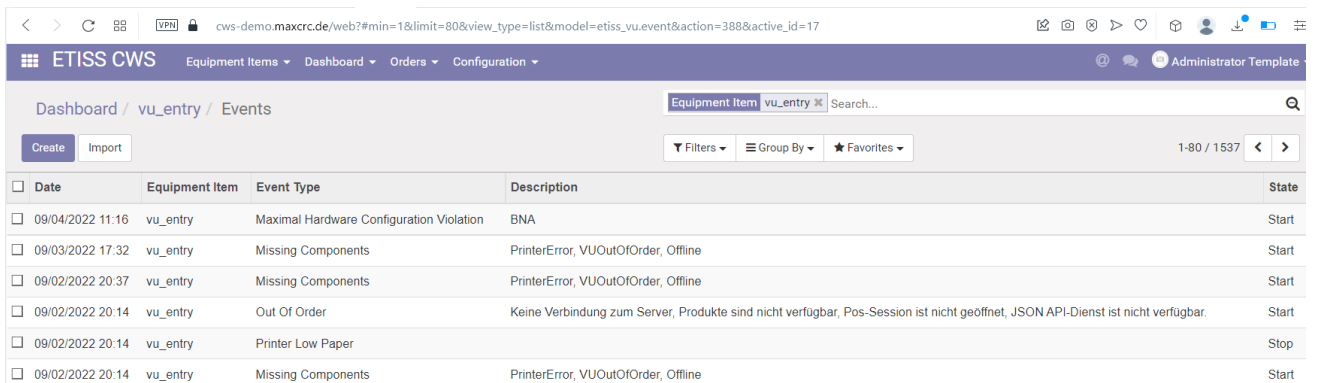
**vu\_entry**

Serial: 00001  
 Type: V17  
 Project: Gießen

MAC Address: 00:1e:06:48:4f:30  
 Firmware Version: cws/v10/2022-09-01-test  
 Actual IP: 172.30.0.5

Min-Max Configuration Hardware Money General Equipment

If, for example, some error has a recurring character, you can find it in the list and see detailed information about it and when it happened before.



ETISS CWS Equipment Items Dashboard Orders Configuration Administrator Template

Dashboard / vu\_entry / Events

Equipment Item vu\_entry Search...

Create Import

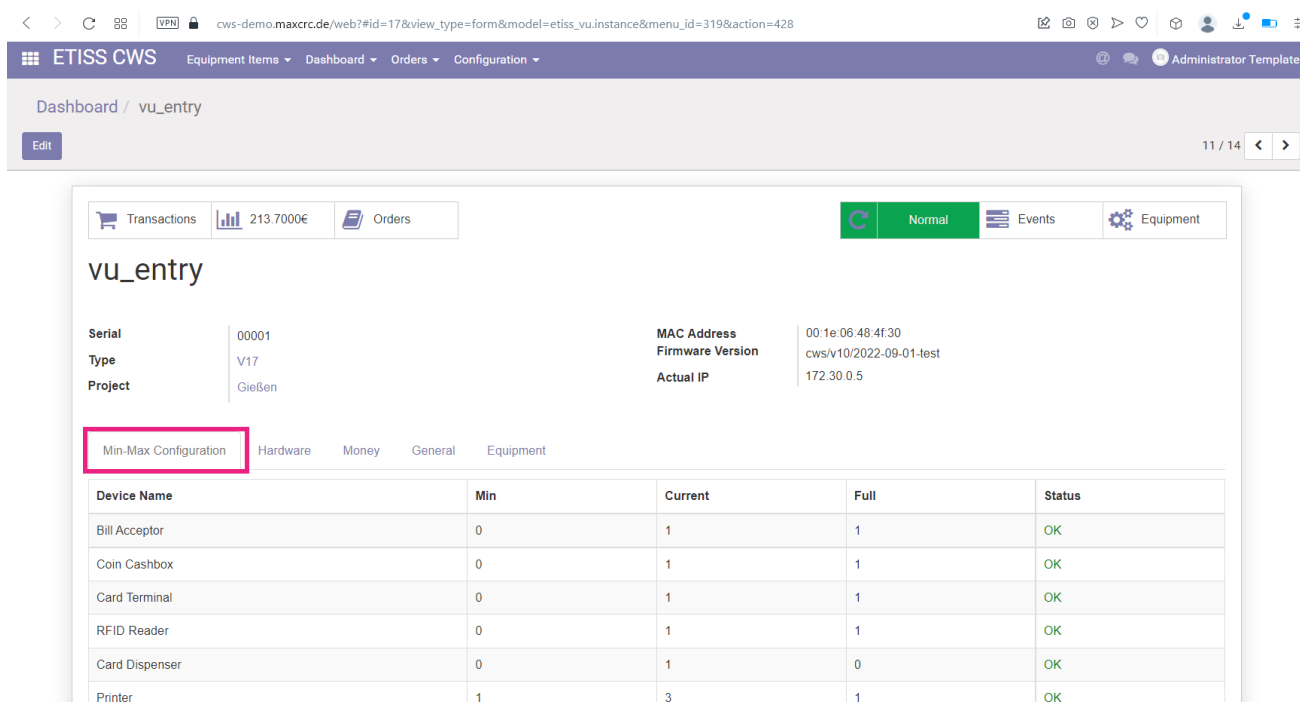
Filters Group By Favorites

1-80 / 1537

Date	Equipment Item	Event Type	Description	State
09/04/2022 11:16	vu_entry	Maximal Hardware Configuration Violation	BNA	Start
09/03/2022 17:32	vu_entry	Missing Components	PrinterError, VUOutOfOrder, Offline	Start
09/02/2022 20:37	vu_entry	Missing Components	PrinterError, VUOutOfOrder, Offline	Start
09/02/2022 20:14	vu_entry	Out Of Order	Keine Verbindung zum Server, Produkte sind nicht verfügbar, Pos-Session ist nicht geöffnet, JSON API-Dienst ist nicht verfügbar.	Start
09/02/2022 20:14	vu_entry	Printer Low Paper		Stop
09/02/2022 20:14	vu_entry	Missing Components	PrinterError, VUOutOfOrder, Offline	Start

## Min-Max configuration tab

This tab shows the minimal, current, and maximal amount of the equipment that can be installed on VU.



ETISS CWS Equipment Items Dashboard Orders Configuration Administrator Template

Dashboard / vu\_entry

Transactions 213.7000€ Orders

Normal Events Equipment

**vu\_entry**

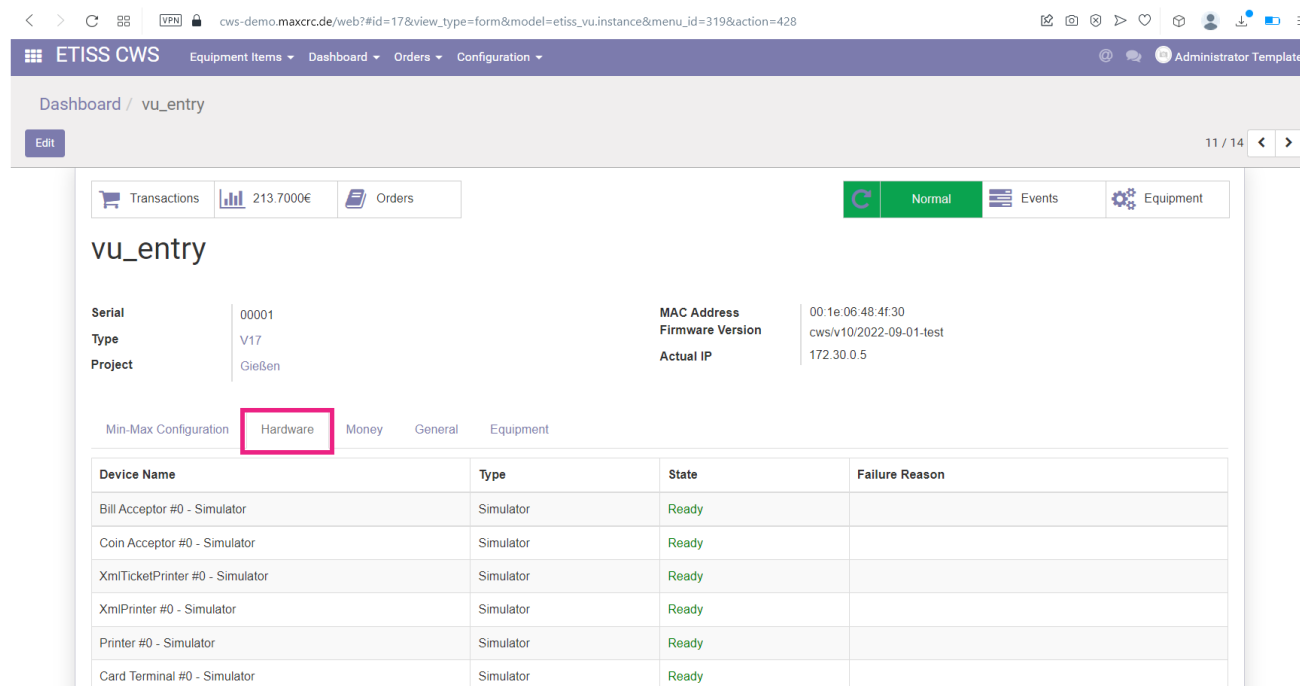
Serial: 00001    MAC Address: 00:1e:06:48:4f:30  
 Type: V17    Firmware Version: cws/v10/2022-09-01-test  
 Project: Gießen    Actual IP: 172.30.0.5

Min-Max Configuration Hardware Money General Equipment

Device Name	Min	Current	Full	Status
Bill Acceptor	0	1	1	OK
Coin Cashbox	0	1	1	OK
Card Terminal	0	1	1	OK
RFID Reader	0	1	1	OK
Card Dispenser	0	1	0	OK
Printer	1	3	1	OK

Each line represents a group of devices. For example, line **Hopper - | 1 | 3 | 3 |** says that in order to operate properly, this system needs minimum 1 hopper installed. Currently it has 3 hoppers and the maximum amount of hoppers it supports - 3. To the right you can also see a column which shows the current state of the device.

## Hardware tab



ETISS CWS Equipment Items Dashboard Orders Configuration Administrator Template

Dashboard / vu\_entry

Transactions 213.7000€ Orders

Normal Events Equipment

**vu\_entry**

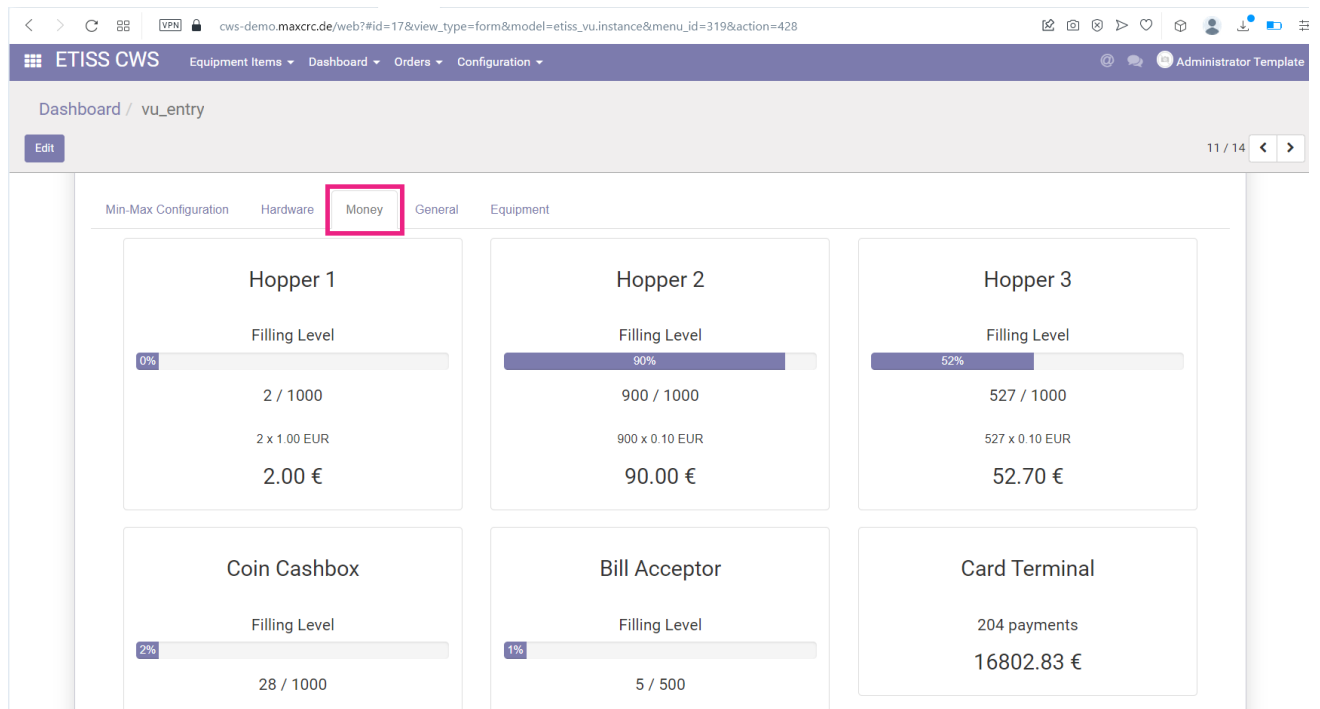
Serial: 00001    MAC Address: 00:1e:06:48:4f:30  
 Type: V17    Firmware Version: cws/v10/2022-09-01-test  
 Project: Gießen    Actual IP: 172.30.0.5

Min-Max Configuration Hardware Money General Equipment

Device Name	Type	State	Failure Reason
Bill Acceptor #0 - Simulator	Simulator	Ready	
Coin Acceptor #0 - Simulator	Simulator	Ready	
XmTicketPrinter #0 - Simulator	Simulator	Ready	
XmPrinter #0 - Simulator	Simulator	Ready	
Printer #0 - Simulator	Simulator	Ready	
Card Terminal #0 - Simulator	Simulator	Ready	

This tab shows the list of available hardware devices each on a separate line. Here you can see whether the given device is a simulator or a real device, state of each device and failure reason in case something happens with it.

## Money tab

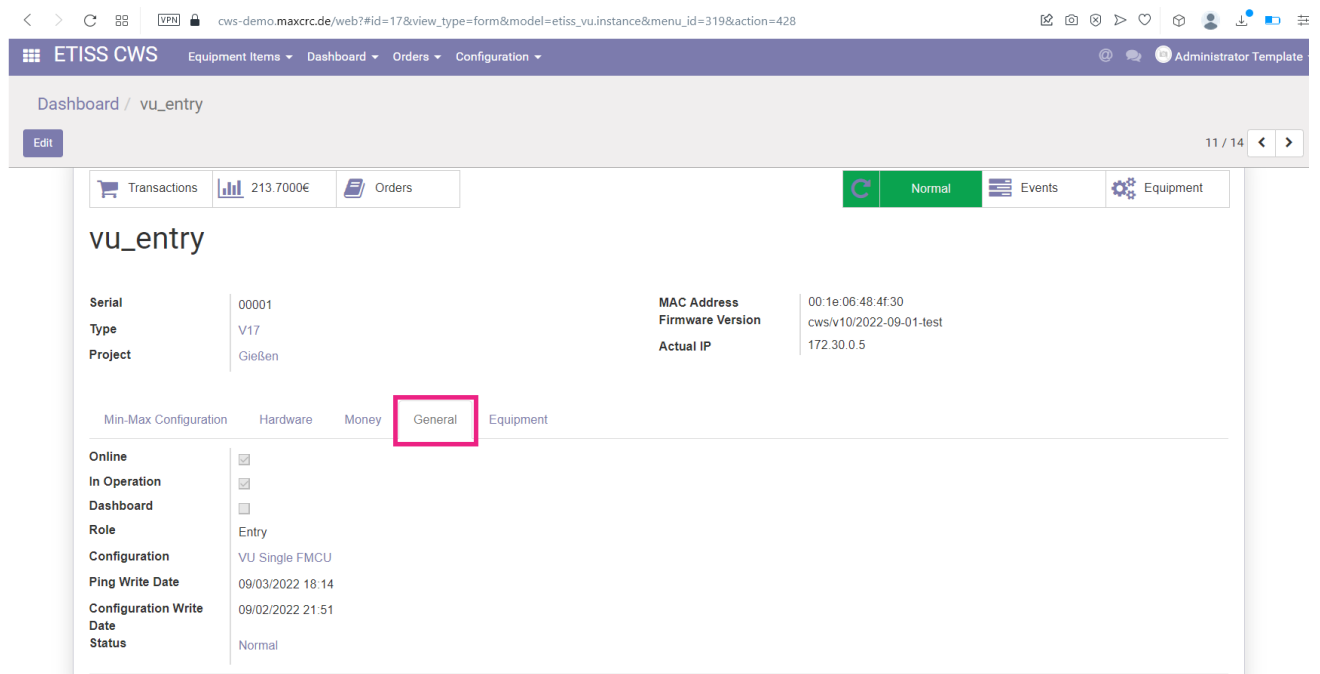


The screenshot shows the 'Money' tab in the ETISS CWS interface. The 'Money' tab is highlighted with a red box. The interface displays the following data for each device:

Device	Filling Level	Current / Limit	Accepted Denominations	Current Value
Hopper 1	0%	2 / 1000	2 x 1.00 EUR	2.00 €
Hopper 2	90%	900 / 1000	900 x 0.10 EUR	90.00 €
Hopper 3	52%	527 / 1000	527 x 0.10 EUR	52.70 €
Coin Cashbox	2%	28 / 1000		
Bill Acceptor	1%	5 / 500		
Card Terminal			204 payments	16802.83 €

On this tab you can see the state of money devices that deal with money directly, such as Hoppers, Coin Cashboxes, Bill Acceptors, Card Terminal. Each box represents a device. Here you can monitor filling levels, limits, and money denominations that are accepted by each device. From this tab you can't change anything, just see the current state of each device.

