

EUPHONY GUIDE

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1 Architecture

1.1 Access

Euphony is an operating system that has been highly optimized for music playback with a selected set of essential software.

It is a so-called **headless** system. This means you **don't need a monitor or keyboard** attached to it for regular use. It will however **need to be connected to your network with an ethernet cable** (to access the user interface). You will also need at least **one DAC connected via USB** (for music playback).

Euphony can run on a regular PC, MAC, or a laptop, but it is best suited for a mini-PC or MAC mini.

Our recommended configuration (to guarantee the best sound quality) is at least **4GB RAM**, and a four gen (Haswell) or newer processor (**Intel i3 or better**). Lesser hardware will work fine, however the best possible sound quality will not be achieved.

To interact with Euphony you will only need a **Web Browser** (optimized for Chrome and other Webkit-based browsers - Opera, Safari) on any other **computer or mobile device** (either on your smartphone/tablet or another desktop computer).

1.2 Topology and licenses

Euphony operating system and it's default Stylus player are intended to be used on a single machine with DAC attached. In our opinion this will provide the best sound quality you can achieve on a particular system.

However, we also offer other music services in addition to the Stylus. Some of those services are 'servers' (they encompass both roles: Library manager and Player - like Roon), and some are only 'endpoints' (only have Player role - like squeezelite program). An endpoint is controlled remotely, through network connection and as such can be placed on a different machine. This enables **dual-machine** setups which some people prefer.

Disclaimer: *we do not advocate dual-machine setups but we also do not discourage it.* It's up to you.

If you want to have dual machine setup and want to benefit from finely tuned Euphony operating system on both machines you will have to buy 2 Euphony licenses. To make this more optimal, we provided two types of licenses:

- Regular, full price license which enables full functionality of the Euphony system - all music services are available for selection. You can use it in single machine setup but you can also use it as a server part in dual-machine setup.
- Endpoint only license (half price) which enables subset of music services - only endpoint-type services are available for selection (HQPlayer embedded, StylusEP, RoonBridge, Squeezelite, NAA, Airplay). This is intended for use on the endpoint side of a dual-machine setup.

You don't need to have Euphony on both machines in dual-machine setup. You can buy only Endpoint-type license and choose to have server part hosted on another system (although we won't deny that a lot of people who prefer dual-machine setups found that having Euphony on server side brings as much improvements to sound quality as having it on endpoint side.)

If you test dual-machine setup, regardless if your Euphony machine is in the server or endpoint role, during Trial registration you will have full functionality. Only when you buy endpoint only license and fully register you will have your selection of music services reduced to endpoint-type services.

1.3 Storage

Euphony installation has dedicated data partition for you music, configuration files, cache files and library database. You can also attach other USB or network devices and add them to the Music library or you can use internal tools to copy selected music to your data partition. If you have other internal drives you can also use them as part of the Music library. If you fear **delays or noise** while using network drives know that Stylus will try to seamlessly cache all played songs to Euphony drive so next time you add them to queue they will be played from there (and accessible even if your original drive is no longer connected).

1.4 Sound quality

Euphony is highly optimized for audio playback. We used every trick in the book to minimize latency and reduce jitter to barest minimums even on less powerful devices.

If you choose our own Stylus player and library management there are additional benefits.

If you worry about interference while playing from network or rotating disk drive you can choose **100% buffer** option which will put the whole song in RAM and play it from there.

2 Installation

There are 2 ways to get Euphony:

- Buy a Euphony Drive (SSD) with our pre-installed Euphony system
- Download and install an Euphony System image to a USB flash drive and boot from it.

2.1 Euphony Drive

When you buy a Euphony Drive (SSD) with our pre-installed Euphony Audio Transport you only need to physically install the SSD into your machine. If you are up to the task you can do this yourself or you can contact your local pc shop/service center to do it for you.

Power-on your machine and check the 'Basic usage' section of this article to learn how to connect and interact with Euphony.

2.2 Image download

We also offer a Euphony System image which can be downloaded and written to a USB flash drive. To make this easy for you we provide a little program to simplify the process.

Follow the procedure:

1. First get [Euphony Downloader for Windows](#), unzip the downloaded file and double click on the **EuphonyDownloader.exe** icon.
2. Insert an empty USB device (min. 16BG) and select the corresponding drive in the Euphony Downloader.
3. Click GO! and wait until the Euphony image is downloaded and then written to your USB device.
4. Now insert the USB device into your target PC/Music server and power it on. If your machine is not set-up (in the BIOS) to first boot from a USB device, you will need to connect a monitor and keyboard to your system to interrupt the boot process. This is usually done by holding the F10 key for most PCs, or the Option key for MACs. Press the needed key (F10 or Option) immediately after you physically power on the system, then choose the USB device with Euphony on it from the boot menu.
5. After the boot process is finished, check the 'Basic usage' section to learn how to connect and interact with Euphony.

3 Basic usage

3.1 Access

Few important notices:

1. If your system boots by default from drive you have Euphony on, then **you don't ever need to connect keyboard or monitor** to your Euphony device. Otherwise, you may need to have a monitor and keyboard attached to force USB boot.
2. Your Euphony device **must be connected to your local network** via **ethernet** cable.
3. To function properly Euphony has to be registered and to have access to the internet.

As mentioned before, Euphony is a **headless** system, you interact with it through network connection from another computer via Web Browser.

Main control/playback interface to Euphony is the **Euphony Web Application**. It can be accessed by visiting web address: <http://euphony> (or <http://euphony.local> for MAC) on your main PC device/laptop or your tablet/smartphone. Euphony web app is well optimized for mobile use.

It is possible your Android device won't find Euphony on the network by it's name. To get around this go to <http://euphony-audio.com/launch-euphony/> and tap on a big launch button in the middle. Your Euphony device must have had access to the internet during startup for this to work.

(You can also connect the monitor to see Euphony console output: there you will find Euphony network IP address which will guarantee you access on all devices.)

(Your browser may display 'Not Secure' in the address bar when accessing Euphony Web Application. This should not worry you. It's just a warning by the browser that it does not have a secure (https) connection with the site. Since the site is on your local network secure connection is not really needed.)

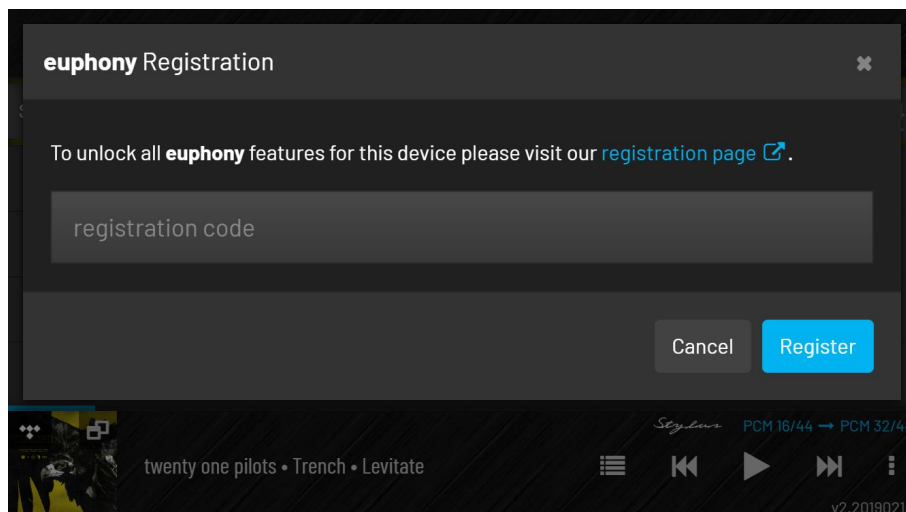
(Remark about this guide: throughout this document you will find many screenshots of practical use of Euphony web application. These screenshots are taken by emulating relative screen dimensions of various mobile devices: from iPhone 4 to iPad Pro. It is done so mainly for informative purposes - to illustrate how application looks like on devices of various sizes using both orientations. Also note that some screenshots are cropped - usually just to highlight a specific feature.)

3.2 Registration

Unregistered version has limited functionality: playback service is restarted periodically and some settings and features are not available. Euphony can be registered if you have a valid voucher code (received together with SSD you bought) or obtained via our site by buying Euphony licence.

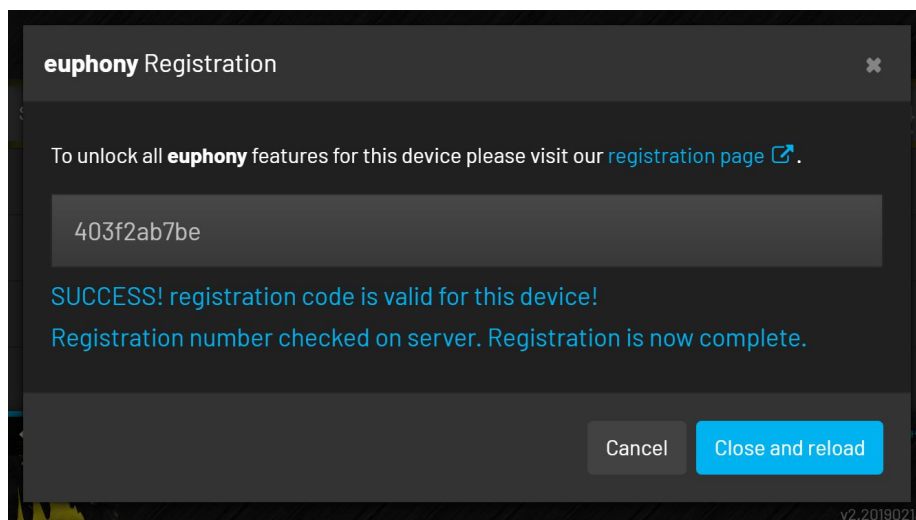
You can also try Euphony for free for 30 days if you use voucher code: 'TRIAL'.

Start the registration process by going to the top menu and select 'Registration'. A dialog will



appear

and you must first click the 'registration page' external link to go to our Registration page. New tab will be opened and there you must enter your name, email and voucher code. If entered data is valid you will shortly receive an email with the link. Clicking on that link will forward you to a page with your registration number. Copy that number, enter it into dialog and click 'Register' button. If registration number is valid you will see the following messages:



Bear in mind that Euphony must be connected to the internet for this to completely succeed like above.

3.3 Music Services

Euphony system is first and foremost superbly tuned to output sound bytes to digital audio converters with minimum latency and thus ideally suited to produce the best quality sound regardless of the software used to choose the source of that sound, decode it, convert it and output it to system sound library. Although we believe that our own Stylus solution is the best both in terms of performance and usability we don't want to lock you into our music ecosystem. Even if you have already invested into other systems, you can still significantly benefit by choosing Euphony as an endpoint between your favorite Music service and your DAC.

That is why we provided several popular Music service options to choose from.

3.3.1 Stylus

Stylus is our own Music Service which provides both roles: Music Library and Music Player role. When Stylus option is selected, you will have the option to turn on upsampling which is handled by separate player application: **HQPlayer embedded**. HQPlayer embedded requires additional license which you must buy on HQPlayer site.

Stylus can work in dual-pc configuration with StylusEP as an endpoint. Audio cards connected to StylusEP will be presented in Stylus and available for selection as a current audio output.

3.3.2 Roon Server

If bought pre-installed on SSD, Euphony offers Roon Server (also called: Roon Core component in Roon architecture) option. To control music library and music playback you will use your preferred Roon Client.

If you choose to leave the default music library folder (/data/Music) in Roon then you can manage your songs the same way as when using the Stylus option.

Because of Roon's flexibility, where you can have client, core and music endpoint each on a different machine we support this flexibility by providing several different ways to use Roon Core:

1. **Roon Core** - Only Roon Core is started on Euphony machine. Library management and music endpoint are part of the Roon Core
2. **Roon Core + HQPlayer** - HQPlayer is started in addition to Roon Core. To be able to use it you have to use Add HQPlayer in Roon Client and in "Hostname or IP address" field enter: localhost
3. **Roon Core + StylusEP** - StylusEP is started in addition to Roon. Look for Squeezebox-type audio output named StylusEP in Audio part of Roon's settings or add HQPlayer device with 'localhost' address
4. **Roon Core + Squeezelite** - squeezelite program is started in addition to Roon core. Look for Squeezebox-type audio output named euphony in Audio part of Roon's settings

3.3.3 HQPlayer embedded

HQPlayer embedded can be started solely. You can control playback from Roon with core located elsewhere (usually together with Roon Client).

3.3.4 StylusEP

StylusEP works as an endpoint to Stylus exposing its local audio cards for remote use. Stylus on a server machine can then select those 'remote' audio cards for its audio output. In addition StylusEP implements Squeezebox control protocol. This has only been tested to work with Roon. LMS is not yet fully supported but you may try it with LMS too. StylusEP will be automatically found by Roon (allowing Squeezebox support is enabled in Roon) under the name: StylusEP.

StylusEP also implements HQPlayer Control API. That means the address of the Euphony machine that is running StylusEP can be entered in 'Add hqplayer' Roon dialog. It's important to note that StylusEP **is not HQPlayer alternative/replacement** as it does not do any upsampling but merely follows HQPlayer Control protocol. Using StylusEP via HQPlayer Control protocol allows us to avoid restrictions on max sample-rate and DSD playback imposed on Squeezelite protocol that Roon enforces.

StylusEP used via Squeezebox or HQPlayer Control protocols can be started together with Roon or it can be employed on an endpoint machine in dual-machine setup.

3.3.5 Roon Bridge

Only the Roon music endpoint is started. That means that Roon Core must be started elsewhere. This music endpoint will be automatically found by Roon Core and it will have the name '**euphony**' (or your chosen hostname for Euphony machine)

3.3.6 Squeezelite

Euphony can also function as a squeezelite end-point for Roon/LMS.

Squeezelite does not have any user interface of its own and must be controlled via Logitech Media Server's web interface or another client like Roon.

3.3.7 Networkaudio

In this configuration Euphony system becomes networkaudio endpoint. Use HQPlayer to manage your music library and connect to this endpoint.

Network Audio Adapter or **NAA** is a way to expose remote audio devices to **HQPlayer desktop** over asynchronous network link. It is just an audio "renderer" with support for a number of different audio endpoint devices. Playback by NAA is completely clocked by the audio endpoint device and NAA performs only buffering, no decoding or processing at all.

3.3.8 AirPlay audio server

All content you have on your iOS devices can be streamed to Euphony AirPlay audio server.

3.4 Music library

Your main music library is located on Euphony drive. Depending on which music service you selected you may or may not need it. For **Stylus** this **local library** is essential. For **Roon Server** it is optional, for **other services** it is not needed.

If you choose Stylus then you have a couple of other options for finding and/or playing music. All options are:

- Local Library
- Tidal
- Qobuz
- Youtube
- Webradio

Local library is also available to Roon core if started on the Euphony system.

3.4.1 Local library

The Euphony system includes an album for quick testing. To add more songs to music library you can:

- Attach external USB storage
- Add network drives (SMB) via Euphony Web Application

For simple file/folder operations, copying music files to the Music library or deleting them you can use *File View* inside the main application.

To manage all your files on Euphony Drive you can use a separate web application:

Euphony File Manager. Access it on web address: <http://euphony:8080> (or <http://euphony.local:8080> on MAC). Link is also available in Euphony Web App menu: Tools.

Attached USBs and network drives will appear in File Manager as additional drives. Use File Manager Copy function to copy desired songs/directories to '**Euphony Drive**'

Euphony Drive is the location that Music Service will scan and add content to the Music library.

Euphony Drive can also be shared for network access from Windows. To enable that, head over to Tools → Settings, Music Library section, and enable **Share Music Library on network** option.

3.4.2 Tidal

If you have a Tidal account you can use your Tidal credentials to access your favorite content (albums, artists, songs, playlists) inside Euphony Web application.

You can also perform Qobuz search and mark search result content (albums, artists, songs, playlists) as favorite (or unmark it). You can also use a few 'Music discovery' options: Top

and Recommended sections. For full Tidal experience we still suggest using **Tidal's own** web application.

It's important to understand that Tidal songs remain on their servers and when you select a song for playback it is streamed from their servers to your machine. It is never stored locally and it is not available for offline use.

3.4.3 Qobuz

If you have a Qobuz account you can use your Qobuz credentials to access your favorite content (albums, artists, songs, playlists) inside Euphony Web application.

You can also perform Qobuz search and mark search result content (albums, artists, songs, playlists) as favorite (or unmark it). You can also list 'Featured' content. For full Qobuz experience we still suggest using **Qobuz's own** web application.

It's important to understand that Qobuz songs remain on their servers and when you select a song for playback it is streamed from their servers to your machine. It is never stored locally and it is not available for offline use.

3.4.4 Youtube

Youtube contains an enormous amount of music videos. Now you can search Youtube videos or playlists and play audio stream part of chosen video.

3.4.5 Webradio

To listen to music streaming from web radio stations you have options to search **Shoutcast** live database of web radio stations and play them or you can manually enter the web address of a streaming endpoint of a web radio station you found by other means.

4 Euphony Web App

Euphony Web Application allows you to:

1. Choose Music Service in use
2. Adjust settings (system wide or related to particular service)
3. Browse music library and control playback (if Stylus is music service in use)


Static parts of all pages are header and footer.


Header contains logo and product name, Power Menu and Tools menu.

Footer contains cover photo of currently playing (or paused) song's album and playback controls. Playback controls can be expanded (by clicking on vertical dots icon) to show song seek and volume (if available) controls and additional playback flags.

Application has three main pages and header and footer bar that are present on all pages:

- Audio systems
- Library
- Settings.

Main Menu is accessible behind the blue gear icon  in header.

Power menu is accessible behind green power icon  in header.

Audio systems page is used to change your designated Music Service. It is accessible from the Tools Menu -> Audio systems

Library page is accessible only if the chosen music service is **Stylus**. Other music services have their own front end for browsing/choosing/playing songs from their own Music Library.

Library page actually contains three overlapping screens:

- Music Library
- Playing Now
- Queue

Music Library is default screen which allows you to browse your library in many ways and select songs for playing.

Playing now screen pops up to display all available info about the song that is currently playing (or paused).

Queue is a list of songs ready for playing (according to playback options: Random, Repeat, Single, Consume) . You can remove or rearrange songs in queue and you can save it to a playlist file.

Settings page allows you to tweak various options related to the Euphony system, music library and playback engine. Content of this page depends on the Music Service in use.

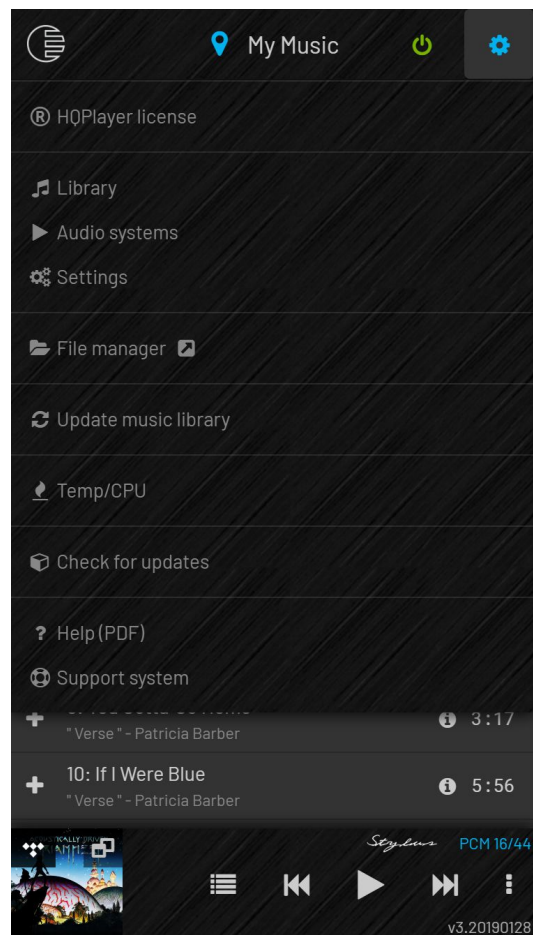
4.0 Main Menu / Power Menu

Main menu can be accessed by clicking the blue gear icon ⚙️ in the header bar.

