

## Streaming Player manual

### 1. Quick startup guide

The device may be used for installations in dry locations.

1. Connect your speakers(**6-8 Ohms**) to the Streaming Player's loudspeakers outputs
2. Connect Ethernet cable to LAN port (make sure the cable is interconnected with your local network)
3. Plug USB drive with music files in MP3, WAV, AAC, WMA, FLAC. **Note!** Please make sure USB is formatted with FAT/FAT32 file-system, NTFS is currently not supported.
4. Connect power supply to Streaming Player (power supply's red pole to +24V, black – GND. **Note!** Streaming Player supports two power sources, use any for connecting power supply)
5. To check if the wiring is done well, you can run any music file on your iPhone/iPOD and Share it to play on remote Airplay device (*amatilinea*).
6. Streaming Player is setup as DHCP-client. It uses Zero-config utility is called "Bonjour" by Apple which enables automatic discovery of computers, devices, and services on IP networks. iPod, iPhone have this utility pre-installed. For iPad use utility called **Discovery** (the server will be discovered in the service ROAP). On Windows 7 computer you can see the Player as Network share with name *amatilinea*, right click on it, Properties and you will see its IP address. Or you can simply check your DHCP server's lease list to find assigned IP to Streaming Player. More see here: <http://openrb.com/discover-ip-of-logic-machine-or-streaming-player/>
7. Enter Streaming Player's home page by typing IP address in your web browser.
8. DLNA/UPnP/Airplay services are enabled by default in the Streaming Player's *Quick setup*
9. Add additional music sources if any in the Streaming Player's *Quick setup* → *Services* → *FTP mountpoints*

10. Depending on count of music files the device will update its local database in Audio Player menu and you can start playing songs there
  
11. Connect by remote user interface (also called digital media controllers) from iPOD/iPhone/iPAD (*MPoD/MPaD* or any UPnP controller apps available as freeware at App Store like *Kinsky*), Android-based phones (*Droid MPD*), PC (*Ario, Kinsky*). Choose the server (*amatilinea* or by IP) and start making your playlists, controlling the music etc. Update player's database with *Update Database* command from your remote controller. **It might take some time to do initial database update.**
  
12. Map music control functions to KNX in *Network config* → *Network* → *KNX Audio control* menu. Default login and password to access *Network config* is **admin / admin**

Please note that you have to **use external KNX IP Router** (e.g. Logic Machine 2) to access the KNX TP, as Streaming Player supports only KNXnet/IP (TP is not used due to sound quality distortions).

## 2. Amati.linea WEB-based configuration

Using IP assigned to Streaming Player, connect using web browser.

To access *Network config*, you need to enter login name and password.

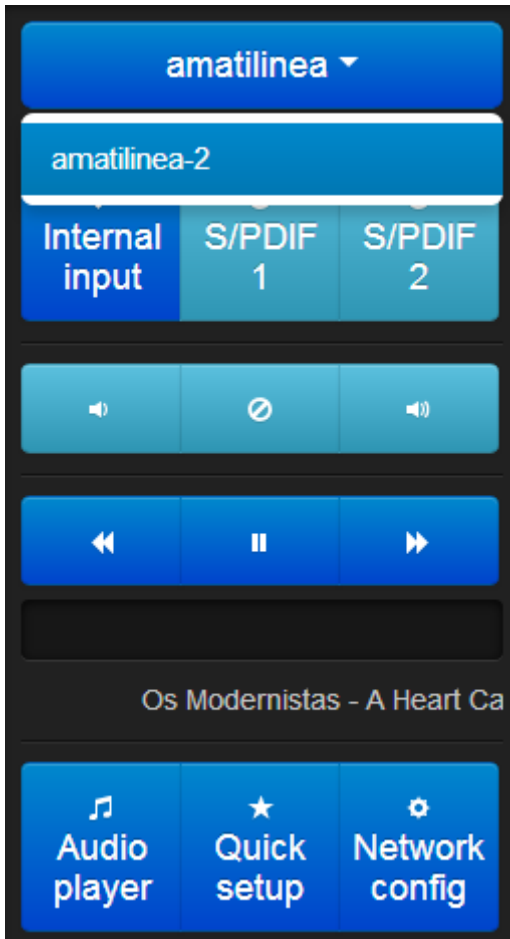
Login	admin
Password	admin



- **Audio Player** – built-in music player/controller
- **Quick setup** – audio related configuration
- **Network config** – network related configuration

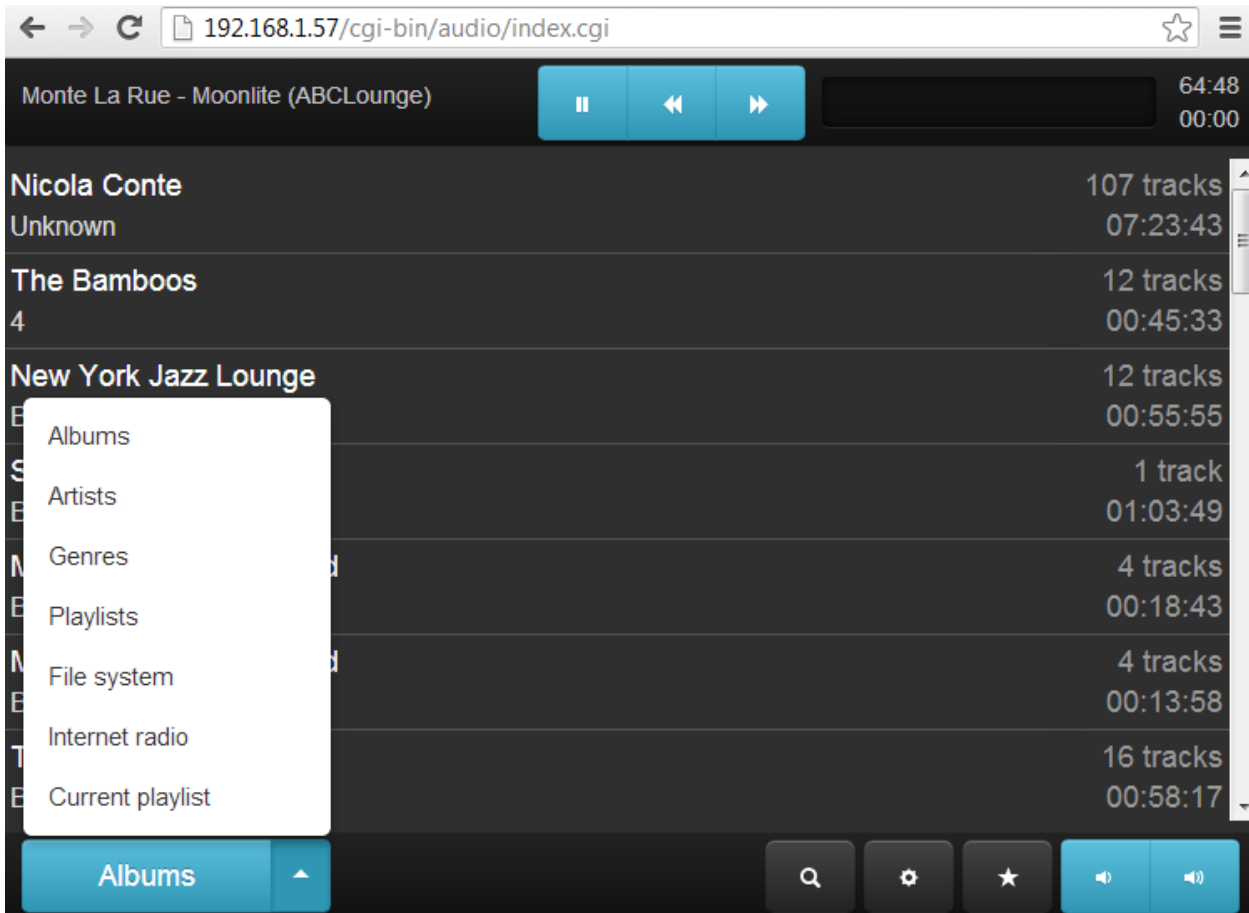
Default web page of the player provides quick player functionality.

