Emby WISECP module

This module allows your company to provide public media services to customers through Emby accounts. It enables the creation of customer accounts on a pre-configured Emby server, allowing for the sale of media packages at different prices. It also integrates with the WISECP billing system for client data exchange, service activation, and blocking. The module relies on the Emby API for client account management, supports multiple languages, and offers administrators the ability to suspend, terminate, or unsuspend users, change passwords, and more. Clients can also manage their devices. Starting from version v1.2, the module supports Emby Connect functionality.

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Description

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Thanks to the module, the company is able to offer public media services to its customers based on Emby accounts.

The module is used to create customer accounts on the previously prepared Emby server. The module enables You to define multiple public media packages and sell them at different prices. The module creates a customer account according to the selected package. The client can have many independent accounts in the media.

Moreover, the module seamlessly integrates with Emby Connect functionality, enabling users to access their media accounts across different devices and platforms with ease.

For the correct operation of the module, a pre-prepared Emby installation is required (the module does not assist in the installation of the Emby server and assumes that such installation is ready for operation through API.) Module use Emby API to manage clients account.

We have prepared a detailed installation manual for the module, including all the steps needed to implement the module, including the preparation of the Emby server, including all installation steps such as PHP, Emby , SSL certificates etc.

Requirements:
WISECP: v3.1.5+, php: v8.x, Ioncube: V12+
Emby: v4.7+

Functions:

- Auto create and deploy client account
- The module uses only the API to manage the accounts

- Module supports multilingualism **(Arabic, Bosnian, Czech, German, Greek, English, Spanish, Persian, French, Hungarian, Indonesian, Italian, Georgian, Latvian, Dutch, Polish, Portuguese, Romanian, Ukrainian)**
- The module shows all user info: enabled user libraries, active devices etc.
- Link to instructions for setting up the service in the client area.
- Emby Connect Integration: Seamlessly access media accounts across different devices and platforms using Emby Connect functionality.

Available options in the admin panel:

- Create users
- Suspend users
- Terminate users
- Unsuspend users
- Change users password
- Change Package
- Drop all devices
- API connection status
- List of active devices
- List of enabled user libraries

Available options in the client panel:

- List of active devices
- List of enabled user libraries
- Drop all devices
- Change the Emby user password
- Add/Manage Emby Connect account

Screenshot of the client area

Details | Additional Services | Upgrade | Cancellation Request | Order ID #188

Renew Now

General Information	Invoice #298
Service Group	Media
Service Name	emby-test.uuq.pl
Services Status	Active
Payment Period	Monthly
Renewed On	03.07.2024
Next Due Date	03.08.2024
Amount : 20zł	

User manual | Web interface | Drop All Devices | Emby Connect

Management Media User

Username em-4-188-by

Status Enable

Password .....

Save

Emby Connect Username: Username not entered

Libraries Movies Movies

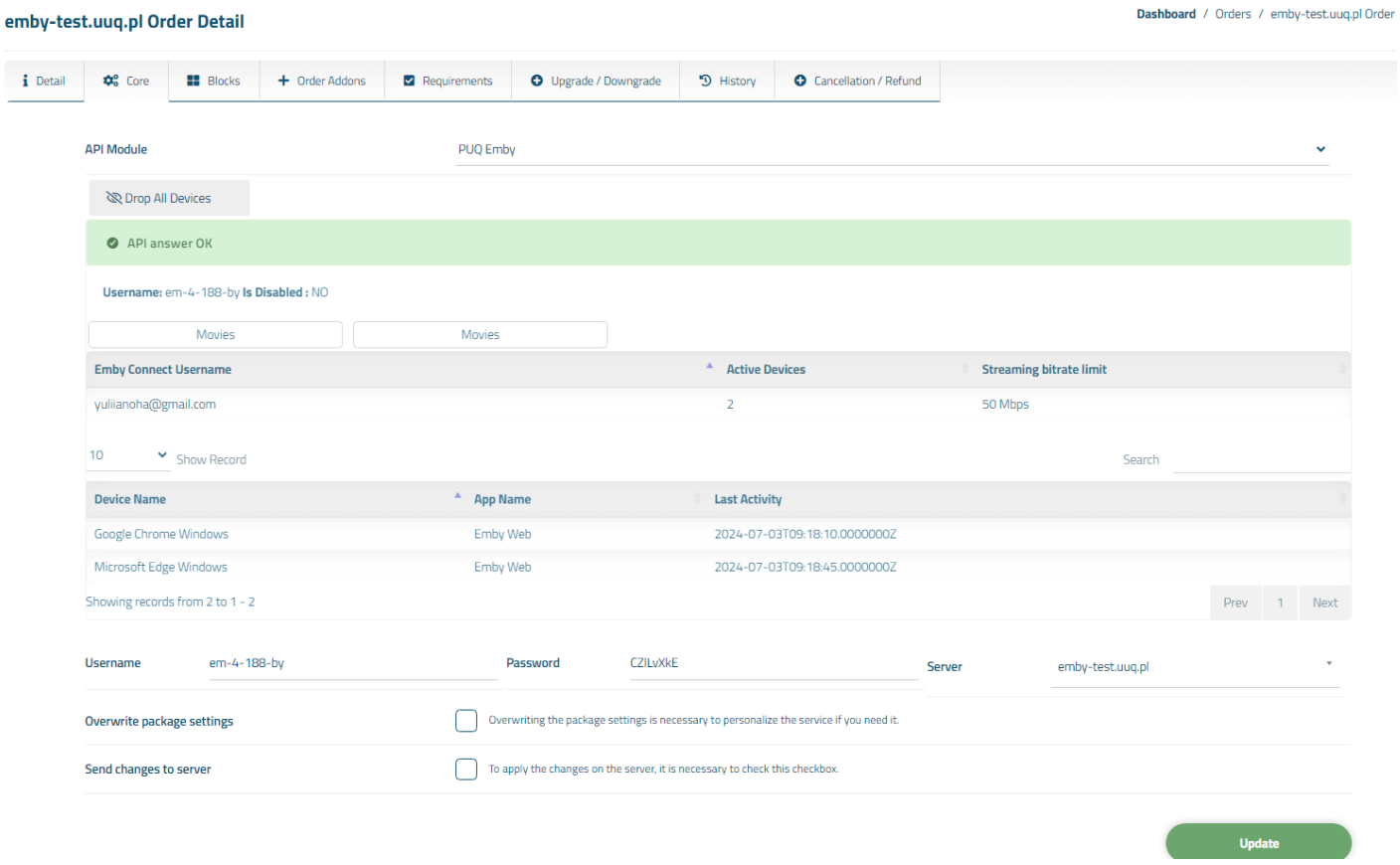
Active Devices

10 Show Record

Search

Device Name	App Name	Last Activity
No data available in table		

Screenshot of the Admin area



Changelog

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v1.2 Released 04-07-2024

- Added the capability to link an Emby Connect Username to the account.
- Introduced a new tab for managing Emby Connect Username in the Client Area.
- Client area more adapted for mobile version
- Buttons for copying login and password have been added to the client area
- Optimized.

---

v1.1 Released 15-02-2024

- Introduced a "Show" button for displaying service passwords in the Client Area.
- Fixed a bug with some cases where it was not possible to delete the server
- Improved security

---

v1.0 Released 27-12-2023

First version

Installation and configuration guide

Setup (install/update)

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> To install and update a module, you must perform one and the same action.

1. Download the latest version of the module.

```
wget http://download.puqcloud.com/WISECP/Product/PUQ_WISECP-Emby/PUQ_WISECP-Emby-latest.zip
```

> All versions are available: https://download.puqcloud.com/WISECP/Product/PUQ_WISECP-Emby/