It contains the following options:

- Home - link to Home page
- Settings - link to Settings page
- File Manager - opens File Manager application in separate window
- Update music library - rescan your library file for changes that occurred after the last scan (scan is always performed at startup)
- Temp/Cpu - Opens small dialog to show Cpu core usage and temperature
- Check for updates - checks if there are new updates to Euphony system (check is also performed at startup)
- Help - link to this guide
- Support system - link to help-desk pages on euphony-audio.com

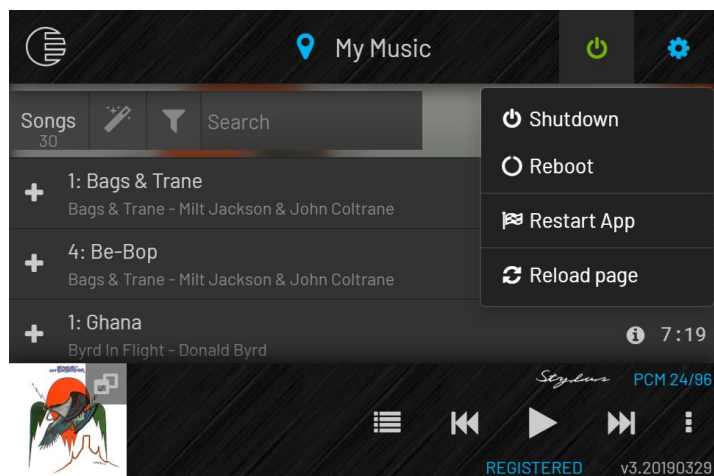
Access **Power menu** by clicking on green power icon: 🔌



Power menu contains options:

- Shutdown - turn the computer off
- Reboot - restart the computer
- Restart App - restart the web application
- Reload page - full page reload (bypassing cache)

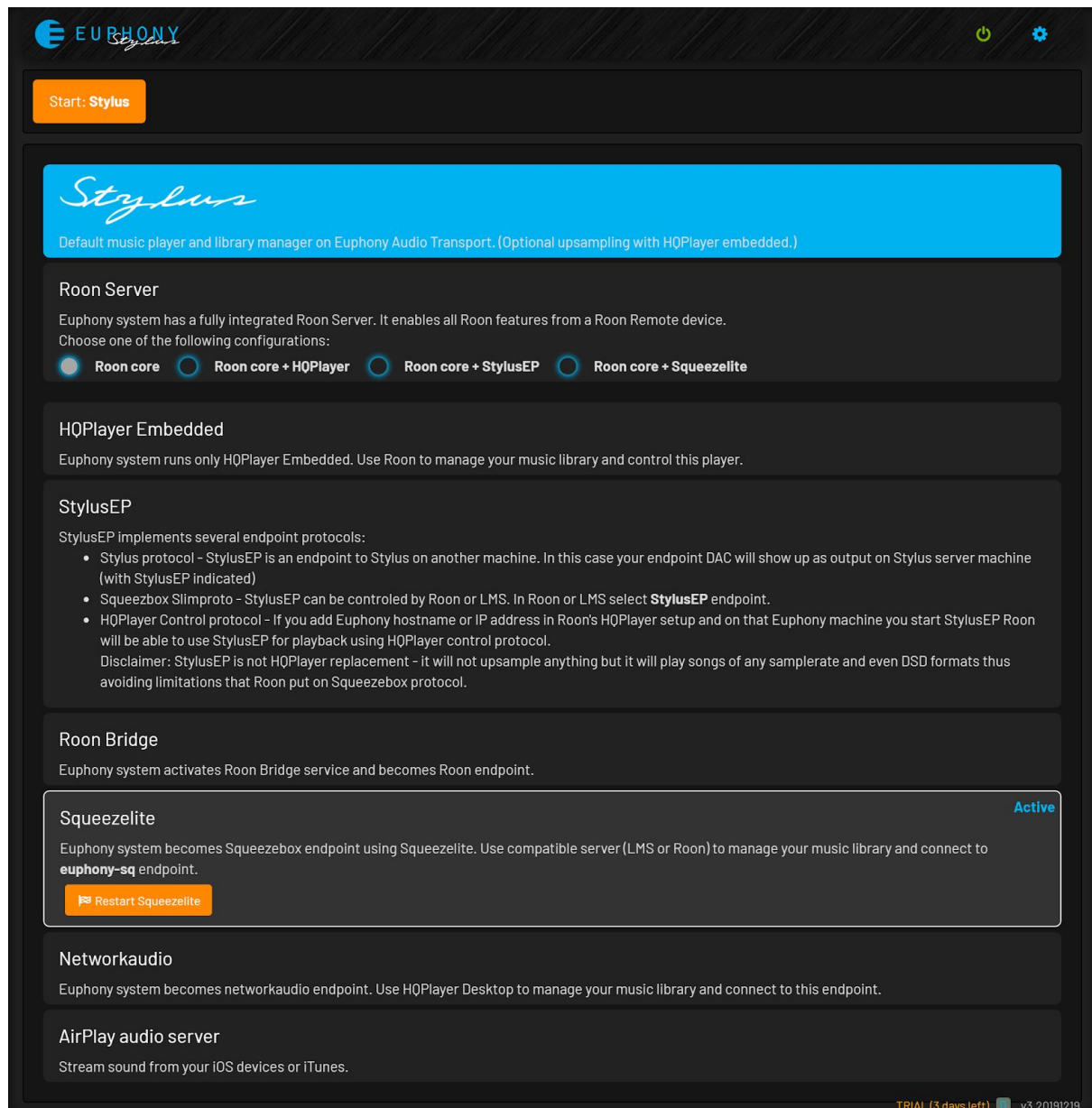
If, by any case, the system starts to behave erratically you can try first by restarting the Web application, and if problems persist then restart the computer.



If problems don't go away you can open a [ticket](#) via our support system or contact support directly at: contact@audiokernel.com

4.1 Audio Systems

Here you can select an audio system and check which audio system is active.



If you select some other audio system besides Stylus, some parts of the application may become unavailable altogether (Library page) and some sections in Settings screen will not be visible.

If you select another music service when you click '**Start**' the application will be restarted to reconfigure itself.

If Roon Server is already selected, you can change the Roon Server configuration option and just click "Restart Roon". This will stop and start appropriate services, save option choice and application will not be restarted (no need to click 'Change')

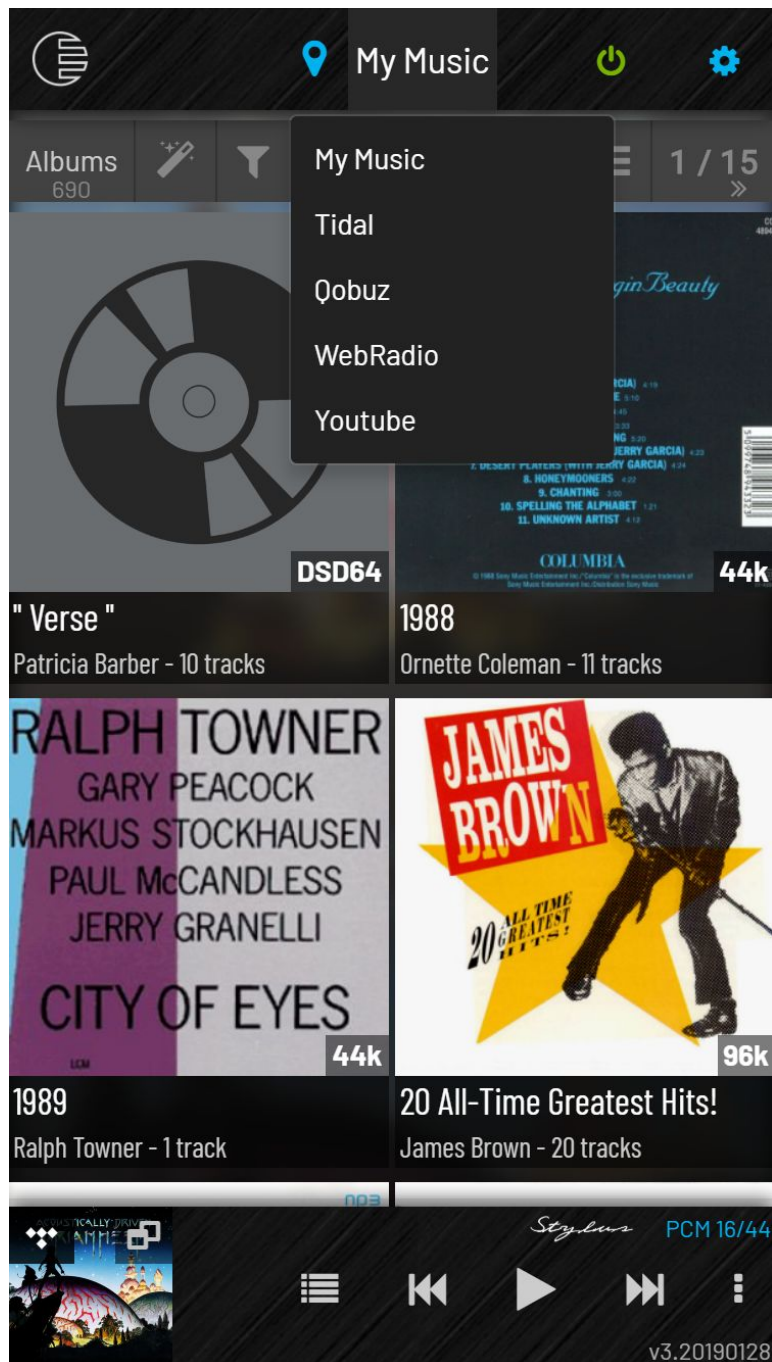
4.2 Music Library/Playing now/Queue page

The screenshot displays the Euphony Stylus Music Library/Playing now/Queue page. The interface features a grid of 48 album covers, each with a title, artist, and track count. The top bar includes the Euphony Stylus logo, a 'My Music' link, and navigation icons. The bottom bar shows the current playing track: 'Uriah Heep • Acoustically Driven • The Easy Road'.

Album Title	Artist	Tracks	Format
"Verse"	Patricia Barber	10 tracks	DSD64
1988	Ornette Coleman	11 tracks	44k
1989	Ralph Towner	1 track	44k
20 All-Time Greatest Hits!	James Brown	20 tracks	96k
2002	Nils Petter Molvaer	1 track	44k
2006	Anouar Brahmeh	11 tracks	44k
461 Ocean Boulevard	Eric Clapton	10 tracks	192k
80/81 [Disc 1]	Pat Metheny	4 tracks	44k
80/81 [Disc 2]	Pat Metheny	4 tracks	44k
A Biography Of The Rev. ...	John Surman	11 tracks	44k
A Distortion Of Love	Patricia Barber	1 track	192k
A Distortion of Love	Patricia Barber	10 tracks	DSD64
A Hilliard Songbook	The Hilliard Ensemble	27 tracks	44k
A Long Story	Anat Fort	11 tracks	44k
A Love Supreme	John Coltrane	3 tracks	DSD64
A Man About A Horse	Steve Tibbetts	16 tracks	44k
A Night In Tunisia	Art Blakey & The Jazz Messengers	192k	44k
A Worcester Ladymass	Trio Mediaeval	20 tracks	44k
A Year from Easter	Christian Wallumrød Ensemble	44k	44k
A.R.C.	Chick Corea/Dave Holland/Barry...	44k	44k
Acceleration	Hans Koch	18 tracks	44k
Accuphase Sampler Disc	Accuphase Sampler Disc	14 tracks	DSD64
ACCUPHASE Special Sou...	ACCUPHASE Special Sound Sele...	44k	DSD64
Achtung Baby	U2	9 tracks	44k
ADAGIO - Albinoni, Pache...	Berliner Philharmoniker / Herbe...	DSD64	44k
Aero	Masqualero,Jon Christensen,Tor...	44k	44k
Afric Pepperbird	Jan Garbarek	8 tracks	44k
After Mozart	Gidon Kremer (solo violin) & Kre...	44k	44k
After The Rain	Terje Rypdal	10 tracks	44k
Afternoon Of A Georgia F...	Marion Brown	4 tracks	44k
Uriah Heep • Acoustically Driven • The Easy Road	Uriah Heep	PCM 16/44	v3.20190128

This page is available if Stylus is the selected Music Service and is loaded when you click on Euphony-Stylus Icon-name part in header.

4.2.1 Library



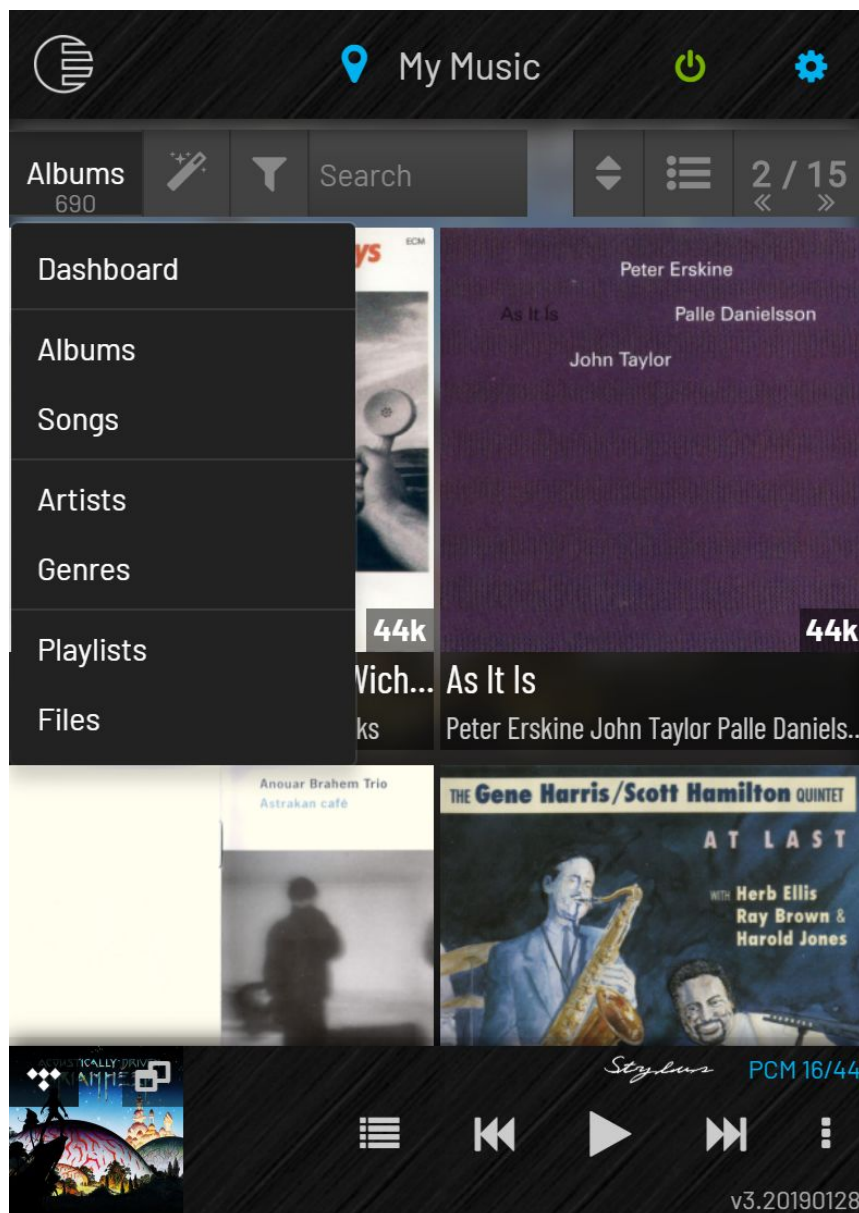
Playing now page, and Queue page remain largely the same no matter which library you use. It's even possible to have local songs, Tidal songs, and Web radio stations all on the Queue at the same time (there will be an icon to indicate the origin of each song in the Queue).

As for the Library, although the view is always the same, **available options differ**.

First, we will describe how everything works for **My music** (songs on your Euphony drive and on connected drives that are part of Music Library) and in other sections we will mainly focus on the things that are different.

4.2.1.1 My Music

Default page can display your music library in various views: Dashboard, Albums, Songs, Artists, Genres, Playlists, Files.



Note that Dashboard, Artists and Genres don't actually provide direct means for selecting songs for playback - they are here to provide a quick way to filter your library by specific fields (artist, genre) or usage patterns (Dashboard: most played, recently played, not played yet, largest collections).

Filtering your view will be explained later because it can be accomplished in several ways which need detailed explanations. For now, while we go through visuals, bear in mind that

content presented on these screens is always subject to some current filter (which can be empty, of course).

4.2.1.1.1 Albums

Albums view contains most options so it will be explained in detail.

EUPHONY Stylus My Music

Albums 690 Search 3 / 15

LANA DEL REY **BORN TO DIE** 44k
Lana Del Rey - 12 tracks

boss tenor **gene ammons** 44k
Gene Ammons - 7 tracks

STING **BRAND NEW DAY** DSD64
Sting - 10 tracks

COLETTI **BRING IT ON HOME** 192k
C.C. Colletti - 11 tracks

Born To Die - Lana Del Rey (49:27)


- 1: Born To Die (4:45)
- 2: Off To The Races (5:01)
- 3: Blue Jeans (3:30)
- 4: Video Games (4:41)
- 5: Diet Mountain Dew (3:42)
- 6: National Anthem (3:50)
- 7: Dark Paradise (4:03)
- 8: Radio (3:35)
- 9: Carmen (4:09)
- 10: Million Dollar Man (3:49)
- 11: Summertime Sadness (4:24)
- 12: This Is What Makes Us Girls (3:58)

Uriah Heep • Acoustically Driven • The Easy Road PCM 16/44


v3.20190128


Clicking on the **album cover** expands the section with album songs. Selected album is highlighted in blue.

Clicking on **'Add +'** for a particular song will add it to the end of the Queue.

Clicking on **Play icon**  which appears when you hover or touch song row will add the whole album to Queue and start playing from this song.

Clicking **anywhere else on song row** will add song at the end of the Queue and start playing it.

Clicking on the info icon  (before song time) will bring up a dialog with all attributes of that song.


Clicking on a **horizontal ellipsis icon**  at the end of the first row of expanded section with album songs presents a menu with several options:

'Add all' will add all album songs to the end of the queue.

'Add & replace' will replace queue content with album songs.

'Add & play' will replace queue content with album songs and start playing from the first song.

'Album info' will list some fields related to the selected album.


Clicking on **horizontal ellipsis icon**  in the corner of the album cover brings up a menu similar to the one explained above with additional options related to album cover picture.

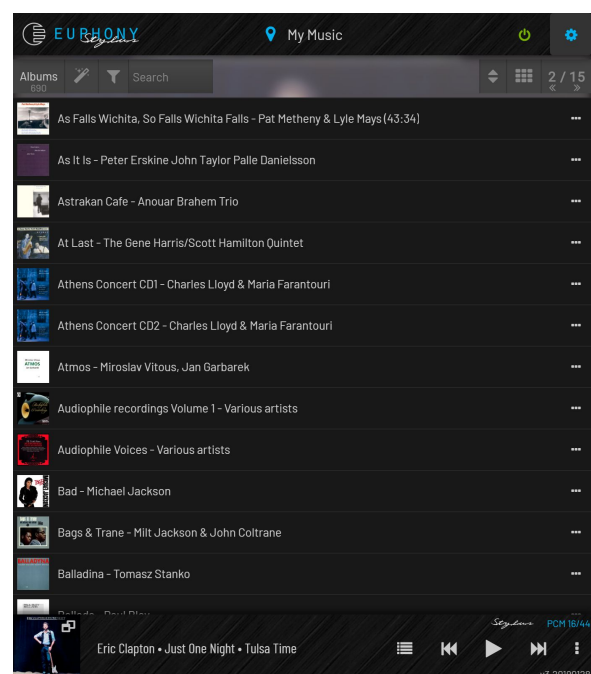
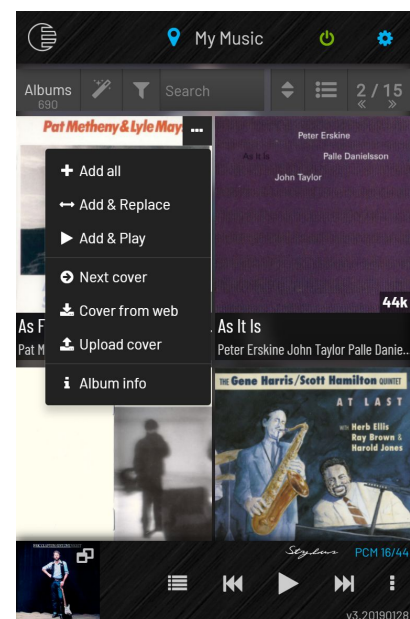
'Next cover' will try to fetch another image from your album folder (when you have front, back etc. images you may want to cycle through them with this to select the desired one)

'Cover from web' will try to find album cover on the web using current album and artist name. If no image is found a dialog is presented which allows you to adjust album and artist names (i.e.: maybe to drop ' - Disk 1' from album name: 'Gold - Disk 1' and similar)

'Upload cover' gives you the option to manually select a local image and upload it to Euphony. You also have the option to copy that image to your album folder under name: cover.png (In most cases Euphony never changes anything inside your album folders - this is an exception)

Album view actually has two forms: **album cover form** which is default and **list form**.

You toggle between them by clicking the icon  before paging controls.



4.2.1.1.2 Songs

Songs view lists individual songs filtered by current filter (there is no point paging through your entire library in this view without some filter applied).

Screenshot below has filter: **title CONTAINS take** applied (more about filters later).