## General tab



The screenshot shows the ETISS CWS web interface. The main content area displays the 'vu\_entry' form with the following fields:

Serial	00001	MAC Address	00:1e:06:48:4f:30
Type	V17	Firmware Version	cws/v10/2022-09-01-test
Project	Gießen	Actual IP	172.30.0.5

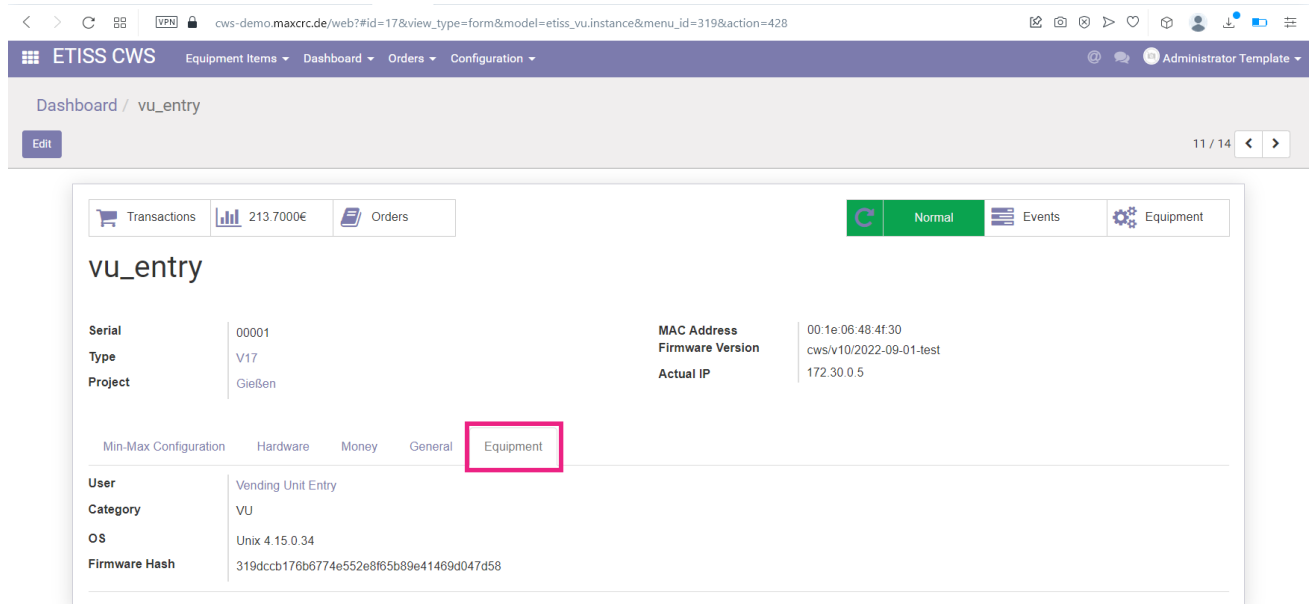
Below the fields, there are tabs for 'Min-Max Configuration', 'Hardware', 'Money', 'General' (highlighted with a red box), and 'Equipment'. The 'General' tab is active, showing the following fields:

Online	<input checked="" type="checkbox"/>
In Operation	<input checked="" type="checkbox"/>
Dashboard	<input type="checkbox"/>
Role	Entry
Configuration	VU Single FMCU
Ping Write Date	09/03/2022 18:14
Configuration Write Date	09/02/2022 21:51
Status	Normal

On this tab you can see general information about the given Vending Unit such as:

- **Online:** Current network status of the VU (Online/Offline)
- **In Operation:** Currently this parameter is not user. Left here for compatibility
- **Dashboard:** If checked, creates a dashboard when VU is created
- **Role:** This determines whether this vending unit is located at an entrance or exit respectively (Entry/Exit)
- **Configuration:** A VU configuration
- **Ping Write Date:** The last time when VU sent ping to the Odoo server
- **Configuration Write Date:** The last time when VU configuration has been changed
- **Status:** Current status of the VU

## Equipment tab



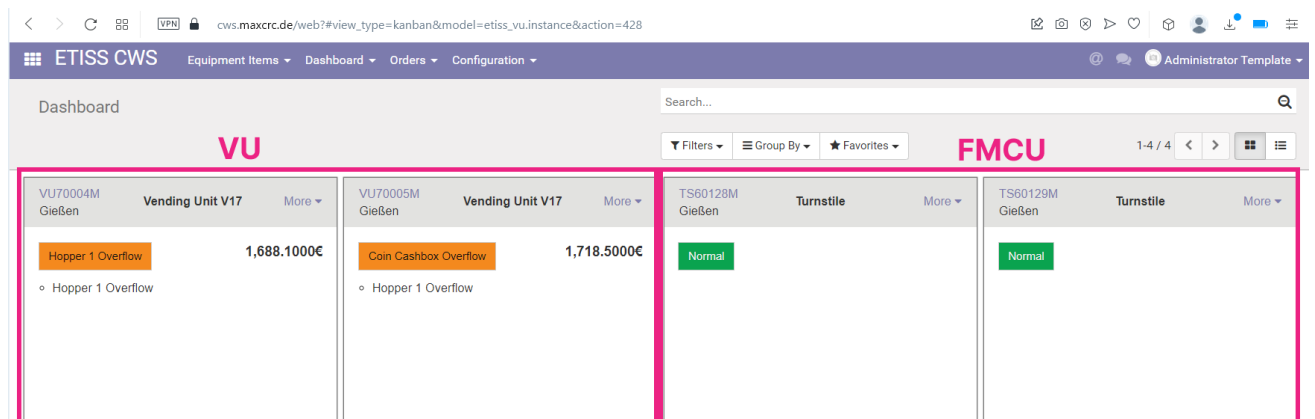
The screenshot shows the 'vu\_entry' page in the ETISS CWS interface. The 'Equipment' tab is highlighted with a red box. The page displays various fields for the device, including Serial, Type, Project, MAC Address, Firmware Version, and Actual IP. Below these fields, there are tabs for 'Min-Max Configuration', 'Hardware', 'Money', 'General', and 'Equipment' (which is selected). The 'Equipment' tab shows details for the 'User' (Vending Unit Entry), 'Category' (VU), 'OS' (Unix 4.15.0.34), and 'Firmware Hash' (319dccb176b6774e552e8f65b89e41469d047d58).

This tab shows equipment-related information such as:

- **User:** A related user that is used for VU authentication
- **Category:** The device category. Can be a VU or a Turnstile
- **OS:** Operation System of the device
- **Firmware Hash:** The hash of the software version that is currently installed on the device

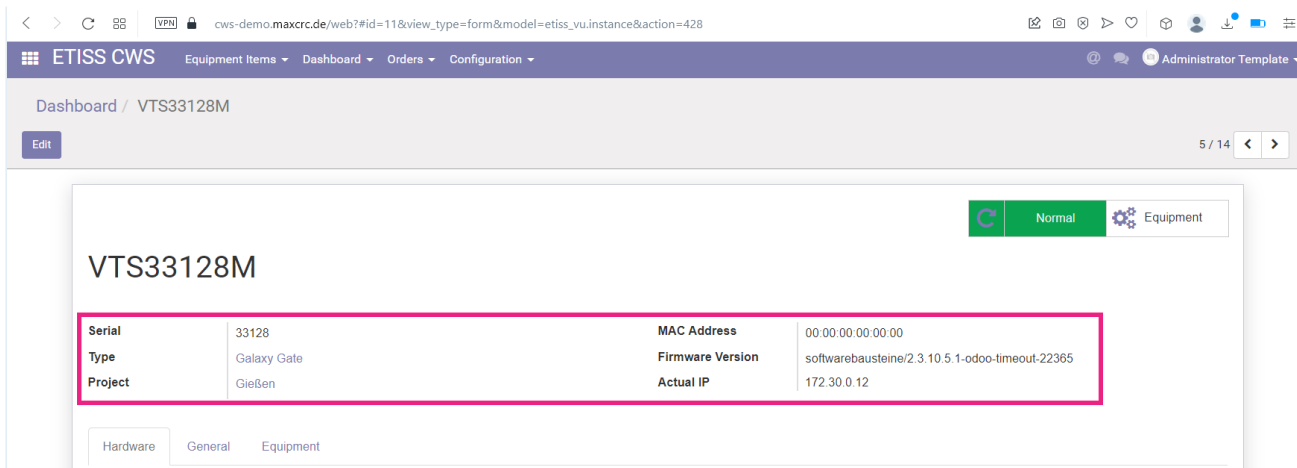
## FMCU TABS AND PROPERTIES

Unlike VU, FMCU has different set of tabs and additional button. They're typically named as **TS...** which means (turnstile).



The screenshot shows the ETISS CWS dashboard. It features a search bar and navigation tabs for 'VU' and 'FMCU'. Below the dashboard, there are four cards representing different equipment items. The first two cards are for Vending Units (VU) and the last two are for Turnstiles (FMCU). The VU cards show 'Hopper 1 Overflow' with a value of 1,688.1000€ and 'Coin Cashbox Overflow' with a value of 1,718.5000€. The FMCU cards show 'Normal' status. The entire dashboard area is highlighted with a red border.

When you click on FMCU from the dashboard, you'll see a tabbed page with it's detailed properties. At first you'll see the most common properties of the VU such as:



ETISS CWS Equipment Items Dashboard Orders Configuration Administrator Template

Dashboard / VTS33128M

Edit 5 / 14

VTS33128M

Normal Equipment

Serial	33128	MAC Address	00:00:00:00:00:00
Type	Galaxy Gate	Firmware Version	softwarebausteine/2.3.10.5.1-odoo-timeout-22365
Project	Gießen	Actual IP	172.30.0.12

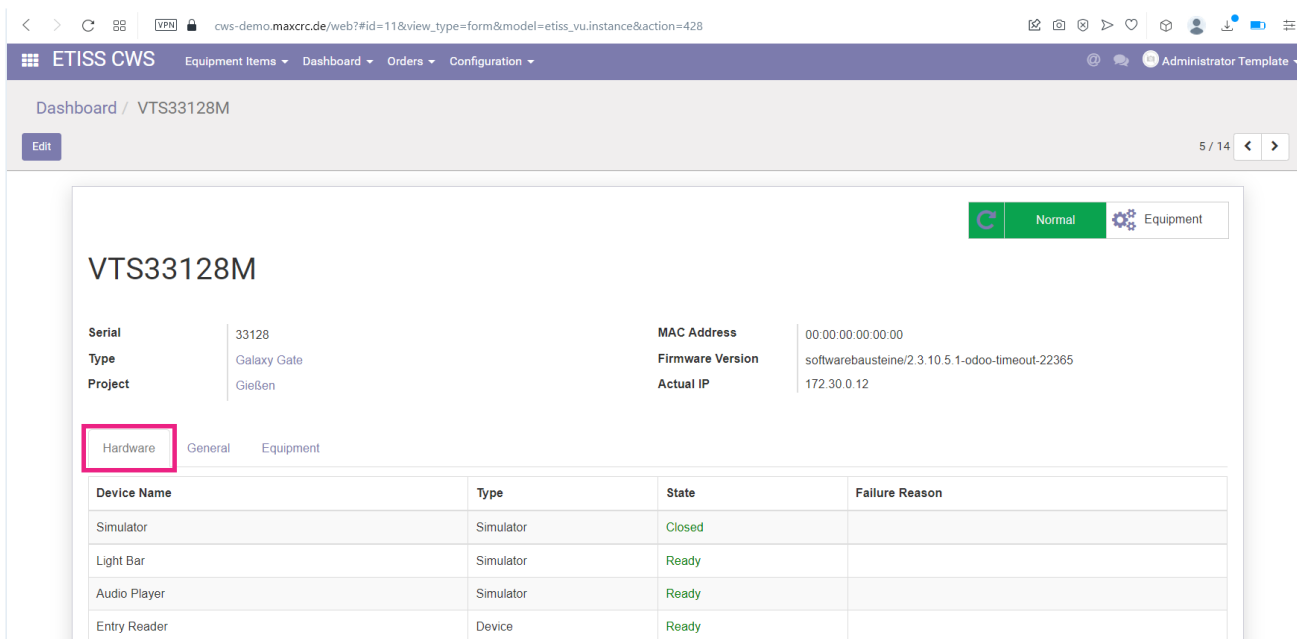
Hardware General Equipment

- **Serial:** FMCU serial number
- **Type:** The FMCU type. There are number of various FMCU types such as Turnstile...
- **Project:** Project to which this FMCU is assigned
- **MAC Address:** MAC address of the FMCU
- **Firmware version:** This shows the current firmware version of the device
- **Actual IP:** If the device has a real network IP address, it will be displayed here

When you open FMCU properties, you'll notice that it has less tabs than VU. It has only the following tabs: **Hardware**, **General** and **Equipment**. Below is a description of each of these tabs.

## Hardware FMCU tab

This tab lists hardware devices that are installed on the FMCU. Here you can see whether the given device is a simulator or a real device, state of each device and failure reason in case something happens with it.



ETISS CWS Equipment Items Dashboard Orders Configuration Administrator Template

Dashboard / VTS33128M

Edit 5 / 14

VTS33128M

Normal Equipment

Serial	33128	MAC Address	00:00:00:00:00:00
Type	Galaxy Gate	Firmware Version	softwarebausteine/2.3.10.5.1-odoo-timeout-22365
Project	Gießen	Actual IP	172.30.0.12

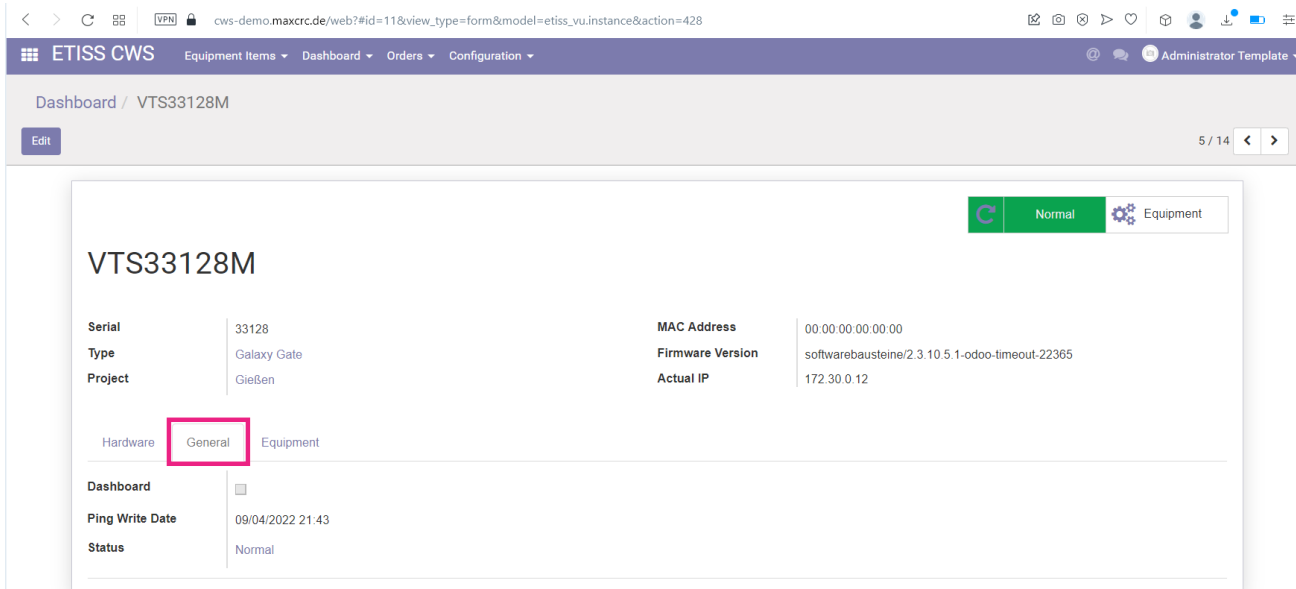
Hardware General Equipment

Device Name	Type	State	Failure Reason
Simulator	Simulator	Closed	
Light Bar	Simulator	Ready	
Audio Player	Simulator	Ready	
Entry Reader	Device	Ready	



## General FMCU tab

On this tab, same as on VU's tab you can see general device parameters such as **Status** and **Ping write date**.