2. Unzip the archive with the module.

```
unzip PUQ_WISECP-Emby-latest.zip
```

3. Copy and Replace "puqEmby" from "PUQ_WISECP-Emby" to "WISECP_WEB_DIR/coremio/modules/Product/"

License Activation

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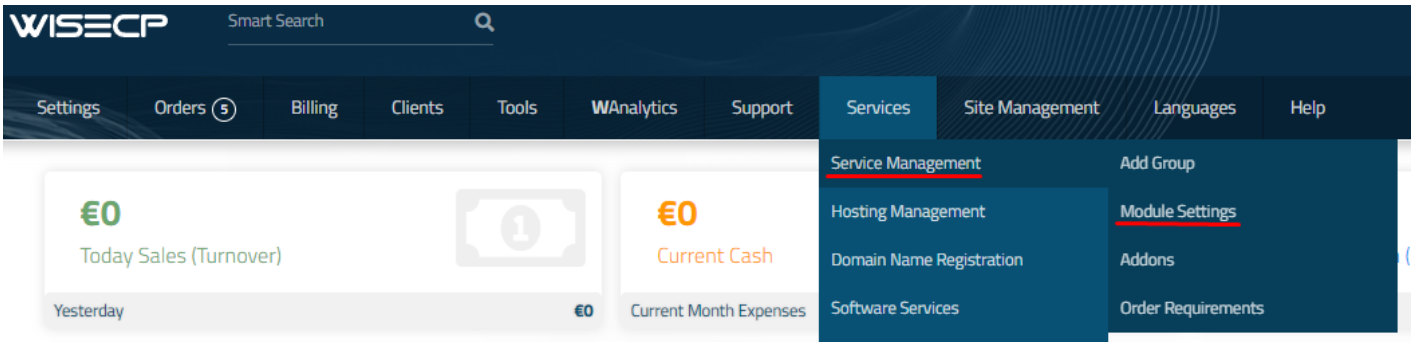
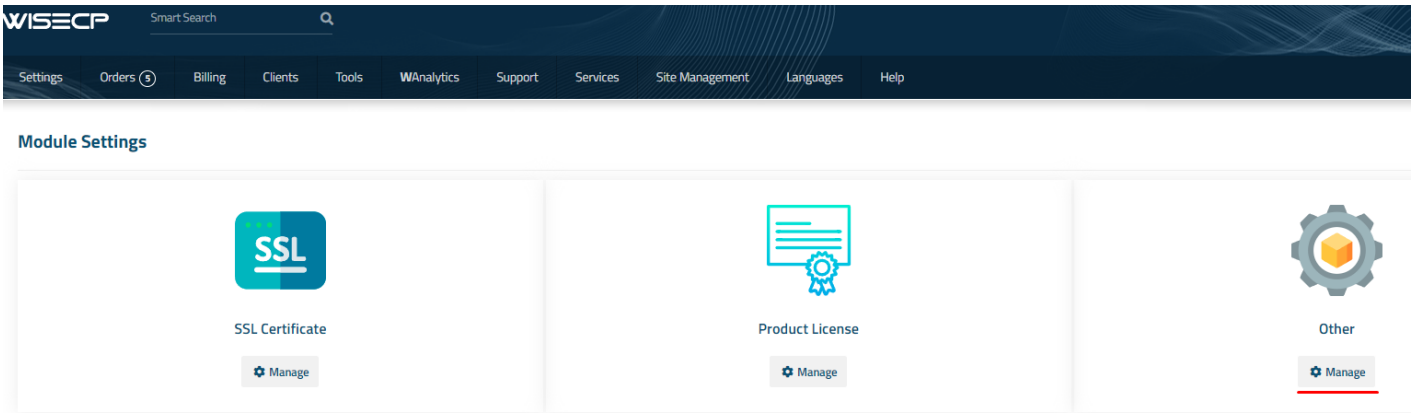
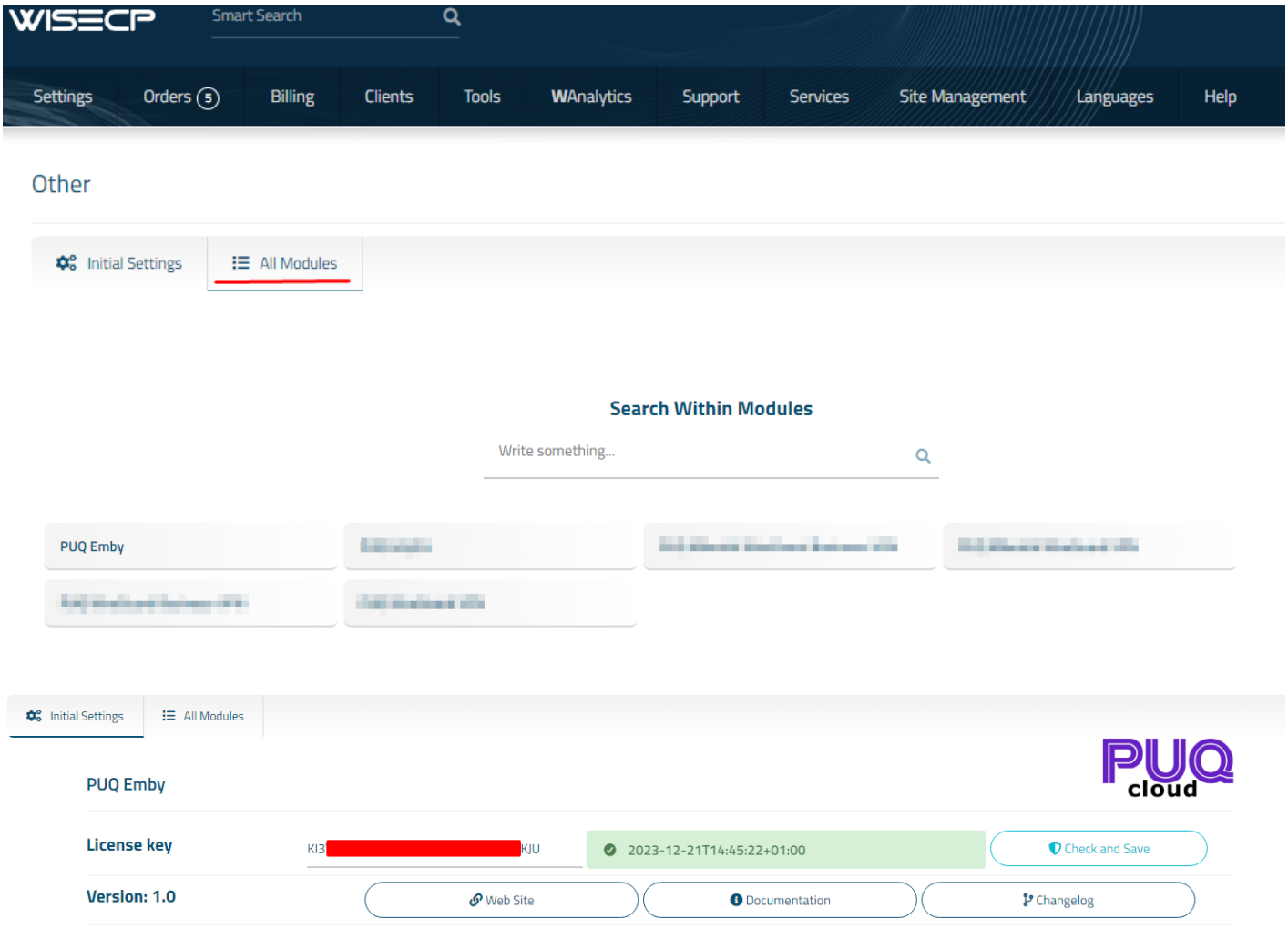
1. Log in to the administrative area of your **WISECP**.

2. Go to module configuration.

```
Services -> Service Management -> Module Settings -> Other -> All Modules -> PUQ Emby
```






WISECP
Smart Search
Settings
Orders 5
Billing
Clients
Tools
WAnalytics
Support
Services
Site Management
Languages
Help
Other
Initial Settings
All Modules
Search Within Modules
Write something...
PUQ Emby

Initial Settings
All Modules
PUQ Emby
PUQ cloud
License key
KI3
KJU
2023-12-21T14:45:22+01:00
Check and Save
Version: 1.0
Web Site
Documentation
Changelog

Setup guide: Emby setup

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1. Install Emby on your server

To simplify deployment and help automate this for as many users as possible, we provide a BASH script to handle repo installation as well as installing Emby. All you need to do is run this command on your system

```
wget https://github.com/MediaBrowser/Emby.Releases/releases/download/4.7.14.0/emby-server-deb_4.7.14.0_amd64.deb
```

```
dpkg -i emby-server-deb_4.7.14.0_amd64.deb
```

2. SSL certificate generation:

```
sudo apt install nginx certbot python3-certbot-nginx
```

```
sudo certbot --nginx --agree-tos --redirect --hsts --staple-ocsp --email YOUR_EMAIL -d DOMAIN_NAME
```

```
echo "0 0 * * *  root  certbot renew --quiet --no-self-upgrade --post-hook 'systemctl reload nginx'" | sudo tee -a /etc/cron.d/renew_certbot
```

3. Configure nginx from a subdomain

Create a file named nginx.conf.

```
cd /etc/nginx/conf.d/
nano nginx.conf
```

Then, insert the following text, replacing DOMAIN_NAME with your domain.

```
# Uncomment the commented sections after you have acquired a SSL Certificate
server {
        listen 80;
        #listen [::]:80;
        server_name DOMAIN_NAME;

        # Uncomment to redirect HTTP to HTTPS
        return 302 https://$host$request_uri;
}

server {
        listen 443 ssl http2;
        #listen [::]:443 ssl http2;
        server_name DOMAIN_NAME;

        ## The default `client_max_body_size` is 1M, this might not be enough for some
posters, etc.
        client_max_body_size 20M;

        # use a variable to store the upstream proxy
        # in this example we are using a hostname which is resolved via DNS
        # (if you aren't using DNS remove the resolver line and change the variable to point
to an IP address e.g `set $emby 127.0.0.1`)
        set $emby 127.0.0.1;
        resolver 127.0.0.1 valid=30;

        ssl_certificate /etc/letsencrypt/live/DOMAIN_NAME/fullchain.pem;
        ssl_certificate_key /etc/letsencrypt/live/DOMAIN_NAME/privkey.pem;
        include /etc/letsencrypt/options-ssl-nginx.conf;
        ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem;
        add_header Strict-Transport-Security "max-age=31536000" always;
        ssl_trusted_certificate /etc/letsencrypt/live/DOMAIN_NAME/chain.pem;
        ssl_stapling on;
        ssl_stapling_verify on;
```

```
        # Security / XSS Mitigation Headers
        # NOTE: X-Frame-Options may cause issues with the webOS app
        add_header X-Frame-Options "SAMEORIGIN";
        add_header X-XSS-Protection "0"; # Do NOT enable. This is obsolete/dangerous
        add_header X-Content-Type-Options "nosniff";

        # COOP/COEP. Disable if you use external plugins/images/assets
        add_header Cross-Origin-Opener-Policy "same-origin" always;
        add_header Cross-Origin-Embedder-Policy "require-corp" always;
        add_header Cross-Origin-Resource-Policy "same-origin" always;

        # Permissions policy. May cause issues on some clients
        add_header Permissions-Policy "accelerometer=(), ambient-light-sensor=(), battery=(),
bluetooth=(), camera=(), clipboard-read=(), display-capture=(), document-domain=(), encrypted-
media=(), gamepad=(), geolocation=(), gyroscope=(), hid=(), idle-detection=(), interest-
cohort=(), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(), payment=(),
publickey-credentials-get=(), serial=(), sync-xhr=(), usb=(), xr-spatial-tracking=()"
always;

        # Tell browsers to use per-origin process isolation
        add_header Origin-Agent-Cluster "?1" always;


        # Content Security Policy
        # See: https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP
        # Enforces https content and restricts JS/CSS to origin
        # External Javascript (such as cast_sender.js for Chromecast) must be
whitelisted.
        # NOTE: The default CSP headers may cause issues with the webOS app
        #add_header Content-Security-Policy "default-src https: data: blob:
http://image.tmdb.org; style-src 'self' 'unsafe-inline'; script-src 'self' 'unsafe-inline'
https://www.gstatic.com https://www.youtube.com blob:; worker-src 'self' blob:; connect-src
'self'; object-src 'none'; frame-ancestors 'self'";

        location = / {
                return 302 http://$host/web/;
                #return 302 https://$host/web/;
        }

        location / {
```

```
                # Proxy main Emby traffic
                proxy_pass http://$emby:8096;
                proxy_set_header Host $host;
                proxy_set_header X-Real-IP $remote_addr;
                proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
                proxy_set_header X-Forwarded-Proto $scheme;
                proxy_set_header X-Forwarded-Protocol $scheme;
                proxy_set_header X-Forwarded-Host $http_host;

                # Disable buffering when the nginx proxy gets very resource heavy upon
streaming
                proxy_buffering off;
        }

        # location block for /web - This is purely for aesthetics so /web/#!/ works instead
of having to go to /web/index.html/#!/
        location = /web/ {
                # Proxy main Emby traffic
                proxy_pass http://$emby:8096/web/index.html;
                proxy_set_header Host $host;
                proxy_set_header X-Real-IP $remote_addr;
                proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
                proxy_set_header X-Forwarded-Proto $scheme;
                proxy_set_header X-Forwarded-Protocol $scheme;
                proxy_set_header X-Forwarded-Host $http_host;
        }

        location /socket {
                # Proxy Emby Websockets traffic
                proxy_pass http://$emby:8096;
                proxy_http_version 1.1;
                proxy_set_header Upgrade $http_upgrade;
                proxy_set_header Connection "upgrade";
                proxy_set_header Host $host;
                proxy_set_header X-Real-IP $remote_addr;
                proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
                proxy_set_header X-Forwarded-Proto $scheme;
                proxy_set_header X-Forwarded-Protocol $scheme;
                proxy_set_header X-Forwarded-Host $http_host;
        }
```

```
}
```