The screenshot shows the EUPHONY Stylus app interface. At the top, there's a header with the EUPHONY Stylus logo, a location pin icon, and the text 'My Music'. Below the header, there's a navigation bar with 'Songs' (22), a search icon, a funnel icon, and a search bar. The main content area displays a list of songs, each with a plus icon, the song title, the album name, and the duration. The songs listed are:

- 14: Papa Don't Take No Mess (Pt. 1) - 20 All-Time Greatest Hits! - James Brown (4:26)
- 5: Don't Take All Night - Broadway - Blues - Ballads - Nina Simone (2:51)
- 5: Take Five - Concord On A Summer Night - The Dave Brubeck Quartet (9:11)
- 6: Take Five - Jazz at the Pawnshop - Domnerus, Arnel Erstrand, Lars Hallberg, Bengt Johansen, Egill Riedel, Georg (6:58)
- 4: Take the A Train - Jazz at the Pawnshop - Domnerus, Arnel Erstrand, Lars Hallberg, Bengt Johansen, Egill Riedel, Georg (9:33)
- 8: High Life (take 2) - Jazz at the Pawnshop - Domnerus, Arnel Erstrand, Lars Hallberg, Bengt Johansen, Egill Riedel, Georg (5:59)
- 5: Take It Back - Little Broken Hearts - Norah Jones (4:06)
- 5: They Can't Take That Away From Me - Love Scenes - Diana Krall (5:42)
- 13: Take the "A" Train - Percussion in Hi-Fi Vol. II - Dick Schory's Percussion Pops Orchestra (3:11)
- 10: Take It As It Comes - The Doors - The Doors (2:15)
- 10: Take It As It Comes - The Doors (Expanded) [40th Anniversary Mixes] - The Doors (Expanded) [40th Anniversary Mixes] (2:18)
- 6: Blue Train (alternate take) - The Ultimate Blue Train - John Coltrane (9:58)
- 7: Lazy Bird (alternate take) - The Ultimate Blue Train - John Coltrane (7:12)
- 9: There's Danger in Your Eyes, Cherie (take 2) - Thelonious Alone in San Francisco - Thelonious Monk (4:22)
- 11: There's Danger in Your Eyes, Cherie (take 1) - Thelonious Alone in San Francisco - Thelonious Monk (4:03)

At the bottom, there's a player bar showing a small album cover, the text 'Eric Clapton • Just One Night • Tulsa Time', and playback controls. The bottom right corner shows 'v3.20190128'.

Same as before, clicking on the ‘+’ sign will add the song at the end of the Queue, clicking anywhere on the row will add the song and start playing it, clicking on the info icon will present all of the song's attributes.

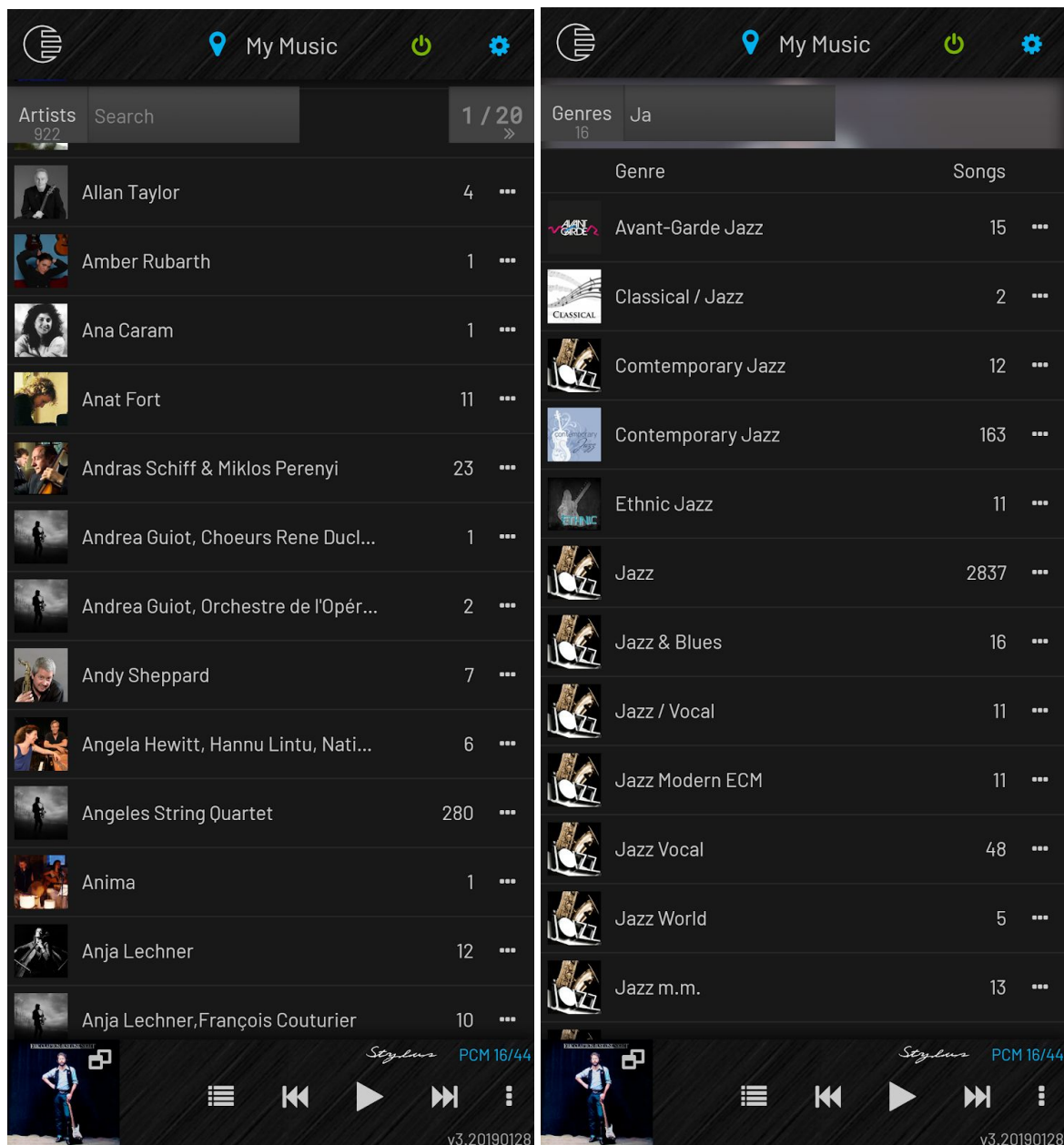
Song row has two lines.

First line contains the track number and song title. Second line contains album and artist names (if available).

Note that long song titles may be truncated on narrow screens so sometimes it may be helpful to orient your device to landscape orientation.

4.2.1.1.3 Artists & Genres

Artist and **Genres** views are very similar. They give you an unfiltered (initially) list of all artists and genres in your library.



You can filter that list by entering something into the **Search** field. Resulting list items will contain the string you entered in the search field (Like above 'Ja' filter for Genres). Search is not case sensitive.

Each row, in addition to Artist/Genre name will give you a small icon in front and number of songs for that item.

Clicking the item row will create a new filter and transfer you automatically to Albums view with that filter applied.

For example, if you clicked on the **"B.B. King"** row filter: **artist = "B.B. King"** will be created, and all albums where the artist field is **"B.B. King"** will be displayed.

Exactly the same thing for genre: clicking on "Jazz" row will create a filter **genre = "Jazz"** and display all albums with genre field exactly equal to "Jazz" (you can later easily correct that filter to: **genre CONTAINS "Jazz"** so you can see albums of all Jazz variants).

Clicking on **horizontal ellipsis icon** **⋮** will again give you three familiar options:

'Add all' will add at the end of the Queue all songs that have the view's attribute (artist or genre) exactly equal to row's value (so, instead of creating a filter and display albums or songs with that filter applied, with this you can immediately retrieve a list of songs and add them to the Queue).

'Add & replace' will replace current queue content.

'Add & play' will replace queue content and start playing from the first song.

Artists and Genres views are just another quick way to browse your library and instantly create appropriate filter for your current listening moods. There are several more ways to do it...

4.2.1.1.4 Playlists

Playlists are ".m3u" files found in your library that usually reference songs in the same folder. You can also create your own playlists by saving current queue content to named playlist file. User playlists are stored in separate directory and listed only when you choose 'User' from sub-menu in top bar.

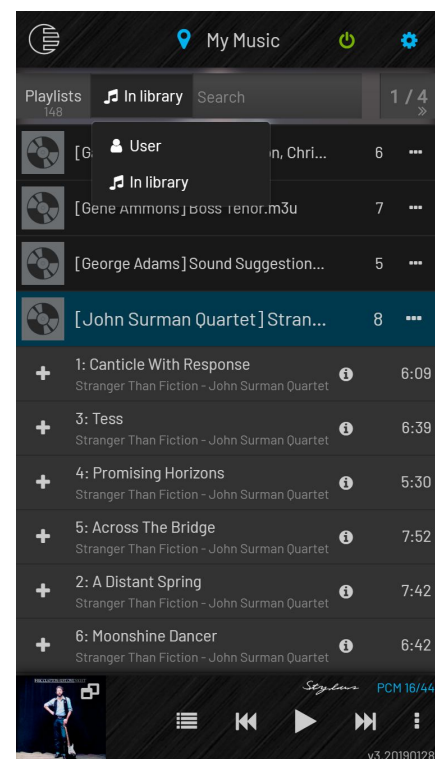
Playlists behave like albums, they contain a number of songs which can be displayed if you click on a playlist row and expand it.

Songs can be added individually in similar way as album songs (click on **"+"** to add to the end of the queue, click on row to add and play) or all together: click on **three-dot** icon for:

Add All

Add & Replace

Add & Play



You can also create your own playlists by saving current Queue content to a named file (will be explained in detail in the **Queue** document section).

Playlist view can also be filtered by entering a string in the Search box.

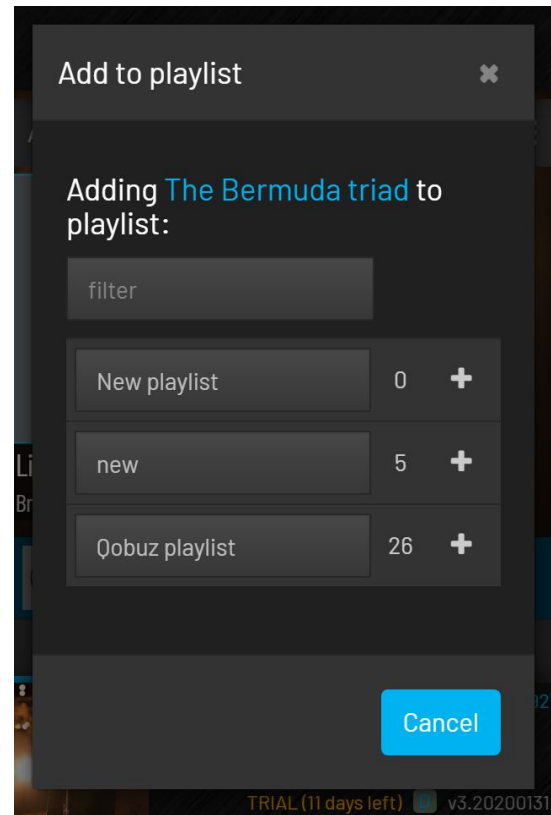
Another way to create a playlist is when you right-click (or long touch) on the info icon of the song. 'Add to playlist' dialog opens and lists all previously saved user playlist. Clicking on "+" next to the playlist name will add the song into that playlist.

You can change the name of any listed playlist just by editing the playlist name in the input field. You can also create a new playlist by adding the song to the first playlist entry: "New playlist" by changing the default name to something else.

You can quickly limit the list of shown playlist by entering something in the "Filter" box above playlists.

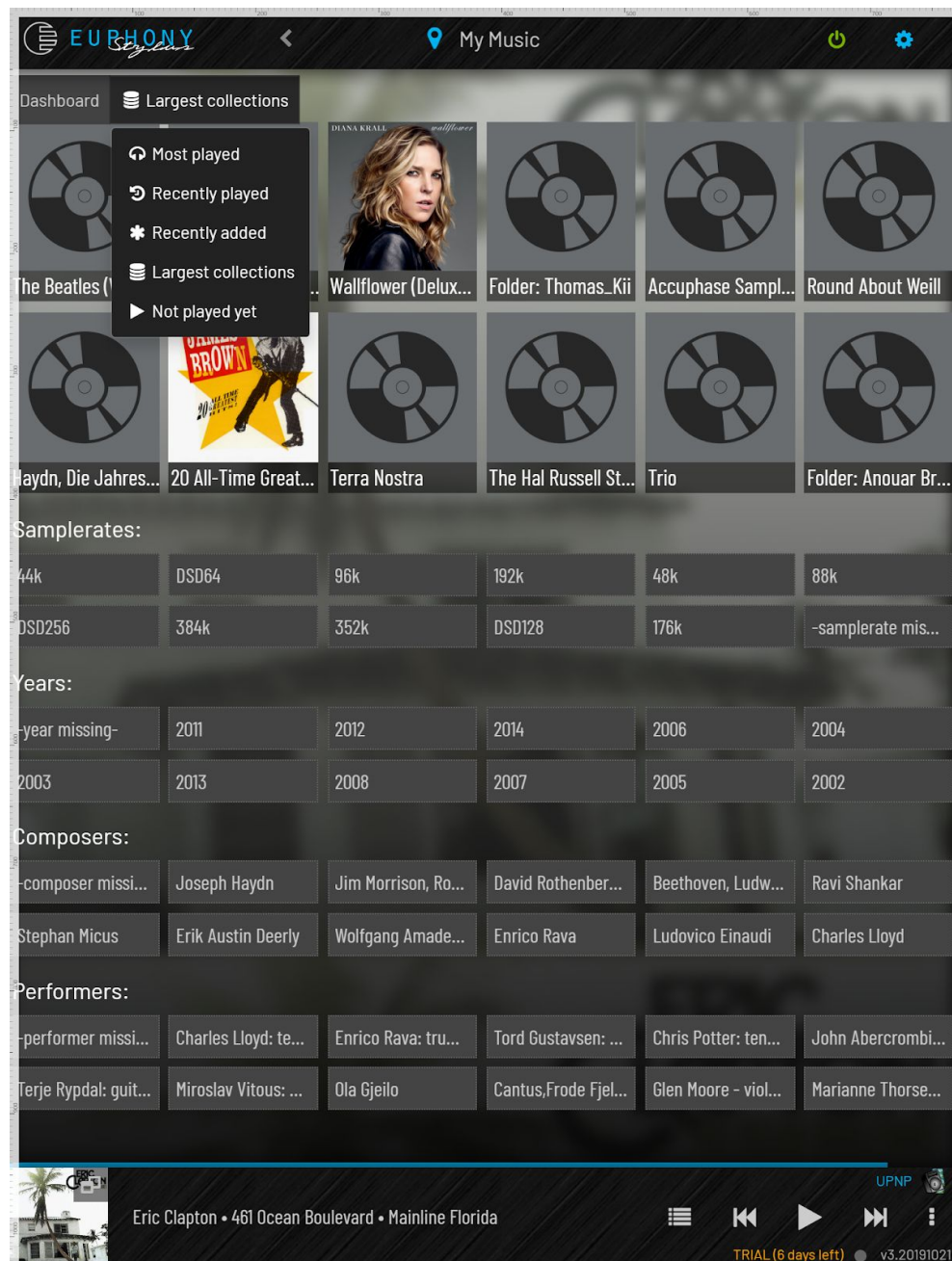
User playlists can contain songs from any source, local or remote but.

Bear in mind that corresponding .m3u files that are created are not actually compatible with standard m3u file format and can be used only inside Euphony.



4.2.1.1.5 Dashboard

Dashboard is another quick way to create filters.



It uses songs attributes: genre, samplerate, year, artist, albumartist, album, composer, performer to present you maximum of 12:

- Most recently played
- Most often played
- Recently added
- Largest collections of particular song attribute
- Not played yet

Click on any of the dotted rectangles in any of the sections to quickly create a filter and go to albums view with that filter applied.

Note that “Recently played” and “Most played” will be empty at first until you start playing some songs.

(Notice: usage statistics used for this is updated only upon actual playing of songs, not by adding them to queue.)

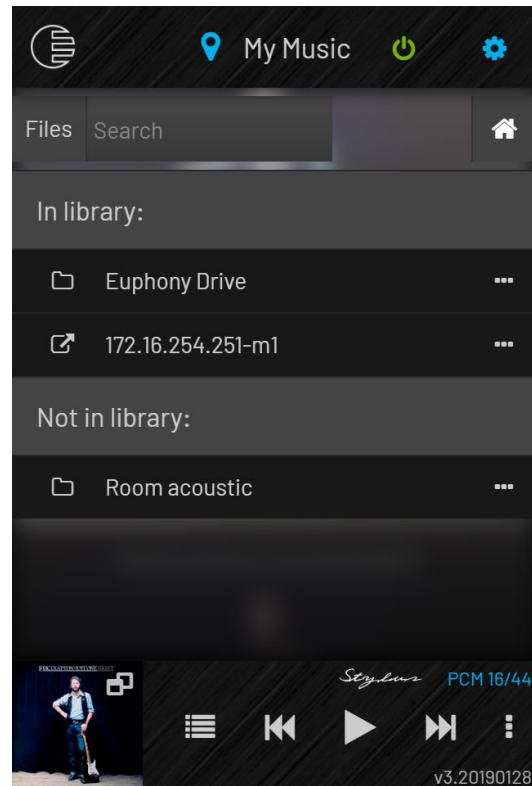
4.2.1.1.6 Files

Files view will show you all folders and music files on your **data partition**.

Data partition is the largest partition on your system disk and it is dedicated to storing music files. It has one default folder that we call **Euphony Drive** where your music content is physically stored and optional folders (mountpoints/links) which are created when you connect to the network drive or attach another disk or USB drive.

When USB is attached or network drive is added it does not automatically become part of your Music Library because you may not want to add the whole device but only attach it to copy specific content to Euphony Drive.

Because of this File View has two initial sections: “**In library**”, “**Not in library**” to indicate which devices/network drives are part of the library and which are not. (To add a drive to the Music Library you must use the Settings page).



Clicking on a particular folder you will enter that folder and see its contents. You can repeat that and traverse the folder tree. Your current path and links to parent folders are always present at the top of the list.

Clicking on the **three-dot** menu will give you an option to copy that folder to Euphony Drive (only if you are not already inside Euphony drive folder tree).

If your root folder is part of Music library then you will have additional options:

Add All - append to queue

Add & Replace - replace queue content

Add & Play - replace content and play first song

These will add **all songs** found in that folder (including all subfolders) to Queue.

To prevent you from accidentally adding a huge amount of songs to queue, the number of songs inside folder tree is checked first and if it exceeds 50 songs popup dialog will ask you to confirm your intentions.

For lines that represent files you have the following options:

Add to queue - add song at the end of the queue

Add & Play - add a play song

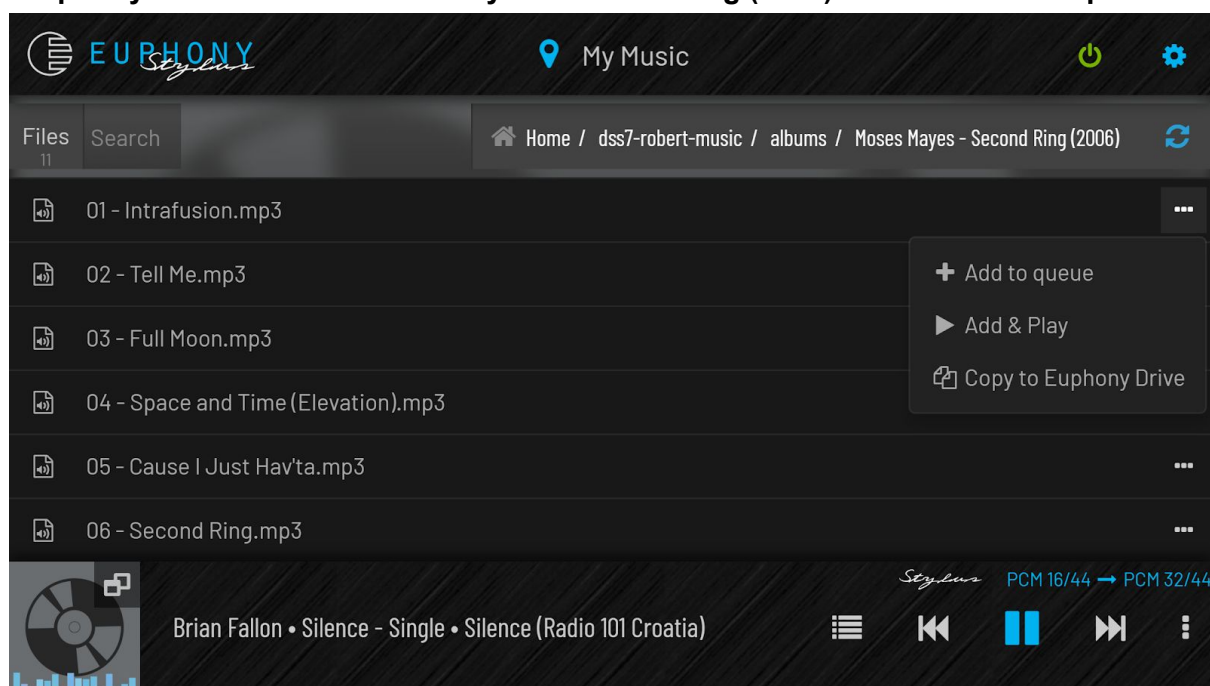
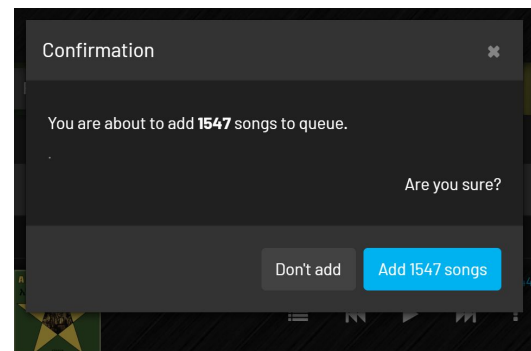
If the song is not in Euphony Drive folder tree then you will have additional option: **Copy to Euphony Drive**


This will copy the song and also the folder structure of the song's path. In example, like on the screenshot below, if you copy the song from location on network share:

“DSS-robot-music/albums/Moses Mayes - Second Ring (2006)/01 - Intrafusion.mp3”

to Euphony Drive, then it's new full path will be:

“Euphony Drive/albums/Moses Mayes - Second Ring (2006)/01 - Intrafusion.mp3”



The Euphony system tries it's best to detect changes in paths that are part of the library and scan new folders for new songs but sometimes it is necessary to manually trigger the scan and update music database. You can do that by clicking  "Update library for this path" (If you know where changes occurred this is better than invoking "Update Music Library" from the Tools Menu which will trigger the scan of entire Music Library folder structure).