On the top bar you can choose the player to control from your network. In case you have several Streaming Players installed in your LAN, you can control them from one interface.




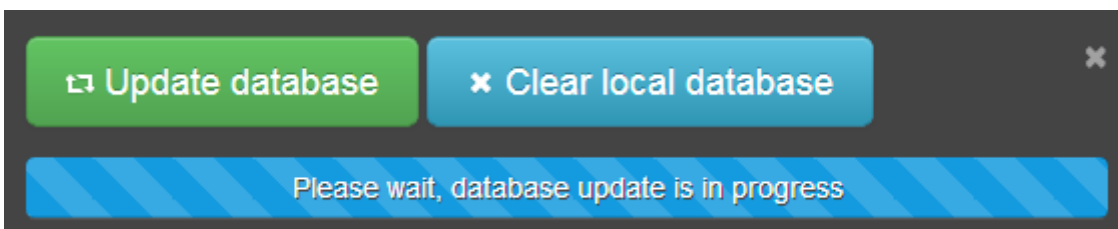
## 2.1. Audio Player – built-in audio controller, player

In *Audio Player* menu you can control your player, create playlists, favorites.



### 2.1.1. Update database

First thing to do after you enter the interface of audio player is to update local database which will create local library file with pointers to the music sources you have defined (DLNA servers, FTP servers, USB flash drives, internal FTP server). It may take some while if the library of songs is big. Click  on the *Settings* button to access the window.



### 2.1.2. Sorting

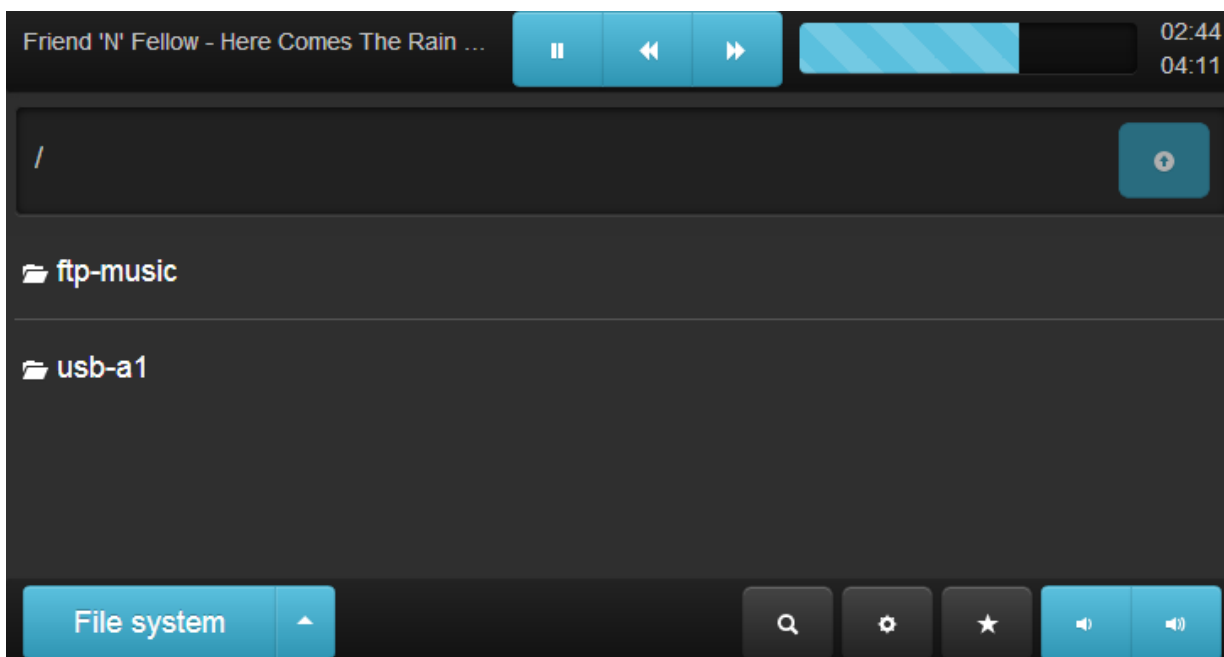
**Albums** – sort music library by albums

**Artists** – sort music library by artists

**Genres** – sort music library by genres

### 2.1.3. File system

*File system* folder contains music sources added and available on the network – DLNA, FTP servers, USB, internal FTP server.



You can enter specific folder by double clicking on it.

Liz Cass - They Can't Take That Away Fr... 08:26  
00:00

/usb-a1

2009 -Touch Yello

keep calm and relax

Friend 'N' Fellow - Both Sides Now (Joni Mitchell) (Discovered) 00:04:59  
Friend 'N' Fellow - 04 - Both Sides Now (Joni Mitchell).flac

Friend 'N' Fellow - A Case Of You (Joni Mitchell) (Discovered) 00:04:51  
Friend 'N' Fellow - 08 - A Case Of You (Joni Mitchell).flac

Friend 'N' Fellow - Here Comes The Rain Again (Eurythmics) (Discovered) 00:04:12  
Friend 'N' Fellow - 10 - Here Comes The Rain Again (Eurythmics).flac

usb-a1/test.wav 00:00:08  
test.wav

File system

Search, Settings, Favorites, and Playback controls


By double click on the song, it starts to play. By one time click on the entry it offer specific functions to do with folder/song – *Play, Add to current playlist, Refresh*