Restarting nginx

```
sudo service nginx restart
```

Add server (Emby server)

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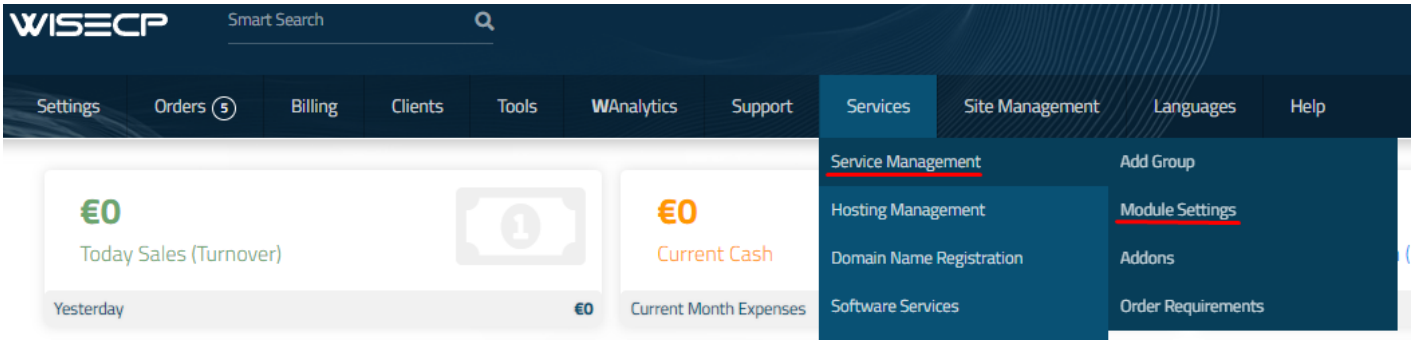
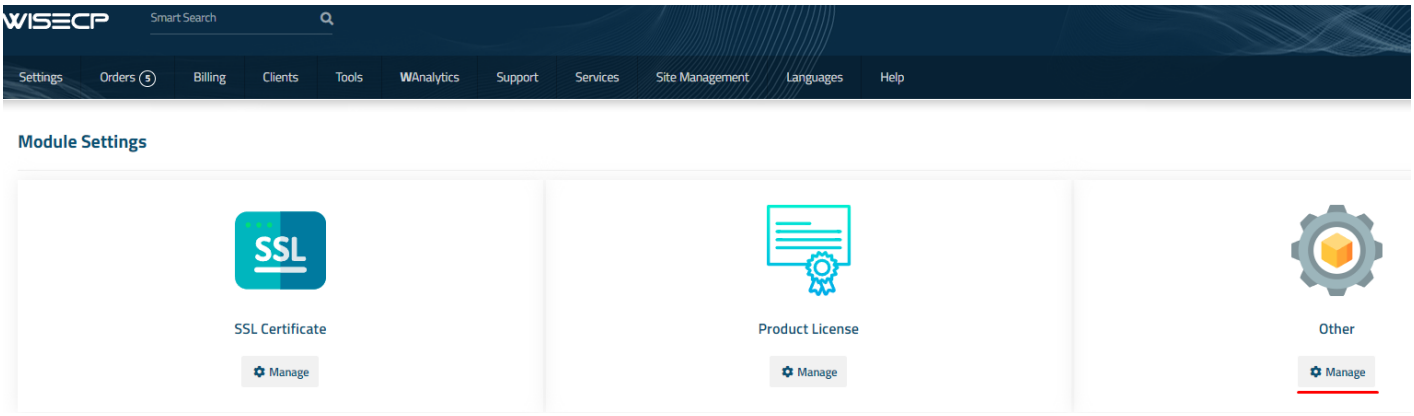
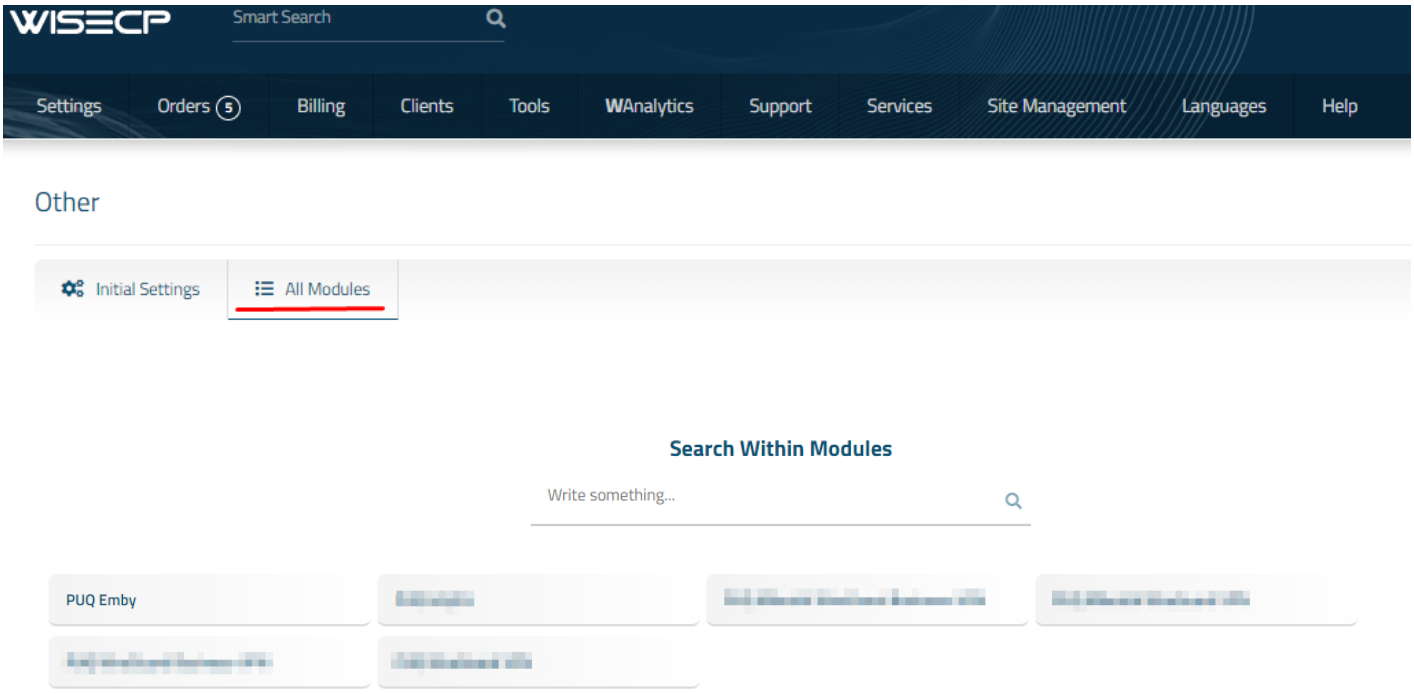
1. Log in to the administrative area of your **WISECP**.

2. Go to module configuration.

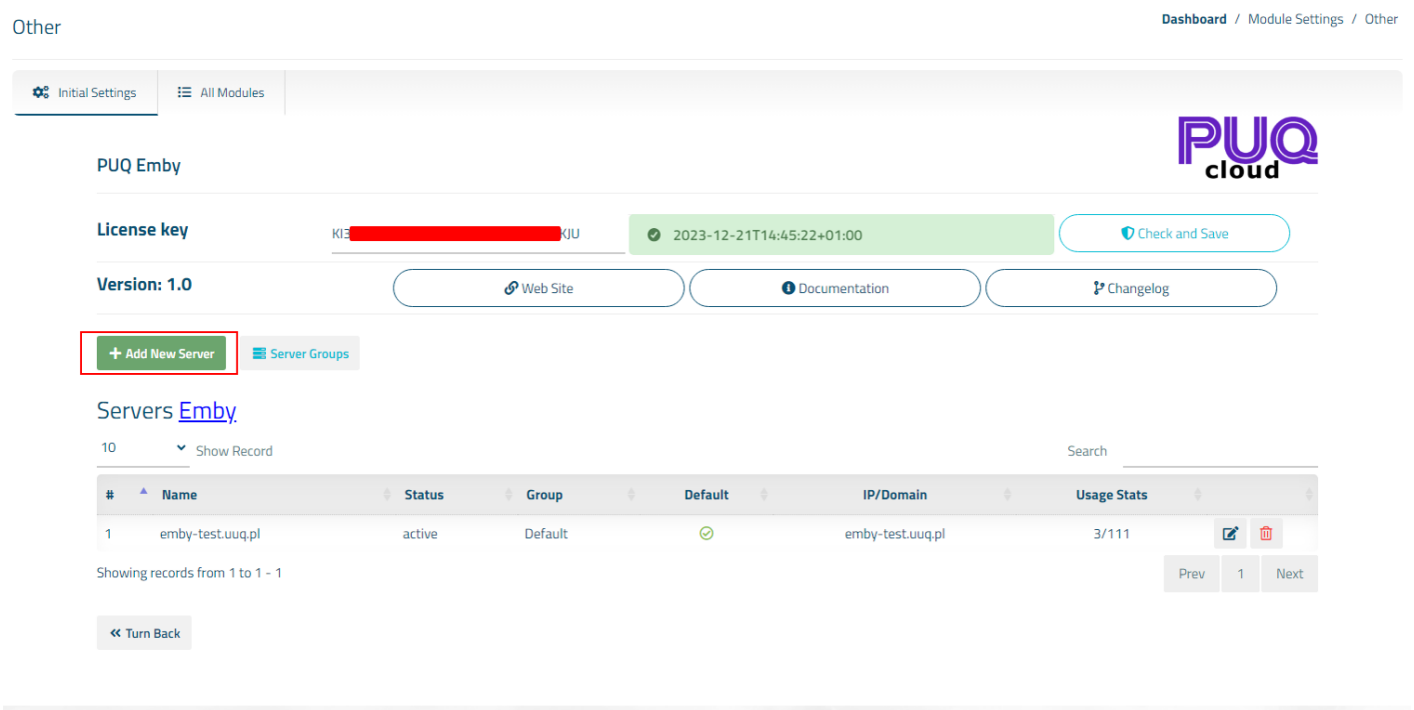
```
Services -> Service Management -> Module Settings -> Other -> All Modules -> PUQ Emby
```