For folders with a great number of files you can filter the list by entering some string into the Search box.

4.2.1.1.7 Navigating your library

When you have a large library, finding the next thing to listen to can be cumbersome. Granted, sometimes you just know the exact song and it is just a matter of how to find it quickly but more often than not you will need some inspiration, some guidance. You will know your mood, maybe a genre you want to listen to, music period or composer. Sometimes you will just want to browse, see what you have, in what ways can your library be grouped and categorized. That is what **filters** are for. During the Music Library scan we record all of the song's attributes that can be found. Filters are a way to show only albums and songs that satisfy conditions placed on those attributes.

NOTICE: Since albums are abstract entities conditions are placed only on songs. If you are filtering **Albums** view then if only one song in the album satisfies filter conditions that album **will be displayed** and if you click on album to view it's songs - **all songs** will be listed (not just the one that satisfied the conditions). The logic is that when listing album songs you will always want to see all the songs. If you are specifically interested just in songs that satisfy given conditions switch to **Songs** list view.

The attributes that we use for filtering are: **artist, album, artist, title, genre, year, samplerate, file, albumartist, composer, performer, duration** (in seconds).

Filter is a **set of conditions** and an **operator** to bind them.

Operator to bind conditions together can be:

- **ALL** - all conditions must be satisfied - displayed as '**AND**' in filter string
- **ANY** - any one of the conditions needs to be satisfied - displayed as '**OR**' in filter

Conditions are in form: **attribute <condition operator> value.**

Condition operator can be one of:

- **Contains** - attribute contains value string anywhere inside - displayed as "**CONTAINS**" in filter string
- **Not Contains** - attribute contains value string anywhere inside - displayed as "**NOTCONTAINS**" in filter string
- **Begins with** - attribute begins with value string - displayed as "**BEGINS WITH**"
- **Ends with** - attribute ends with value string - displayed as "**ENDS WITH**"
- **Is equal** - attribute is equal to value string - displayed as "**=**"
- **Is not equal** - attribute is not equal to value string - displayed as "**<>**"
- **Is less than** - attribute is smaller than value - displayed as "**<**" (mostly used for number-type attributes like year or duration but will also work for strings - **less than** means alphabetically before)
- **Is more than** - attribute is bigger than value - displayed as "**>**"

Examples of filters (as displayed upon applying):

- genre = jazz AND year > 1960 AND year < 1980
- album BEGINS WITH best of OR album CONTAINS compilation


- samplerate > 325000 AND duration > 600

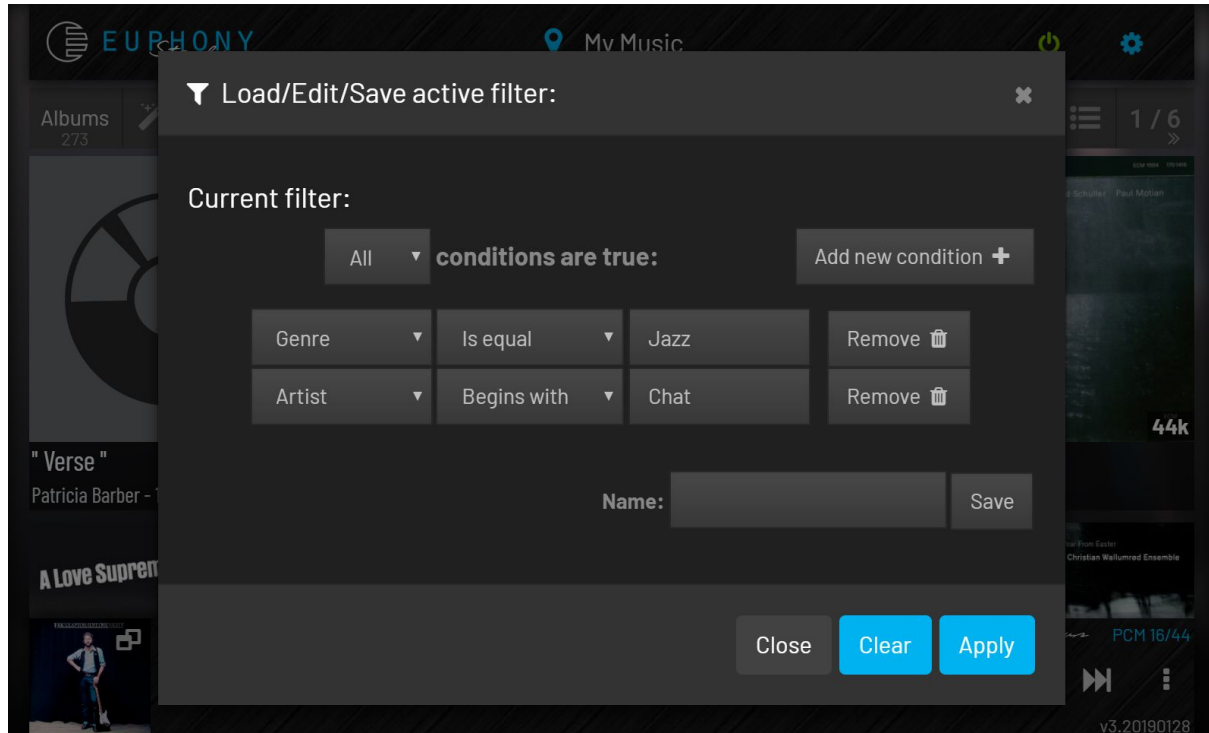
All string comparisons are **case insensitive**!

Filters can be created in several ways (some of which we already covered):

- **Dashboard** view - clicking on any of the dotted rectangles in any of the sections (adds simple condition: attribute = value)
- **Artist** or **Genre** view - clicking on particular artist row will add simple condition: artist = row value (same for genre)
- **Filter dialog** - used to view and edit current filters, delete or add new filters and change ALL or ANY bind type (more a little later)
- **Browse wizard dialog** - a quick way to drill down through your library via several fields - end result is a filter with one or more conditions binded by ALL type (more on that later)
- **Search** - while in Albums or Songs view, typing anything in search box will execute several database queries at once and offer you sample set of results from which to choose from (more later)

4.2.1.1.7.1 Filter dialog

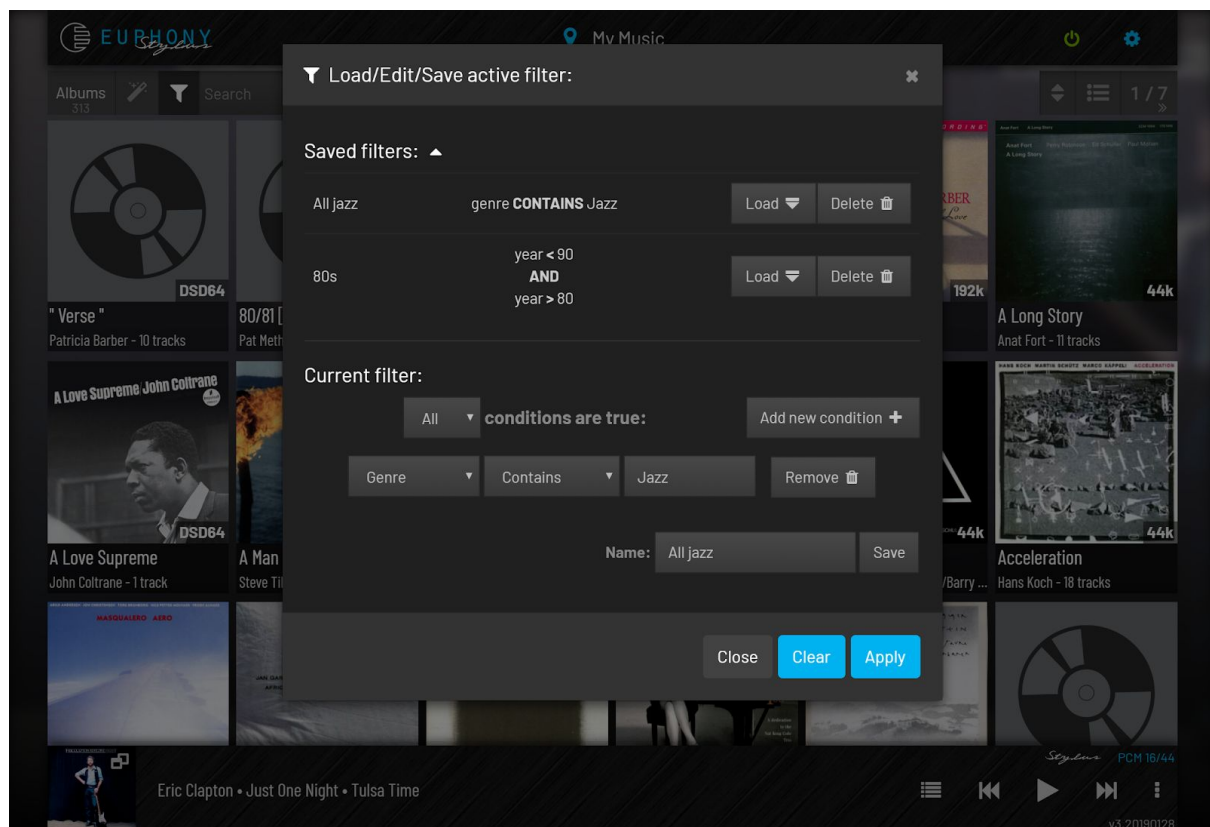
Filter dialog displays your currently applied conditions, allows you to change them, delete them or add new ones. You open it by clicking on a filter icon  in the toolbar near the top.



Any condition in a list can be changed as you wish either by changing the attribute or condition operator or value. New condition can be added by "**Add new condition**" and any condition can be removed by "**Remove**" button.

“**Clear**” will remove all conditions and “**Apply**” will apply your current changes to the view. If you just cancel the dialog (by clicking on the ‘x’ in the top-right corner, Close button or clicking anywhere outside dialog) changes you made will be lost.

If you find that you are using some filter very often you can save. It will appear in filter dialog in saved filters list and you can apply it with one click.




Filters are applied only for Albums and Songs views and you can switch between them with the same filter in effect.

Other views (Artist, Genres, Playlists, Files) can filter their output by entering some string in the Search box.

Entered search box value is essentially a one-condition filter applied only to current view and only on the attribute you are viewing: genre for Genres view, artist for Artists view etc.

When you switch to another view this condition is lost and the search box is emptied.

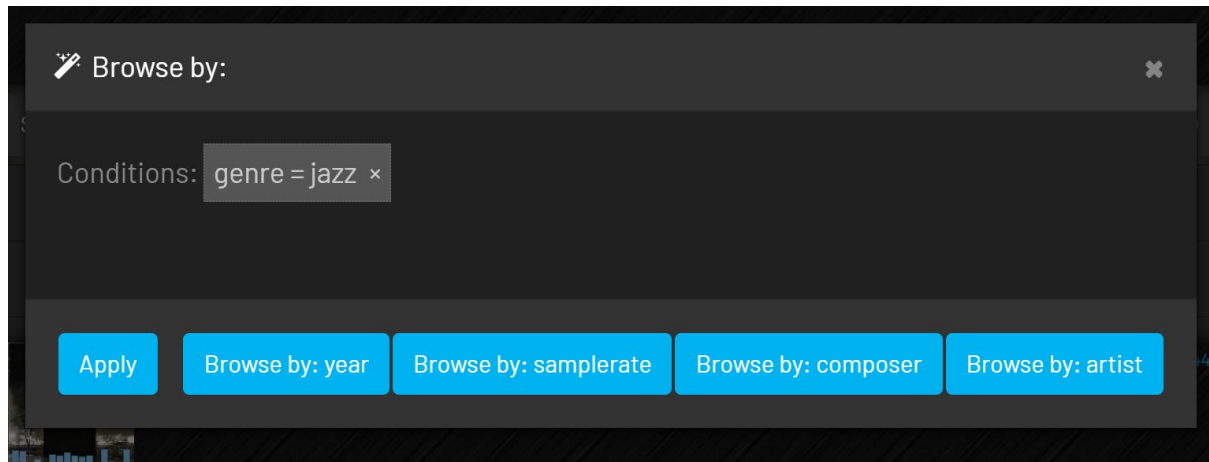
When filter is active filter icon  in the top bar becomes orange. Filter stays ‘in memory’ until you change it or clear it. It is saved as a browser Cookie so it will be recovered even after restart the next day.

Another useful shortcut is that you can **doubleclick/double tap** the filter icon to clear all conditions.

4.2.1.1.7.2 Browse wizard

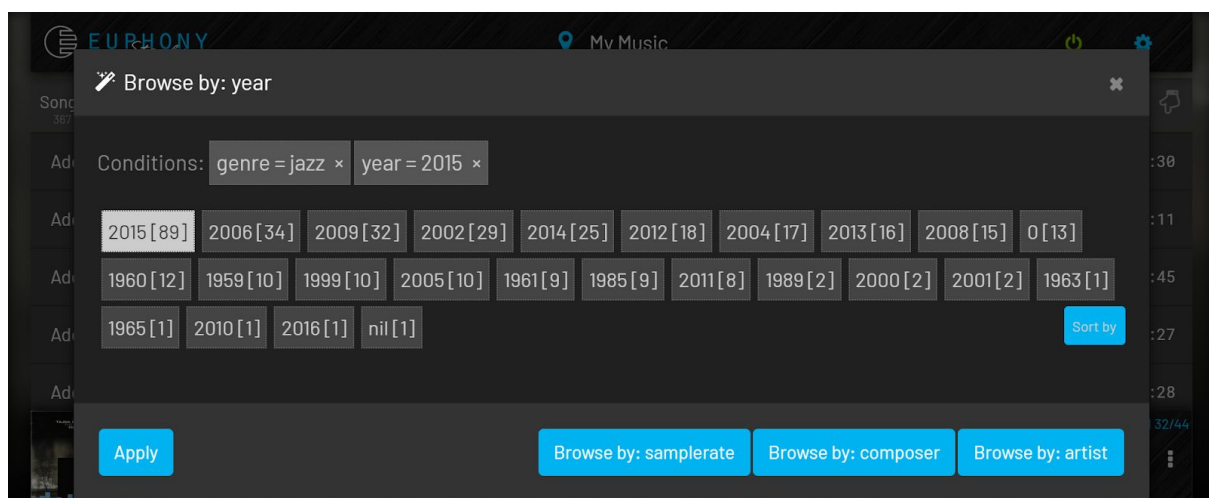
Browse wizard is a nice way to browse your library and 'drill-down' via several attributes that are useful for grouping. Those attributes are: **genre**, **year**, **samplerate**, **composer**, **artist**.

Here you can see initial dialog shown after you click wizard icon ✎ :



The idea is to quickly see all values for specific attribute (i.e. genre - click on **Browse by genre**), select one of them after list is presented (i.e. Jazz) and then see all values for another attribute (i.e. year) with filter genre = Jazz applied.

This moment is displayed here:



Now you can:

- go deeper - select value for current attribute by clicking on dotted rectangle of some year (2016 is selected in the above screenshot) and browse by another attribute - i.e. **Browse by: artist**)
- browse by another attribute - without any of the year values selected click on one of the **Browse by:** buttons
- clear specific condition to return to Browse by: <cleared condition>

- apply current conditions as filter by clicking “**Apply**”
- values for currently displayed attribute values are sorted by number of songs that have it (the number in parenthesis) but you can opt to sort it by value (that means alphabetically for string-type attributes and naturally for number-type attributes) by clicking on **Sort by** button
- If the list is too big to fit the screen only portion of values is displayed and you can display the rest by clicking on “Show all” that will appear in that case (the logic is that Browse wizard should be like: click, click, click and you are done - if you need to scroll first then this purpose is defeated).

Since it is a drill-down method, conditions in the created filter are binded with **ALL** type.

If you have an active filter and you enter Browse wizard then the conditions in that global filter will be applied and the starting point for browsing. You can clear them in Browse wizard but this only applies internally, global filter remains in effect unless you click “**Apply**” which will replace global filter with the one created in the Wizard.

4.2.1.1.7.3 Filter by search

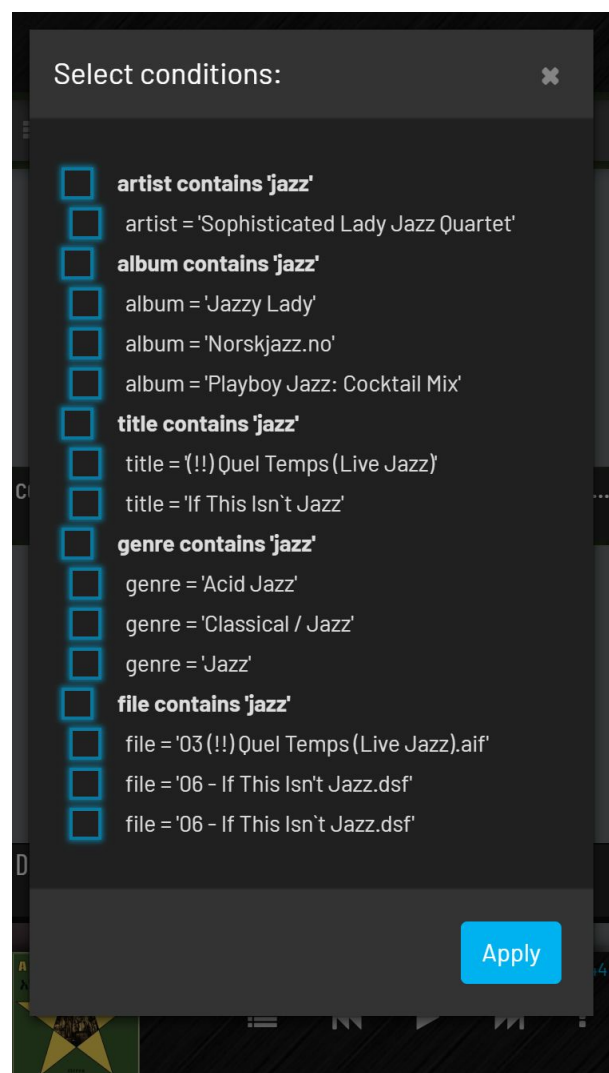
Since you may want to search your library by any of the attributes, we made search ‘smart’ so when you enter something in the search box we try to find answers by applying that value to several search queries, take first three results for each and present you with many instant filter options. For the screenshot to the right I entered **jazz** in the search box and got those results.

Every line is a ready-made condition. You select one or more of them, click “**Apply**” and filter is created.


In this example search found 5 attributes that contained matches to entered search string.

First condition is always that attribute **contains** the search string and following conditions (3 max) are specific instances when attribute **exactly matches** found string.

You can use it to create filters or you can use it to quickly find a specific artist, album or even a single song (by selecting: file = <found file name>).



4.2.1.1.7.4 Sorting

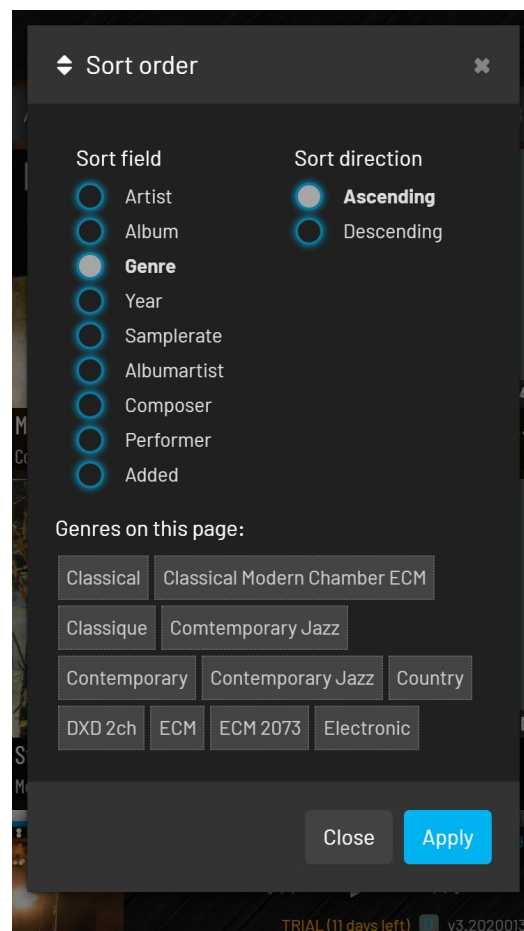
When you use Albums or Songs view, resulting content is sorted by globally set params. These params are displayed when you click Sort icon  in the top toolbar.

You can sort by following attributes: **artist, album, genre, year, samplerate, albumartist, composer, performer, added.**

You choose one of the fields and the sort direction. When you click “Ok” these will be applied to the current view.

As stated before, this does not apply to other views. Artist, Genre, Playlist, Files are sorted alphabetically by their respective values.