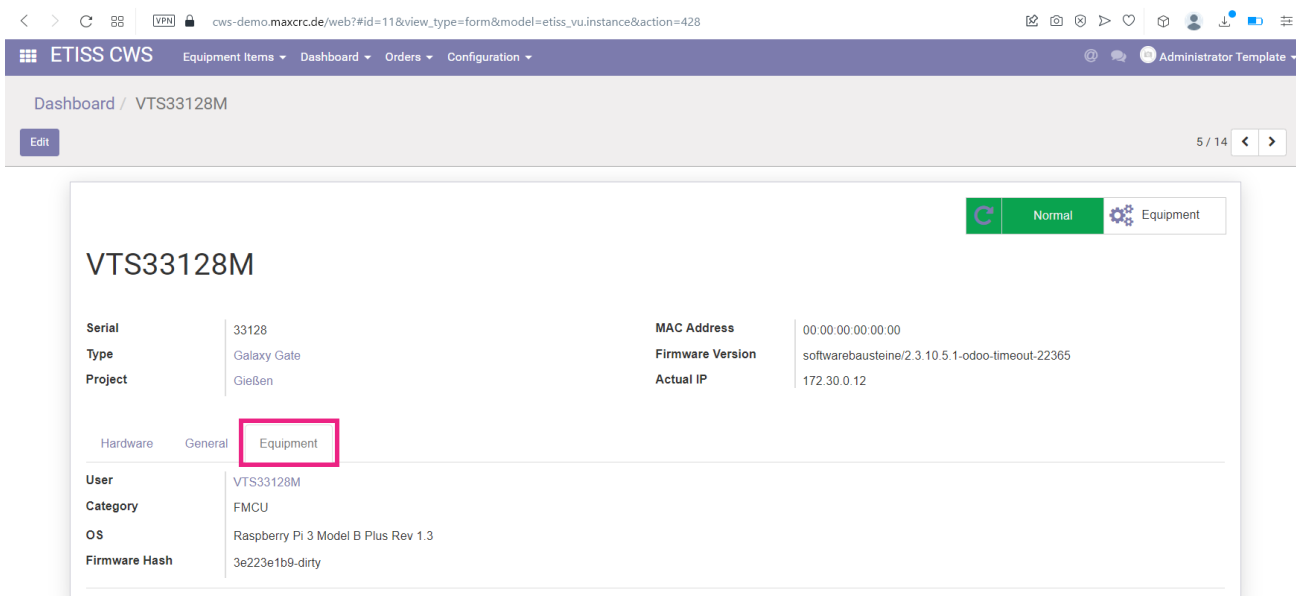
The screenshot shows the ETISS CWS interface for device VTS33128M. The 'General' tab is selected and highlighted with a red box. The interface displays the following information:

Serial	33128	MAC Address	00:00:00:00:00:00
Type	Galaxy Gate	Firmware Version	softwarebausteine/2.3.10.5.1-odoo-timeout-22365
Project	Gießen	Actual IP	172.30.0.12

Below the main information, there are tabs for 'Hardware', 'General', and 'Equipment'. The 'General' tab is active. Underneath, there is a 'Dashboard' checkbox (unchecked), a 'Ping Write Date' of '09/04/2022 21:43', and a 'Status' of 'Normal'.

- **Dashboard:** If checked, creates a dashboard when FMCU is created
- **Status:** Current status of the FMCU
- **Ping write date:** The last time when FMCU sent ping to the Odoo server

## Equipment FMCU tab



The screenshot shows the ETISS CWS interface for device VTS33128M. The 'Equipment' tab is selected and highlighted with a red box. The interface displays the following information:

Serial	33128	MAC Address	00:00:00:00:00:00
Type	Galaxy Gate	Firmware Version	softwarebausteine/2.3.10.5.1-odoo-timeout-22365
Project	Gießen	Actual IP	172.30.0.12

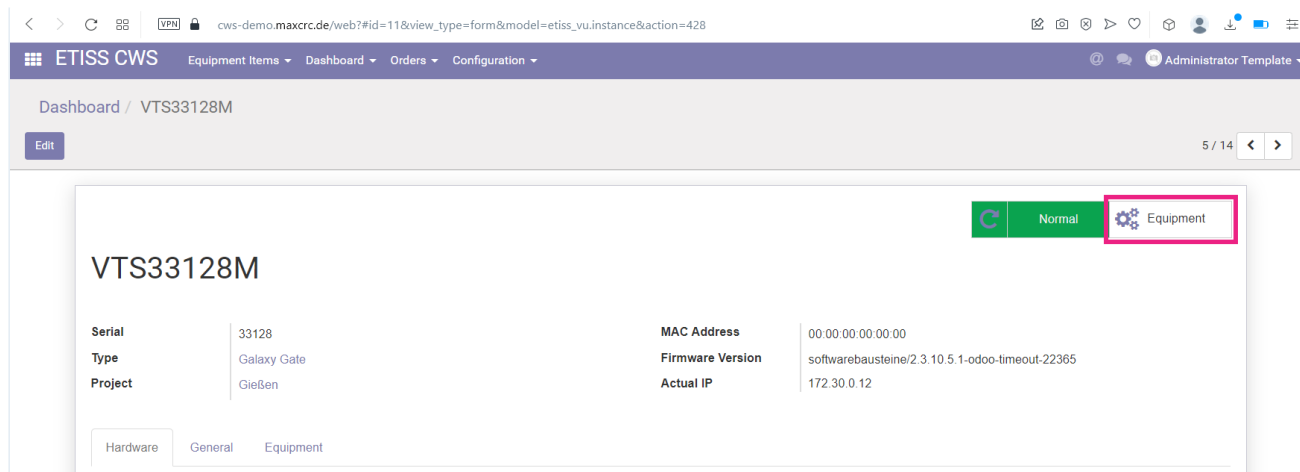
Below the main information, there are tabs for 'Hardware', 'General', and 'Equipment'. The 'Equipment' tab is active. Underneath, there is a 'User' field with 'VTS33128M', a 'Category' of 'FMCU', an 'OS' of 'Raspberry Pi 3 Model B Plus Rev 1.3', and a 'Firmware Hash' of '3e223e1b9-dirty'.

This tab shows equipment-related information of FMCU such as:

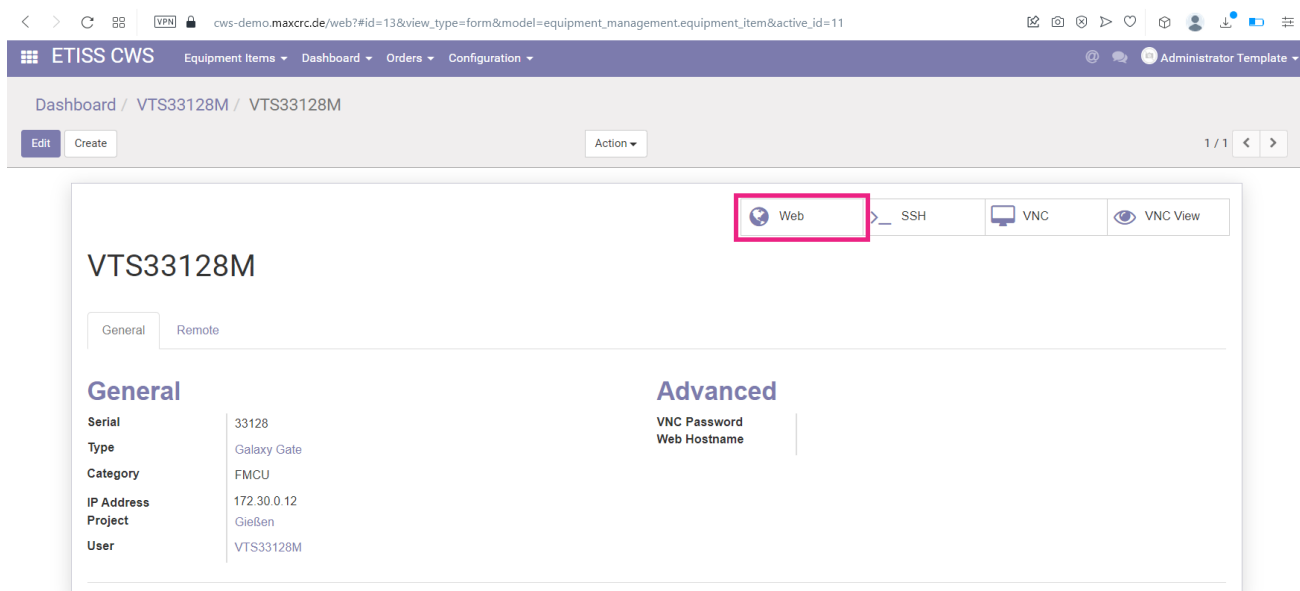
- **User:** A related user that is used for FMCU authentication
- **Category:** The device category. Can be a VU or a FMCU
- **OS:** Operation System of the device
- **Firmware hash:** The hash of the software version that is currently installed on the device

## Equipment FMCU button

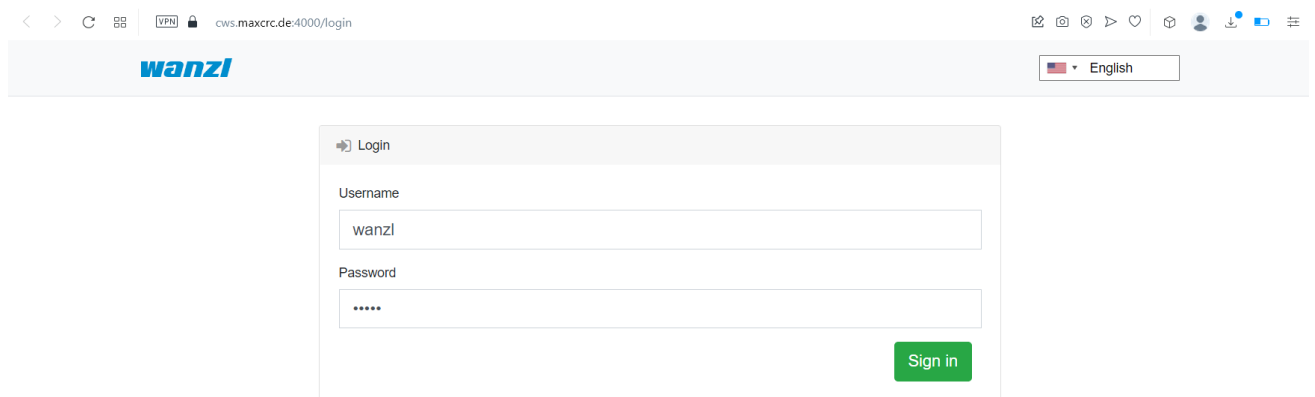
To work with the device remotely you can press **Equipment** button.



This button has all basic functionality as for VU, but additionally it has a **Web** button.

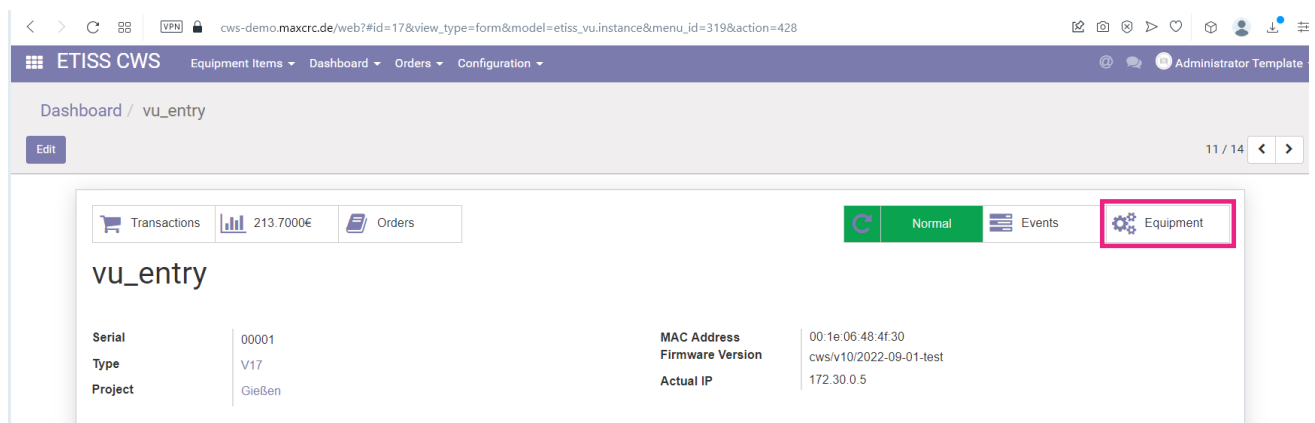


Pressing it will lead you to the login dialog to the FMCU software backend, where you'll be able to set and monitor various aspects of the FMCU software.



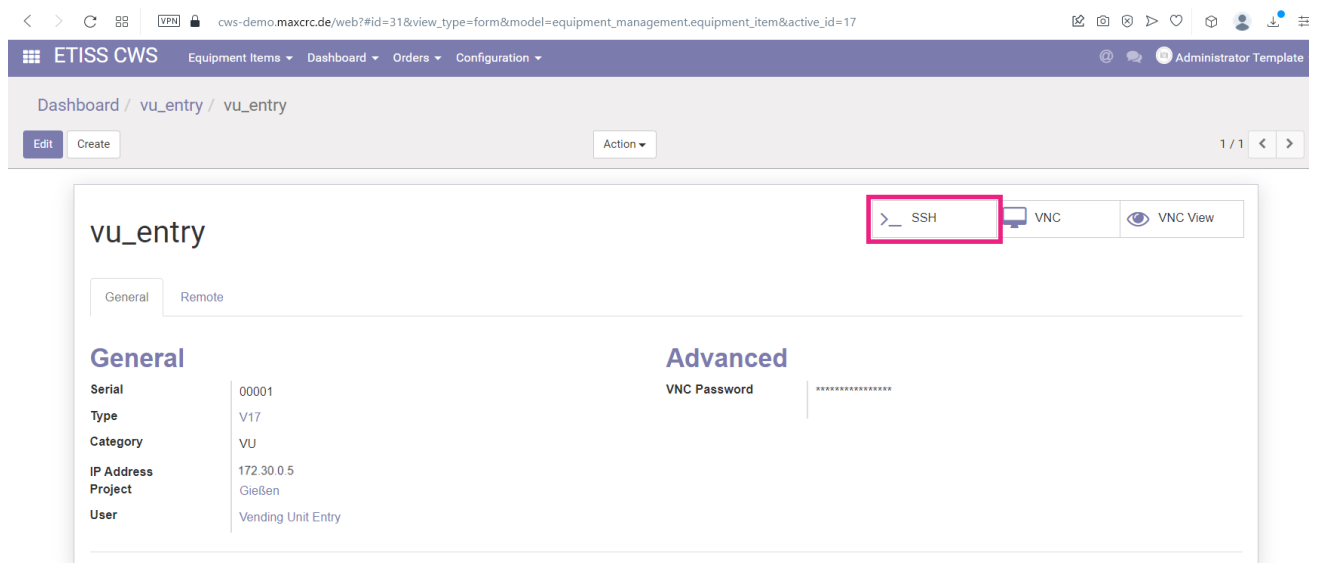
## REMOTE MONITORING AND CONTROL

There's a possibility to remotely monitor and access Vending Units listed on dashboard. You can connect to a particular unit via SSH, View or remotely control it with VNC. To do this, click on a Vending Unit and press **Equipment** button at the right side of the screen.