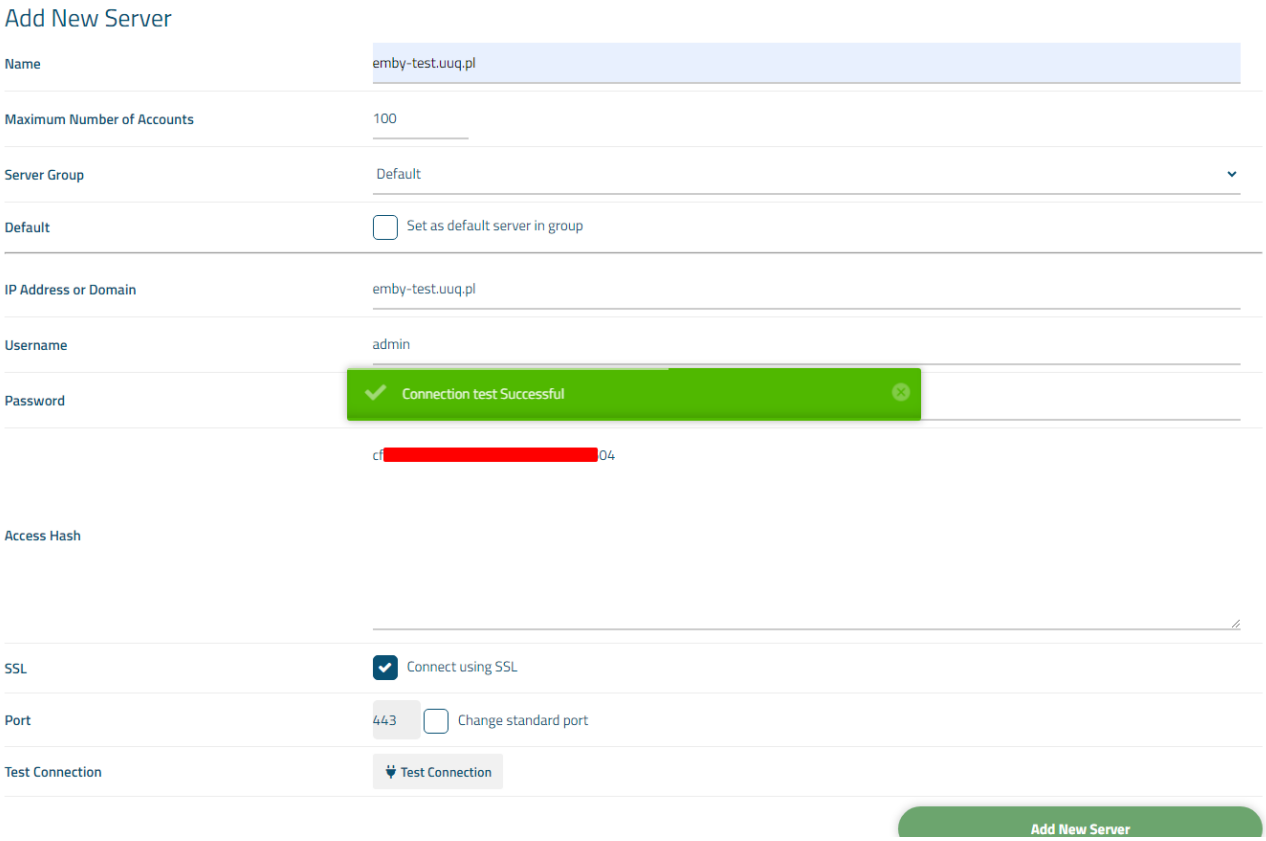
3. In the opened page, click the '**Add Server**' button.



4. On the opened page, enter all the necessary information:

- **Name**: Displayed name of the server.
- **Maximum Number of Accounts**: The number of services that can be on this server.
- **Server Group**: Optionally, choose the server group.

- **IP Address or Domain**: The address of the Emby server you are connecting to.
- **Username:** is the username for the account on Emby.
- **Password:** is the password for the account on Emby.
- **Access Hash**: API key that you created in the previous step on the Emby server.
- Check the **SSL** box if you want to use SSL-encrypted connection. If necessary, specify the port and perform a connection test.



Service configuration

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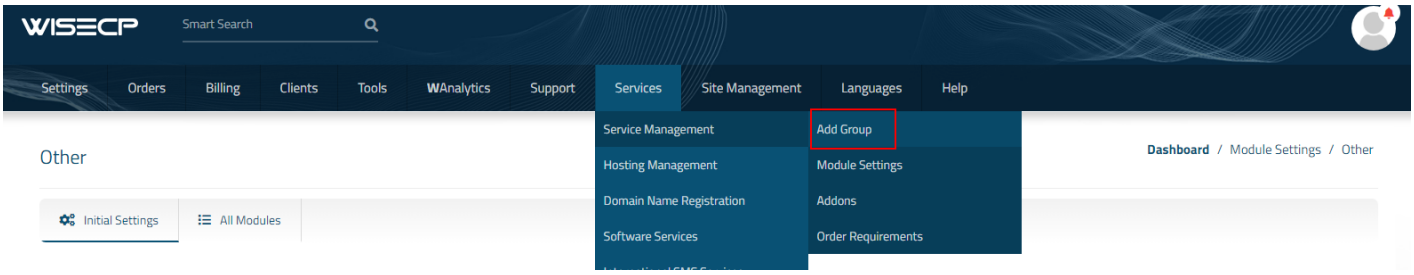
> If you do not have a **Service Group** where you want to place the new service, you need to create a new **Service Group**

1. Log in to the administrative area of your **WISECP**.

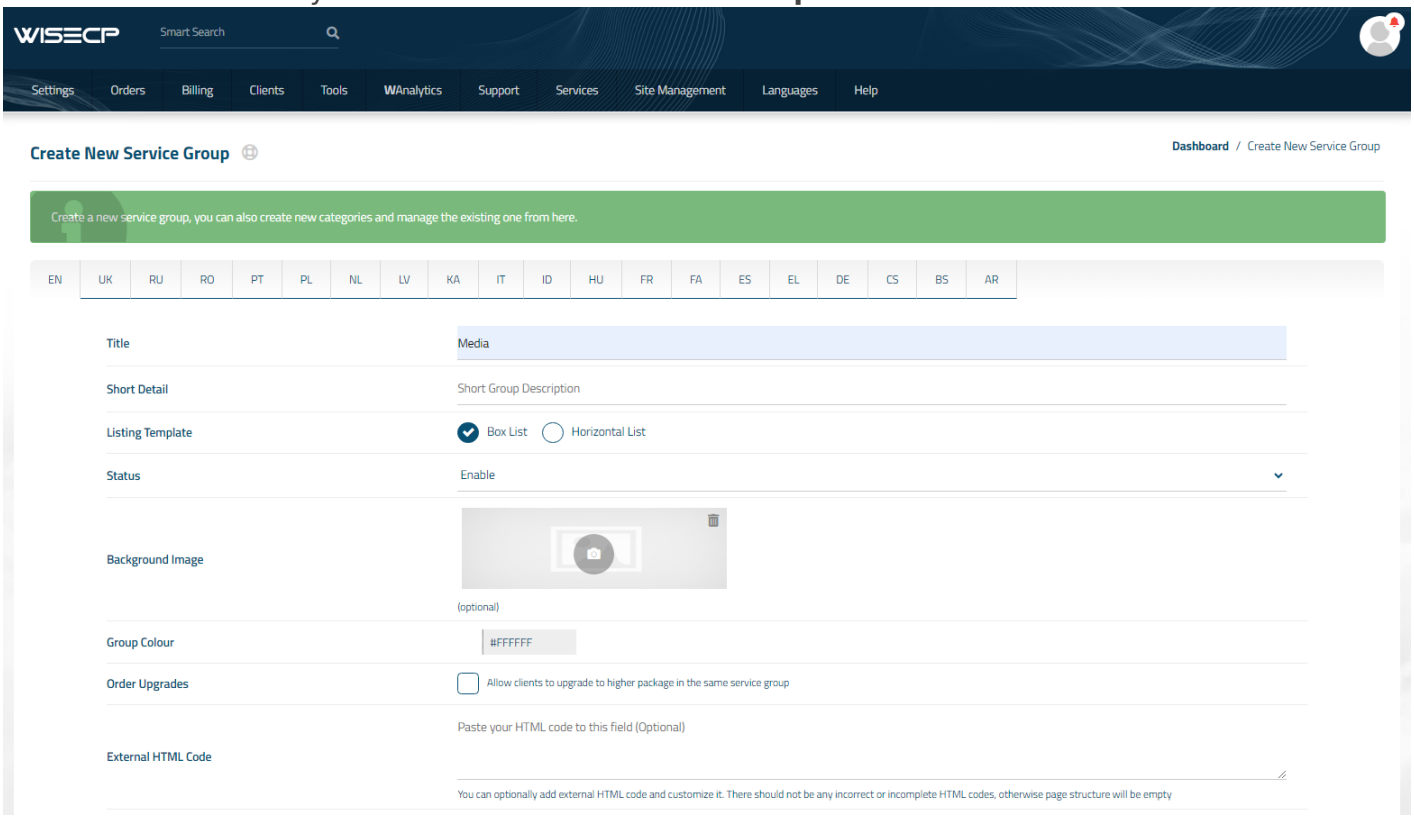
2. Create New Service Group

Go to

```
Services -> Service Management -> Add Group
```



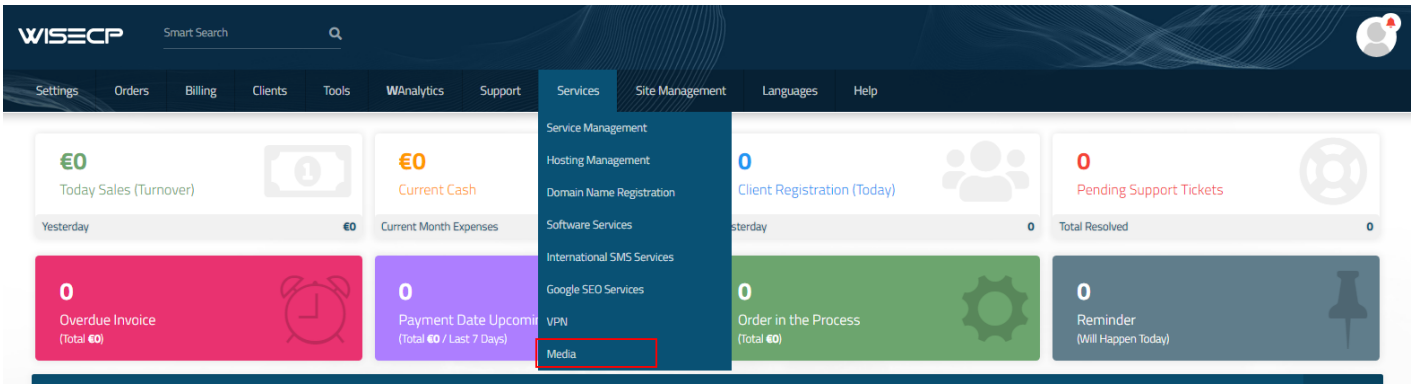
Enter all the necessary data and click the '**Create Group**' button.