Not all attributes are plainly shown in default view. If you are in Albums-Cover view and currently selected sort field is **Genre** you will not know which genres are shown on the current page and you will not know which album is the first one for a particular genre. This is why sort dialog will also list you **all genres that appear on the current page** and by clicking on a particular genre: dialog will be closed, view scrolled to show first album of that genre near the top of view and album cover will blink a few times.



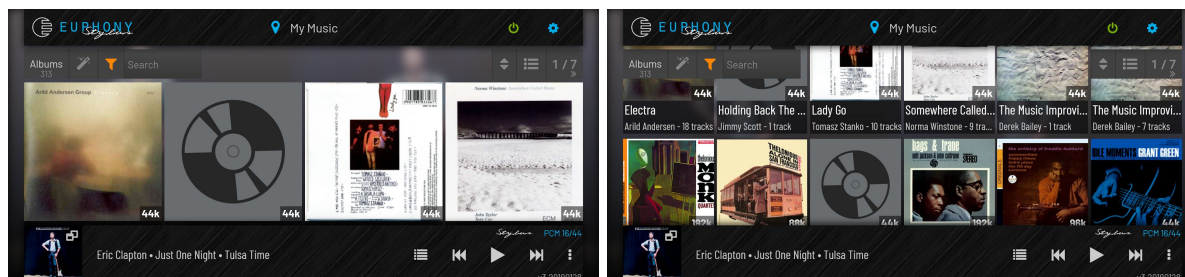
4.2.1.1.7.6 Adjusting Album-Cover grid.

Depending on the width of your screen there are some defaults set about how many albums are displayed in one row of Album-Cover view. You can change that default by clicking any empty area in the gallery view (the easier way is to click immediately below the last row of albums).


Repeated clicking will loop through several numbers of albums per row (again depending on the width). Wider screens can loop from 4 to 7 albums per row. Mobile screens can loop from 2 to 3 albums per row (more in landscape mode).


If you double-click on an empty area in album view then your choice will be reset and number of albums per row will revert to defaults for given screen width.

Default view for iPhoneX in landscape mode and with maximized number of albums per row:



4.2.1.1.8 Tag editing

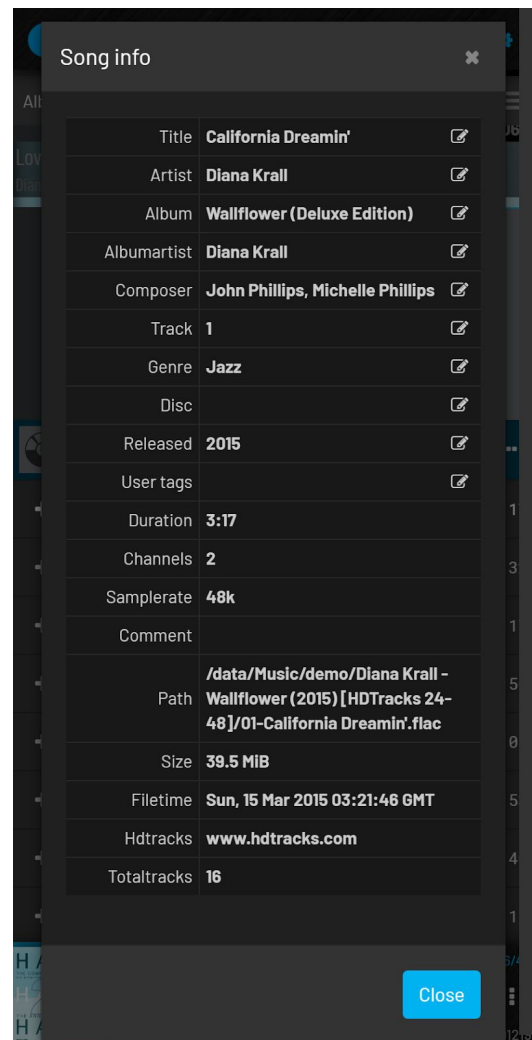
For your songs and albums you can edit some common tags. This is available in Song Info dialog which shows when you click information icon  in song row.

Tags that can be changed are listed first and have edit icon  next to them. (Note the: 'User tags' field where you can enter your own tags to better organize your library). When you click the edit icon field becomes editable and you are free to enter your corrections or new values. When you are done changing tags click 'Apply edits' button which is now available.

New dialog appears which will show you your changes and present you with two sets of options. You must choose if you want to change that tag only in the database or do you want to change corresponding song file too.

You can also choose if you want to change only this song or all songs in the corresponding album. Album is defined by a combination of album name and artist name (albumartist field).

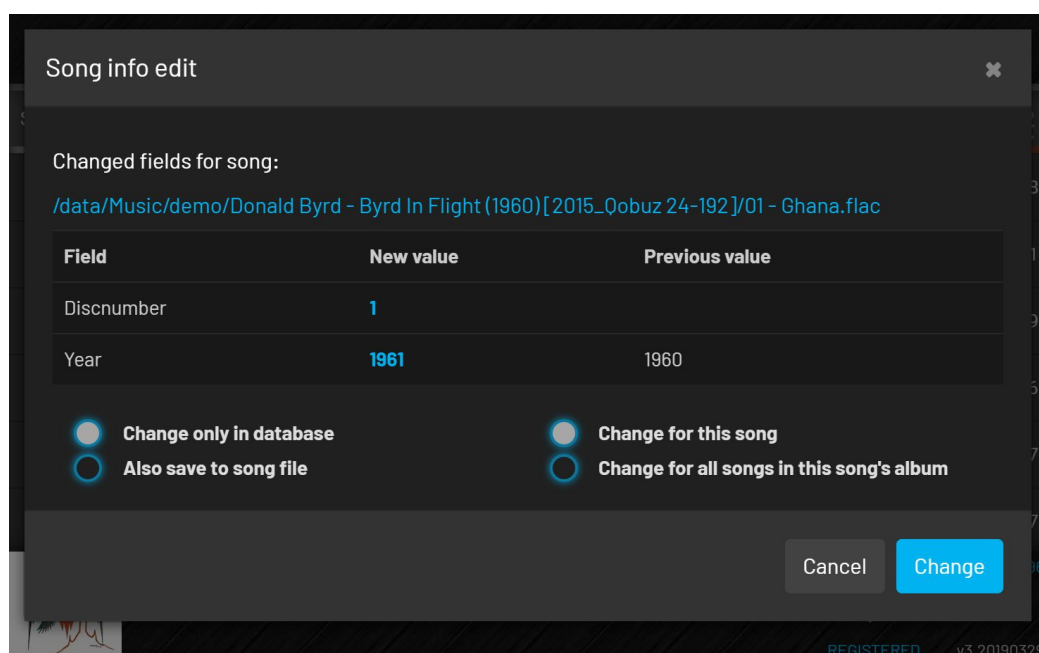
If you choose to change all songs in the song's album and previous value of that field is not the same for all songs on the album you will get a warning about that.



The 'Song info' dialog displays a list of metadata fields for a song. Fields with an edit icon (pencil) are editable. The fields shown are:

Field	Value	Editable
Title	California Dreamin'	Yes
Artist	Diana Krall	Yes
Album	Wallflower (Deluxe Edition)	Yes
Albumartist	Diana Krall	Yes
Composer	John Phillips, Michelle Phillips	Yes
Track	1	Yes
Genre	Jazz	Yes
Disc		Yes
Released	2015	Yes
User tags		Yes
Duration	3:17	No
Channels	2	No
Samplerate	48k	No
Comment		No
Path	/data/Music/demo/Diana Krall - Wallflower (2015) [HDTracks 24-48]/01-California Dreamin'.flac	No
Size	39.5 MiB	No
Filetime	Sun, 15 Mar 2015 03:21:46 GMT	No
Hdtracks	www.hdtracks.com	No
Totaltracks	16	No

A 'Close' button is located at the bottom right of the dialog.



The 'Song info edit' dialog shows the changes made to the song's metadata. It includes a table of changed fields and options to save the changes.

Changed fields for song:

/data/Music/demo/Donald Byrd - Byrd In Flight (1960) [2015_Qobuz 24-192]/01 - Ghana.flac

Field	New value	Previous value
Discnumber	1	
Year	1961	1960

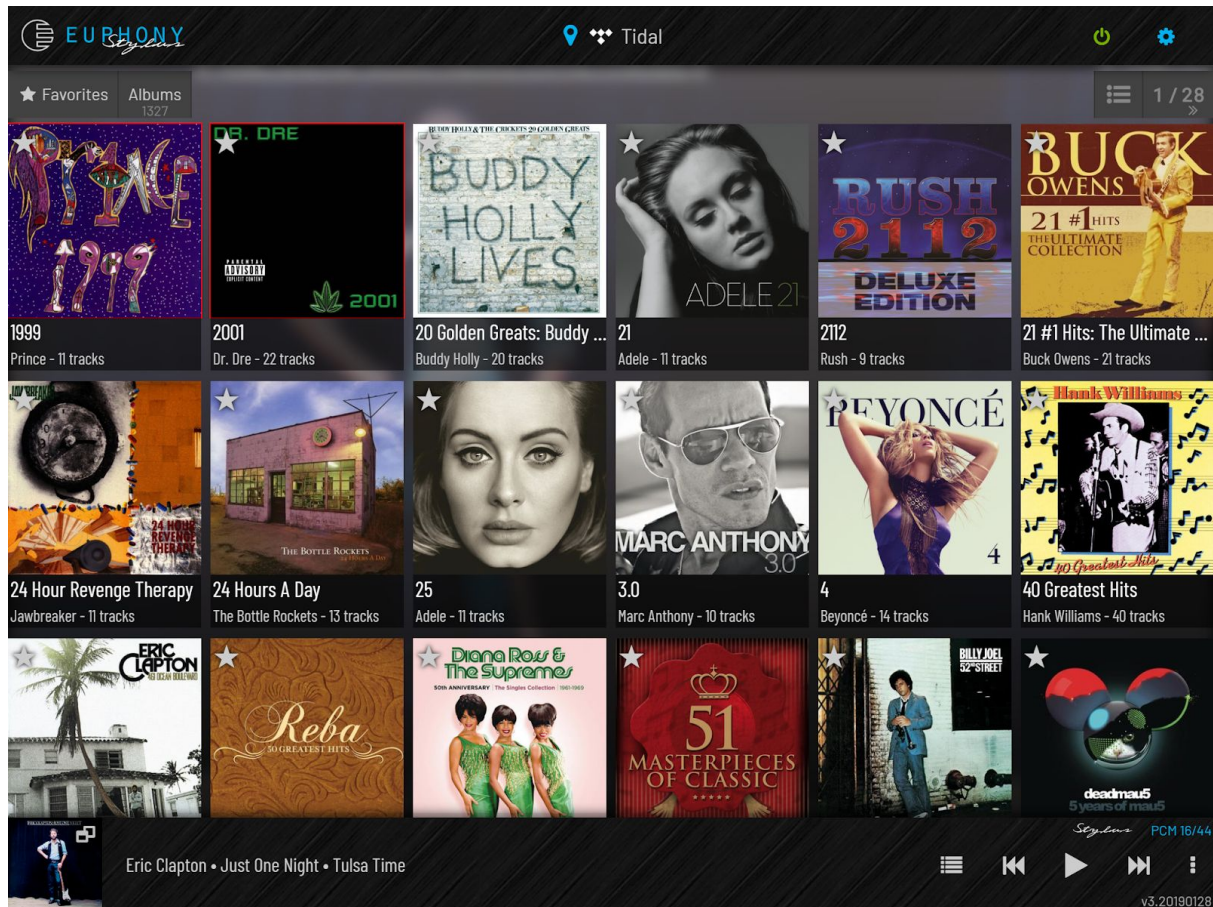
Options to save the changes:

- ☐ Change only in database
- ☒ Also save to song file
- ☐ Change for this song
- ☒ Change for all songs in this song's album

Buttons: Cancel, Change

4.2.1.2 Tidal

When you select Tidal as your library source for the first time you will be asked for your Tidal credentials. Credentials are checked by logging in to Tidal and if that was successful this credentials will be stored locally and used in the future.



We do not aim to provide complete Tidal experience here, for that we suggest you use Tidal's own online application. Having said that, we are still committed to giving users a good access to their Tidal content.

You can list following categories (click first dropdown in the top toolbar):

- New
- Recommended
- Favorites
- Search

You can view the following type of content (click second dropdown menu in the top toolbar):

- Albums
- Artists
- Songs
- Playlists

4.2.1.2.1 New

Displays new content on Tidal. Works for albums, songs and playlists.

4.2.1.2.2 Recommended

Displays content recommended by Tidal. Works for albums, songs and playlists. This is the default view.

4.2.1.2.3 Favorites

Displays the content that you favorited in the past either via this application or by Tidal online application. You can choose to remove the Favourite status from the **three-dot** menu.

4.2.1.2.4 Search

If you want to search the entire Tidal database then when you select 'Search all Tidal' nothing will be shown by default. You have to enter something into the search box and it has to be at least 2 letters.

Tidal search works in a way that matches your string to album or artist name but it searches anywhere in the names. Tidal **does not** offer search for content that starts with a particular string nor it offers search against specific attributes.

4.2.1.2.5 Albums view

Albums view, once content is loaded, looks and behaves similar to Albums view for local content:

- You can choose to have a Cover view or List view.
- Clicking on cover expands a list of album songs
- Clicking on songs row behaves the same as for local songs: "+" to add to queue, click on song row to add and play that song, click on the play icon in the middle add the whole album and plays from clicked song
- Click on **horizontal ellipsis icon** "..." on cover or on album row presents same options for album: **Add, Add & Replace, Add & Play**

Things that are not present:

- No filters or any filter related functionality
- No option to choose sort conditions (it's sorted alphabetically by album names).
- No option to quickly scroll to desired content

Things specific to Tidal:

- Favorite content is indicated by star icon in the corner of Album cover or at the end of the row in list view (When displaying 'Your favorites' all items have a star icon in the top left corner of cover image. When you search through all of Tidal some search results will be items you favorited before and then only they will have a star icon).
- **horizontal ellipsis icon** "..." menu gives additional item: **Make favorite/Remove favorite**
- Some albums are rounded with a thin red box. These albums are not available for playback (Tidal's thing...).

4.2.1.2.6 Artists view

Artist view for Tidal is a little more complicated. Initial result is a set of rows with artist names. When you click on the row (or on the “+” icon in the front) the list of all artists' albums is filled below. If you click again on the album row then album songs are filled in below.

Album row has again three options to add album songs to queue: **Add, Add & Replace, Add & Play**

Artist row currently does not support adding all of artist's songs to queue although the option is present in the menu.

We have here 3 types of rows in the same list: artist, album and song row. Each has its own slightly different background.

Clicking on the expanded album row again will collapse (hide) it's songs, and click on expanded artist row will collapse it's albums.

Like before, clicking on “+” in song row will add it to the end of the queue, clicking on the play button in the middle of the row will add the whole album to queue and start playing the album from that song, and clicking anywhere else will add and play only that song.

4.2.1.2.7 Playlist view

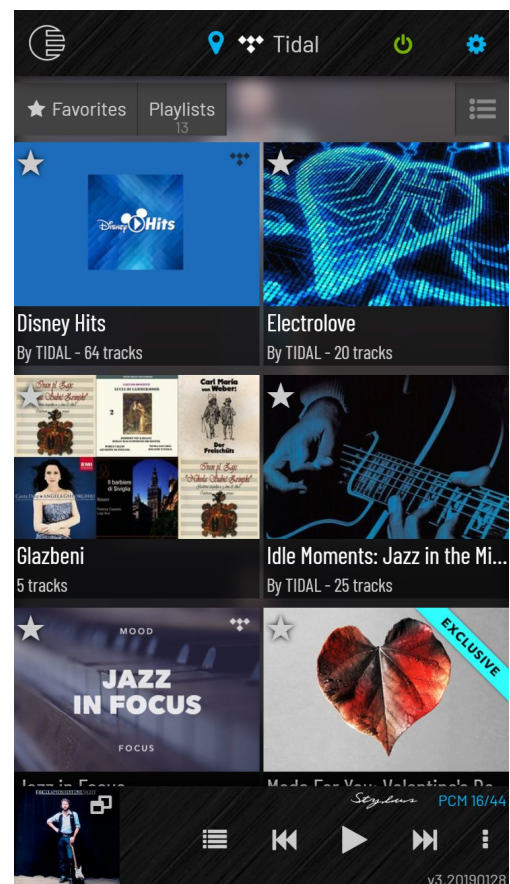
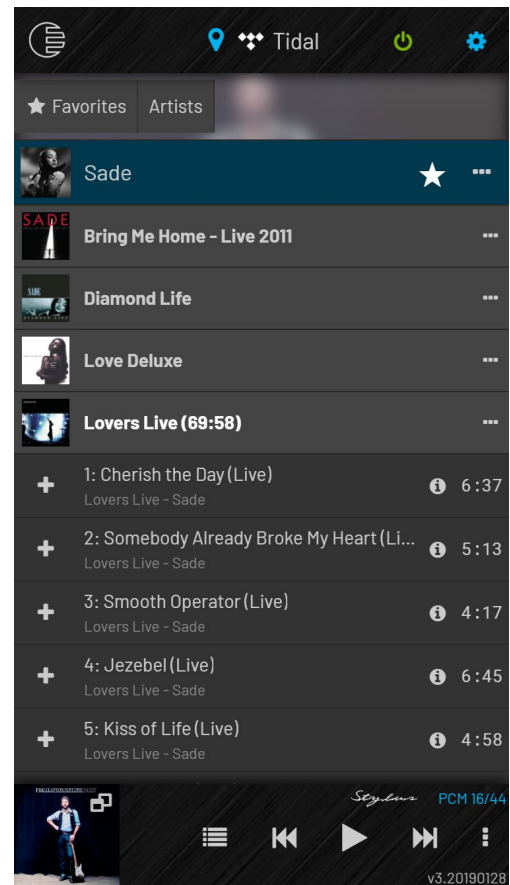
Playlist view shows a list of playlists. Clicking on the playlist row will expand it to show all the songs in the playlist.

Song row behaves exactly the same as before.

Playlist's three-dot menu can be used to add all songs from playlist to queue in three ways explained before: **Add, Add & Replace, Add & Play**.

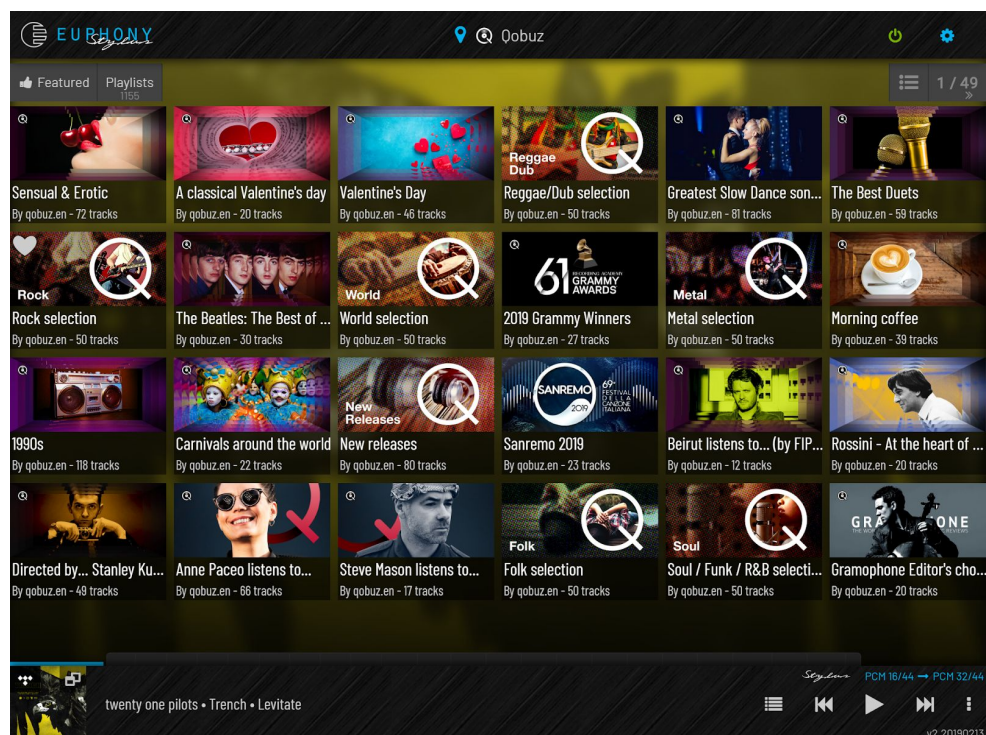
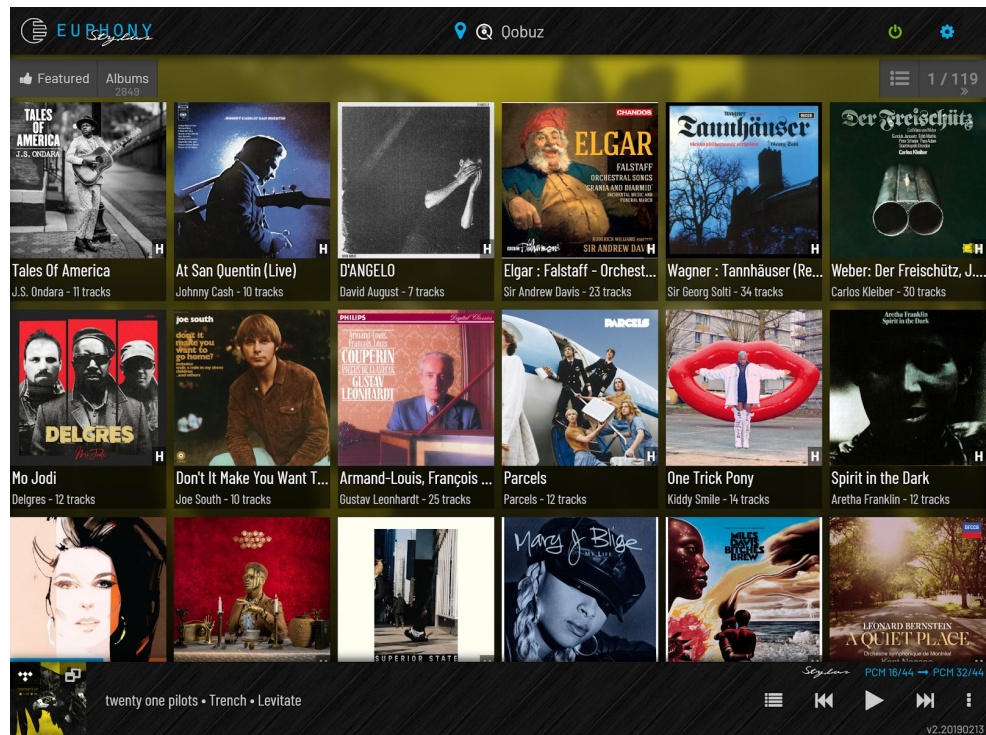
4.2.1.2.8 Songs view

Songs view shows a list of songs where song row behaves exactly like before.