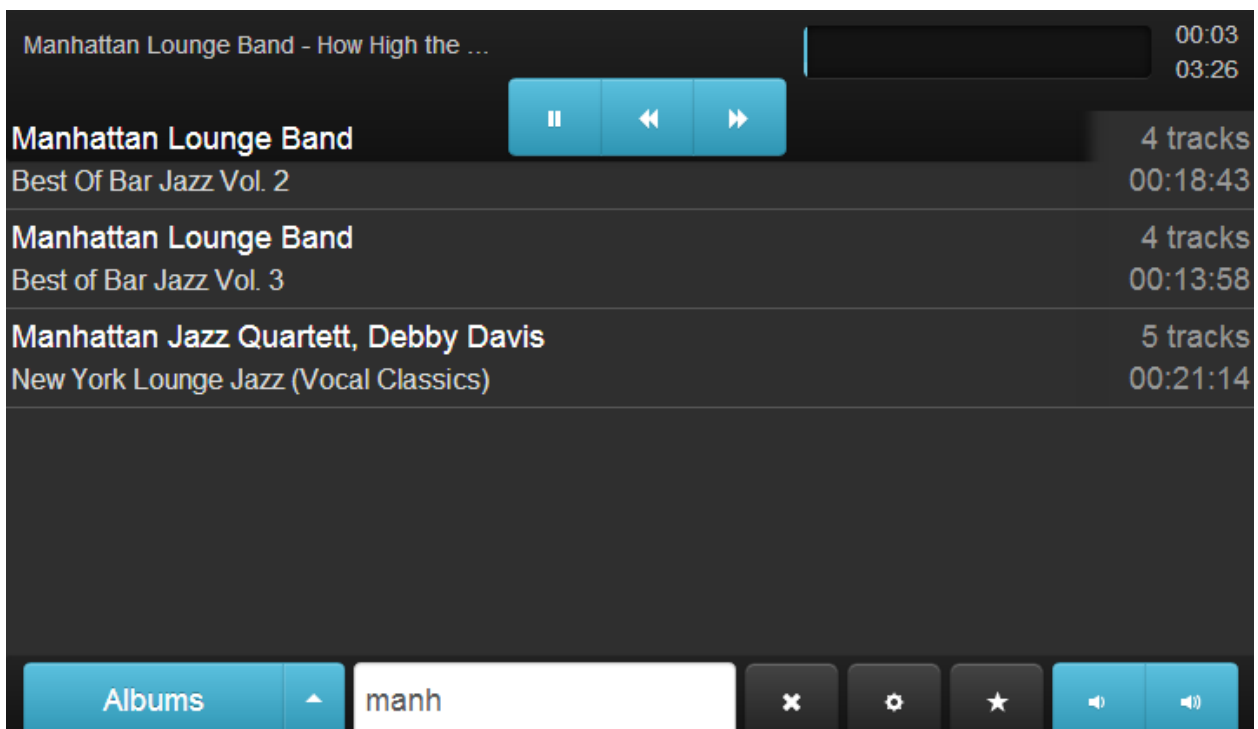


By one time click on the folder, there is also *Info* option, which opens content of the folder.



### 2.1.4. Search

Click on the *Search* button  and type the search phrase to find appropriate folders and songs.



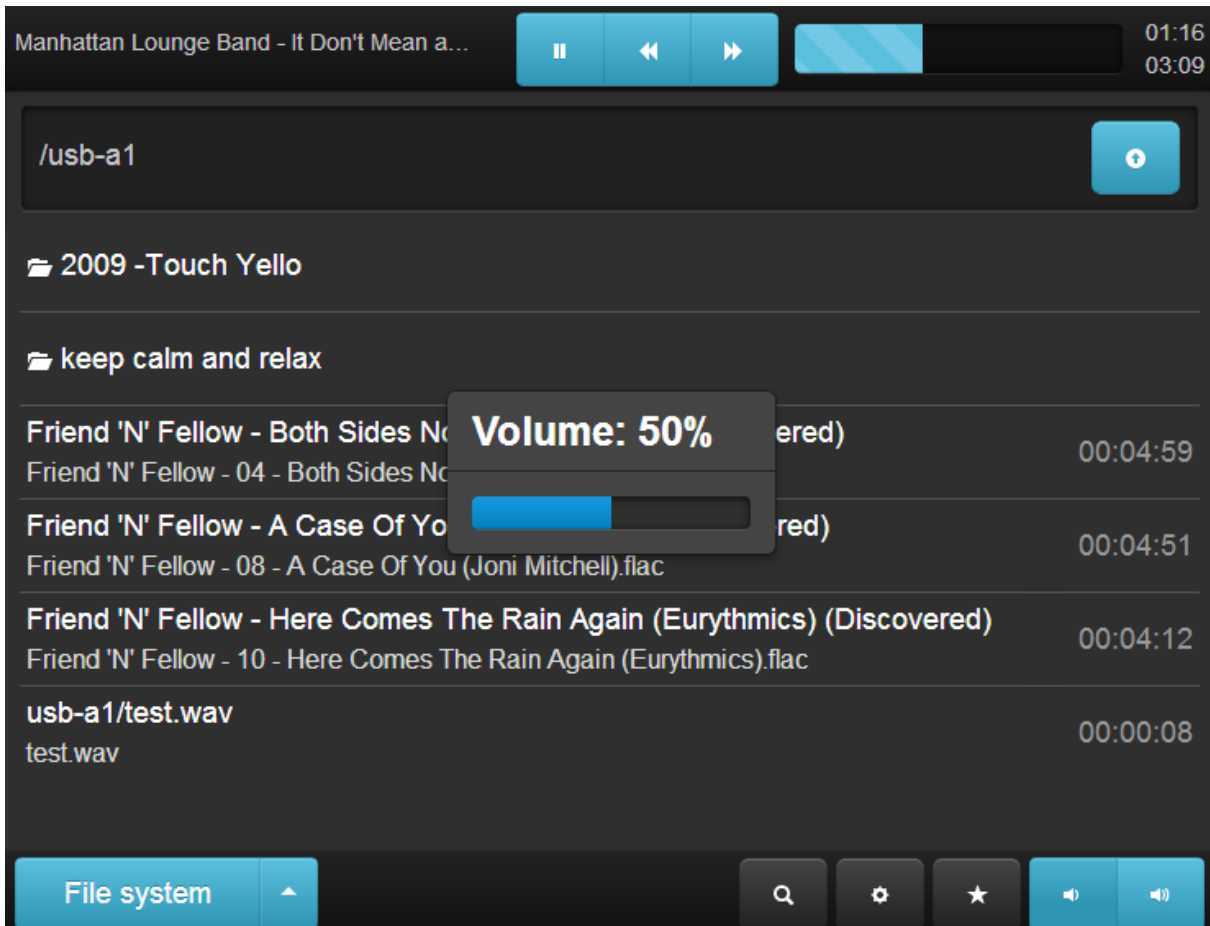


### 2.1.5. Volume control

With *Volume Up*, *Volume Down* buttons



you can control the volume of the player.