## SSH

**SSH** button allows you to connect to particular Vending Unit using SSH protocol.



ETISS CWS Equipment Items Dashboard Orders Configuration Administrator Template

Dashboard / vu\_entry / vu\_entry

vu\_entry

SSH VNC VNC View

General Remote

**General**

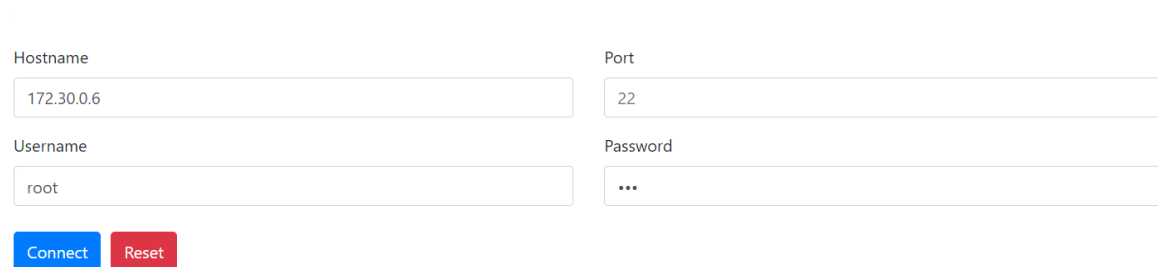
Serial	00001
Type	V17
Category	VU
IP Address	172.30.0.5
Project	Gießen
User	Vending Unit Entry

**Advanced**

VNC Password \*\*\*\*\*

After you press this button, you'll need to enter the following parameters and press **Connect**:

- **Hostname:** IP address or domain name of the Vending Unit to which you're connecting
- **Port:** SSH port
- **Username:** A user that's used for SSH connections
- **Password:** User's password



Hostname: 172.30.0.6

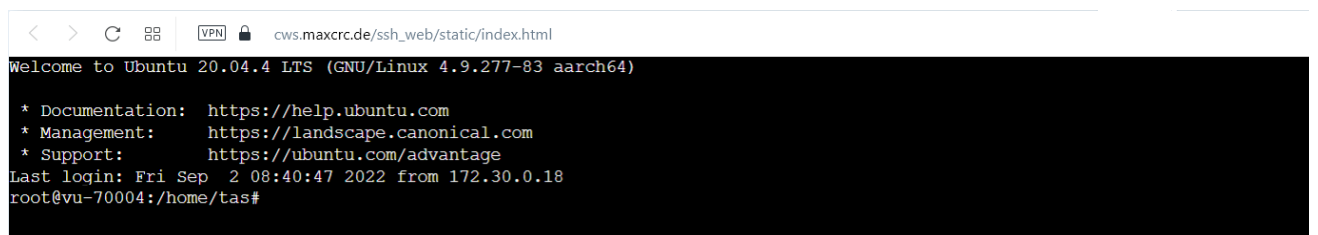
Port: 22

Username: root

Password: ...

Connect Reset

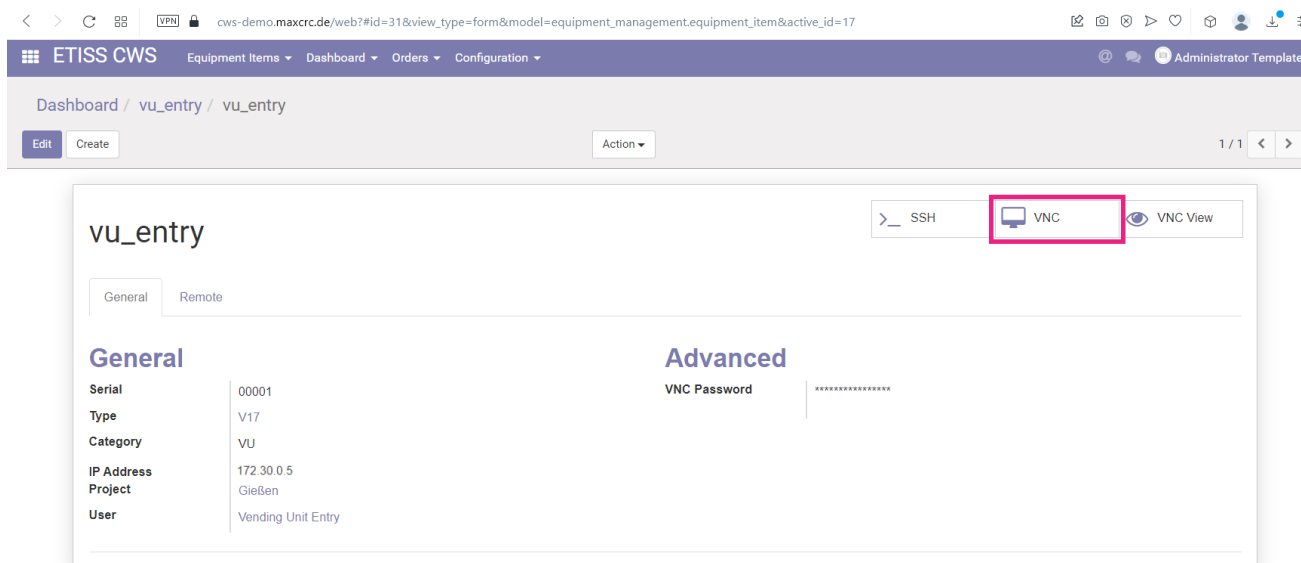
When connection is successfully established, you'll be securely logged in to the Vending Unit via command line.



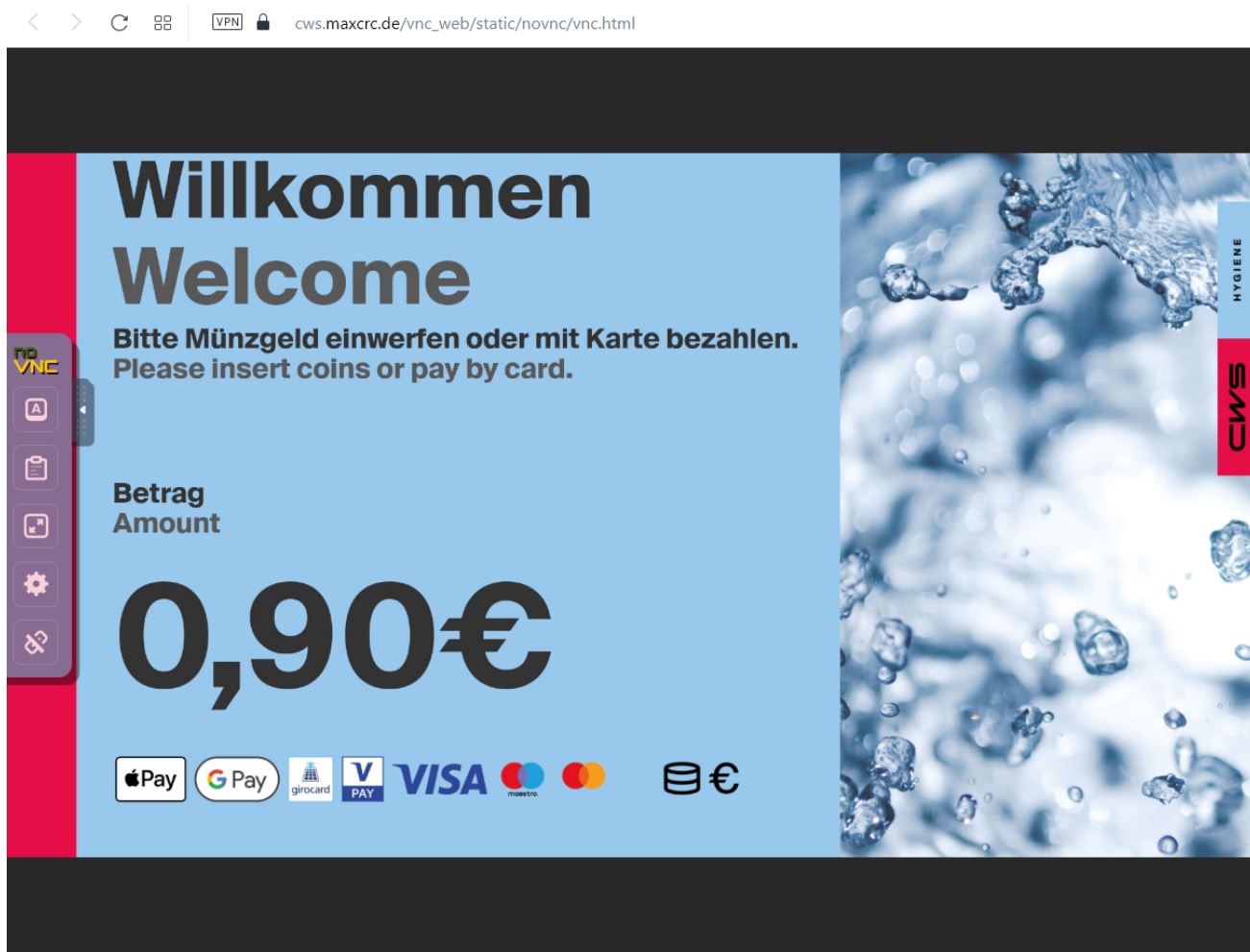
```
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 4.9.277-83 aarch64)
* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage
Last login: Fri Sep 2 08:40:47 2022 from 172.30.0.18
root@vu-70004:/home/tas#
```

## VNC

**VNC** button allows you to view and control the Vending Unit's screen via VNC protocol interactively. It allows to simulate buttons press, navigation and other aspects of the software.

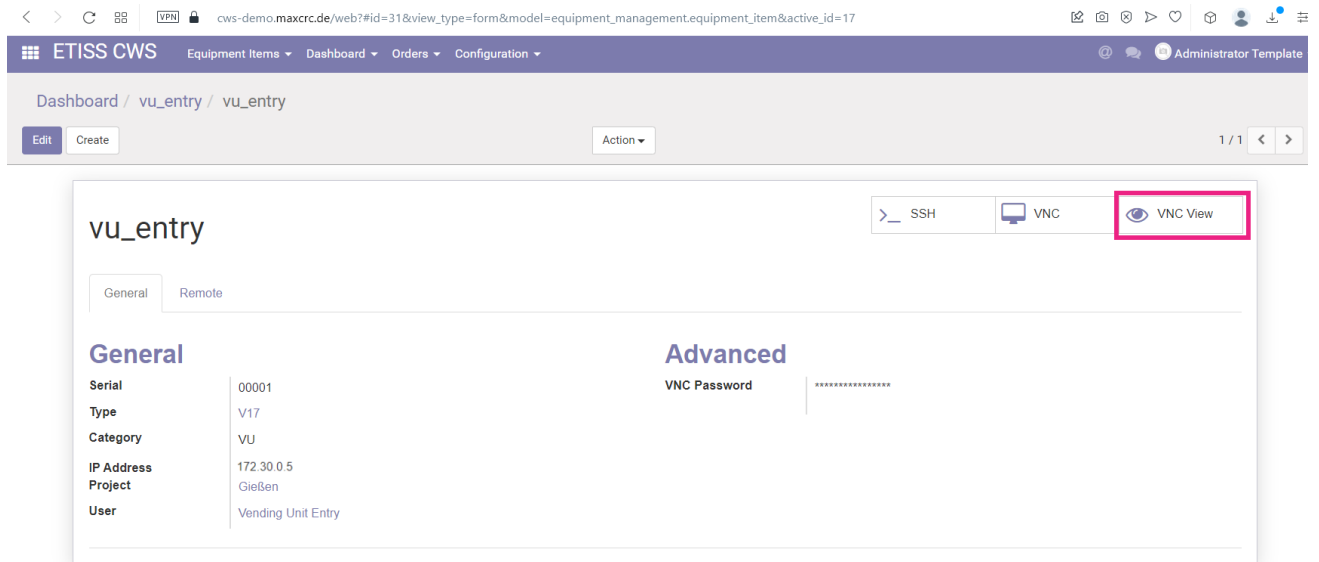


To do this, typically you don't need to enter any additional data. Just press the button and you'll see VU's screen in a separate browser tab. After that you can perform necessary operations.



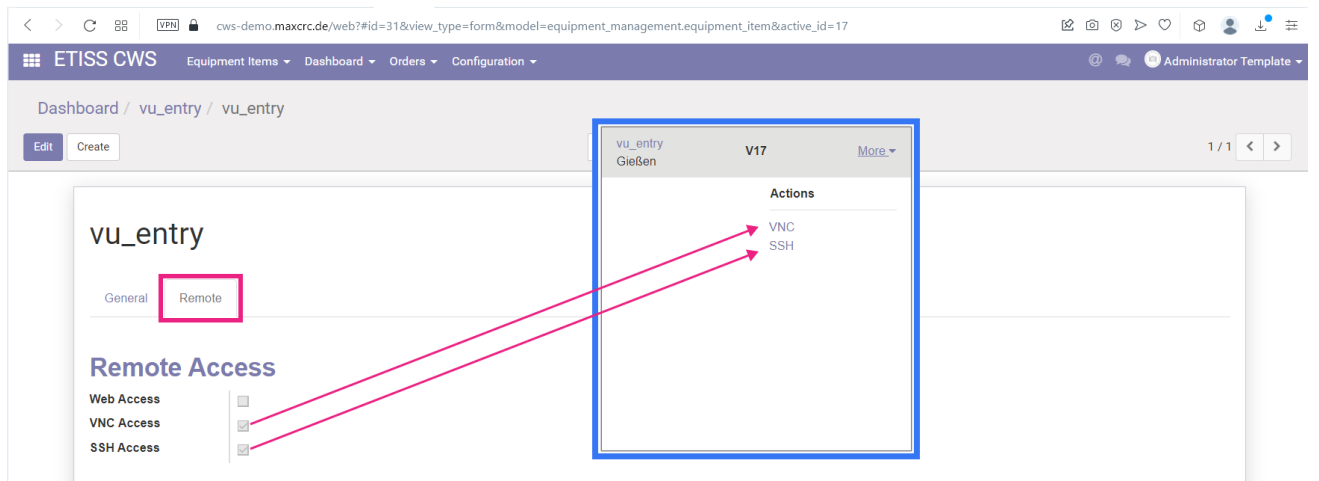
## VNC View

This is basically the same as VNC only in view-only mode. You won't be able to simulate navigation or press any buttons. Use this if you want to safely observe what's happening on the VU's screen.



## Remote tab

On this tab you can control which remote control buttons are displayed on the VU instance block.



## USER MANAGEMENT

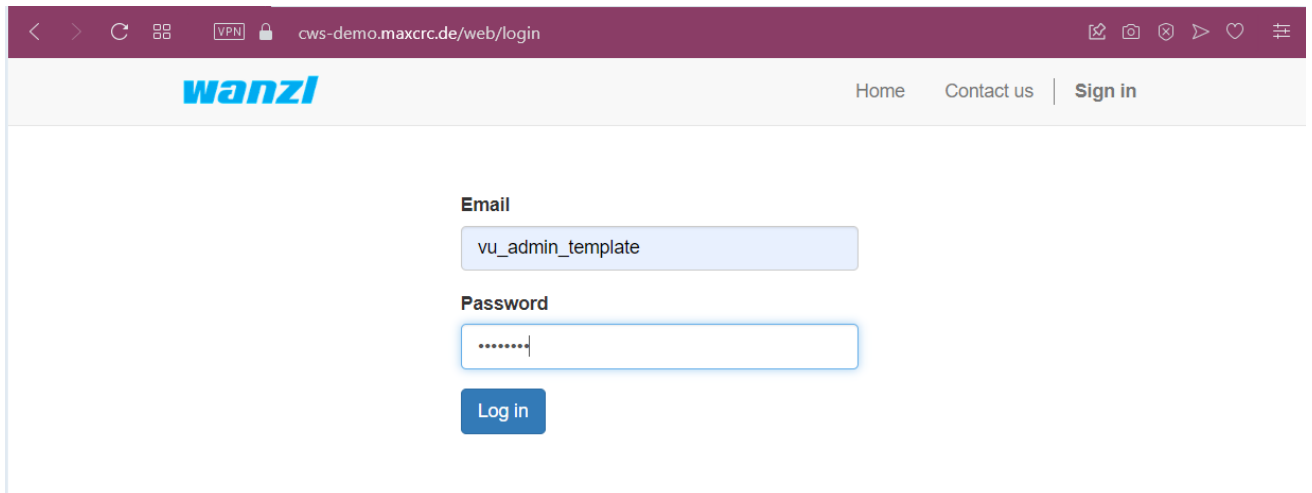
### Available access levels

The system has 3 access levels:

- **Cashier - vu\_cashier\_template:** Works with money, has limited access to other functions of the system.
- **Service - vu\_service\_template:** Maintains the equipment and can control its various aspects.

- **Administrator - vu\_admin\_template:** Has admin privileges and access to all functions of Etiss CWS system.

To login into the system using any of these roles, open the login page, enter desired user login (email), enter password and click **Login**.