4.2.1.3 Qobuz

Qobuz behaves almost identically as Tidal. Only minor difference is that for discovery Qobuz has 'Featured' instead of 'New' or 'Recommended' as Tidal has.



NOTICE: Qobuz is available only in Euphony major version 3!

4.2.1.4 Youtube

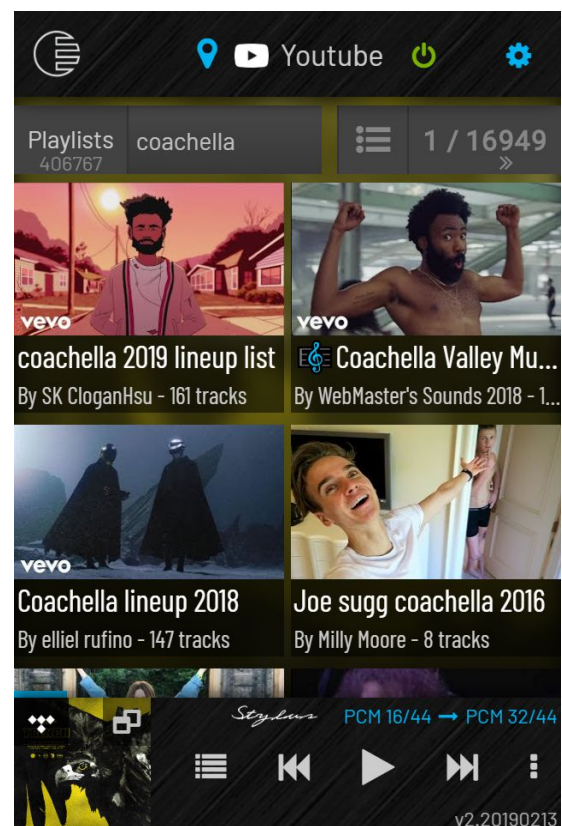
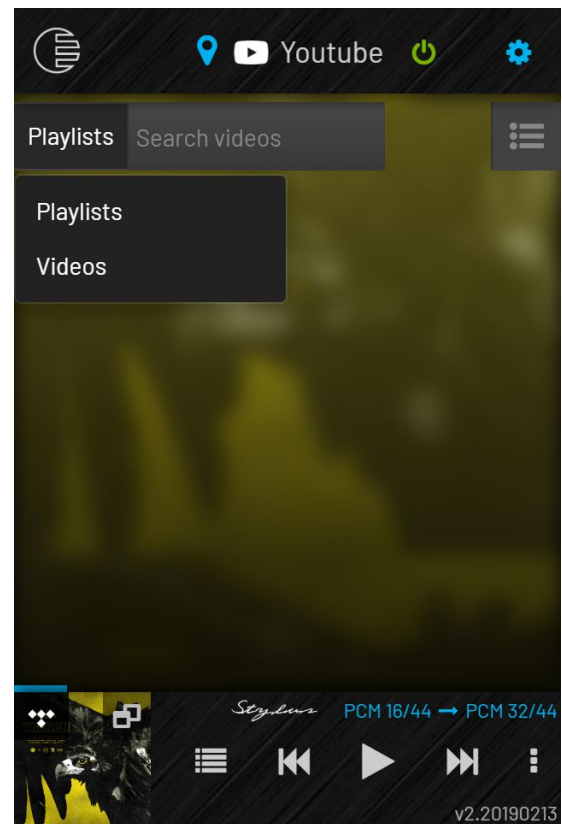
Youtube videos or playlists can be searched by keyword. When videos are searched resulting videos are displayed and by clicking on the three-dot menu you have again familiar options for adding to queue or playing them immediately.



When searching playlists results are shown in a format similar to Playlist view in Tidal and Qobuz.

Clicking on cover will expand the list of videos inside the playlist and you can again add them or play them as in other views.

Of course, only the audio track is played, and the video part isn't even downloaded.



NOTICE: Youtube is available only in Euphony major version 3!

4.2.1.5 Webradio

Euphony uses **Shoutcast API** to give users the ability to find Web Radio streams (more than 70000 streams in Shoutcast library at the time of writing this guide) on the internet.

It is also possible to browse **Tuneln directory** of stations and podcasts presented as a browsing tree organized by various categorizations.

You can also directly add webradio stream urls.

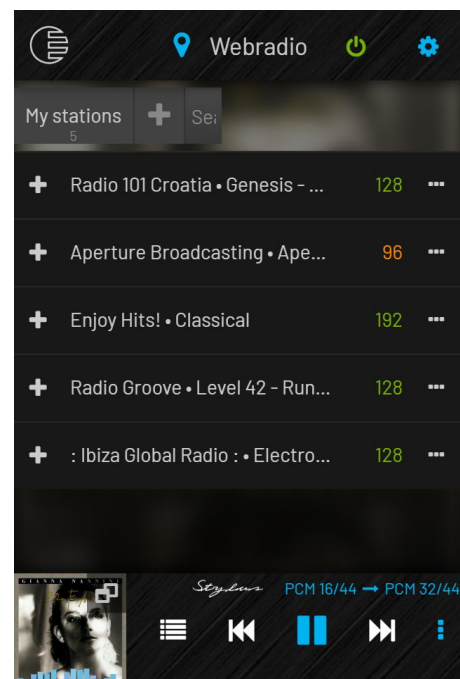
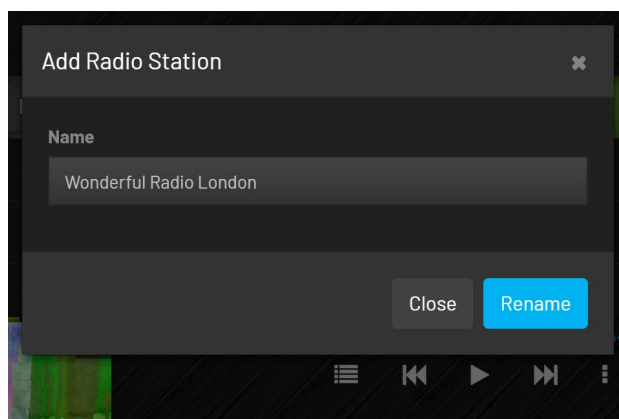
Webradio music source gives you several view options:

- **My stations** - station that you added to queue before
- **Top 500** - top 500s station by listener count
- **Search** - search by keywords
- **Tuneln browsing** - browse Tuneln directory

4.2.1.3.1 My stations

My station contains a list of all radio stations that you added to queue at some point in the past.

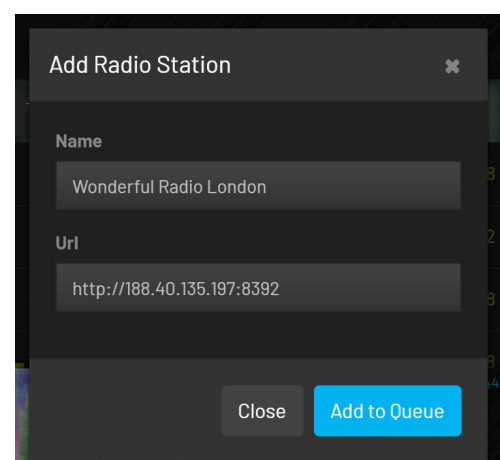
Every row displays station name (default one or the name you have chosen while renaming a station) and three-dot menu with options to rename the station or remove it from the “My stations” list.



Search box is used to filter displayed items by hiding all stations that do not contain the search string.

“+” icon in the toolbar next to the number of stations found is used to add known station url.

In the popup dialog you can choose a name for the station and enter station url.



Station's stream url is checked first and if it is not playable it won't be added to the queue.

Few things to note:

- Some web pages that provide Web Radio stream urls actually give links to playlist file that contains actual stream url. Euphony tries it's best to detect this and parse the playlist file for actual stream url but it's possible it will not always succeed. (if you encounter this for all stream urls from a specific site please let us know so we can investigate and support that site too)
- Some urls you find may be old, obsolete or don't work temporarily. To be sure, try again later.
- Some radio stations have geo restrictions. You will be able to add them to queue and play them but they will only play a recording informing you of that restriction. (It is best not to add previously unknown stations to Queue without checking first if they actually play music)

4.2.1.3.2 Top 500

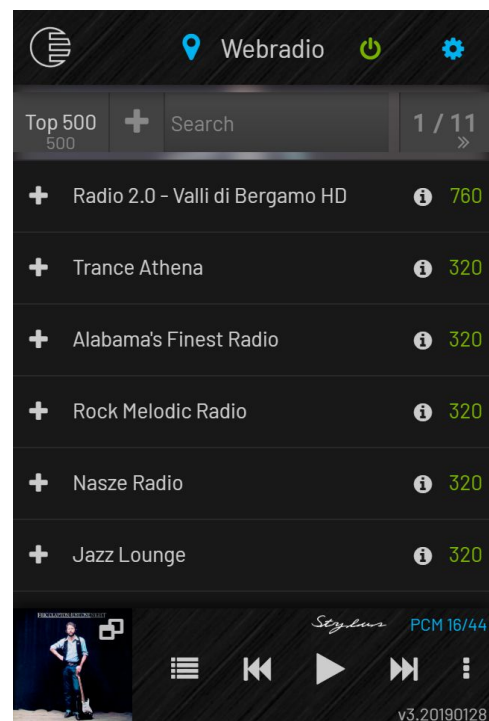
This will display the top 500 stations by listener count as recorded by Shoutcast.

Station row shows station name, currently playing song's title and genre all separated by vertical bar: "|".

At the end of the line is declared bitrate for the station. Bear in mind that those are not always correct.

"+" icon will add this station to the queue. Station's stream url is checked first and if it is not playable it won't be added to the queue.

Search box is used to filter displayed items by hiding all stations that do not contain the search string.



4.2.1.3.3 Search

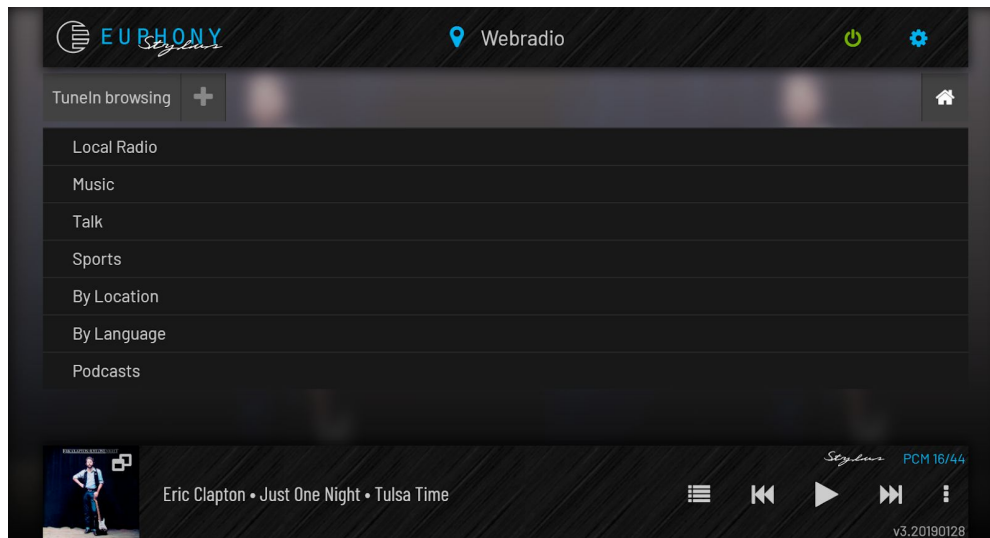
Search results are in the same format as in the Top 500 view.

Station row shows station name, currently playing song's title and genre all separated by vertical bar: "|".

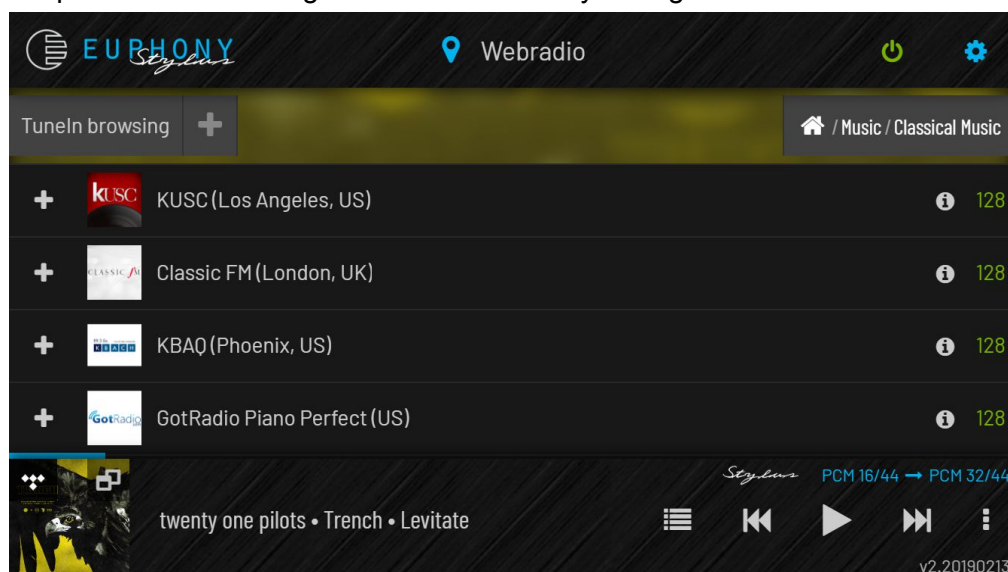
"+" icon will add this station to the queue. Station's stream url is checked first and if it is not playable it won't be added to the queue.

4.2.1.3.4 TuneIn browsing

TuneIn has a browsing directory of stations. Initially you choose one of the categories and get either: a list of other sub-categories to choose from or station list.



When you get a station list it behaves exactly like in other views and in the top right you get your path in the browsing tree which enables you to go back one or more levels.



4.2.1.6 Paging

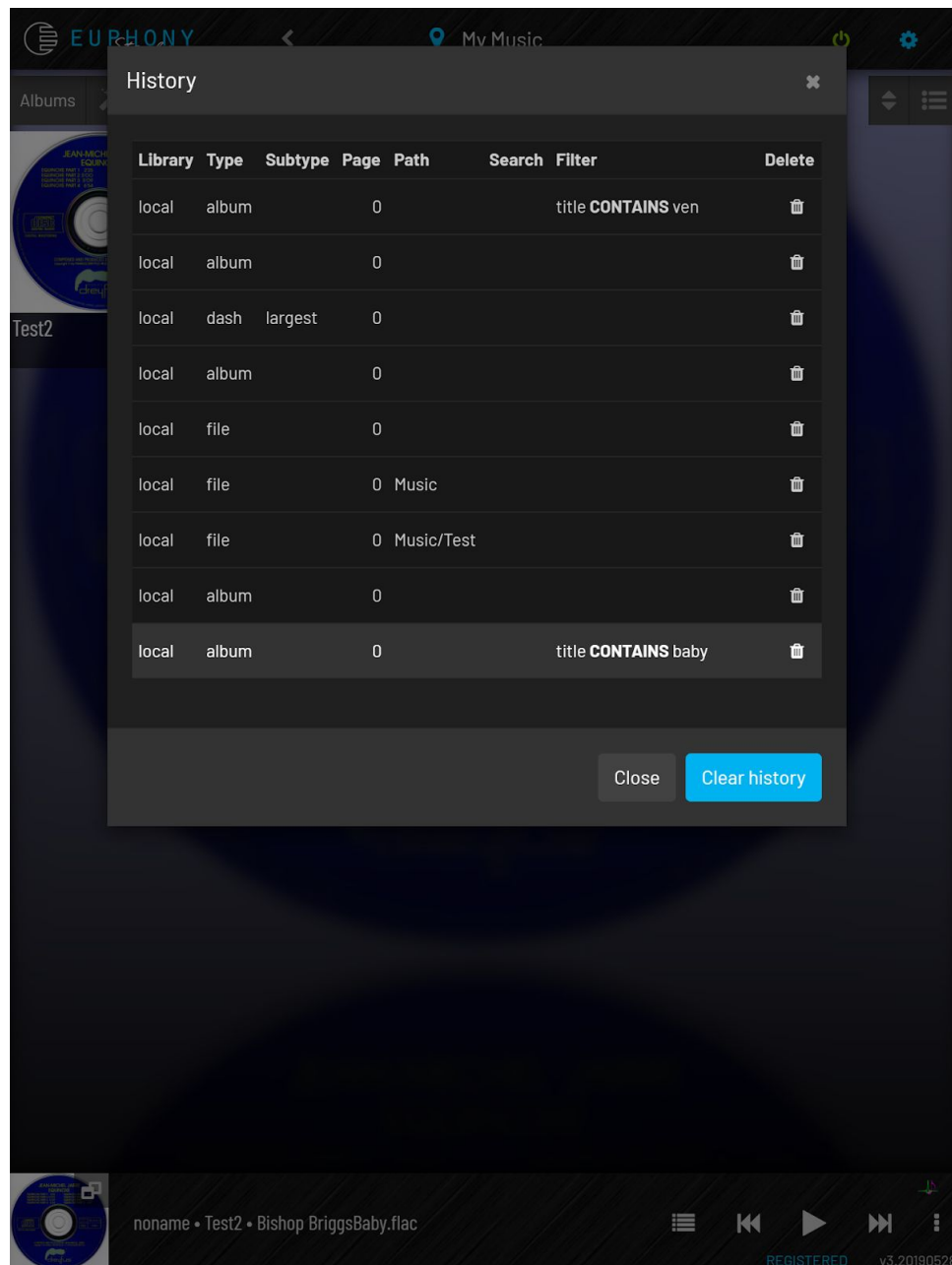
Total number of items available is always displayed in a small font below the chosen view label. If you have more than PAGE_SIZE items then paging UI will be displayed. It consists of a couple of small buttons in the top toolbar for previous/next page (with current page number and total pages) and paging toolbar at the end of the list with <select page number> buttons.

PAGE_SIZE can be adjusted in Settings -> Library -> Miscellaneous.

4.2.1.7 History

As you browse your library by changing filters, views or music sources, every step is recorded in history. You can go back and forward through it by using chevron buttons on the top near the Euphony logo.

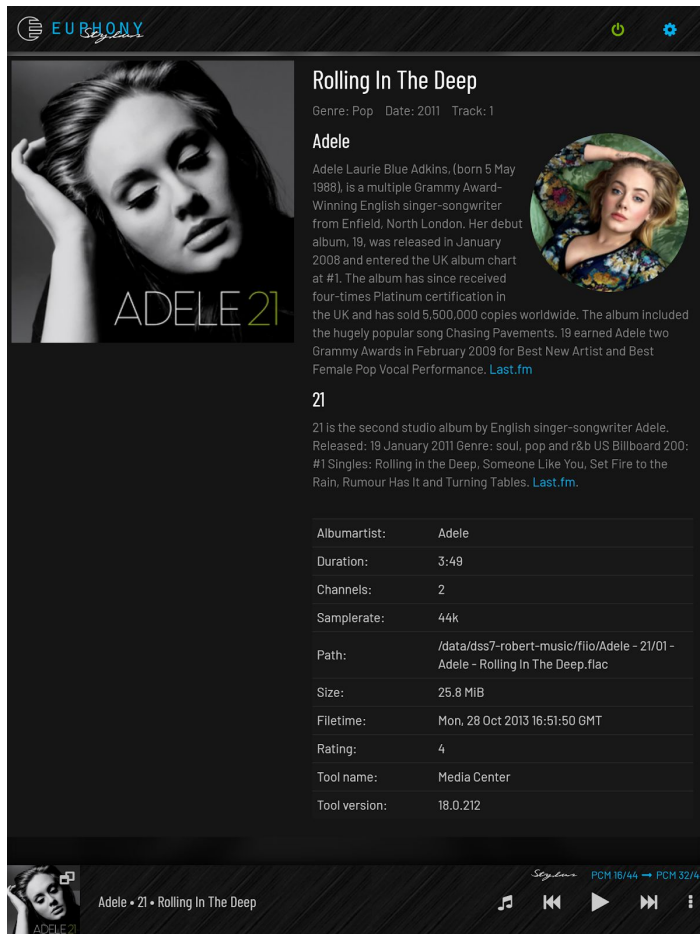
By right clicking on the buttons or by long touch on mobile devices the whole history is shown.