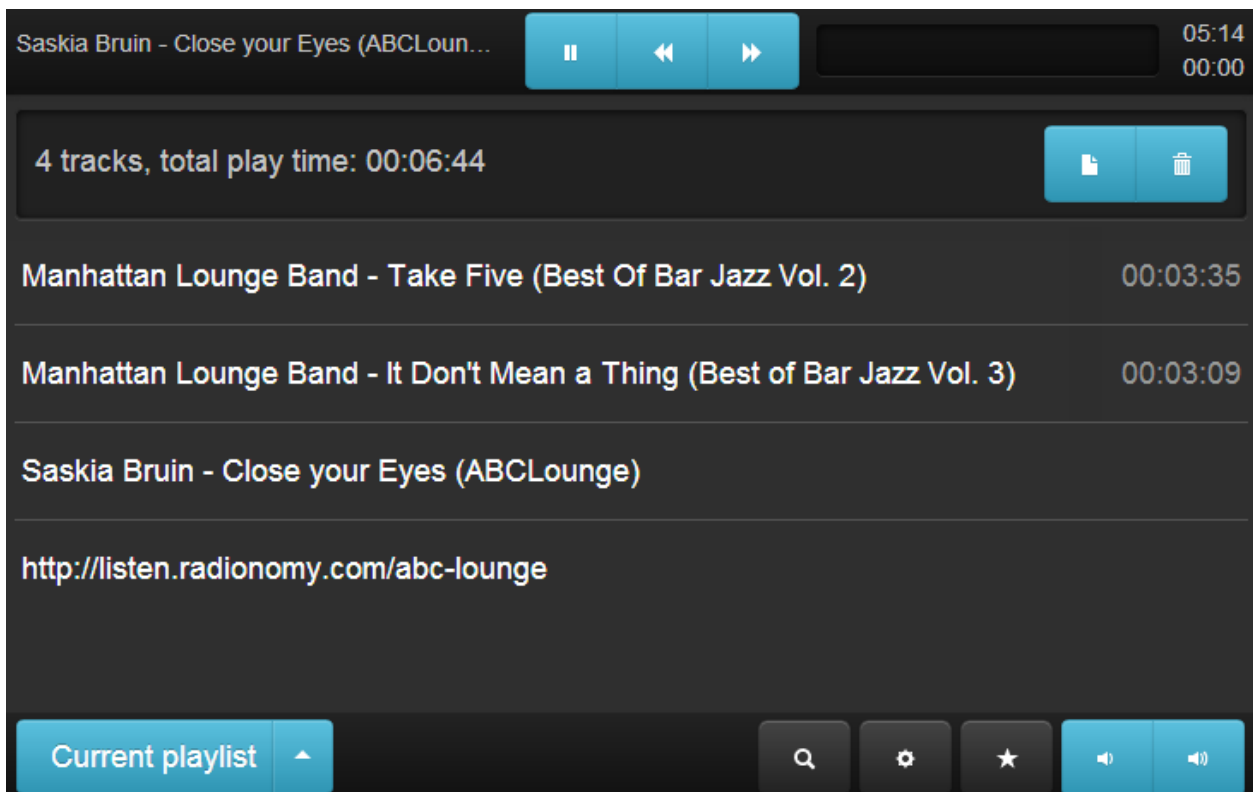
### 2.1.6. Top control bar

On top bar you will find currently playing song name, you can pause the song, jump to next or previous song in the current playlist, forward the current song, time elapsed and song length.

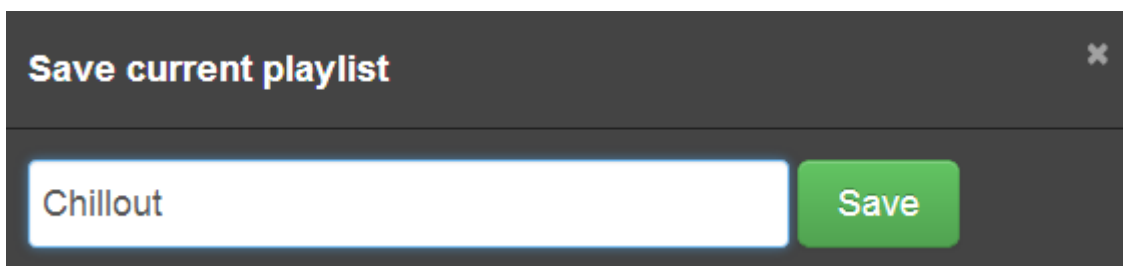


### 2.1.7. Current playlist – play, save, delete

In Current playlist you can see all songs which you have added by double-click or via *Add* button



You can save current playlist by clicking *New* button.



You can delete the content of current playlist by clicking on *Delete* button.



### 2.1.8. Favourites

While some song or plays, you can click on *Favourites* button, **Favourites**. If the song is already favourite, the button is green.