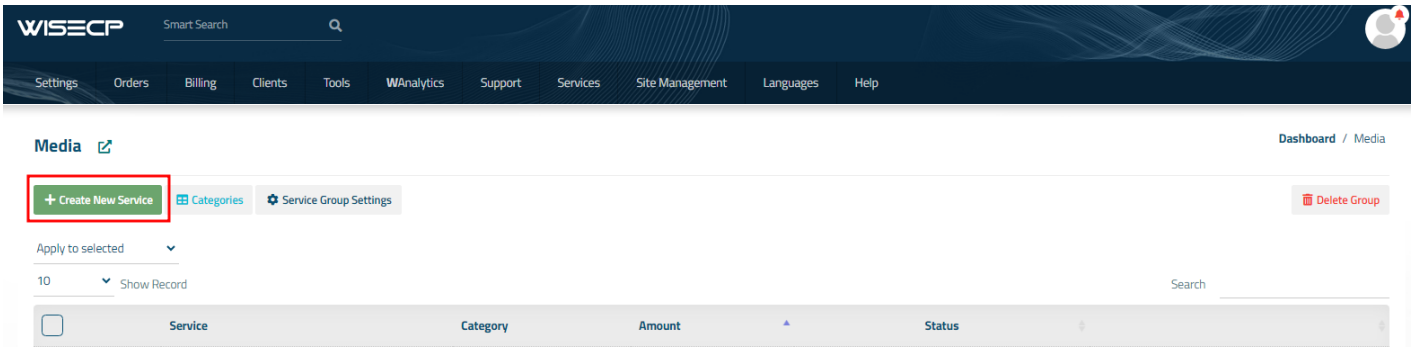
3. Adding a New Service

Go to

```
Services -> our service group where you need to add the new service.
```

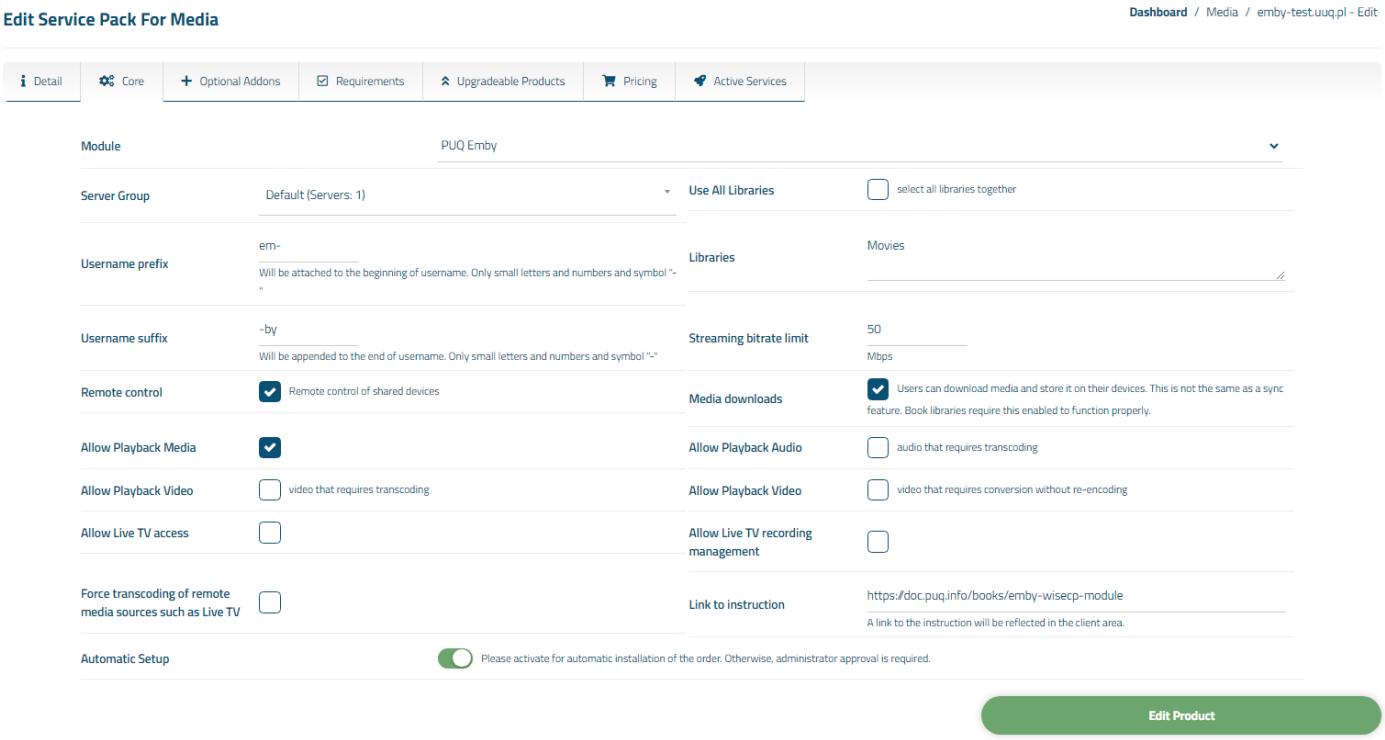


In the opened window, click the '**Create New Service**' button.



On the opened page, enter all the necessary details for your new service and navigate to the '**Core** ' tab.

Select the '**PUQ Emby**' module from the drop-down list of modules.



4. Fill in the configuration options according to your preferences.

Libraries:

- **Use All Libraries**: Choosing all of libraries from your Jellyfin server
- **Libraries**: The libraries you want to make available to customers of this product.
  (IMPORTANT! Start a new line for each new library)
  Example:
  "Movies
  Beginner`s Programming Course
  Comedy"
  IMPORTANT!
  If you have a folder named "-", please enter it not as the first one or rename it.

If you don't want any folder to be accessible, type "-".

User Configuration:

- **Streaming bitrate limit:** An optional per-stream bitrate limit for all out of network devices. This is useful to prevent devices from requesting a higher bitrate than your internet connection can handle. This may result in increased CPU load on your server in order to transcode videos on the fly to a lower bitrate.
- **Remote control:** Remote control of shared devices (DLNA devices are considered shared until a user begins controlling them)
- **Media downloads:** Users can download media and store it on their devices. This is not the same as a sync feature. Book libraries require this enabled to function properly.
- **Username prefix/Username suffix:** Necessary in order to generate a username for the service, in the format: **prefix<client_id>-<service_id>suffix**

Allow playback (Restricting access to transcoding may cause playback failures in clients due to unsupported media formats)

- **media**
- **audio that requires transcoding**
- **video that requires transcoding**
- **video that requires conversion without re-encoding**

Feature access:

- **Allow Live TV access**
- **Allow Live TV recording management**
- **Force transcoding of remote media sources such as Live TV**

Links

- **Link to instruction:** Link to the instruction, if filled out, it will be reflected in the client area

Add new library/item in Emby

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New library:

To create a new library, you should to **create a folder** in your Emby server.

First, navigate to the root of your project "/" and enter the following commands:

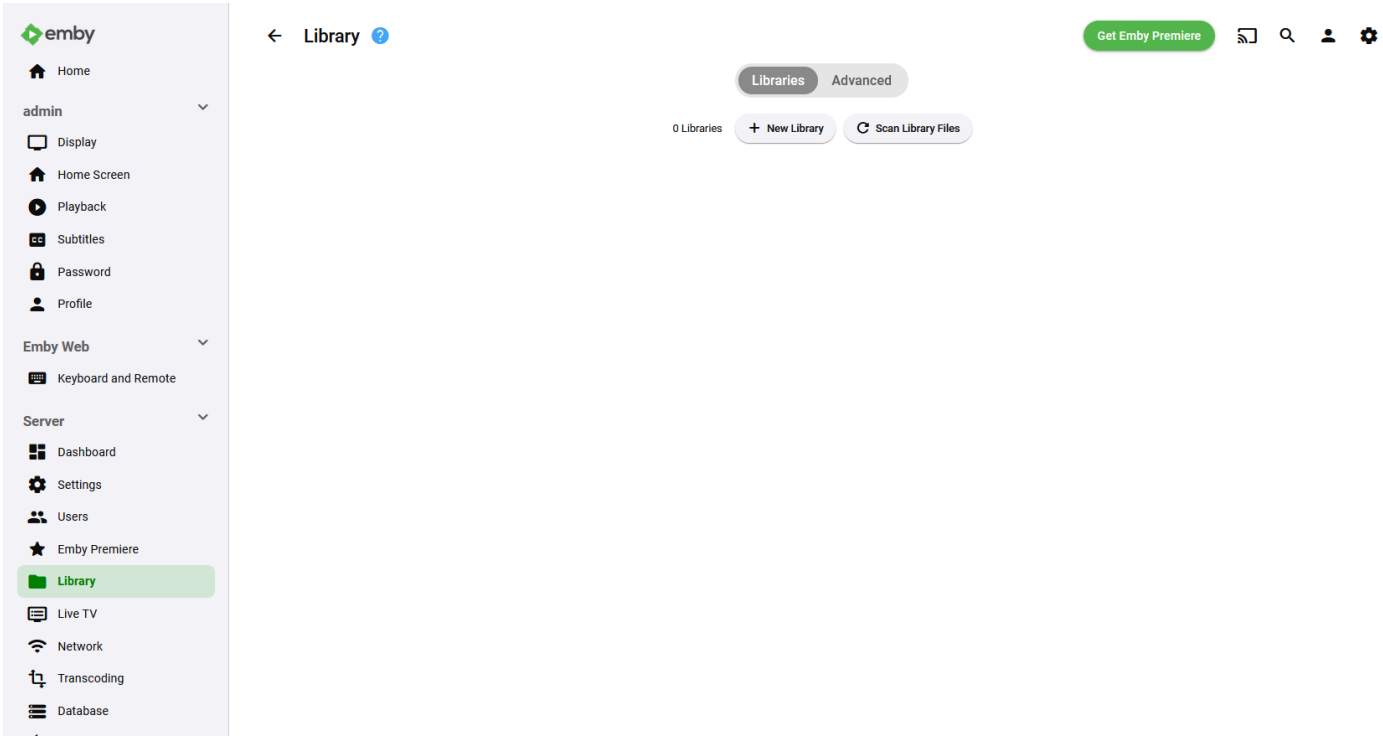
```
cd mnt
```

```
mkdir LIBRARY_NAME
```