You can select any history item to go to that moment or clear the history if it becomes too large.

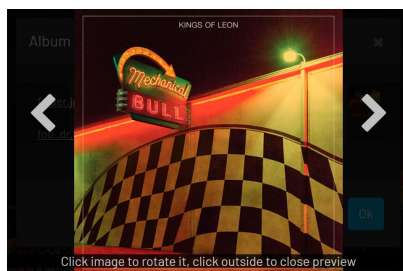
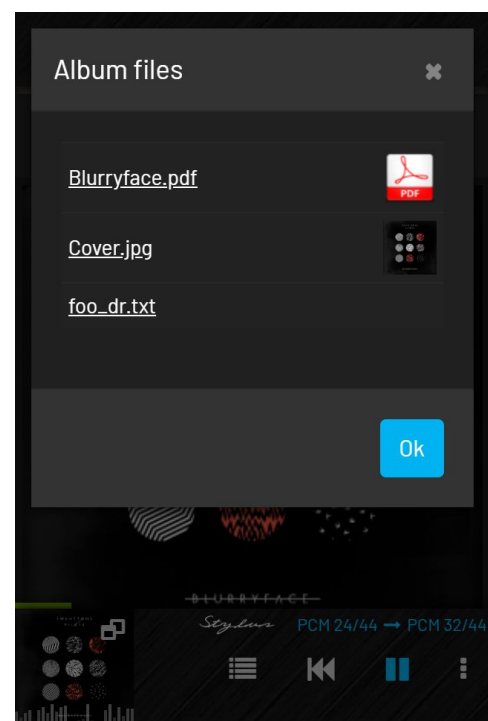
4.2.2 Playing Now

Playing now screen is shown/hidden when you click on the cover photo in the footer on the bottom of the screen.



It displays info about the song that is currently playing (or paused). It also offers album and artist information. In addition to title, album, artist, genre and disk fields it will show the table with all other attributes (even non-standard one) that could be found during scan.

If you click on album cover photo and the folder that this song belong to (presumably album folder) contains other files except music files or playlists then a dialog will open with list of those files:

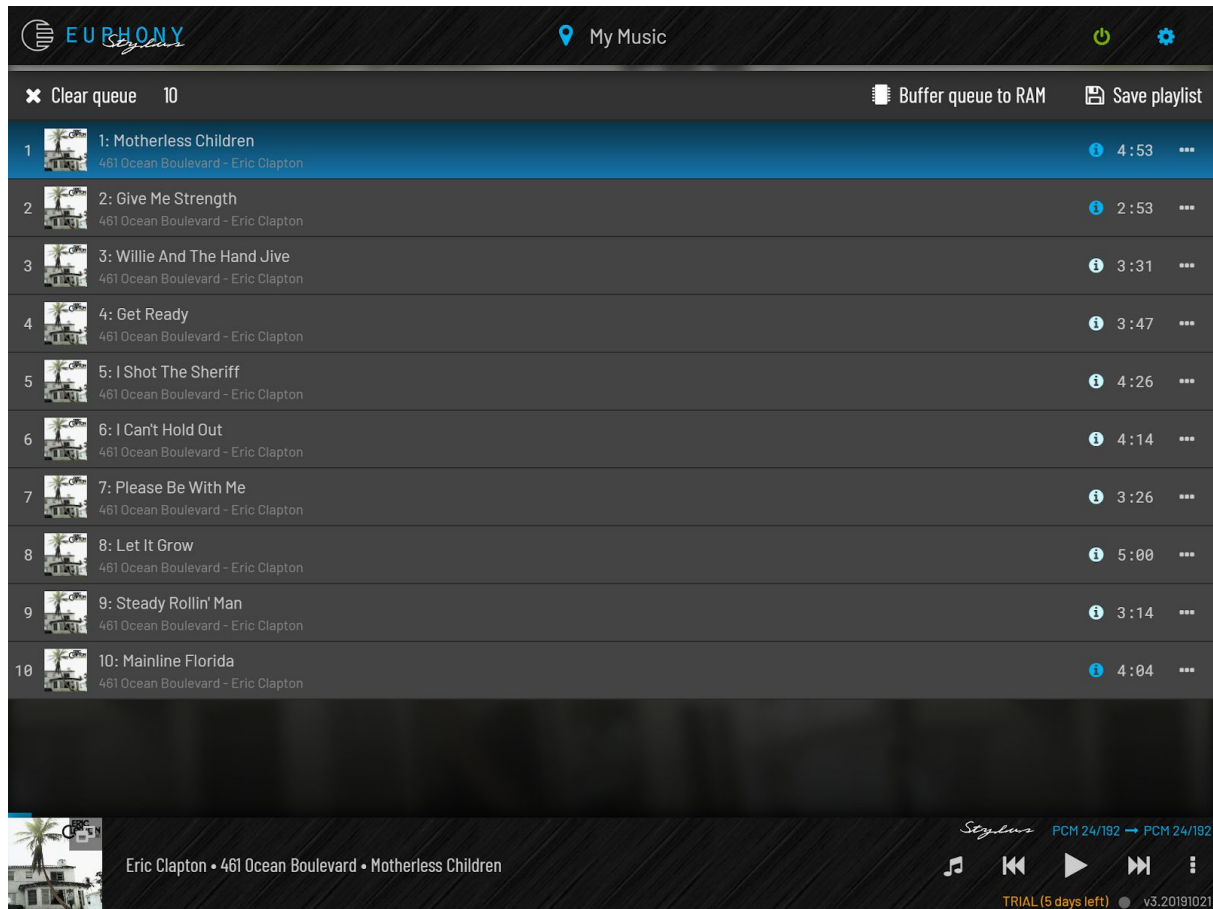




If you click on the filename the file will be downloaded to your computer. If the file is a picture file or PDF file, clicking on the file icon will open full

screen overlay where you can view the file in detail. In this screen picture files can be rotated and if there are more picture files in song's folder you can cycle through them with "<" and ">" buttons.


PDF files cannot be viewed on mobile devices directly in the browser, you must download them and then use PDF-viewing app but most desktop browsers will display the PDF directly.

4.2.3 Queue



Queue screen overlay displays songs in the play queue. It is shown/hidden when you click on list icon  or any part of empty space in the footer. To go back to the library view click music icon  that appears in the same place.

Currently playing song is highlighted in blue. Clicking on a currently playing song's row will function as Play/Pause button. Clicking on any other song will start playing it immediately.

Clicking on the info icon  (before song time) will bring up a dialog with all attributes of that song.

Euphony usually buffers the song that is currently playing and the next song to RAM. When the first song finishes playing, the next song (which is already buffered) will become current song and start playing and buffering of the next song will be initiated in the background. If you want to completely avoid those buffering operations during transitions to the next song you can choose to buffer the entire Queue at once by clicking **Buffer Queue to RAM**. System will then try to copy all Queue songs to RAM. If there is not enough free memory (depending on your Queue size and the file size of songs in it) Queue will be only partially buffered and you will get a notification about how many songs are buffered. In addition to that, you will be able to see which songs are buffered and which are not because buffered songs will have their info icon colored in blue.

Meaning of the info icon colors :

- Blue - song is buffered to RAM
- Light blue - song is cached to Euphony Drive (/data/Music path)
- Light gray - song is on its original location and not buffered

If you selected 'Use cache' in Settings -> Library section all songs that reside on network drives or attached devices will be copied to Euphony drive cache (/data/Music/E_CACHE) when added to Queue. When a song is copied to cache it will have a light-blue info icon. This option makes sense if your Euphony drive is faster or less noisy than the original drive.

Horizontal ellipsis icon **⋮** menu contains options to remove the song from the queue or move it up one place in the queue.

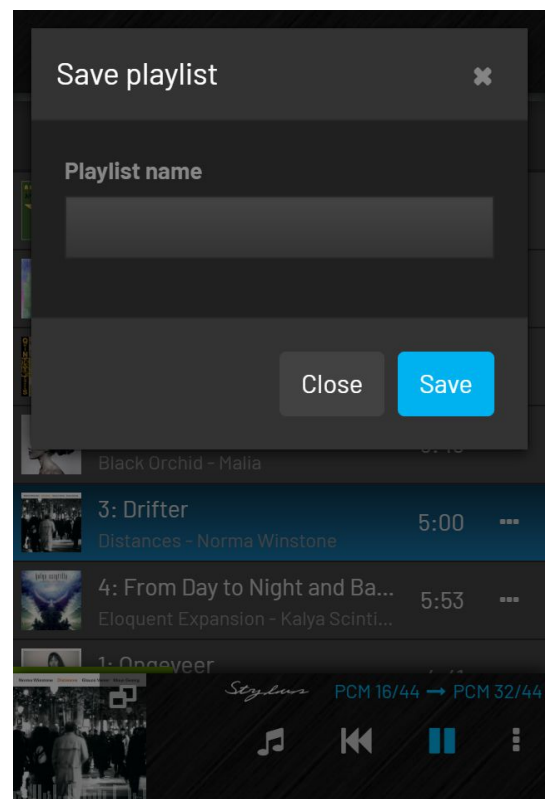
Queue song list supports drag-and-drop rearrangement. It is achieved by grabbing the row by it's cover photo and moving up-down on the desired position.

At the top of the queue list there are also options to clear the queue or save it as a playlist.

This playlist file will be saved with your name and .m3u extension and it will be placed in the User-Playlists folder on Euphony Drive.

Note: if you need to edit your saved playlists right now this can be achieved in a roundabout way with the help of the Queue:

1. Add & Replace the playlist to Queue
2. Use Queue reorder/remove capabilities to reorder/remove songs from queue
3. Save the Queue with the 'Save playlist' button and choose the same name your playlist had before - it will be overwritten.



4.2.4 Playing controls

Playing controls are located in the footer bar. You have standard buttons: **Previous** ⏮, **Play/ Pause** ▶ / ⏸, **Next** ⏭.

Play/Pause button changes appearance depending on play status.

Previous button doubles as the **“Rewind to start”** button. That means that unless the song is in the first 5 seconds of playing Previous button will rewind the current song to start.

Vertical ellipsis icon ⋮ will open a small panel above the footer.

Here you can seek to desired position in the song, change volume (if software mixer is enabled in settings) and change the status of following queue options:

- **Random** 🎲 - next song is chosen at random
- **Repeat** 🔁 - after the last song play starts again from the first song in queue
- **Single** ● - only plays single song (and repeats it if Repeat is also on)
- **Consume** Ⓜ - song is removed from queue after play finishes
- **Radio** 📶 - after last item in Queue is played next song is automatically added

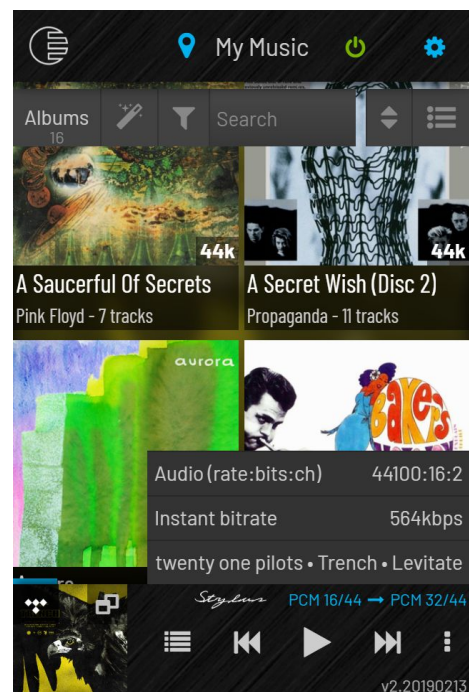
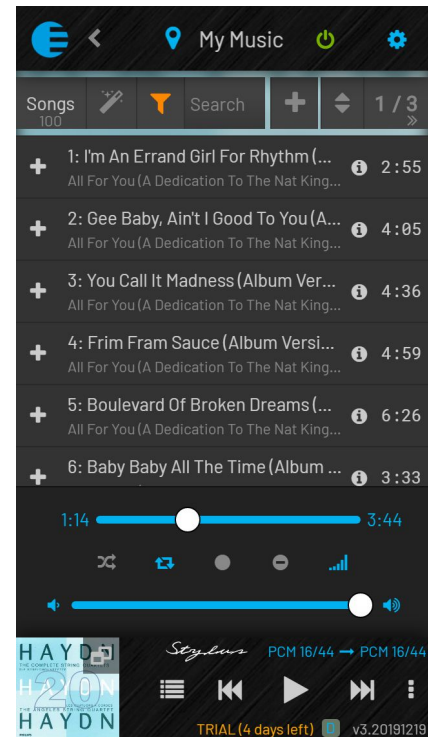
If the icon is blue then option is ON, otherwise it's OFF. Click on the icon toggles the option's state.

Top row of the footer also indicates:

- Which Player is in use at the moment: Stylus or HQPlayer.
- What is the format/bits/samplerate of input and output.

Clicking on this row opens addition small panel that will display audio parameters of input file, instant bitrate and song title, album name and artist of the song currently playing separated by “•”.

On bigger screens this line is shown directly in the footer (see first couple of screenshots in the document).



4.3 Tools/Settings

Place to change system settings with subsections related to various system aspects:

- Music service
- Music library
- Euphony system
- Complete installation
- Install
- System Update
- Feature update

Depending on several things some sections may be hidden.

Music Service section is displayed only if Stylus is not selected.

Music Library section is displayed only if Stylus or Roon Server are selected.

Euphony system section is always displayed

Complete section will only be displayed for registered users and for a Euphony system made by writing downloaded Euphony image directly to the disk.

Install is available only if the system was booted from the drive that has been made by downloading image file from our site. It will not be available on a system made by this install function or on a system that you receive on pre-installed SSD drive that you bought.

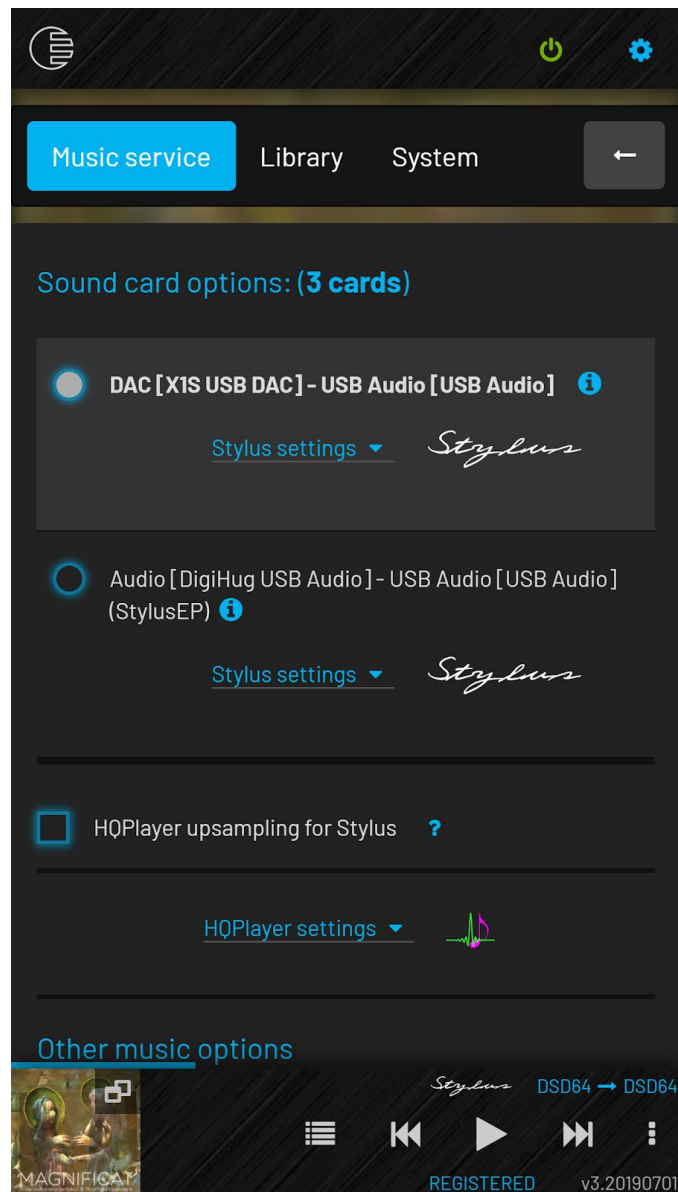
Update section will only be displayed for registered users.

Feature update section will only be displayed for registered users.

4.3.1 Music Service

Music Service section displays:


- Your connected DACs (you can have more than 1 connected)
- Settings specific for each connected DAC
- Other music options

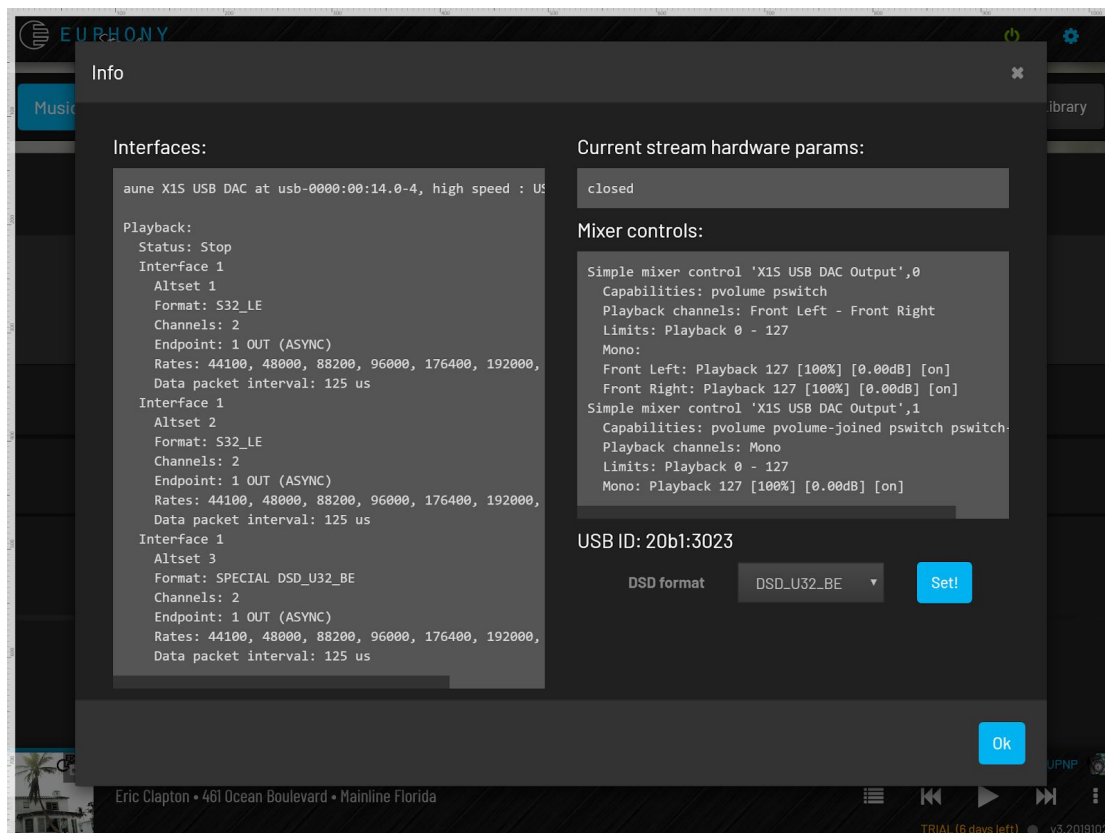


Clicking on the radio button in front of the card line selects that card for playing.

Note that cards detected by connected remote StylusEP endpoint have “(StylusEP)” at the end of its name. They can be selected and will function the same way as local cards.

UPNP playback devices on the network will be marked with “(UPNP)” after their declared name.

Clicking on blue information icon  at the end of your sound card line you can view detailed runtime parameters of your card, as detected by the system:



If your DAC supports DSD native playback and Euphony system detects it (by showing Format: SPECIAL in one of the 'Interface' sections) and does not show the specific format after SPECIAL (like DSD_U32_BE in above screenshot) this means you have to choose the format yourself. For most cards DSD_U32_BE is the correct one to choose. Some boards (like some Amanero boards), will require choosing DSD_U32_LE. After you choose the format and click the '**Set**' button you have to detach/attach your DAC or power it OFF/ON for this setting to be applied .

4.3.1.1 DAC specific options

DAC specific options are divided into two sections:

- Stylus related options
- HQPlayer related options

In order to activate HQPlayer upsampling you must enable the "**HQPlayer upsampling**" option.

This will show you HQPlayer options and activate HQPlayer playback for all song file formats that HQPlayer supports. Those are: **dff, dsf, flac, wav, aiff**.

It's important to notice that even when HQPlayer upsampling is activated, when the song to be played does not have one of these formats **Stylus** player will take over and play the file.

That is why there is an indication icon in the footer to show which player is currently active.