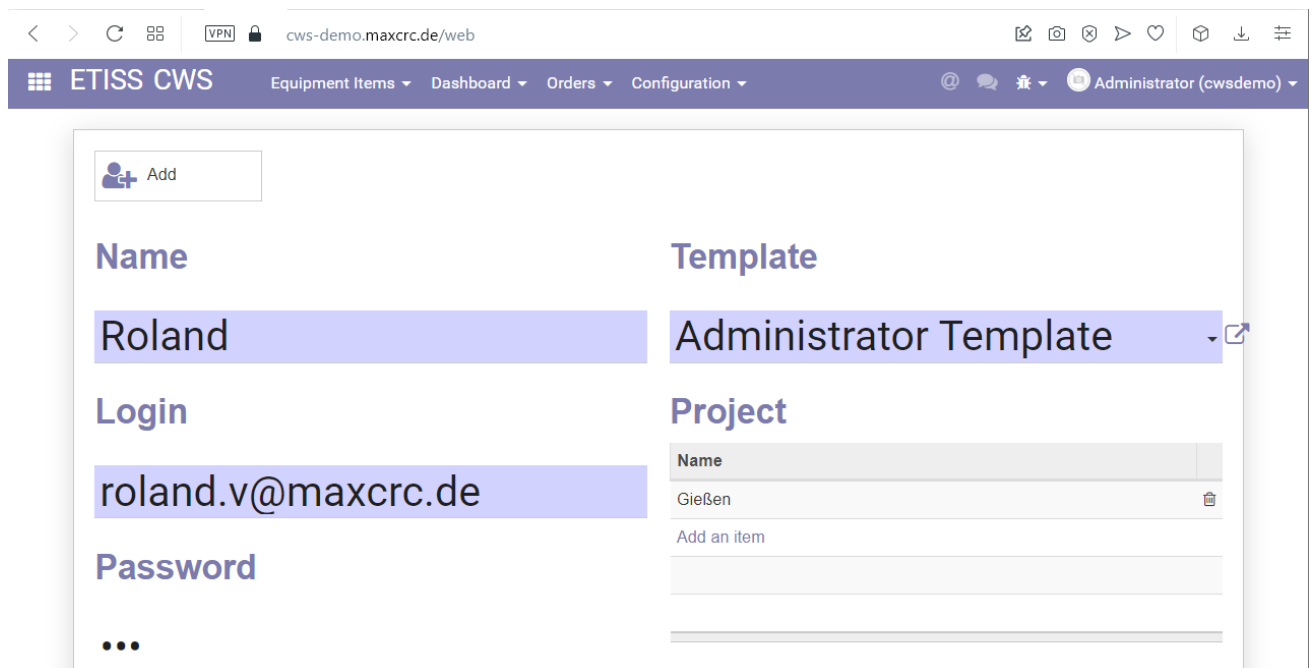
The screenshot shows a web browser window with the address bar containing 'cws-demo.maxcrc.de/web/login'. The page features the 'wanzl' logo in the top left and navigation links for 'Home', 'Contact us', and 'Sign in' in the top right. The main content area contains a login form with the following elements:

- Email:** A text input field containing 'vu\_admin\_template'.
- Password:** A password input field with masked characters '.....'.
- Log in:** A blue button labeled 'Log in'.

## Creating a new user

To create a new user navigate to **Etiss CWS -> Configuration -> Partner registration** menu and fill in following fields:

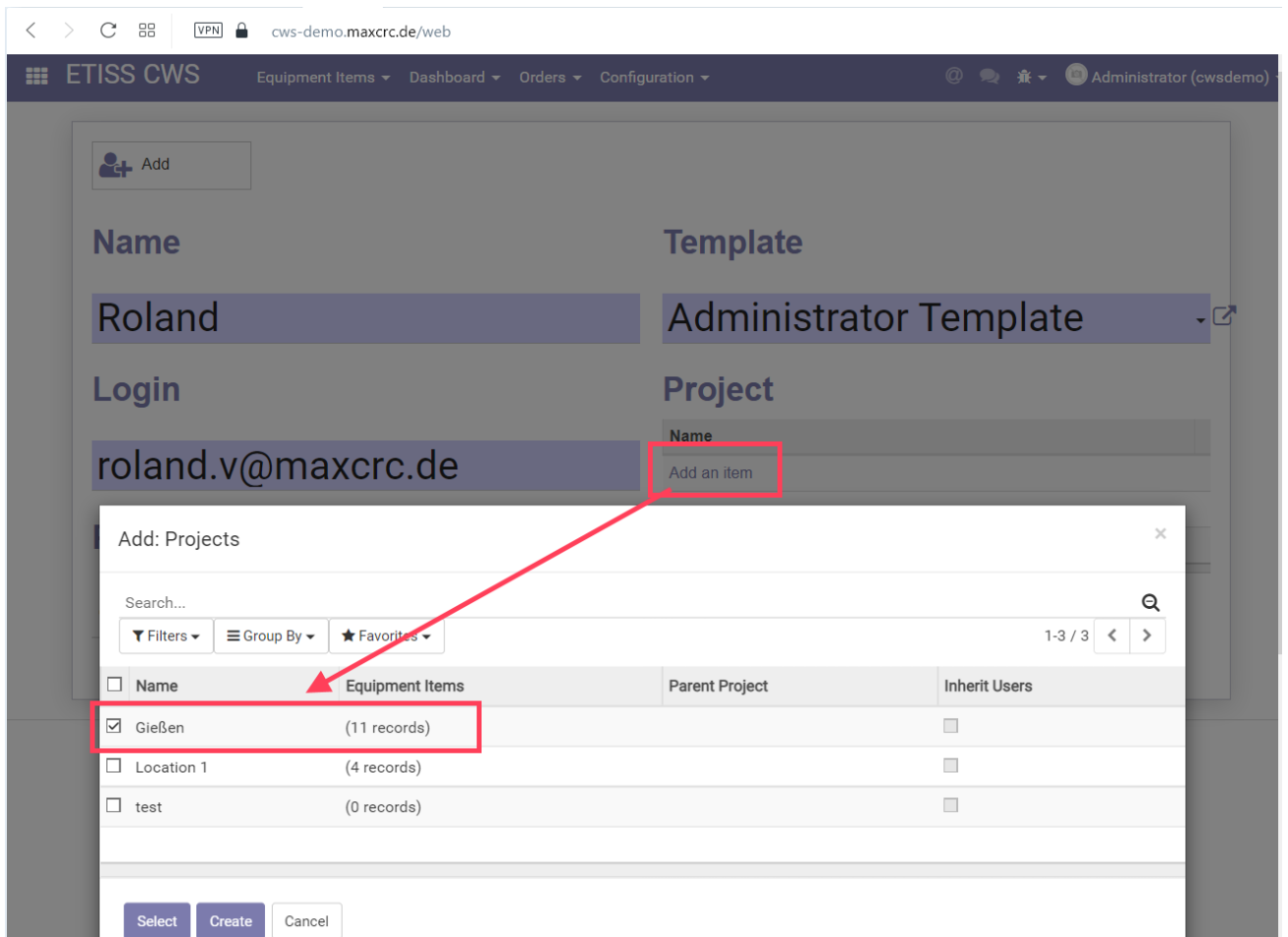
- **Name:** User's name
- **Login:** A login which is going to be user to log in to the system.
- **Password:** User's password
- **Template:** Access level template (**Cashier template** - only works with money, **Service template** - takes care of the Units, **Administrator template** - Local GOD.)
- **Project:** User will see and be able to work only with equipment items that belong to selected here projects.



## Assigning a project to a user

To assign a project while creating a new user, in the **Project** area click **Add item** and select the required project and click **Add** button. If you've already created a user, you can open a project where you'd like to add the user, then select **Users** tab and add a user there.



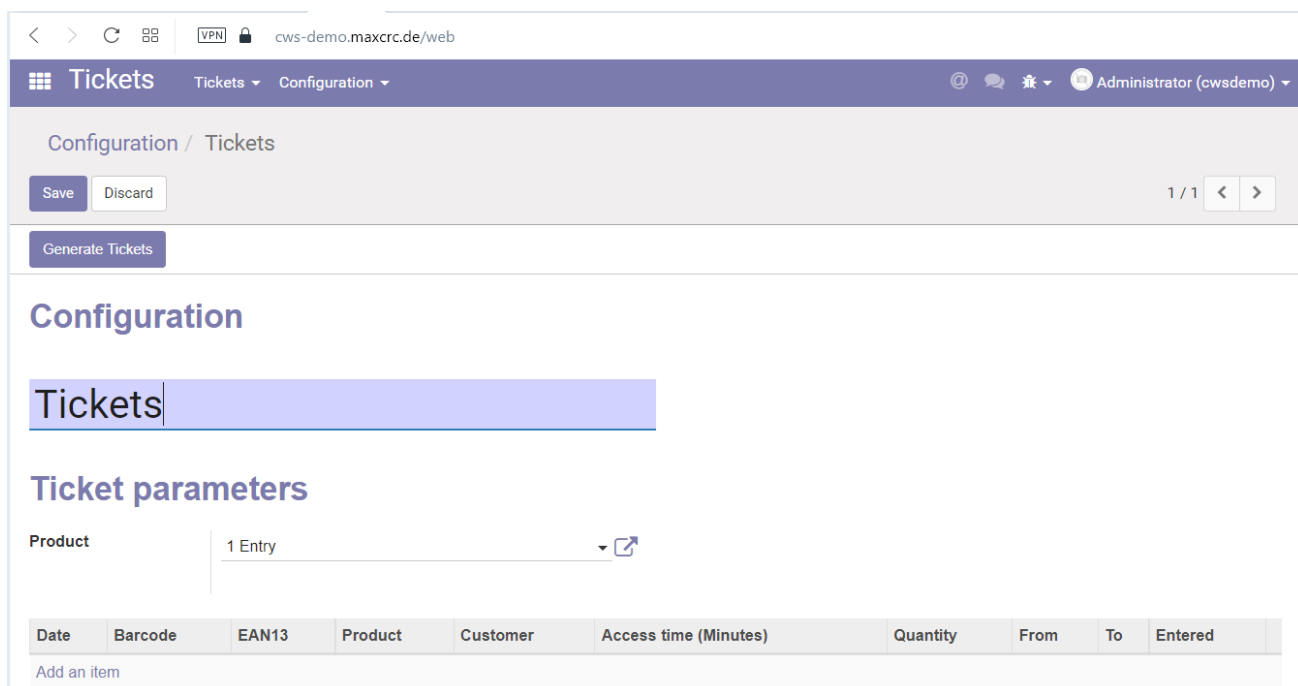
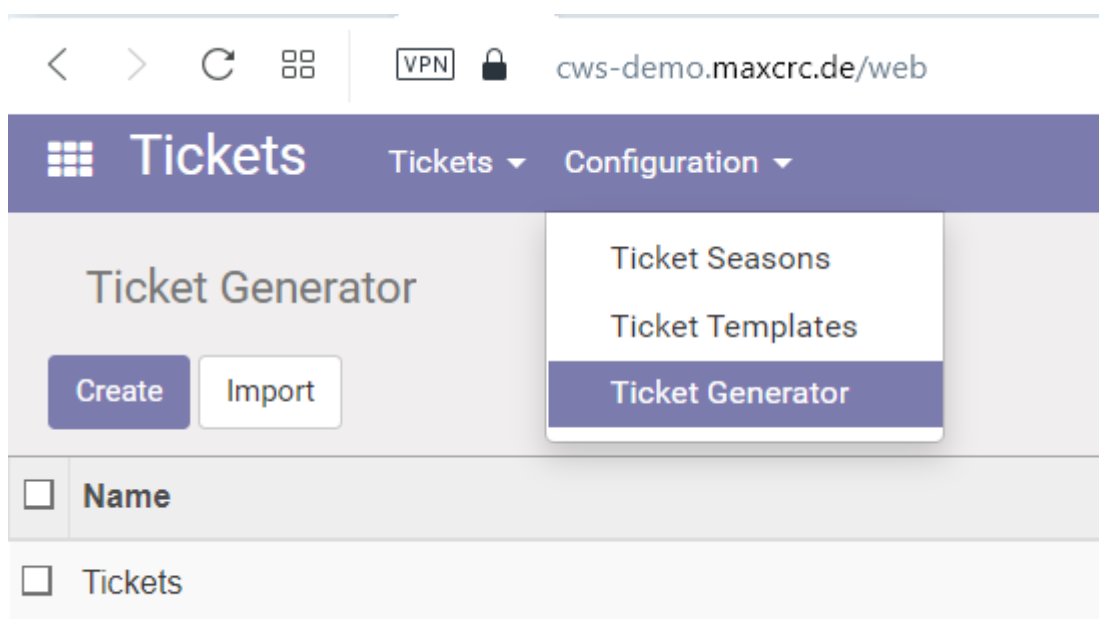


## TICKETS

### Ticket generator

Ticket generator allows to generat a specified number of tickets and print them out if needed. This feature can be used, for example, in case if you need to create a lot of free tickets and give them to people.

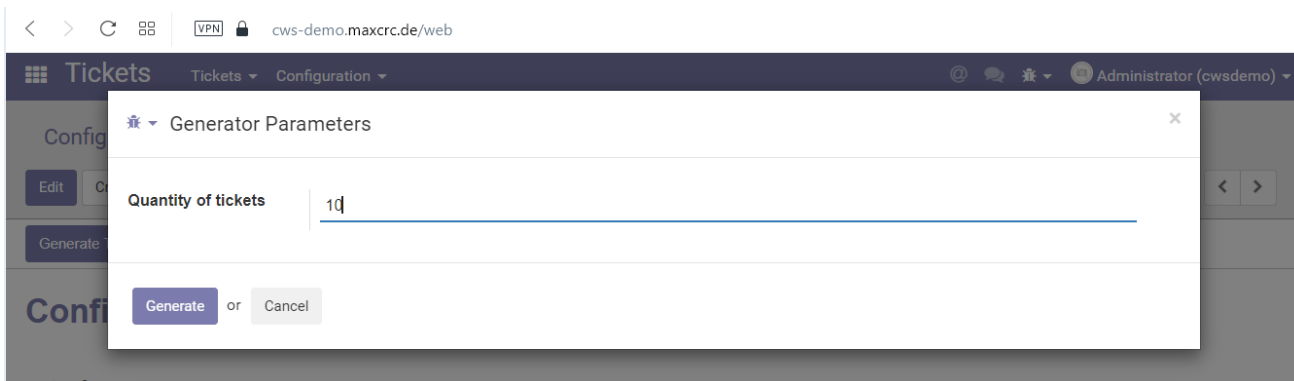
To open ticket generator, navigate to **Main menu -> Tickets -> Configuration -> Ticket generator**



Next, fill in the following fields:

- **Name:** The name of the generated tickets (not printed anywhere, just a display name)
- **Product:** The product based on which tickets will be generated. (Ex: to generate free tickets, you need to select free product here)

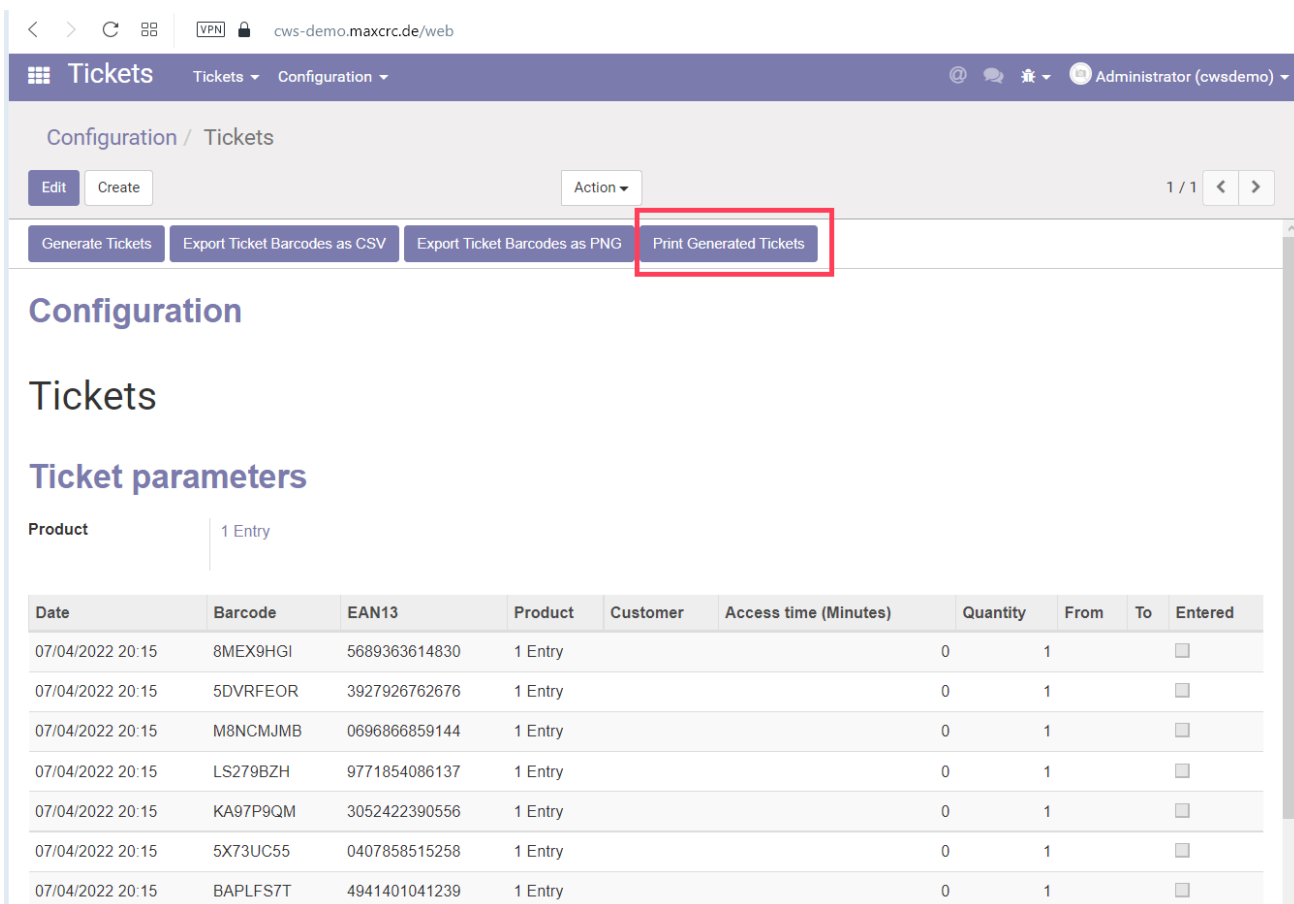
click **Save**, and after that click **Generate tickets** button.