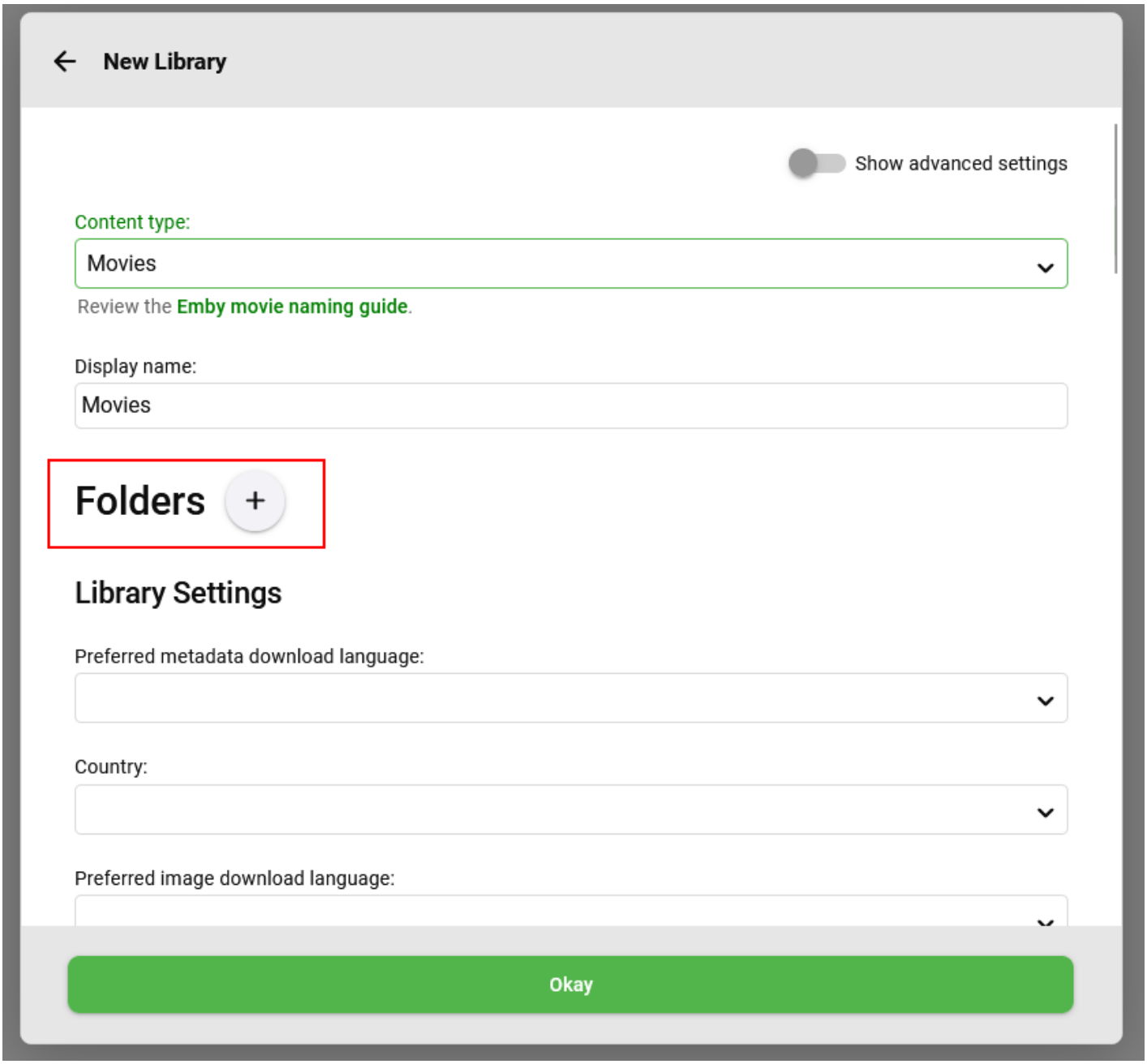
LIBRARY_NAME - The name of the new library.

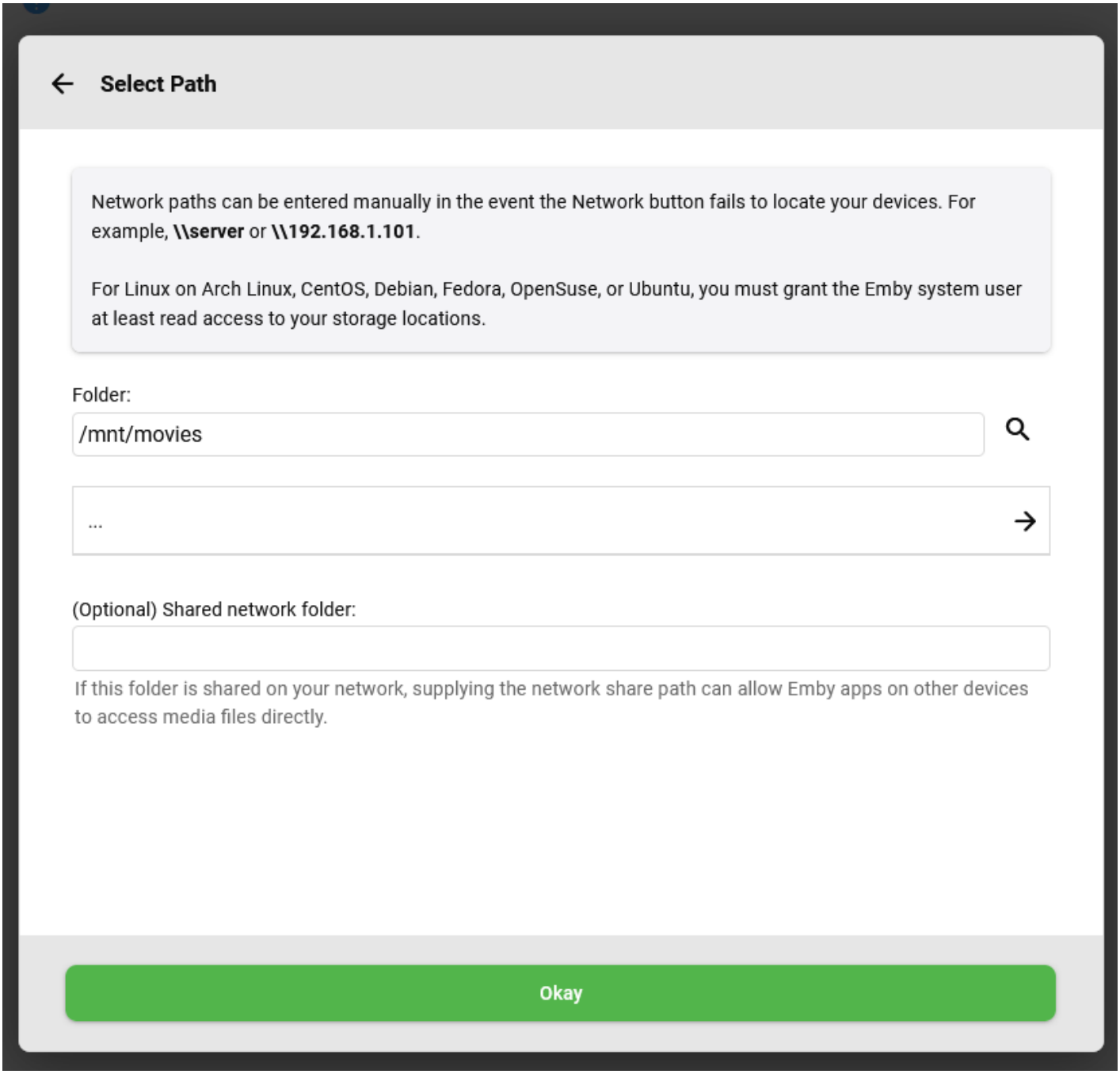
After creating a folder, let's create a library in Emby:

Add a new library:



Assign the appropriate folder to this library:


New Library
Show advanced settings
Content type:
Movies
Review the Emby movie naming guide.
Display name:
Movies
Folders
Library Settings
Preferred metadata download language:
Country:
Preferred image download language:
Okay



New item:

To download a new item, navigate to the root of your project "/" and enter the following commands:

```
cd mnt/LIBRARY_NAME
```

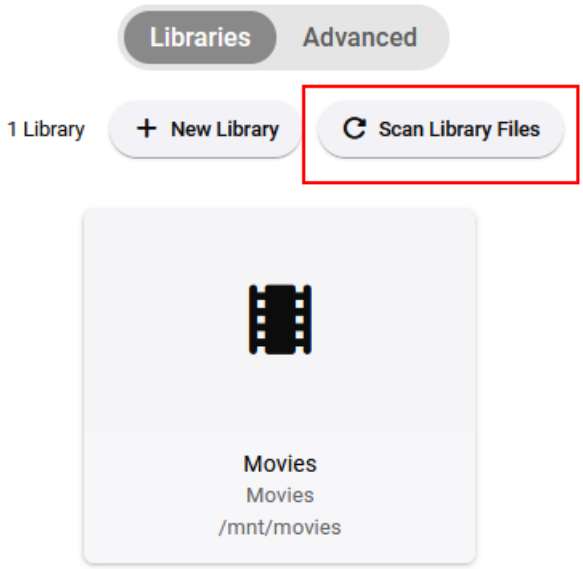
```
wget DOWNLOAD_ITEM_URL
```

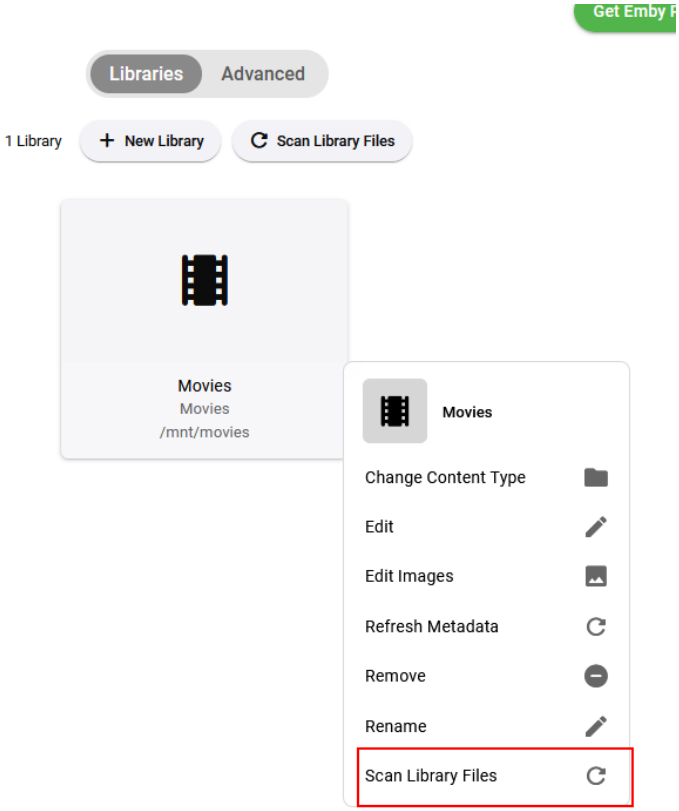
LIBRARY_NAME - The name of the library.