4.3.1.1.1 Stylus options

4.3.1.1.1.1 DSD

You must choose an appropriate option depending on the way your DAC supports native DSD play.

You can choose between:

- Native
- DOP (DSD Over PCM)
- Convert to PCM

4.3.1.1.1.2 DSD to PCM samplerate

When converting DSD to PCM this sets conversion samplerate.

4.3.1.1.1.3 Volume control

For Native and DOP DSD playback this will be forced to: 'None' but if you choose DSD option: 'Convert to PCM' then you can choose between:

- Hardware
- Software
- None

Every DAC has its own quirks so choose what works best for yours.

4.3.1.1.1.4 DAC delay

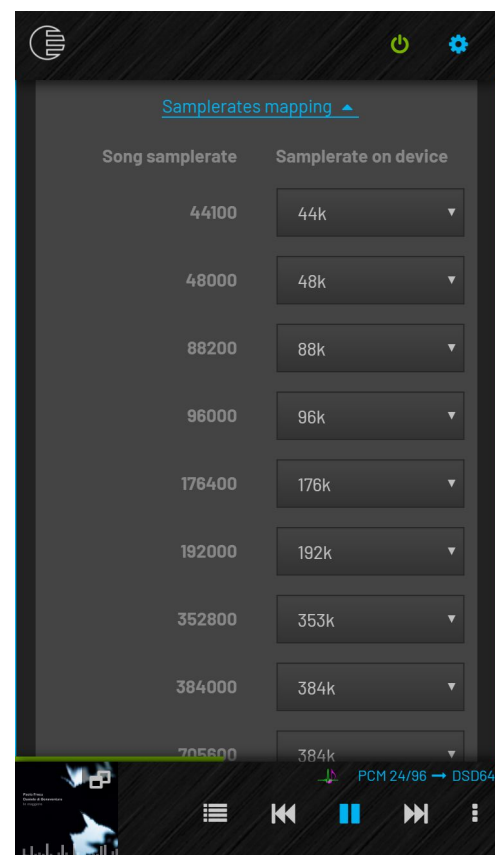
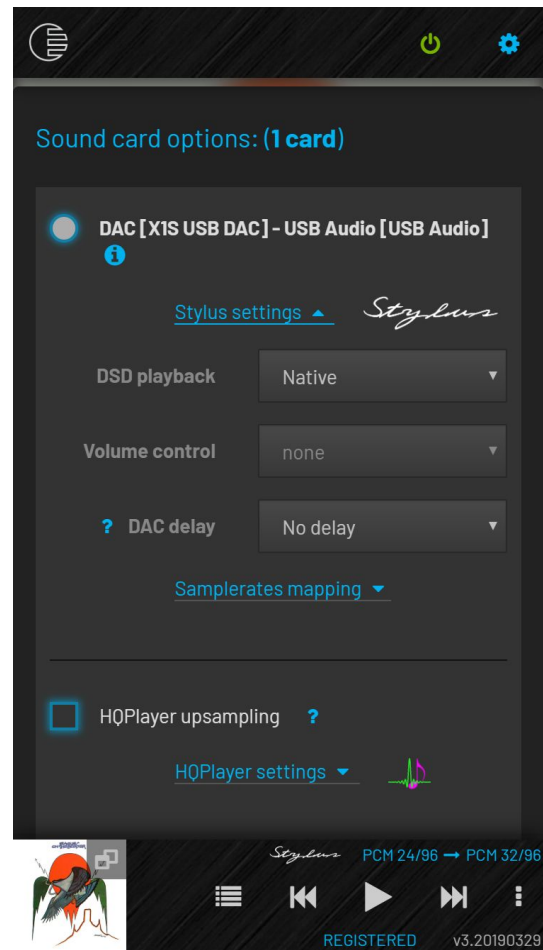
Delay between playing songs of different formats. (It solves problems with DACs that are slow to switch rates and formats ie.: from PCM to DSD)

4.3.1.1.1.5 Samplersates mapping

Euphony will always try to detect which samplerates the attached DAC supports and it will create default mapping. This mapping maps unsupported samplerates to supported ones. Default mapping follows simple algorithm: Map unsupported rate to:

- closest larger supported rate **OR**
- the largest supported rate

This default mapping can be changed here.



4.3.1.1.2 HQPlayer options

If HQPlayer upsampling option is checked then you have access to HQPlayer tuning options. Click on HQPlayer Settings to expand this section.

You can also check '**Convert non-DSD formats**' option to convert all song formats (except DSD) to raw PCM before passing to HQPlayer. That way HQPlayer can play song formats that it doesn't support (like mp3).

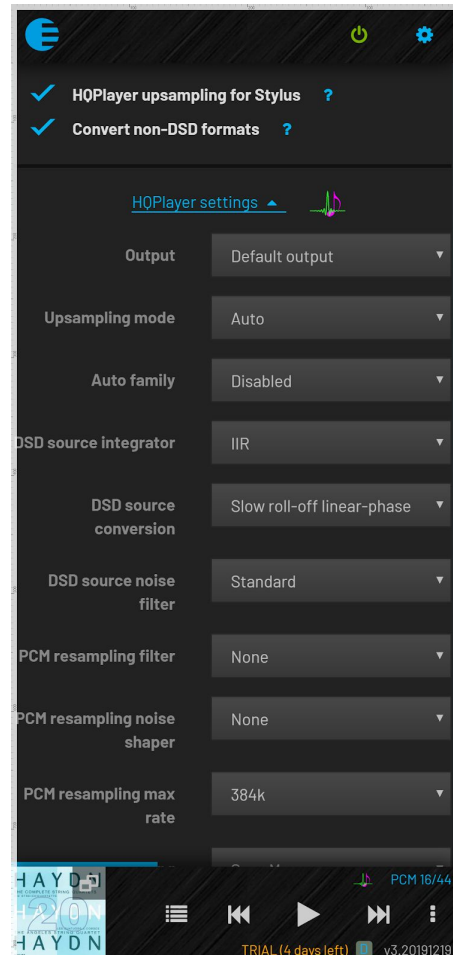
We will not try here to explain all HQPlayer options. Please refer to the HQPlayer Desktop manual where all this is explained in detail.

There is one important option that needs closer attention: **Output**.

'Default output' means that HQplayer will send song data to locally attached DAC.

If you choose 'Networkaudio (NAA)' for output that means HQplayer will try to find Networkaudio daemon running on some other machine on your network and send song data over the network to it.

Notice: if HQplayer cannot find Networkaudio running anywhere it will exit. That means you have to start it again when you make Networkaudio available.

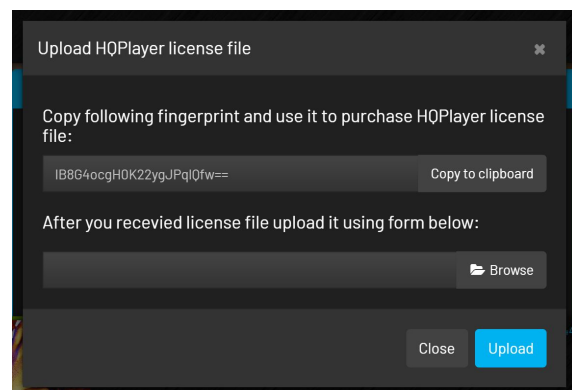


HQPlayer needs a separate license to work without interruption. Without a license file HQPlayer will stop every 20 minutes and you have to make an intervention in UI to start it again and resume playback.

HQPlayer registration process involves sending a machine fingerprint to

contact@audiokernel.com and paying for a license. After payment you will receive a license key file which you can then upload to the Euphony machine. For more info about the payment process look on <http://euphony-audio.com>.

HQPlayer registration is started from the Main Menu -> HQPlayer license. Dialog with open with **fingerprint string** to copy and when you receive **license key file** you will upload it via the same dialog.



4.3.1.2 Common settings

4.3.1.2.1 Buffer before play = 100%

This option will load the entire song into memory. We recommend enabling this option for best performance and audio quality.

This option has no effect on streaming sources - Web Radio streams and Tidal/Qobuz songs.

4.3.1.2.2 Buffer albums added to queue

This option will try to buffer, in advance, every song from added album to RAM. Buffering may take a while so if you immediately started album playback bear in mind that buffering is happening in the background so SQ may be affected until buffering is finished (when all songs in the queue have blue info icon).

If 'Buffer before play = 100%' option is not selected this option has no effect and it is hidden.

4.3.1.2.3 Start Playback Service in paused mode

If not checked then Playback will resume after startup or after Playback Service is restarted (Playback Service needs to be restarted when you change any options in this section)

4.3.1.2.4 Song histogram

If turned on, the song loudness histogram will be displayed above progress seek bar. Depending on the song this will incur additional processing cost during the first several seconds of playback and it may slightly influence sound quality during that time.

4.3.1.2.5 Enable internal cards

Internal sound cards are disabled by default. If you need them, enable this option.

4.3.1.2.6 Find UPnP audio devices

If turned on Euphony will search the network for UPnP devices that implement UPnP MediRenderer interface. Those devices will be shown along locally attached devices with '(UPnP)' designation at the end of device name..

4.3.1.2.7 Song pos. update

Interval for reporting song elapsed playing time to clients. Increasing the interval reduces network traffic and potentially reduces interference thus improving SQ.

4.3.1.2.7 Preferred view

Euphony by default remembers your last menu/submenu selection for each music source in a browser cookie. If you wish to have the default view for a music source fixed to some menu/submenu combination, you can do it here.

4.3.2 Music Library

In this section there are several subsections:

- Library paths
- Network Drives
- External Storage
- Internal Storage
- Credentials for external services
- Miscellaneous
- Music Info

The screenshot displays the EUPHONY Music service interface with the 'Library' tab selected. The interface is dark-themed and includes a top navigation bar with 'Music service', 'Library', and 'System' tabs. A 'Back to Library' button is located in the top right corner.

Library paths:

Name	Attached to path	Action
Euphony Drive	/data/Music	
dss7-share-music	/data/dss7-share-music	...
ds411s-m1	/data/ds411s-m1	...
dss7-robert-music	/data/dss7-robert-music	...

Network drives: 3

Server	Path	Name	Linked	Action
dss7	share/music	dss7-share-music	/data/dss7-share-music	...
dss7	robert/music	dss7-robert-music	/data/dss7-robert-music	...
ds411s	m1	ds411s-m1	/data/ds411s-m1	...

Add new network drive:

Q Browse network server path + Add network drive

☒ Share Music Library on network ?

☒ Skip library scan on startup ?

Internal Storage (drives: 3)

Credentials for external services

Credentials: Tidal Qobuz

Miscellaneous

☒ Use cache ?

☐ Download missing covers ?

Results / page: 24

Webradio search: Sort by bitrate

Eric Clapton • 461 Ocean Boulevard • Mainline Florida

UPNP

TRIAL (6 days left) v3.20191021

4.3.2.1 Library paths

When you attach some USB device or add network share, it will be accessible on your data partition under some folder name.

- Folder name for attached USB devices will be it's volume name (Created during device format or set by manufacturer).
- Folder name for linked network shares will be comprised from: server name + share path

This folder will not be part of your Music Library at once. You have to explicitly add it to the library (see next section).

Library paths section lists all paths that are part of your music library. You can remove the path from the library. Paths that are not accessible at the moment are listed in red.

**** Roon specific notice:** If you select Roonserver as your music service, library paths added via Euphony app as explained in this and following sections will not be part of the Roon library automatically. You have to add them also in Roon. The path to add is visible in the second column of Library paths table. Copy this path and paste it in Roon.

4.3.2.2 Network drives

Here you can add network shares to the music library and you can see the listing of shares you added before. Existing shares can be:

- Added directly to Music library (attached Library Paths list)
- Removed from it
- Detached - share remains present in app configuration
- Deleted - detached and removed from configuration
- Used for Music library **backup** (all music files + configuration files + cover and info files)
- Used for Music library **restore**

Backup and restore are used in a manner of one way synchronization. This means that:

- Repeated backup on the same share will copy only newer files in your Music library
- Restore will add only files that are missing in your Music Library

If you want to add and delete files in your Music Library on Euphony drive from another computer then enable option '**Share Music Library on network**' and you will be able to access Euphony drive as Samba network share. Connect to Euphony through it's hostname (default: euphony) or IP address.

In Windows open Windows Explorer, type \\euphony in the address bar and press enter.

User/password: **audiouser/euphony**


If you have a large library and you don't want that Euphony scans your library for changes every time the Euphony app starts you can select option '**Skip library scan on startup**'.

If you select this remember to manually update the library with 'Update music library' option from Main Menu.

4.3.2.3 External drives/Internal drives

Here are listed your external/internal devices (disks and their partitions). In three-dot menu you have options to:

- Add/Remove it from Music Library
- Mount/Unmount (for safe removal)
- Format and add to Music Library

(Only partitions can be attached, disks are listed for informational purposes and initially hidden. The device that has the Euphony operating system on it and it's partitions are initially hidden. You can view them by clicking on the **eye icon**  in the table's header row).


4.3.2.4 Credentials for external services

If you accessed one of external services like Tidal and entered some credentials here you have the option to change them (in case you changed passwords or you changed whole account).

4.3.2.5 Miscellaneous

4.3.2.4.1 Use cache

Notice: enable this only if Euphony is installed on fast-access drive like SSD.

Songs from external drives added to queue will be copied to cache (folder E_CACHE) on Euphony drive (for fastest access and playback).. Later, when you browse your library you will have duplicate songs for some album but songs from E_CACHE will be displayed by default, and songs from the original location will be hidden. You can view all songs for an album with duplicate songs by clicking **eye icon**  near the end of the album row.

4.3.2.4.2 Download missing covers

Euphony tries to find album cover images in the folder structure of your album. If no such files can be found you have options for a specific album: to download cover image from web or upload it yourself. If you want Euphony to try to **download missing covers** from the web **automatically**, without your intervention, for every album **in your current album view** - select this option.

(This function will not automatically go through your entire music database at once - it will only try to download covers for albums that you are currently viewing in your web application - 50 at a time, since only one page of 50 items is initially displayed).

It is still possible that some covers will not be found - for these use manual option and adjust album and artist names if needed (i.e.: when you have album name 'Gold -- Disk 1' maybe you can try without '-- Disk 1' and use only 'Gold').

4.3.2.4.3 Results / Page

Here you can choose the number of results per page in library views. More results per page: less pages - more scrolling and vice versa (**Warning:** don't use page size 96 if you need Youtube browsing - it will return no results - this is a known problem which will be resolved at a later date).

4.3.2.4.4 Webradio Search

Choose sorting: by bitrate or by listener count (descending).

4.3.2.6 Music Info

This section is for informative purposes - it lists some statistics from music database and the state of some playing-related flags. It also gives you the option to **Rescan entire library** and **rebuild database** and to **Erase cover cache**.

Euphony library manager scans library folders for changes after every startup. It only checks file timestamp. If the timestamp has changed (after last scanning of that file) file is read and scanned for tags and other properties. If the timestamp has not changed, the file is only marked as valid in the database. By rescanning entire library and rebuilding the database you are essentially erasing the database and building it from zero by rescanning the entire library.

During library browsing Euphony will try to find cover files in song's folders or download them from the internet (if 'Download missing covers' was turned on). All these covers are resized and copied to Cover cache folder. If you ever feel that this folders takes too much space or is somehow not showing the covers you expect, you can erase it so it can be recreated again during your browsing.

4.3.3 Euphony system

Here you can change a couple of operating system related options:

- Timezone
- Hostname

4.3.3.1 Timezone

Change your timezone by entering the nearest **major city** in your timezone. Use underscores instead of spaces if needed, i.e.: New_York

4.3.3.2 Hostname

If you prefer, you can change the name of the Euphony system as it appears on the network. You need to do that if you plan to have multiple Euphony installations running on the same network. If you change it to ie.: 'euphony-bedroom' then you must access the Euphony Web App via: <http://euphony-bedroom>.

After changing this option, the Euphony system will be restarted. Wait until the browser redirects itself to the new hostname after approximately 40 seconds.

4.3.3.4 Fallback IP address

If Euphony does not acquire an IP address from DHCP server it will use this IP address.

4.3.3.5 Fallback router IP address

If Euphony does not acquire router IP address from DHCP server it will use this IP address.

4.3.3.6 Bridging

If you have more than one ethernet interface and you plan to connect another machine directly with this one via ethernet cable you can bridge all ethernet interfaces to achieve that. Changing this option will cause machine reboot.

4.3.3.7 System info

Here are listed some system parameters including **Euphony version number** and Euphony release number. Click on the release number to see recent changes.

Here are also listed your registration details and device fingerprints.

Your Euphony license is connected to **Euphony hardware fingerprint**. If you change the device we can transfer your license to a new device. Old device will become unregistered again.

If you enabled HQPlayer upsampling then here will be listed HQPlayer hardware fingerprint and HQPlayer license status ('Trial' or your registered name).

4.3.3.7.1 Revert

Starting from release 20190215 after updating to the new version you can choose to revert to previous release. To do this use the 'Revert' button which appears next to 'Previous release' number.

4.3.3.7.2 Logging

In order to minimize disk interaction you can reduce the internal logging by changing the logging level from 'All' to 'Errors only' or even 'None'.

In case of problems and need for support make sure to first set the logging level to 'All', try to reproduce the issue and then generate logs for support.

4.3.3.7.3 Generate logs for support

By clicking on the button 'Generate logs for support' Euphony will collect relevant system information and log files and generate archive file: **logs.tar.gz** which should be automatically downloaded by your browser. In case of problems open a ticket on our [support system](#) and attach this archive file.

4.3.3.7.4 Toggle RC!

When you click on red Toggle RC button you open secure SSH tunnel which will enable Euphony support to remotely connect to your Euphony machine in order to better diagnose the issue you have and possibly offer immediate solution by making direct changes to your Euphony system.

Please, **do not use this** without direct coordination with Euphony support.

4.3.3.7.5 Credits/Licenses

Clicking on Credits/Licenses button will open a dialog with listed credits, links to all license files and **Written offer for source code**.

4.3.4 Install

Install option is not available for unregistered installations.

Install option is not available on systems made by this function or on pre-installed SSD drives.

Install will perform Euphony installation/repair on another disk (not on your current running Euphony instance).

If your first Euphony installation came to you as a USB image and you have a dedicated machine for use as Euphony system then you will probably want to have it on your machine's hard disk. (You may also want to show Euphony to a friend and put it on his usb). You can perform such an installation here. (Note that installation from Euphony Web Application is faster and simpler than writing original Euphony image file to target disk).

Install section will not be shown if there are no possible target devices attached (You cannot install it on disk from which you booted the system up.)

If you go to the Settings screen and attach a device after that, refresh the page so the app can pick up changes).

Important: after starting installation don't leave the Install screen until installation is finished.

WARNING: Install procedure erases all data on selected disk (all partitions). This means that if you do this on a disk that already has Euphony installation, all your data there will be lost (including Music Library).

If the disk you install to already has Euphony installed then you will have the option to 'Repair' installation. This action will preserve your configuration and your music library and only system partitions will be overwritten.

To update your current running Euphony installation to a newer version always use Update option.

4.3.5 Complete installation

Complete option is not available for unregistered installations.

Main purpose of Euphony installation made by writing downloaded image to a device is to make trying Euphony extra simple. Write the image to usb, boot from usb and play with it to see all the features. If you decide to have a permanent Euphony instance you will probably want to install it on a hard disk and you will use the previously described 'Install' option. Nevertheless, if you, for any reason, want to make such 'image' installation your permanent one you must make this additional step: to 'Complete' the installation. Without this you wouldn't be able to receive System updates.

'Complete' option will create and initialize additional partition which is vital for seamless live updates of your running Euphony instance.

The way Euphony does updates to its system is based on having two system partitions:

- active one - which you boot from
- inactive one - which you use during update

Update essentially downloads the whole system partition filesystem image and applies it to inactive partition. Once that is done, the system is simply told to boot from the updated partition. Previously active partition becomes inactive one (and retains previous release to which you can always return to).

Important: When you burn a Euphony image to USB and boot from it you only have one system partition, the one you booted from. Inactive partition still **does not exist**.

To be able to receive updates you first have to register (Trial or full paid registration).

If you register for Trial and you want to receive updates during the trial period you have to create this second, inactive partition. This is done by the 'Complete installation' function.

Complete installation will create this inactive partition from filesystem image that is already present in the filesystem of the image you burned to your USB.

If you register fully, you will have 2 options:

- Install - installs Euphony on another drive creating all needed partitions and restoring the filesystem from the filesystem image to both system partitions.
- Complete installation - creates only second partition like before thus enabling updates

4.3.6 System Update

Update option is not available for unregistered installations.

Use this to update your existing Euphony installation without losing your configuration and already built Music Library.

Update procedure:

1. Backs up important configuration and state files
2. Overwrite your disk partition with new Euphony image
3. Restore backed up files

Update procedure does not touch your data partition which contains your Music Library.

4.3.7 Feature Update

Feature update option is not available for unregistered installations.

Some updates will come in the form of a **feature update**. This form of update is reserved for simple changes of web application interface or functionality. It will not replace your system image but only update some files and maybe restart web application server or reboot to pick up changes.

Feature updates are not cumulative. They only update the last System update image.

Consequently, feature update will not appear if you have a pending system update. This means that if you fall behind on updates it is possible that you will have to do 2 updates. First you will do a System update and after completing that you may also have a pending Feature update with a more recent date.