Select the number of tickets to generate and click **Generate**

## Printing generated tickets

Once tickets were generated, you can print them out by pressing **Print generated tickets** button.

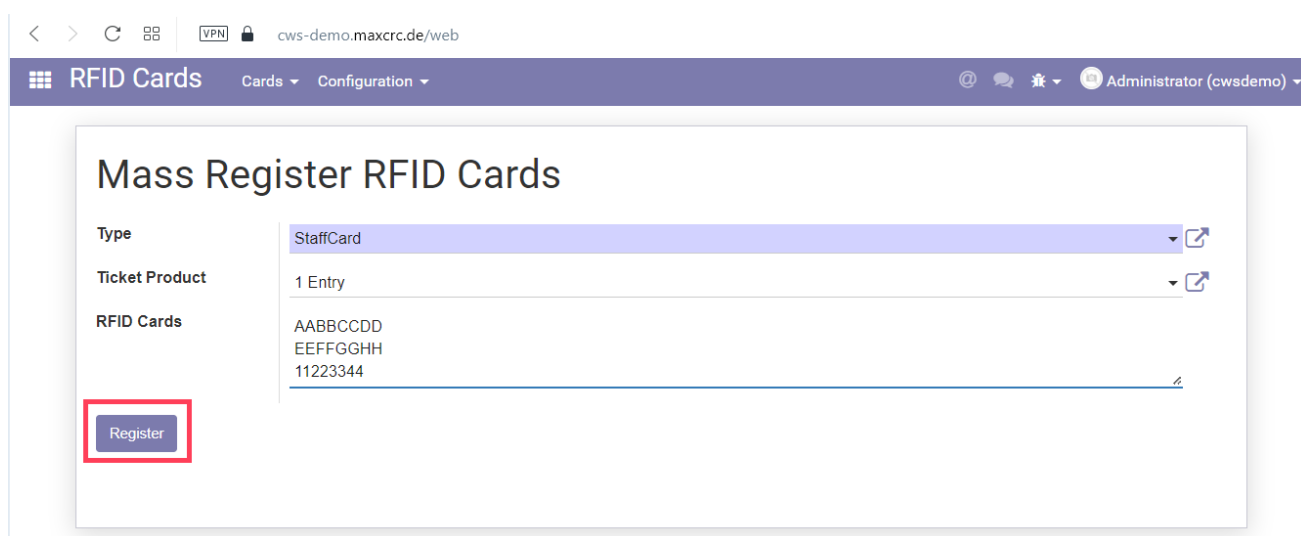


## RFID CARDS

### RFID cards generator

RFID card generator can be used with reader to mass register RFID cards. An operator scans the card with the reader, these cards then being added to the list of cards separated by the line break, space, comma, or semicolon. And finally, after selecting the card type, these cards then can be registered in the system in one click.

### Generating RFID cards



The screenshot shows a web browser window with the URL `cws-demo.maxcrc.de/web`. The page title is "RFID Cards" and the breadcrumb navigation is "Cards > Configuration". The main content area is titled "Mass Register RFID Cards". It contains a form with the following fields:

Type	StaffCard
Ticket Product	1 Entry
RFID Cards	AABBCCDD EEFFGGHH 11223344

A "Register" button is located at the bottom left of the form and is highlighted with a red box.

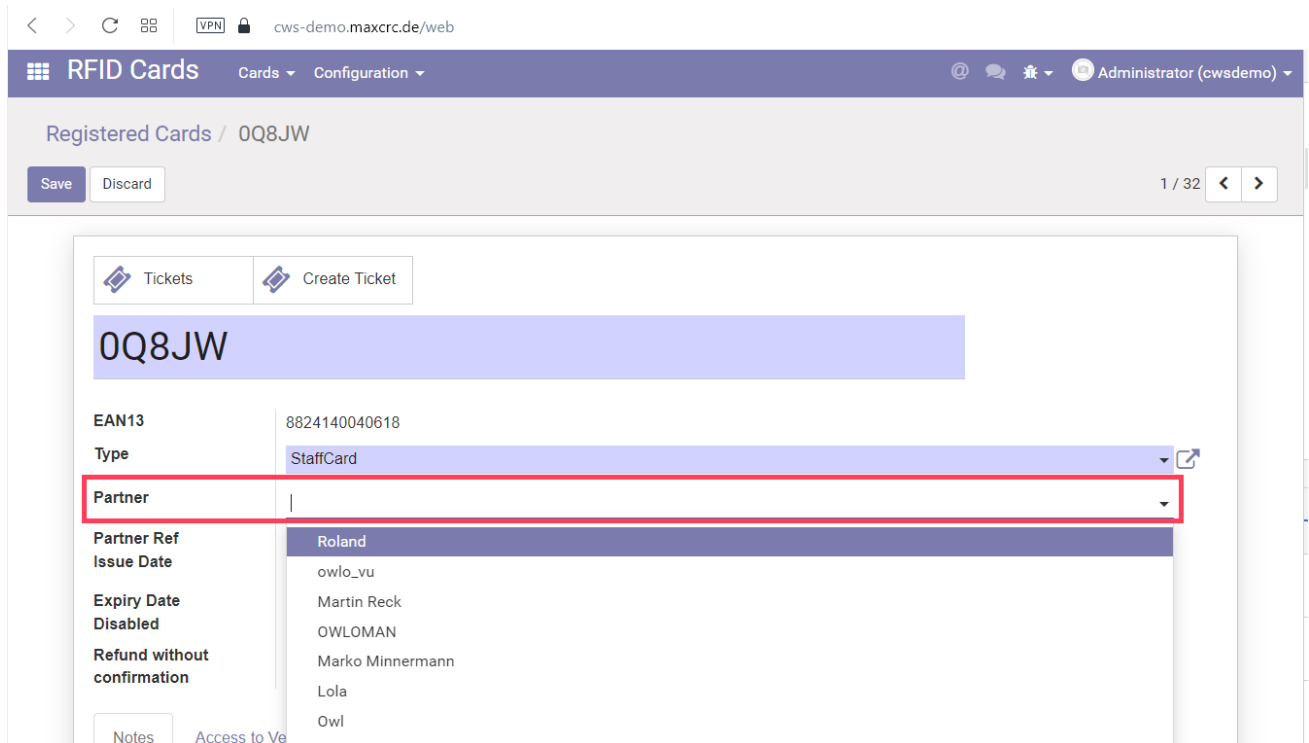
To use RFID cards generator go to **RFID cards** -> **Configuration** -> **Mass register** and fill in the following fields:

- **Type:** The type of RFID card to be registered
- **Ticket product:** The product on which the linked ticket will be based
- **RFID cards:** An array of RFID cards to be registered. These can be obtained from card reader or pasted via clipboard manually. The system understands the following card separation symbols: **line break**, **space**, **comma**, or **semicolon**.

### Assigning a partner to generated card

After all necessary cards were successfully generated you can assign a previously created partner to them. This can be done by opening a card and selecting a partner.

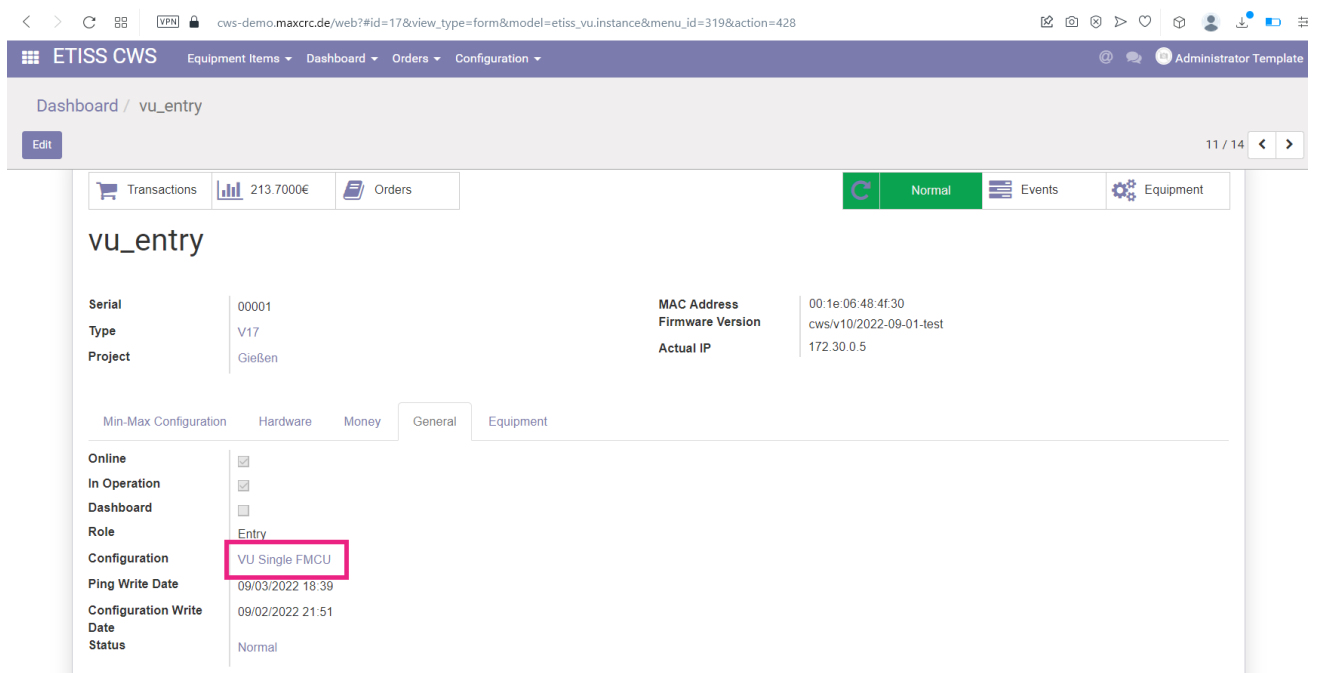
From the menu **RFID cards** -> **Cards** -> **Registered cards** open any card, click **Edit** and in the **Partner** field select desired partner.



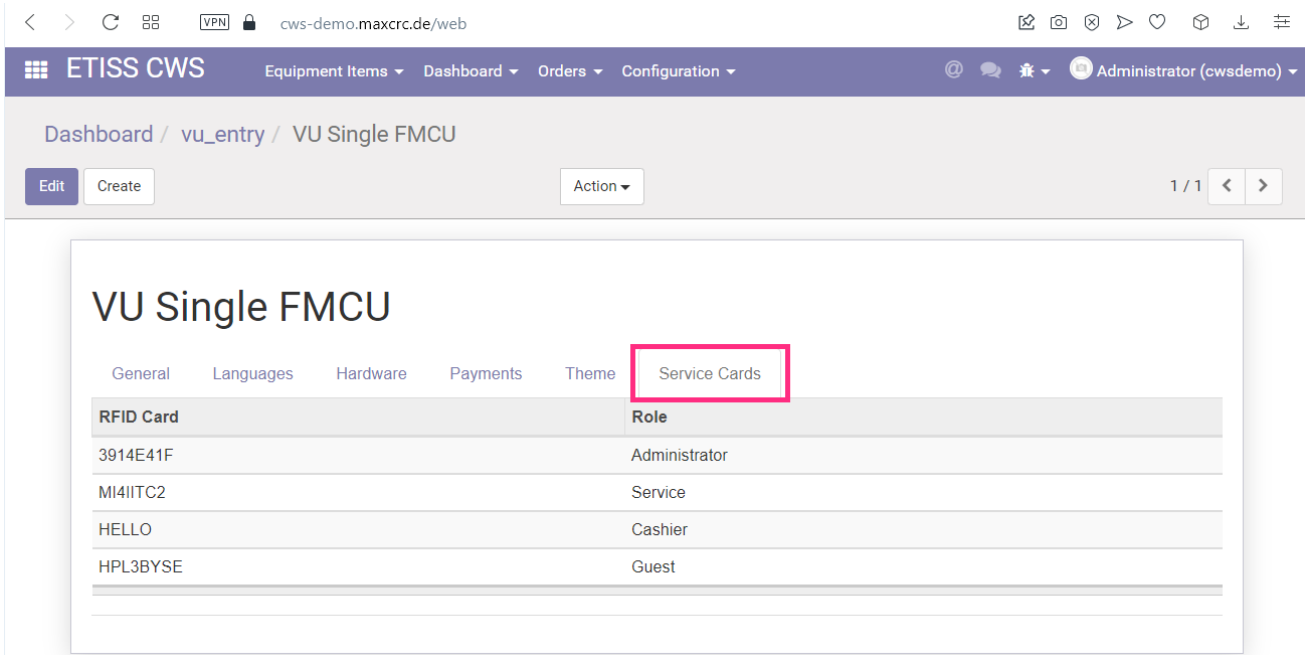
Now this card is associated with a partner.

## Assigning a card to Vending Unit

After assigning a partner to a card, this card can be linked to the vending unit with a specified access level. To do this, login as Administrator, find and open a vending unit to which you need to link a card, and click on its configuration settings. In this case it's **VU Single FMCU** link.



On the **Service cards** tab you can add cards and specify their corresponding access level.



ETISS CWS | Equipment Items | Dashboard | Orders | Configuration | Administrator (cwsdemo)

Dashboard / vu\_entry / VU Single FMCU

Buttons: Edit, Create, Action

1 / 1

### VU Single FMCU

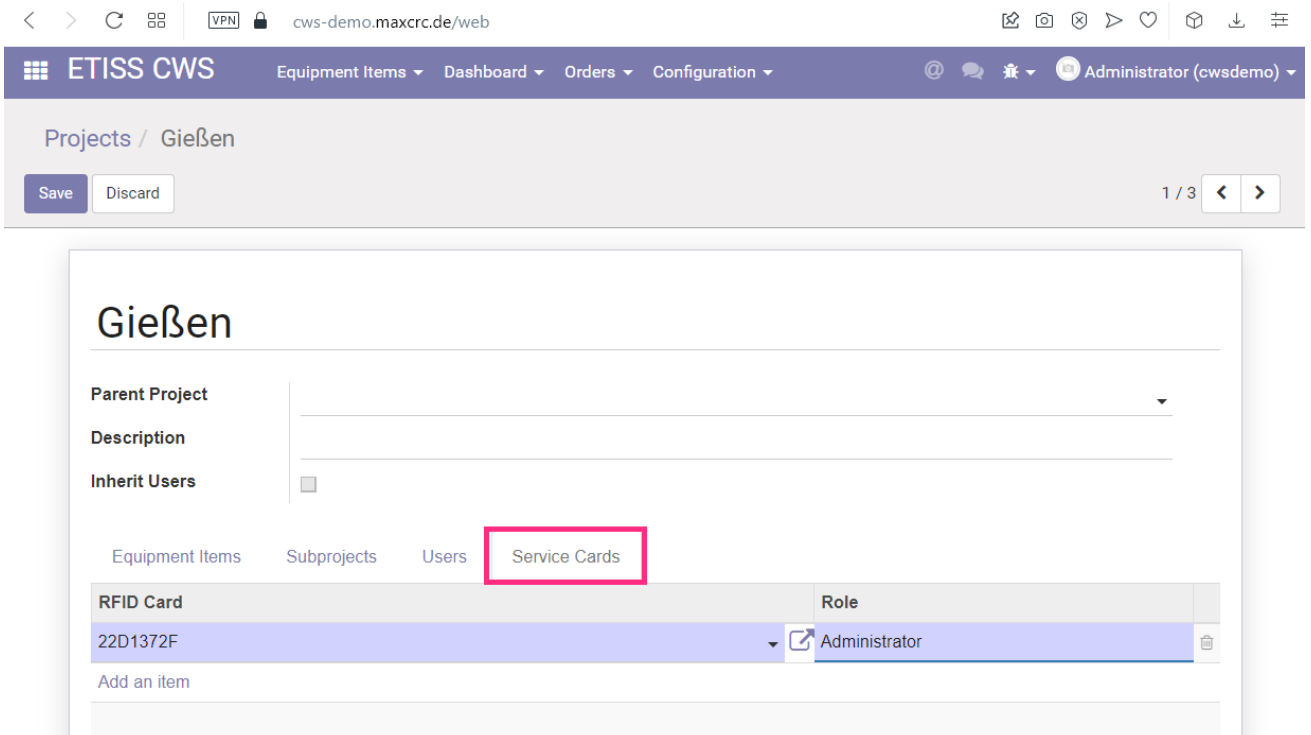
General | Languages | Hardware | Payments | Theme | **Service Cards**

RFID Card	Role
3914E41F	Administrator
MI4IITC2	Service
HELLO	Cashier
HPL3BYSE	Guest

## Assigning a card to project

The card also can be linked to a project. But you have to keep in mind that assigning a card to a particular VU configuration has precedence over assigning it to the project.