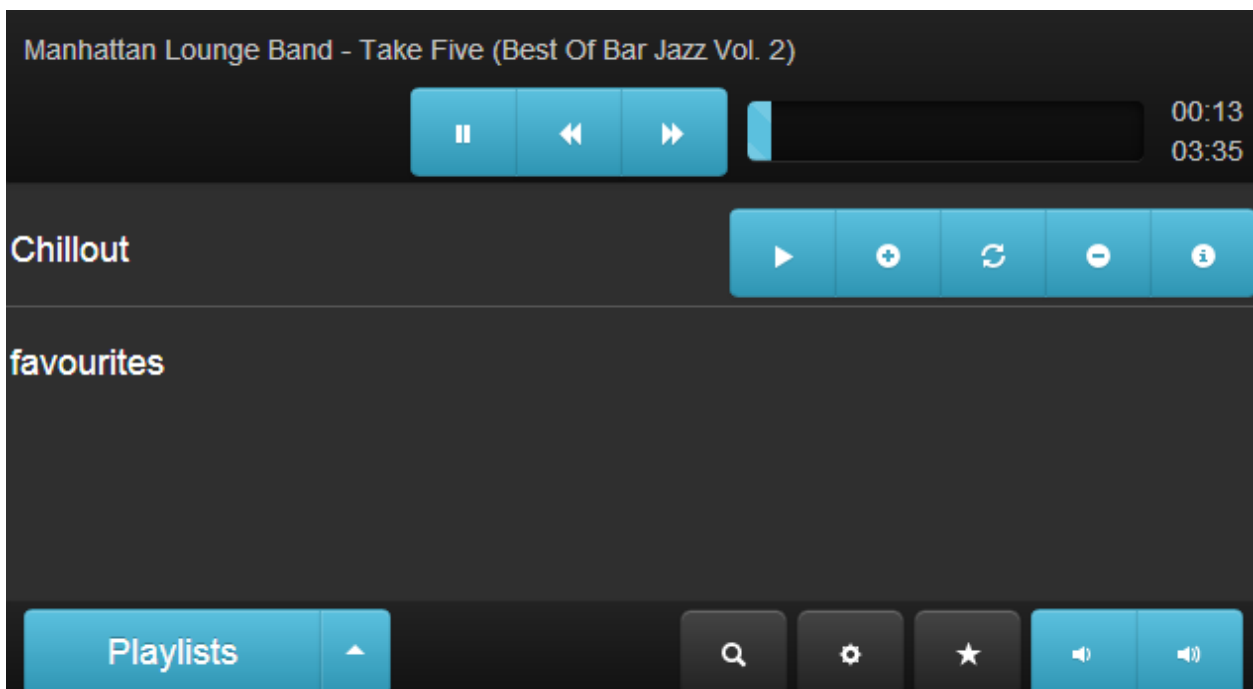


to add it to Playlist



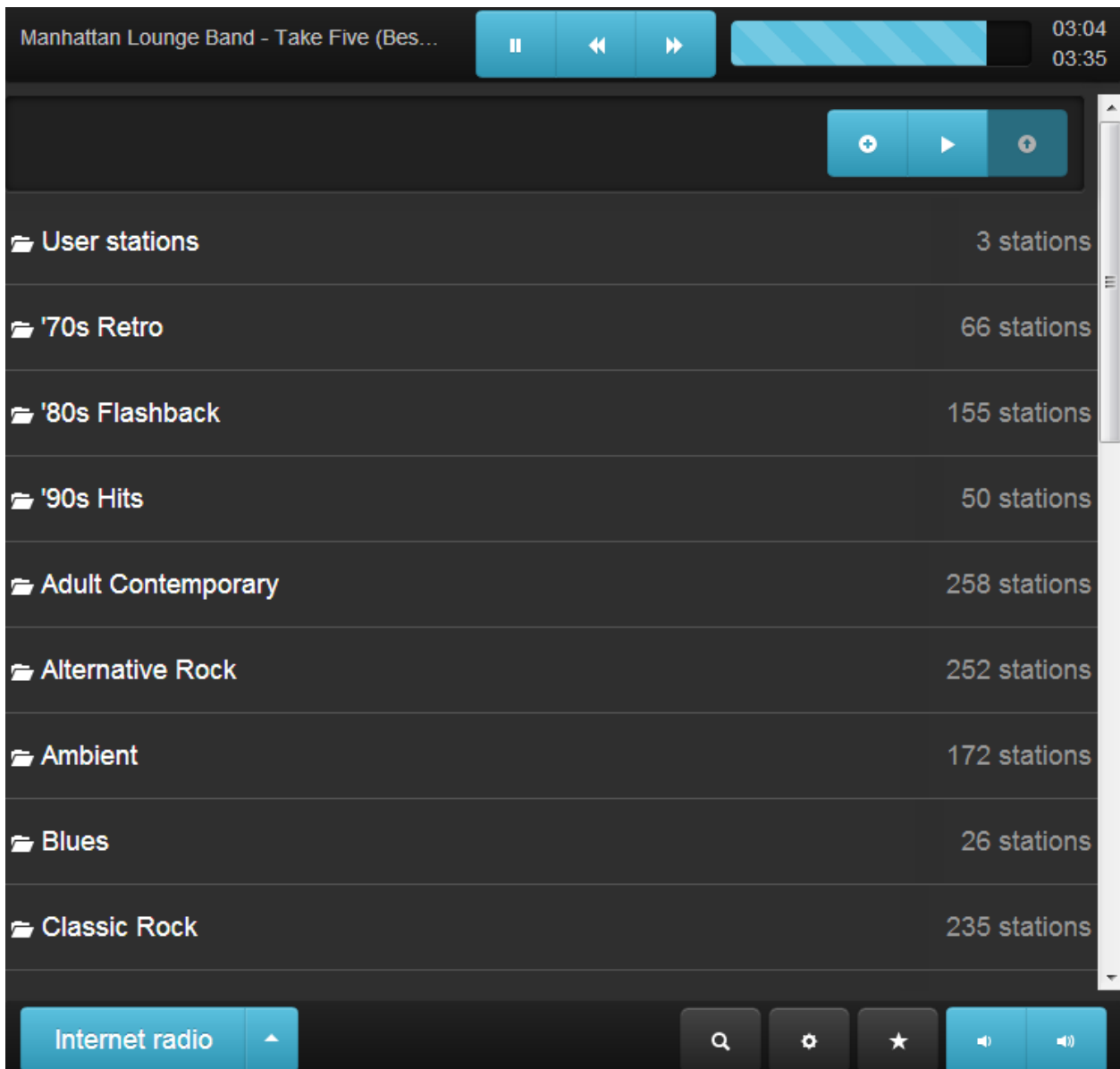
### 2.1.9. Playlists

In *Playlists* you will find both your selected *Favourites* songs as well as defined Playlists.



### 2.1.10. Internet radio

There are more than 4000 radio stations built-in in the Streaming Player, grouped by genres. As with regular songs you can add them to playlists.



You can add new radio stations by clicking on *Add* button. Added internet radios will appear in *User stations* folder.

A dialog box titled "Add new station" with a close button (X) in the top right corner. It contains two input fields: "Title" and "URL". Below the input fields is a green "Add" button.

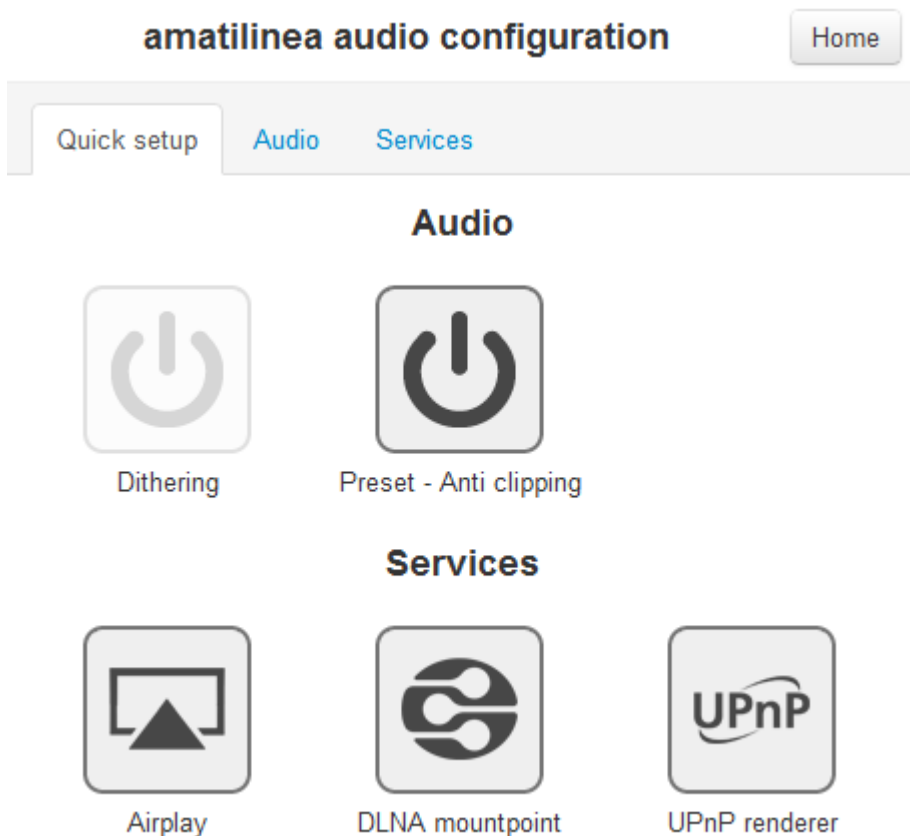
## 2.2. Quick setup

Audio configuration is sorted in three main tabs:

- *Quick setup* – quick configuration
- *Audio* – audio specific configuration like presets, dithering
- *Services* – services

### 2.2.3. Quick setup

In Quick setup window it is possible to fast configuration by enabling or disabling Airplay, DLNA, UPnP renderer or Audio settings



### 2.2.4. Audio settings

- *Dithering* – dithering on/off. Make the sound more realistic.

- *Preset [Off, Night, Anti clipping, Bass Boost]*–type of preset to use

**amatilinea audio configuration** [Home](#)

[Quick setup](#) **Audio** [Services](#)

Dithering

preset preset

### 2.2.5. Services

**amatilinea audio configuration** [Home](#)

[Quick setup](#) [Audio](#) **Services**

Player name

Airplay

DLNA mountpoint

UPnP Renderer

KNX/IP control

MPD Password

Advanced settings

**Player name** – name of the player

**Airplay** – enable Airplay protocol support

**DLNA mountpoint** – enable DLNA mountpoint so the Streaming Player will make local library with song list from DLNA servers. This feature is convenient to use if you plan to use built-in music player or MPD based app for music control

**UPnP Renderer** – enable UPnP renderer feature which will allow to play the songs directly from UPnP renderer applications. UPnP renderer can only be used as a stand-alone solution. It cannot be used together with KNX control or MPD control applications. UPnP renderer might not be compatible with some control devices and applications.

**KNX/IP control** – enable KNXnet/IP support for mapping specific audio control functions to KNX group addresses. There should be external KNX IP Router used to perform access to KNX TP (e.g. Logic Machine 2)