DOWNLOAD_ITEM_URL - The download URL of the item you want to upload to the server.

After all

Scan all libraries by clicking on the "Scan All Libra
clicking on the three dots and selecting "Scan Libr





Getting Access Hash (API key)

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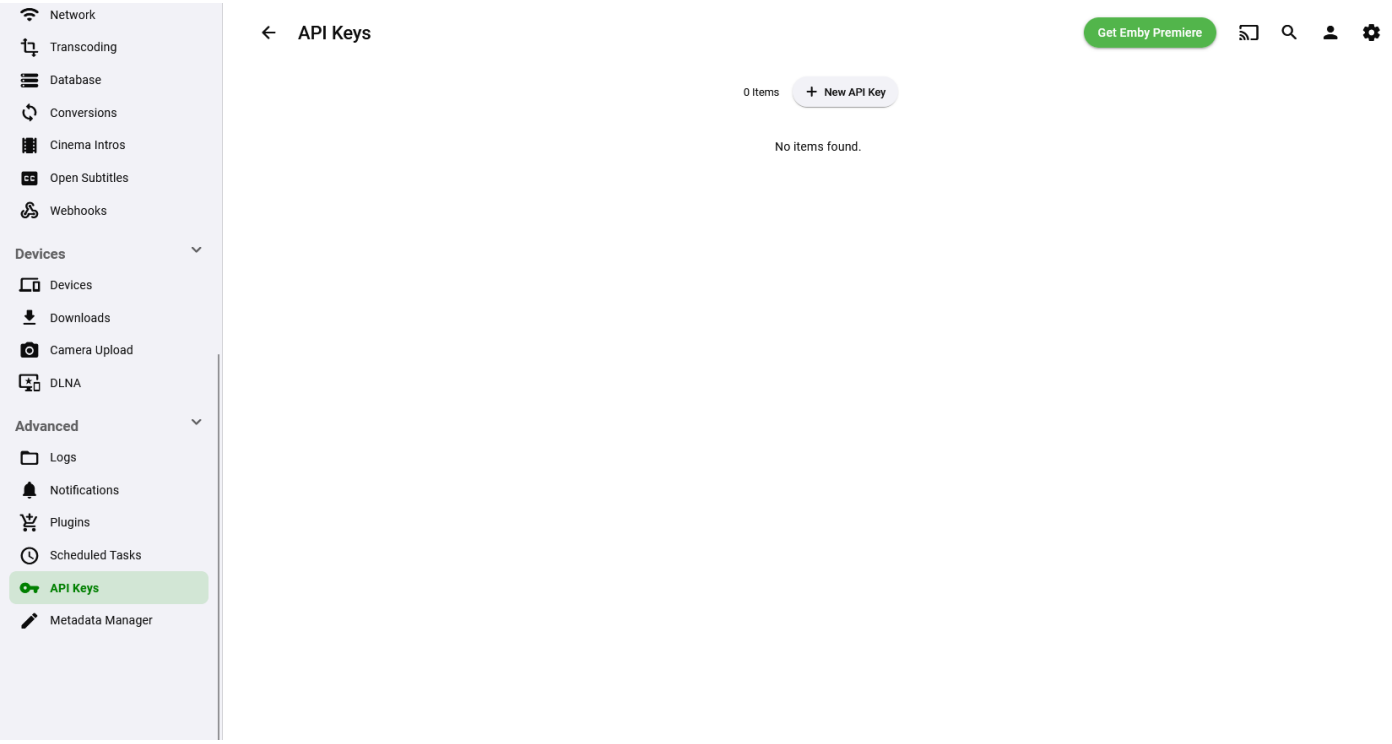
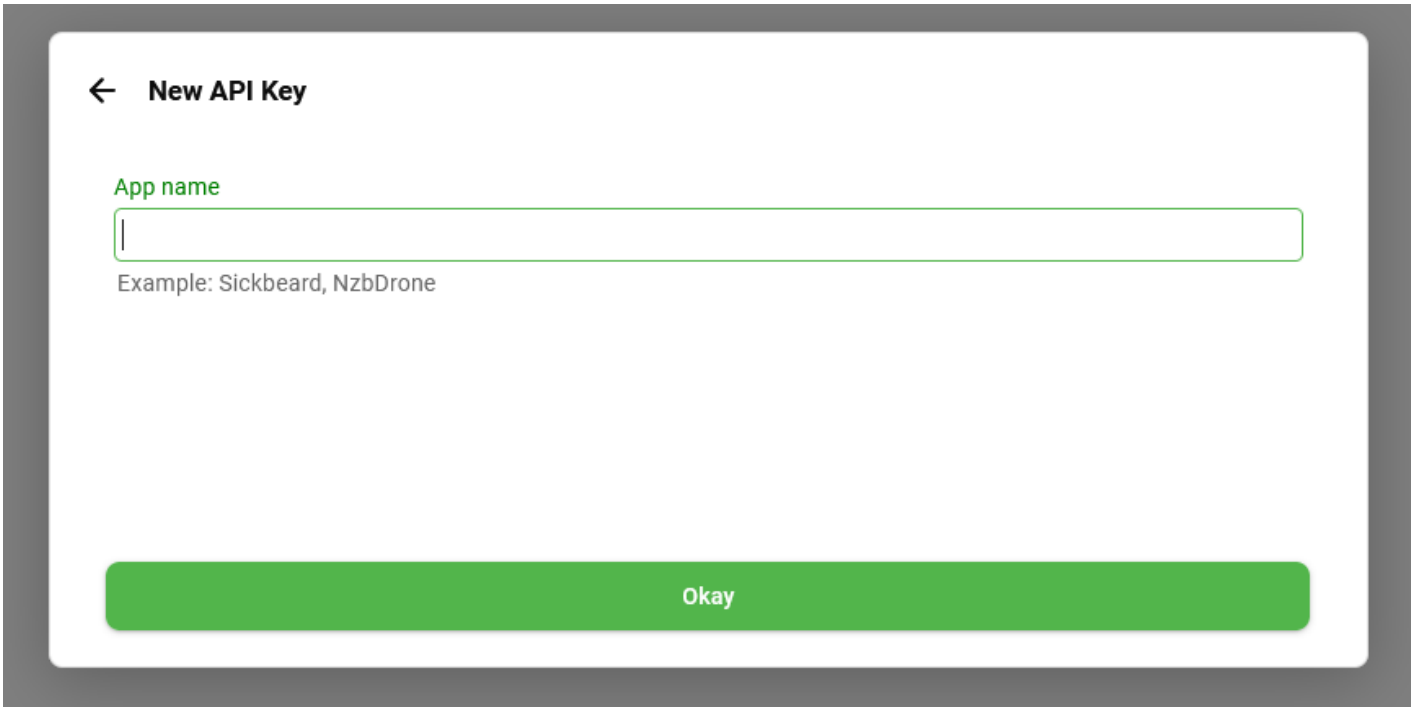
```
Dashboard -> API Keys
```

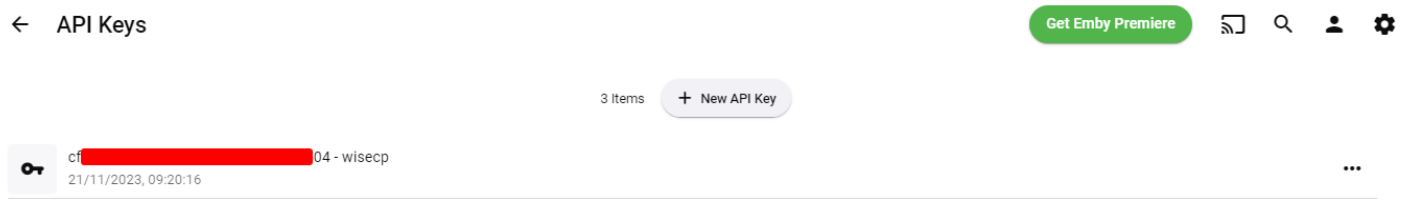
Create a new API Key



Whrite an App Name



Now you can getting an API key



Client Area

Product Home Screen

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The end customer, after logging in to his own customer panel, has access to the following information and options

- Link to the user manual (which was defined by the administrator when setting up the service.).
- Emby server address
- Authorization data
- User informations
- List of active devices
- List of enabled user libraries
- Drop all devices
- Change the Emby user password
- Add/Manage Emby Connect account

Screenshot of the client area

Details | Additional Services | Upgrade | Cancellation Request | Order ID #188

Renew Now

General Information	Invoice #298
Service Group	Media
Service Name	emby-test.uuq.pl
Services Status	Active
Payment Period	Monthly
Renewed On	03.07.2024
Next Due Date	03.08.2024
Amount : 20zł	

User manual | Web interface | Drop All Devices | Emby Connect

Management Media User

Username em-4-188-by

Status Enable

Password .....