To assign a card to a project, go to the **Etiss CWS -> Configuration -> Projects** menu, select a project and on the **Service cards** tab link a card with corresponding access level.



ETISS CWS | Equipment Items | Dashboard | Orders | Configuration | Administrator (cwsdemo)

Projects / Gießen

Buttons: Save, Discard

1 / 3

### Gießen

Parent Project: \_\_\_\_\_

Description: \_\_\_\_\_

Inherit Users:

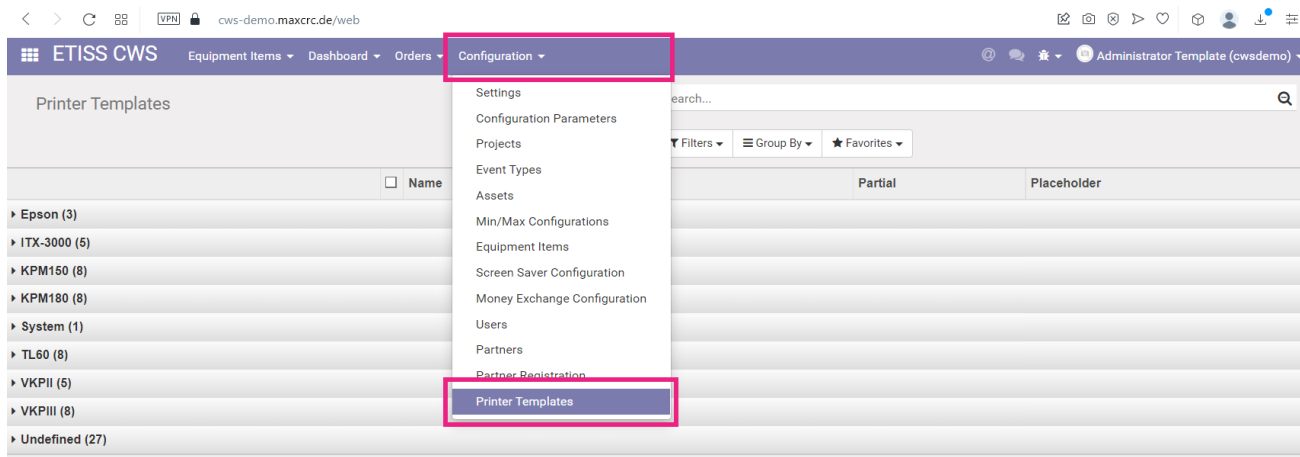
Equipment Items | Subprojects | Users | **Service Cards**

RFID Card	Role
22D1372F	Administrator

Add an item

## PRINTING TEMPLATES

CWS Administrator has access to and can edit all printing templates for supported printers. To open the list of templates navigate to the **ETISS CWS/Configuration/Printer templates** menu:

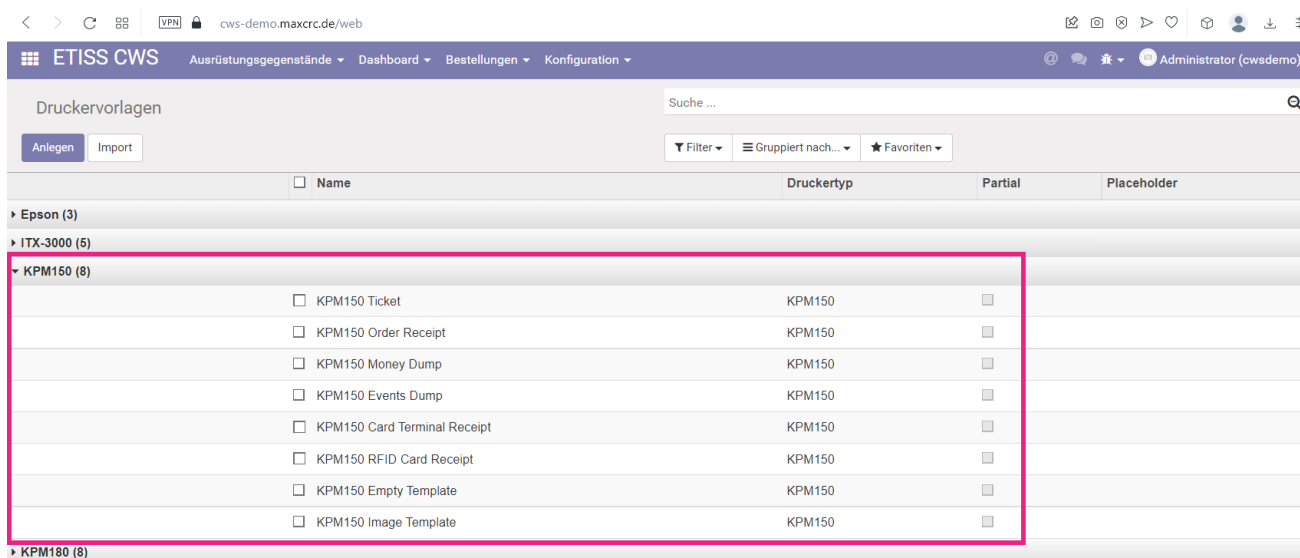


This menu displays all available printing templates in the system. All templates are grouped by the printer type.

### Finding your printer model

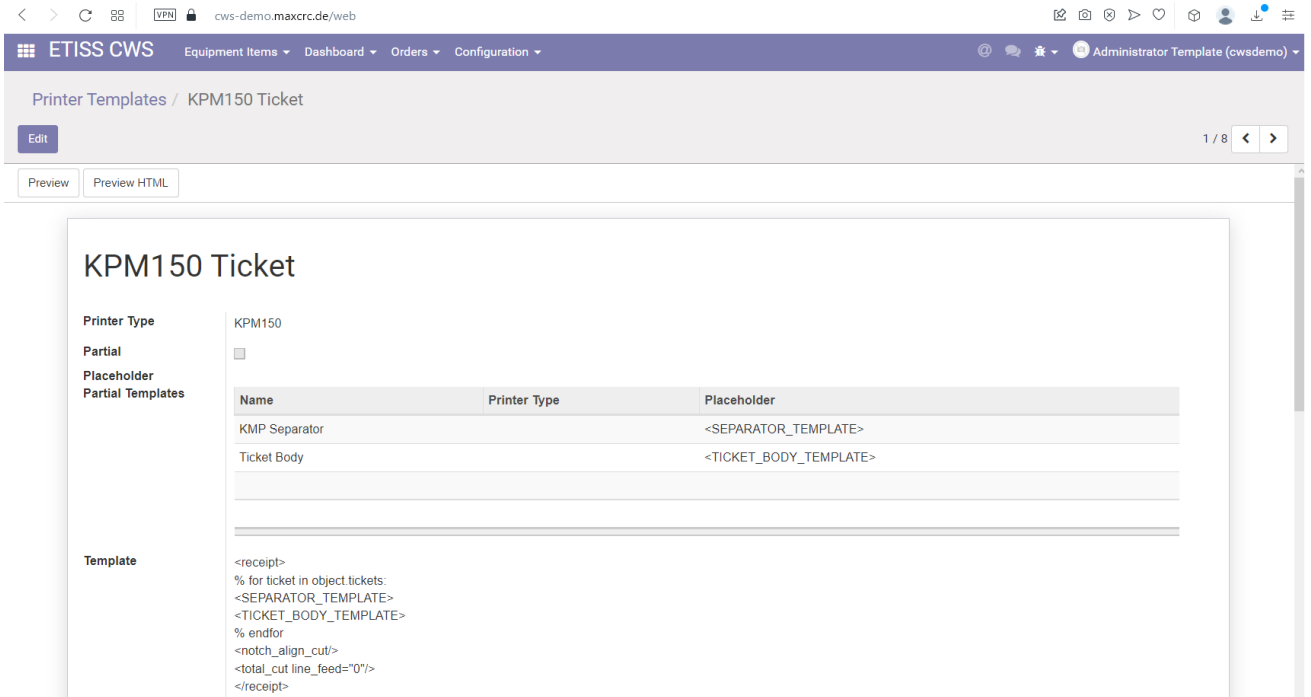
If you need to change something in one of the printing templates, you need to understand which printer model is being used in your Vending Unit. Typically a Vending Unit is assigned one printer model and it can't be changed from backend. So, you need to look at the hardware for finding which printer model is used.

Once you've found out which printer model is used for the particular VU, you can find all printing templates in corresponding section of the template list. For example, if your printer model is **KPM 150**, all reports that you can change are located in **KPM 150** section:



## Template structure

Let's look at the typical printing template. As an example we'll take **KPM 150 Ticket** template. We'll use **KPM 150** printer model throughout this section of documentation.



The screenshot shows the ETISS CWS web interface. The browser address bar shows 'cws-demo.maxcrc.de/web'. The page title is 'Printer Templates / KPM150 Ticket'. There are buttons for 'Edit', 'Preview', and 'Preview HTML'. The main content area displays the configuration for the 'KPM150 Ticket' template.

Name	Printer Type	Placeholder
KMP Separator		<SEPARATOR_TEMPLATE>
Ticket Body		<TICKET_BODY_TEMPLATE>

Below the table, the 'Template' field contains the following code:

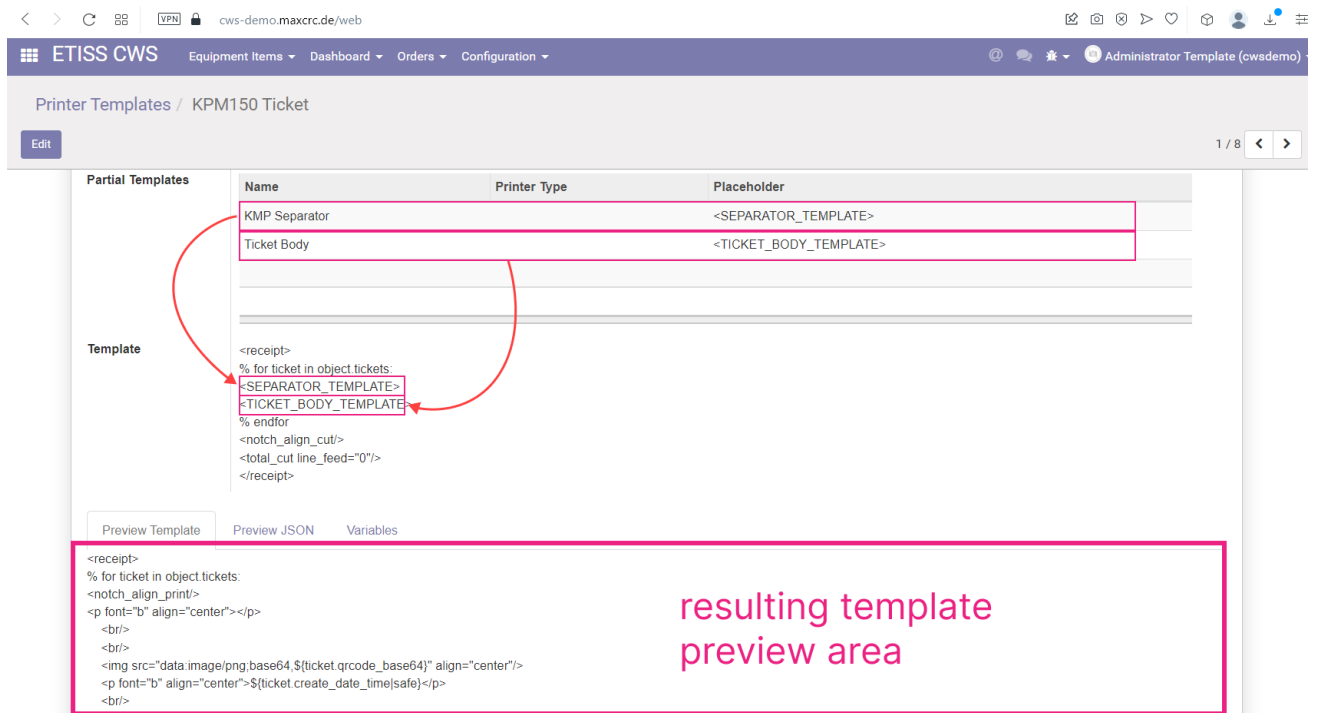
```
<receipt>
% for ticket in object.tickets:
<SEPARATOR_TEMPLATE>
<TICKET_BODY_TEMPLATE>
% endfor
<notch_align_cut/>
<total_cut_line_feed="0"/>
</receipt>
```

Each template has a set of properties such as:

- **Printer type:** The type of the printer to which this template applies
- **Partial:** This indicates whether this template is a part of another template or not
- **Placeholder:** A string of text that will be used as a placeholder for insertion of this template into another one
- **Partial templates:** A list of another templates which are inserted into current one
- **Template:** The template body

Some of the templates such as **Ticket body** are used in multiple places across different reports because it's a common part of the template.





Printer Templates / KPM150 Ticket

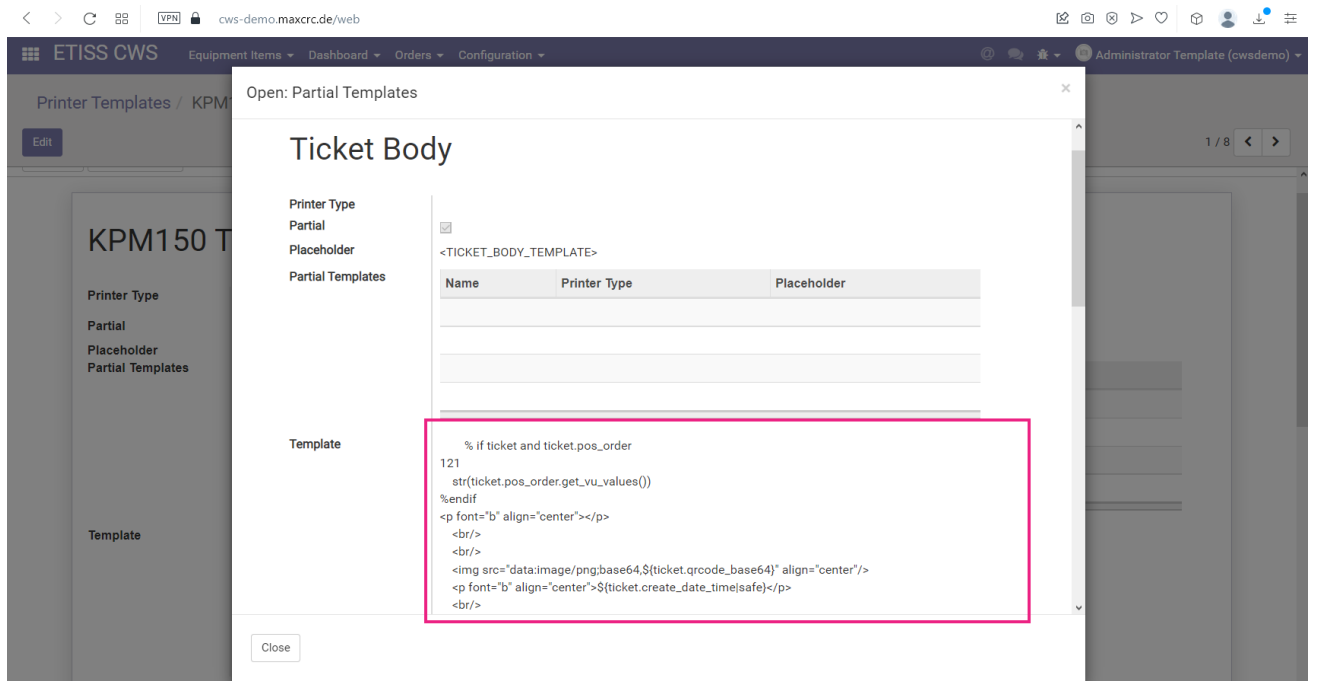
Partial Templates	Name	Printer Type	Placeholder
	KMP Separator		<SEPARATOR_TEMPLATE>
	Ticket Body		<TICKET_BODY_TEMPLATE>

```

<receipt>
% for ticket in object.tickets:
<SEPARATOR_TEMPLATE>
<TICKET_BODY_TEMPLATE>
% endfor
<notch_align_cut/>
<total_cut_line_feed="0"/>
</receipt>
    
```

resulting template preview area

Probably the one template area that's changed most frequently depending on project requirements is ticket body. To change something there, open the ticket body template and in the **Template** area make necessary changes, then save the template - your changes will be applied.