**MPD Password** – MPD protocol access password

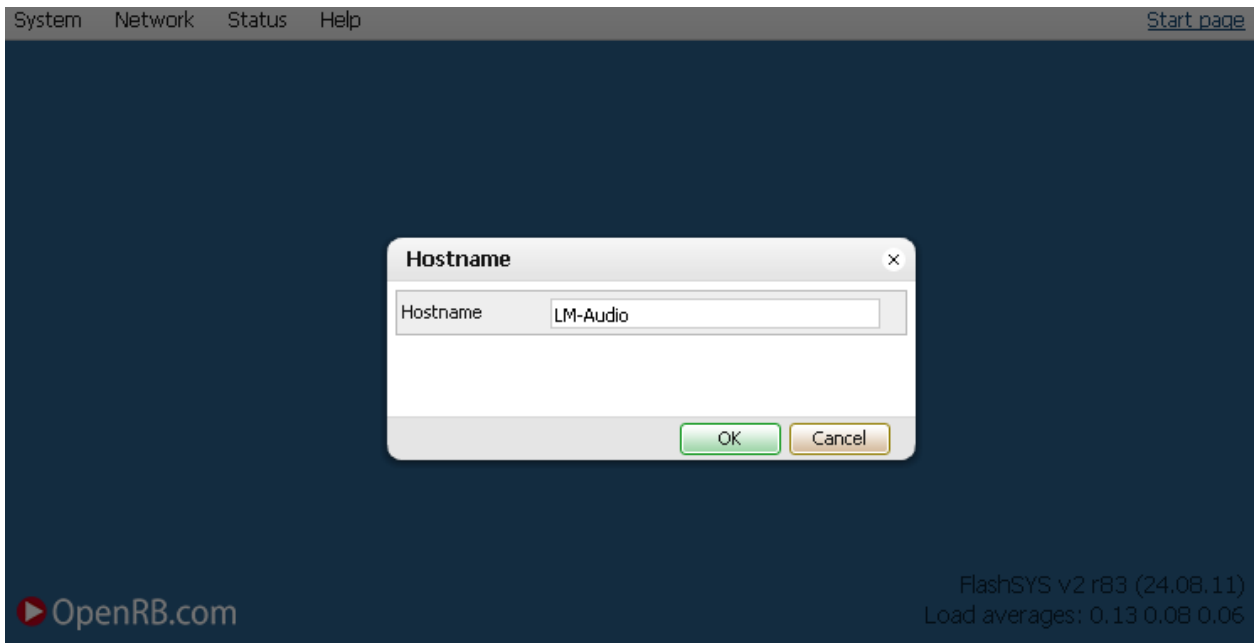
**Advanced settings** – shortcuts to quick access of KNX/IP mapping and FTP server list

**Note!** It is advised to restart client applications when changing any of the configuration values.

## 2.3. Network configuration – network and KNX related configuration

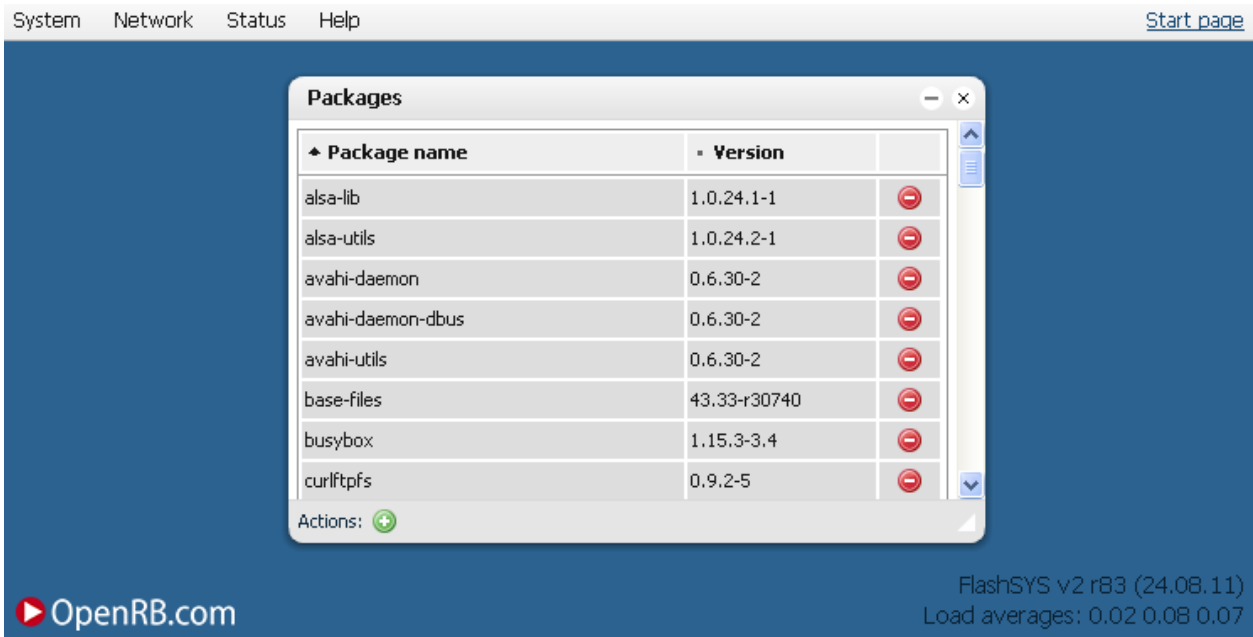
### 2.3.3. System configuration

**System → Hostname** – Name of the Player, all other network devices will see the device by this name

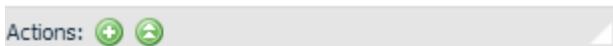
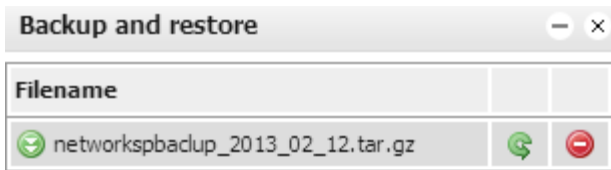


**System → Packages** – Package management of the operating system. In case of add-ons new packages should be added by +





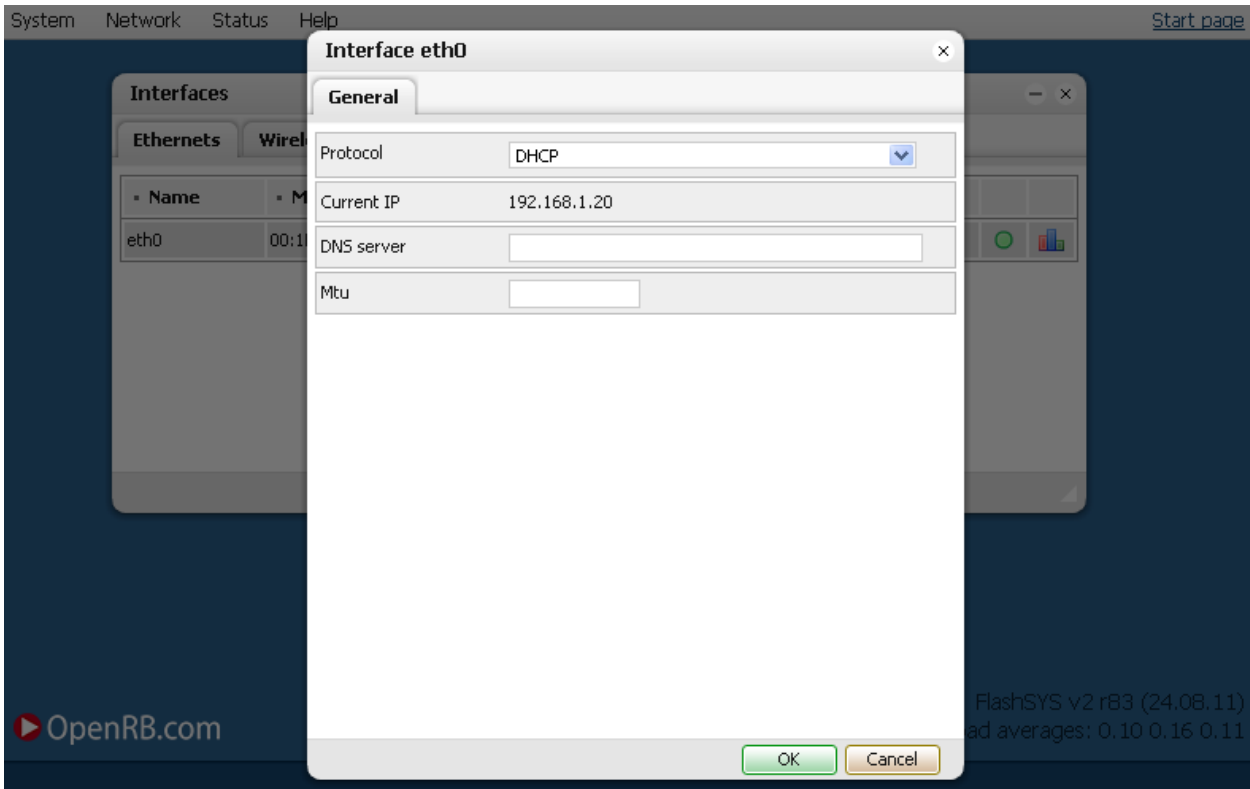
- System** → **GUI login** – password settings for login
- System** → **Backup and Restore** – backup or restore network settings