Save

Emby Connect Username: Username not entered

Libraries Movies Movies

Active Devices

10 Show Record

Search

Device Name	App Name	Last Activity
No data available in table		

Client Area

Manage Emby Connect

Emby module **WISECP**

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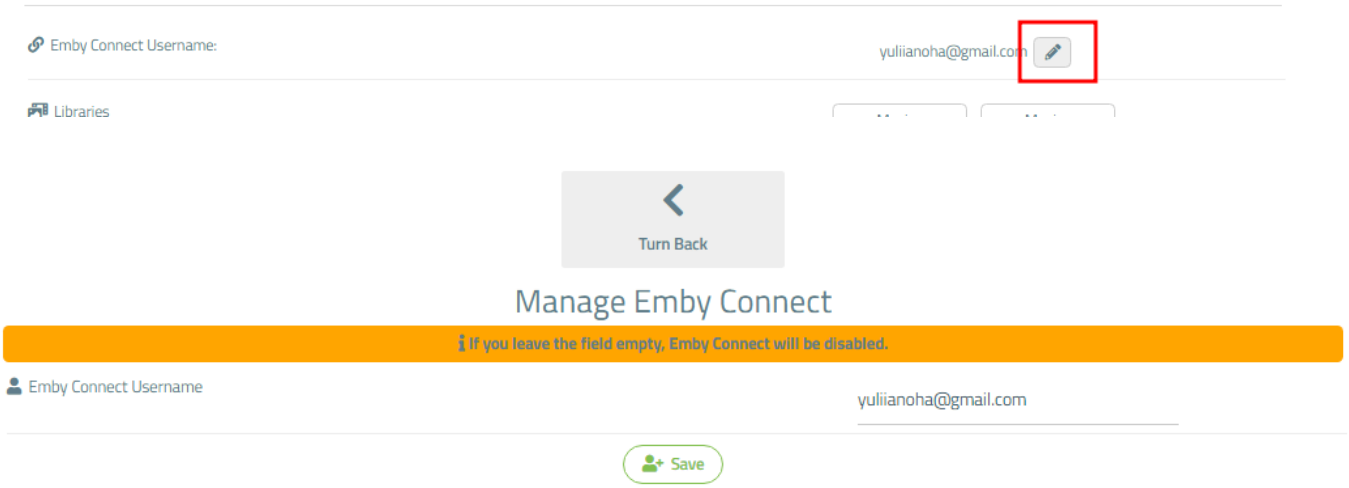
Here you can add an Emby Connect Username for main user

If you leave the field empty, Emby Connect will be disabled.

Register the email in **Emby Connect.**

One Emby Connect username can only be linked to one Emby account.



Admin Area

Admin Area

Order Detail

Emby module WISECP

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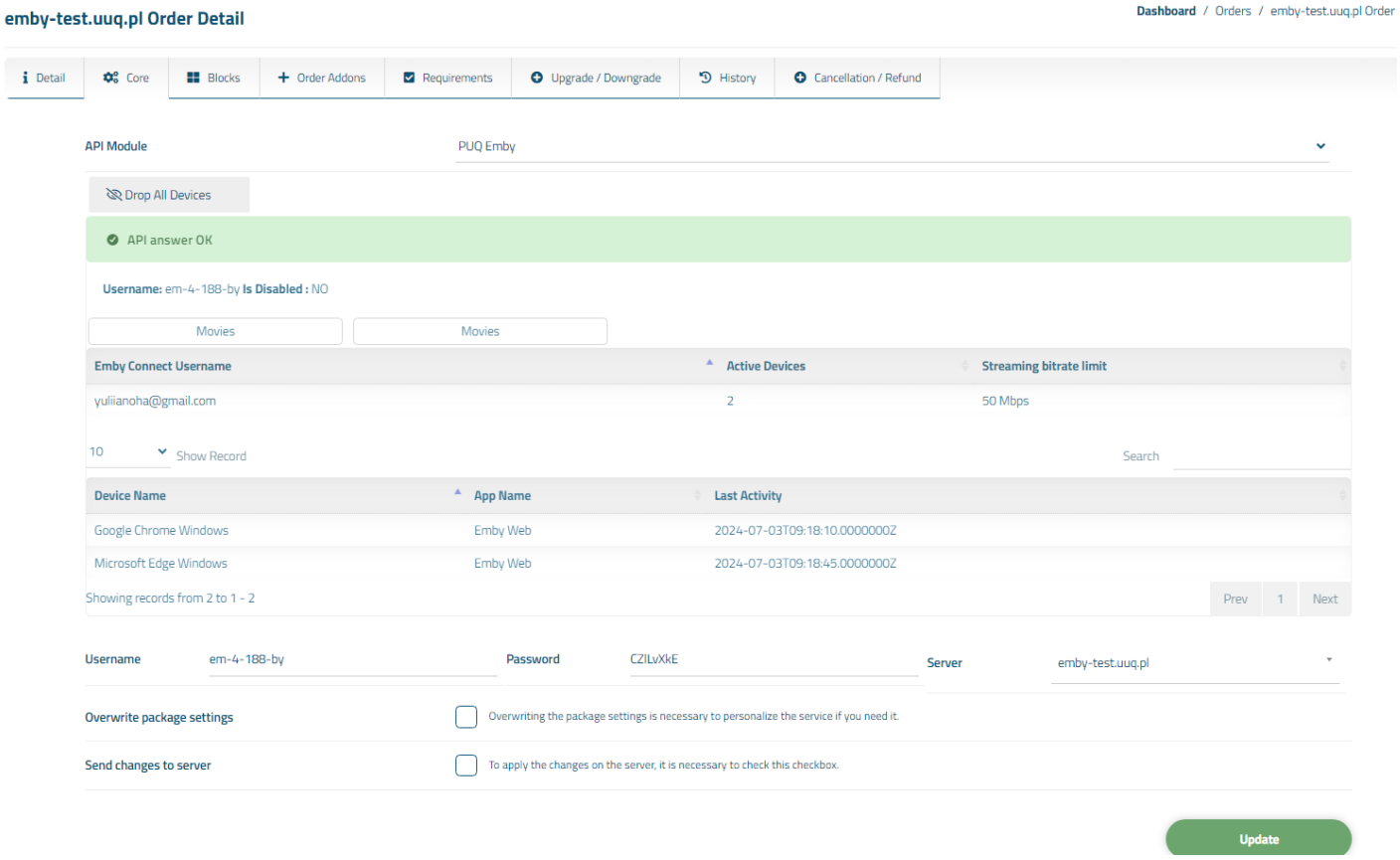
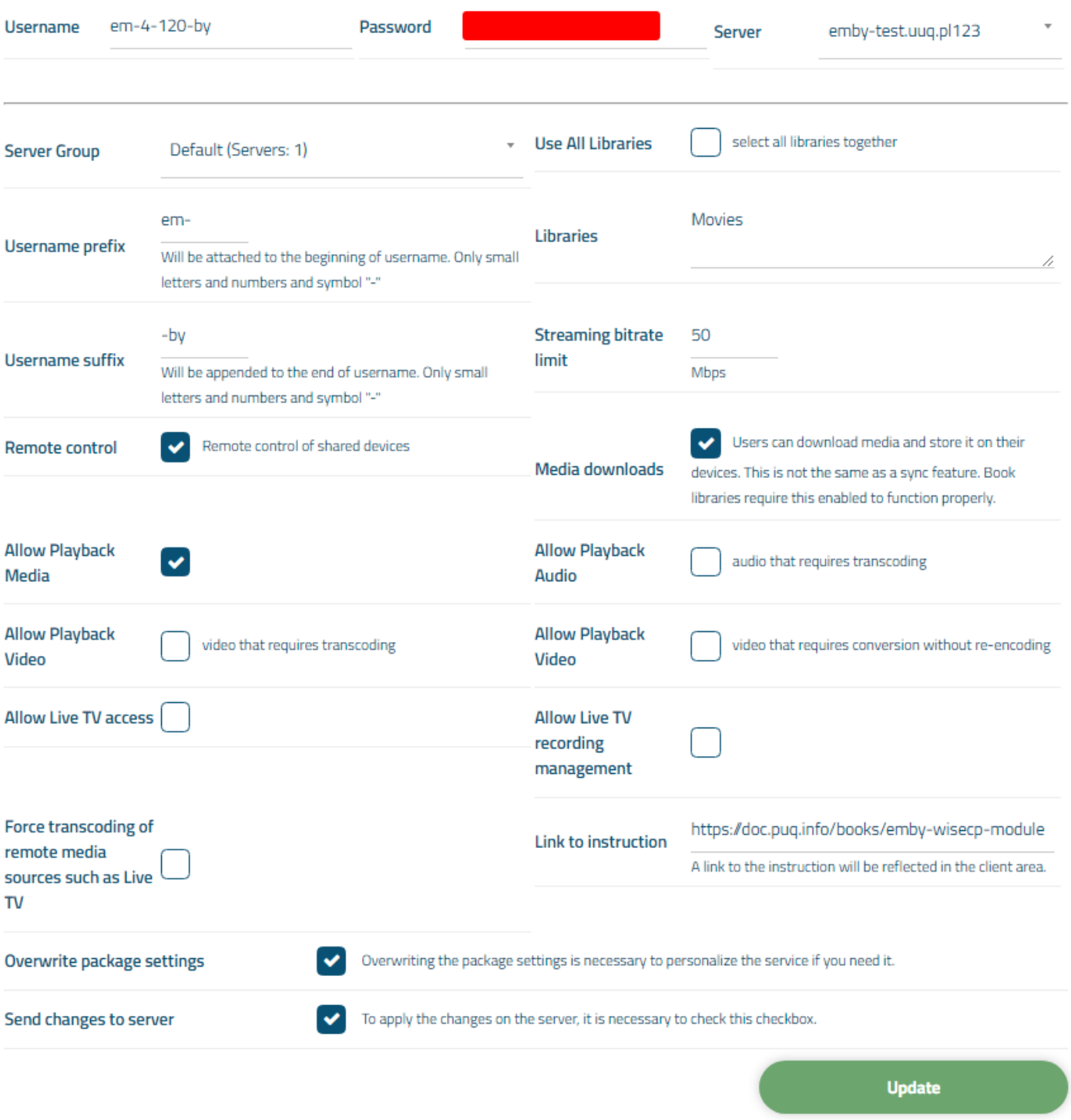
Navigate to the service you want to manage, then go to the '**Core**' tab.



In the opened tab, you have a view of the online status of the service. The available online information includes:

- Connection status to the API
- Information about the Emby account on the **Emby** server
- Information about the account

Also, below are fields with the client's personal data.

You can also individually override package options for the client by checking the '**Overwrite package settings**' box.

> After modifying the configuration options, check the '**Send changes to server**' box to save the data to the Emby server.