Open: Partial Templates

### Ticket Body

Printer Type: Partial

Placeholder: <TICKET\_BODY\_TEMPLATE>

Partial Templates	Name	Printer Type	Placeholder

Template

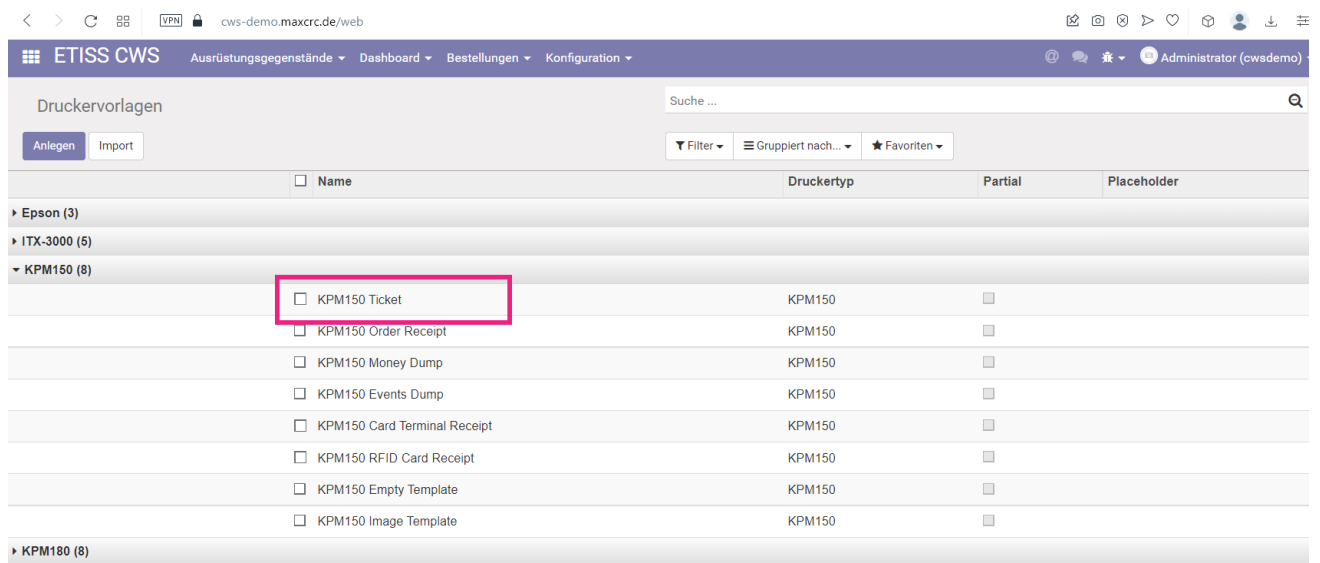
```

% if ticket and ticket.pos_order
121
str(ticket.pos_order.get_vu_values())
%endif
<p font="b" align="center"></p>
<br/>
<br/>

<p font="b" align="center">${ticket.create_date_time|safe}</p>
<br/>
    
```

## Ticket template

One of the most frequently used templates is a **Ticket template**. It's used for ticket printing during the purchase process.



The screenshot shows the 'Druckervorlagen' (Print Templates) section of the ETISS CWS application. The interface includes a search bar, navigation tabs, and a table of templates. The 'KPM150 Ticket' template is highlighted with a red box.

<input type="checkbox"/>	Name	Druckertyp	Partial	Placeholder
▶ Epson (3)				
▶ ITX-3000 (5)				
▶ KPM150 (8)				
<input type="checkbox"/>	KPM150 Ticket	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Order Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Money Dump	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Events Dump	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Card Terminal Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 RFID Card Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Empty Template	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Image Template	KPM150	<input type="checkbox"/>	
▶ KPM180 (8)				

Here's how it looks:



09.09.2022 10:17

Sie finden unsere Einlösepartner auf unserem Aushang und auf der Center Webseite unter 'Service'.

You find our redemption partners on our printout and on the center website under 'Service'.

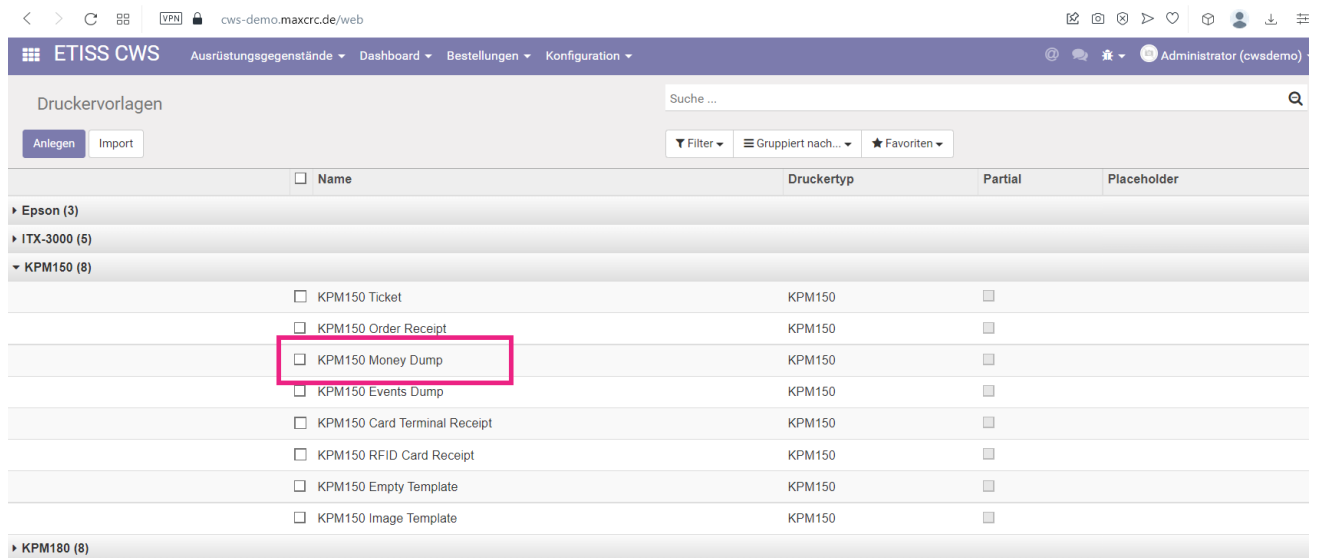
### **Order Receipt template**

---

If the customer wants to print a receipt of their purchase, the **Order Receipt template** is used in this case. In the CWS project order receipts are not used.

## Money Dump template

There's a feature of receipt printing when VU door was opened. The **Money Dump** template is used in this case.



The screenshot shows the ETISS CWS web interface. The page title is 'Druckervorlagen' (Print Templates). The breadcrumb navigation is 'Ausrüstungsgegenstände > Dashboard > Bestellungen > Konfiguration'. The user is logged in as 'Administrator (cwsdemo)'. The page contains a search bar and several filters. The main content is a table of templates.

<input type="checkbox"/>	Name	Druckertyp	Partial	Placeholder
▶ Epson (3)				
▶ ITX-3000 (5)				
▼ KPM150 (8)				
<input type="checkbox"/>	KPM150 Ticket	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Order Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Money Dump	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Events Dump	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Card Terminal Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 RFID Card Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Empty Template	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Image Template	KPM150	<input type="checkbox"/>	
▶ KPM180 (8)				

Here's how this template looks on the simulator:

VU Serial Number: 00001

Receipt Number: 1473

Date: 09.09.2022

Time: 09:46

BillBox

3x5,00 EUR

Gesamt

15,00 EUR

BillPayout

10x5,00 EUR

Gesamt

50,00 EUR

CoinCashbox

1000x2,00 EUR

11x0,50 EUR

2x0,10 EUR

Gesamt

2005,70 EUR

Hopper1

1x1 EUR

Gesamt

1 EUR

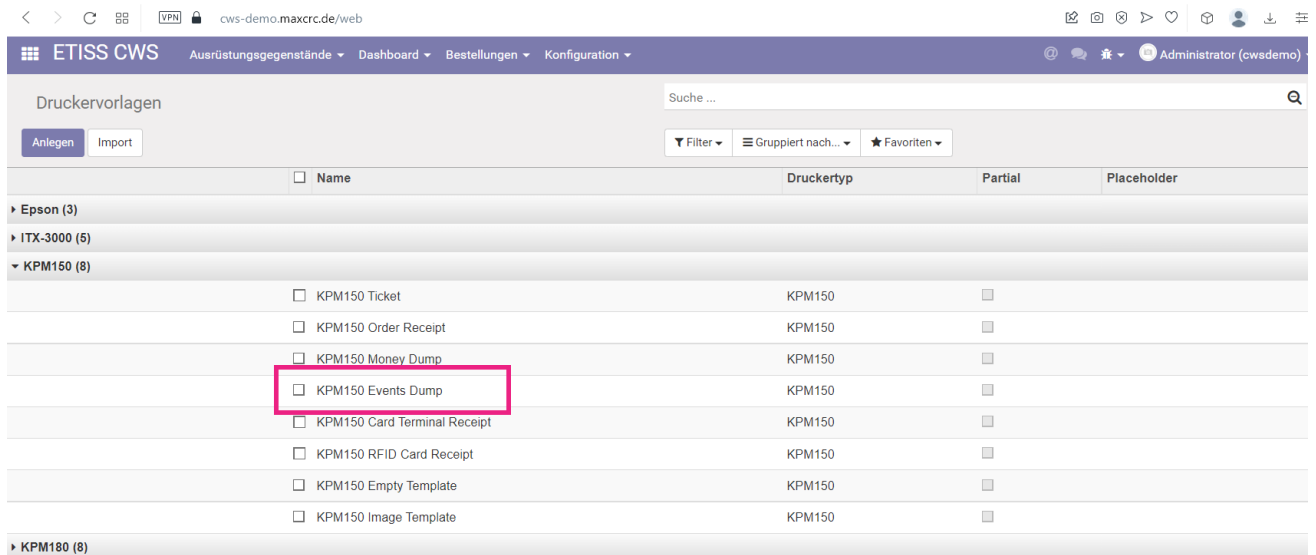
Hopper2

1000x0.1 EUR

Gesamt  
100,0 EUR  
Hopper3  
1005x0,1 EUR  
Gesamt  
100,5 EUR  
  
Gesamt  
2272,20 EUR

## Events Dump template

This template is used to print out all current events that happened on the Vending Unit.



Here's how this template looks on the simulator:

## Ereignisse

\* 09.09.2022 10:00:38

Administrator

Depot außer Betrieb - Ende

\* 09.09.2022 10:00:38

Administrator

Unbefugte Türöffnung - Ende

\* 09.09.2022 10:00:38

Administrator

Login

\* 09.09.2022 10:00:32

Bezahlungsfunktion deaktiviert

\* 09.09.2022 10:00:32

Depot außer Betrieb - Start

\* 09.09.2022 10:00:32

Unbefugte Türöffnung - Start

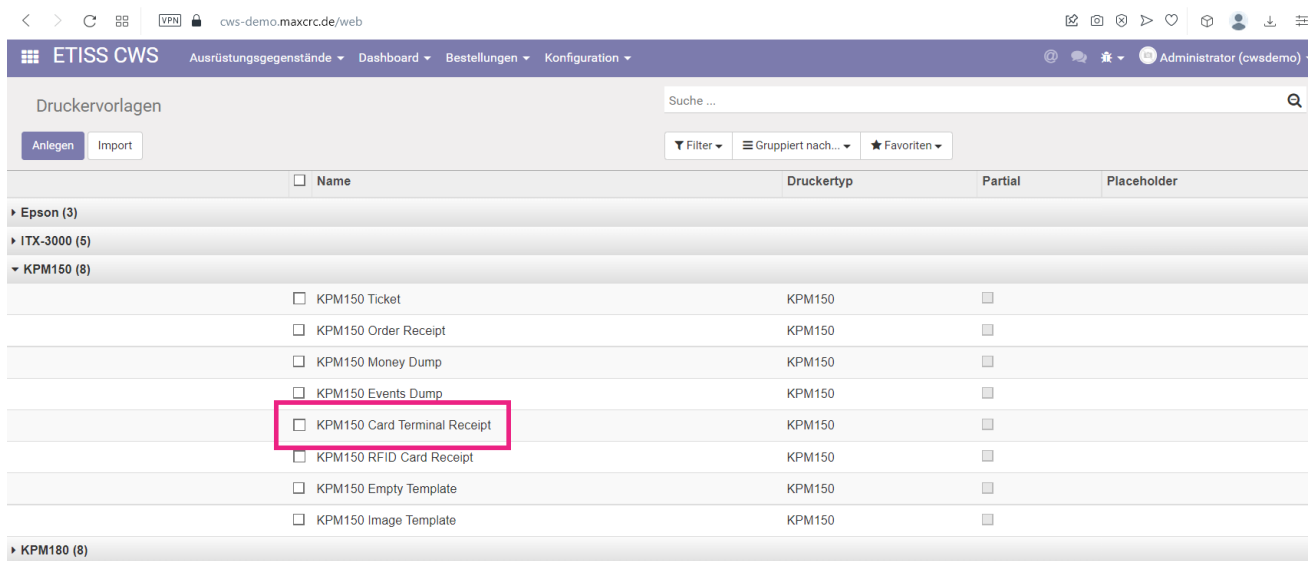
\* 09.09.2022 10:00:32

Automaten-Türe wurde geöffnet

```
* 09.09.2022 10:00:23
Bezahlfunktion aktiviert
* 09.09.2022 10:00:22
Logout
* 09.09.2022 10:00:22
Administrator
Bezahlfunktion deaktiviert
* 09.09.2022 10:00:22
Administrator
Login
```

## Card Terminal Receipt template

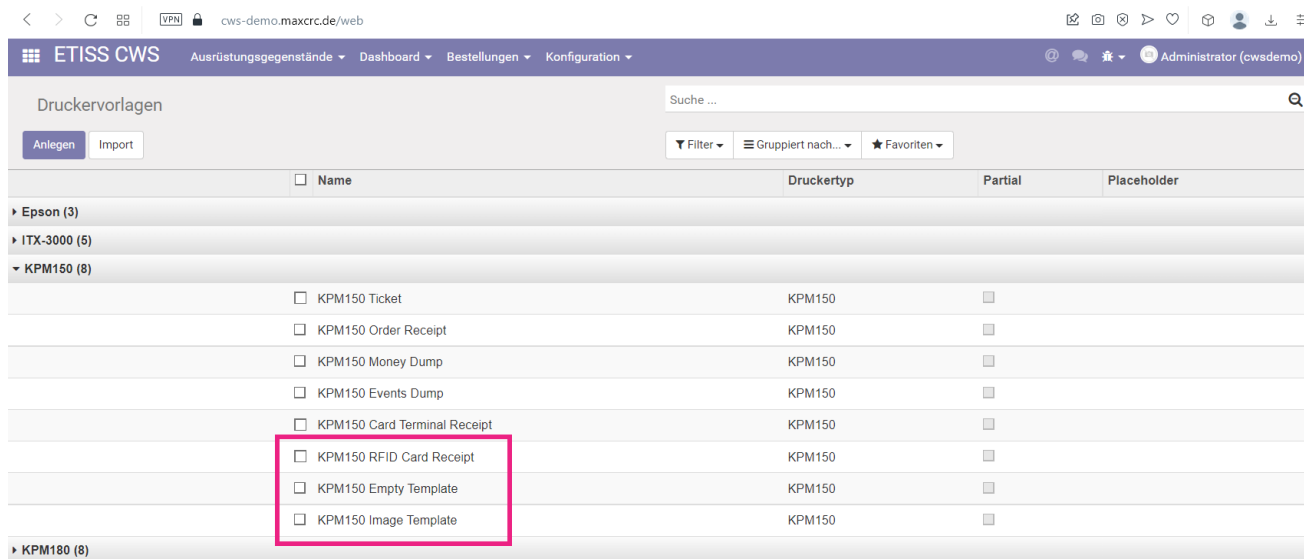
If the customer wants to print a receipt of their purchase when paying through card terminal, the **Card Terminal Receipt template** is used in this case. In the CWS project card terminal receipts are not used.





## Additional service templates

Templates such as **RFID Card Receipt**, **Empty Template**, **Image Template** are used only in special cases for specific projects. They mostly help creating other templates quickly without changing too much code. We won't go in too much detail about them.



The screenshot shows the 'Druckervorlagen' (Print Templates) section of the ETISS CWS application. The interface includes a search bar, navigation tabs, and a table of templates. The table has columns for 'Name', 'Druckertyp', 'Partial', and 'Placeholder'. The 'KPM150' group is expanded, showing several templates. The last three templates in this group are highlighted with a red box.

<input type="checkbox"/>	Name	Druckertyp	Partial	Placeholder
▶ Epson (3)				
▶ ITX-3000 (5)				
▶ KPM150 (8)				
<input type="checkbox"/>	KPM150 Ticket	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Order Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Money Dump	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Events Dump	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Card Terminal Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 RFID Card Receipt	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Empty Template	KPM150	<input type="checkbox"/>	
<input type="checkbox"/>	KPM150 Image Template	KPM150	<input type="checkbox"/>	
▶ KPM180 (8)				