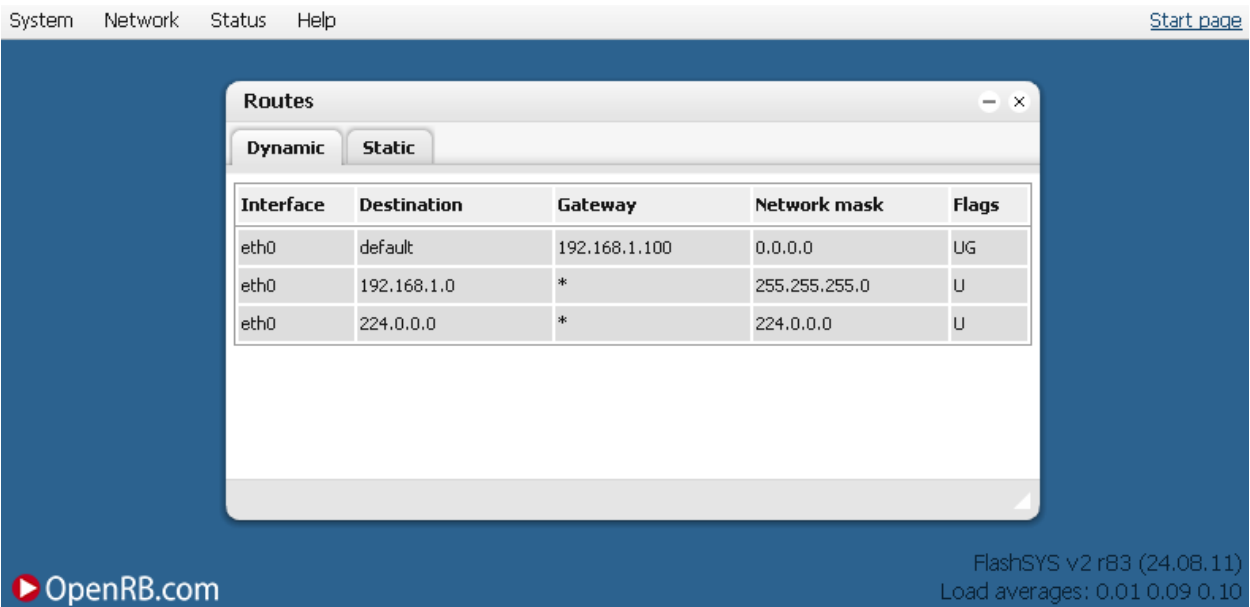
- System** → **Upgrade firmware** – upgrade system's firmware version
- System** → **Reboot** – restart the system
- System** → **Shutdown** – shut down the player

### 2.3.4. Network configuration

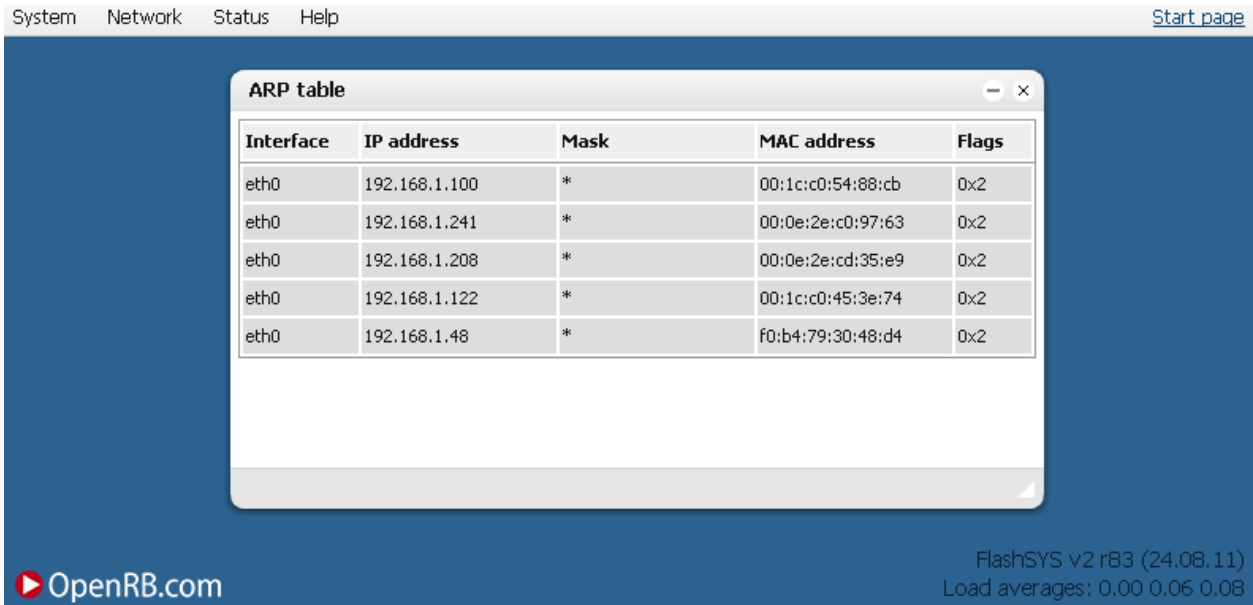
**Network** → **Interfaces** – Interface and IP management. Static IP, DHCP or PPPoE can be set up for interface



**Network → Routes** – dynamic/static route management. In case advanced routing is necessary, static routes can be added.

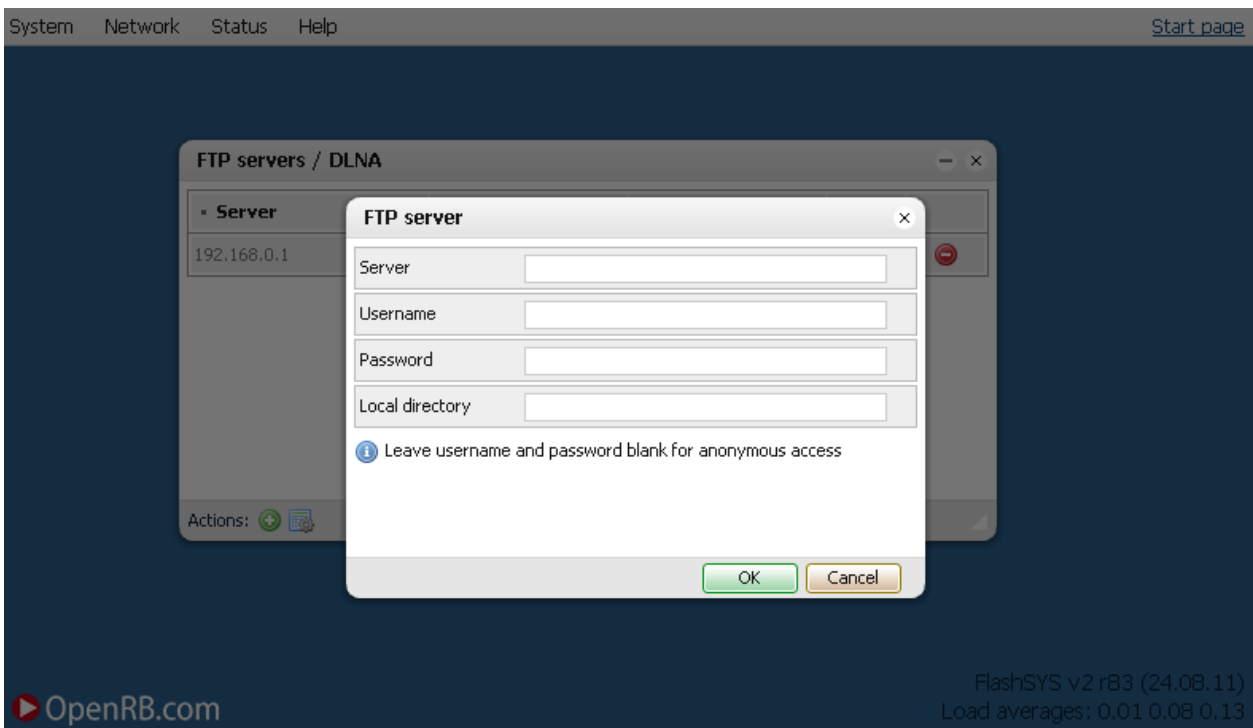



**Network → ARP table** – Address Resolution Protocol table with hosts being associated with the streaming player



### 2.3.5. FTP servers, DLNA configuration

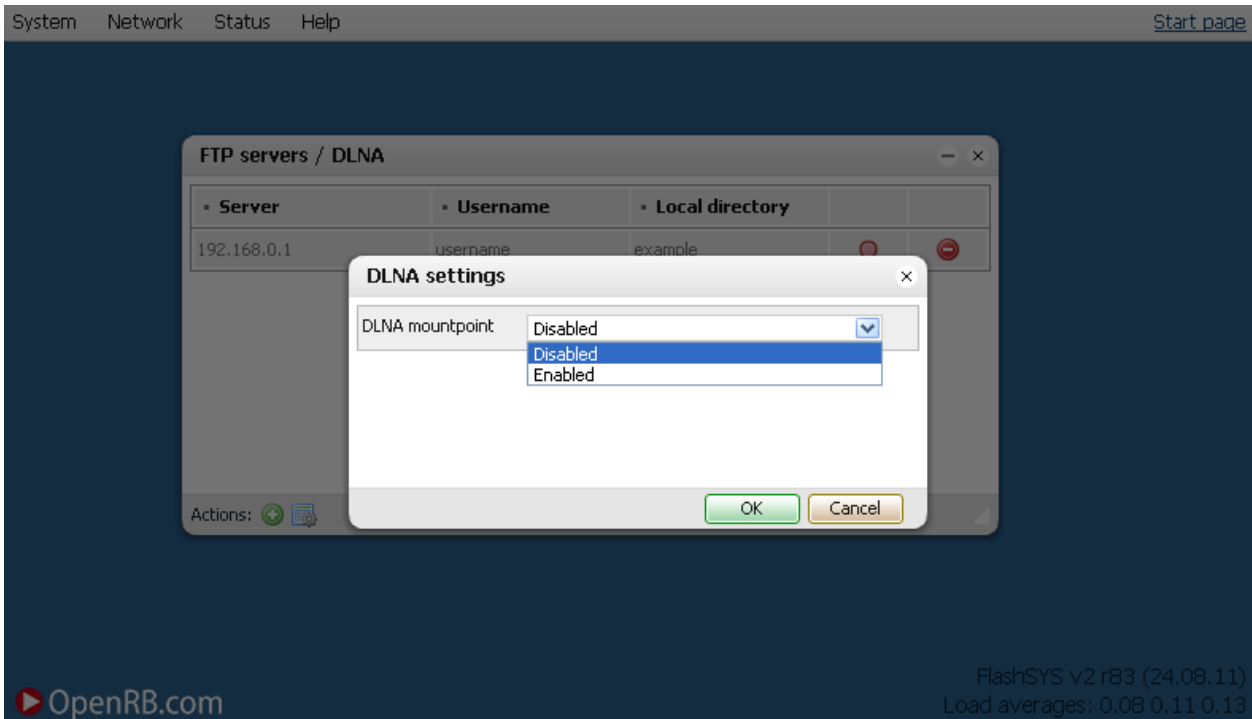
**Network** → **FTP servers / DLNA** – DLNA/UPnP/FTP server settings



By clicking on Settings button , there is a possibility to switch DLNA-server auto discover YES/NO

**Server** – IP address of FTP server e.g. *192.168.1.101*

**Username** – FTP server login name  
**Password** – FTP server password  
**Local directory** – specific folder name e.g. *music*



### 2.3.6. Internal FTP server settings

There is 32GB internal memory for media file storage.

You have to enable internal FTP server with password in *Network Configuration* → *Services* → *FTP server*

×
**Local FTP server**

Server status ▼ Disabled

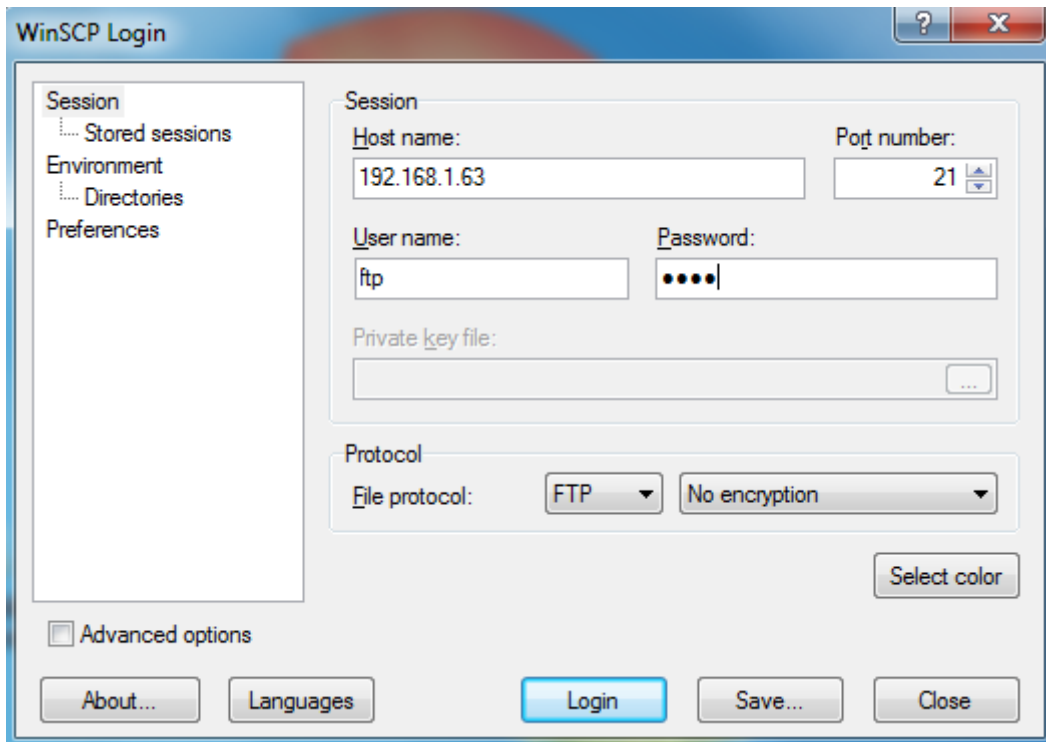
Username ftp

Password

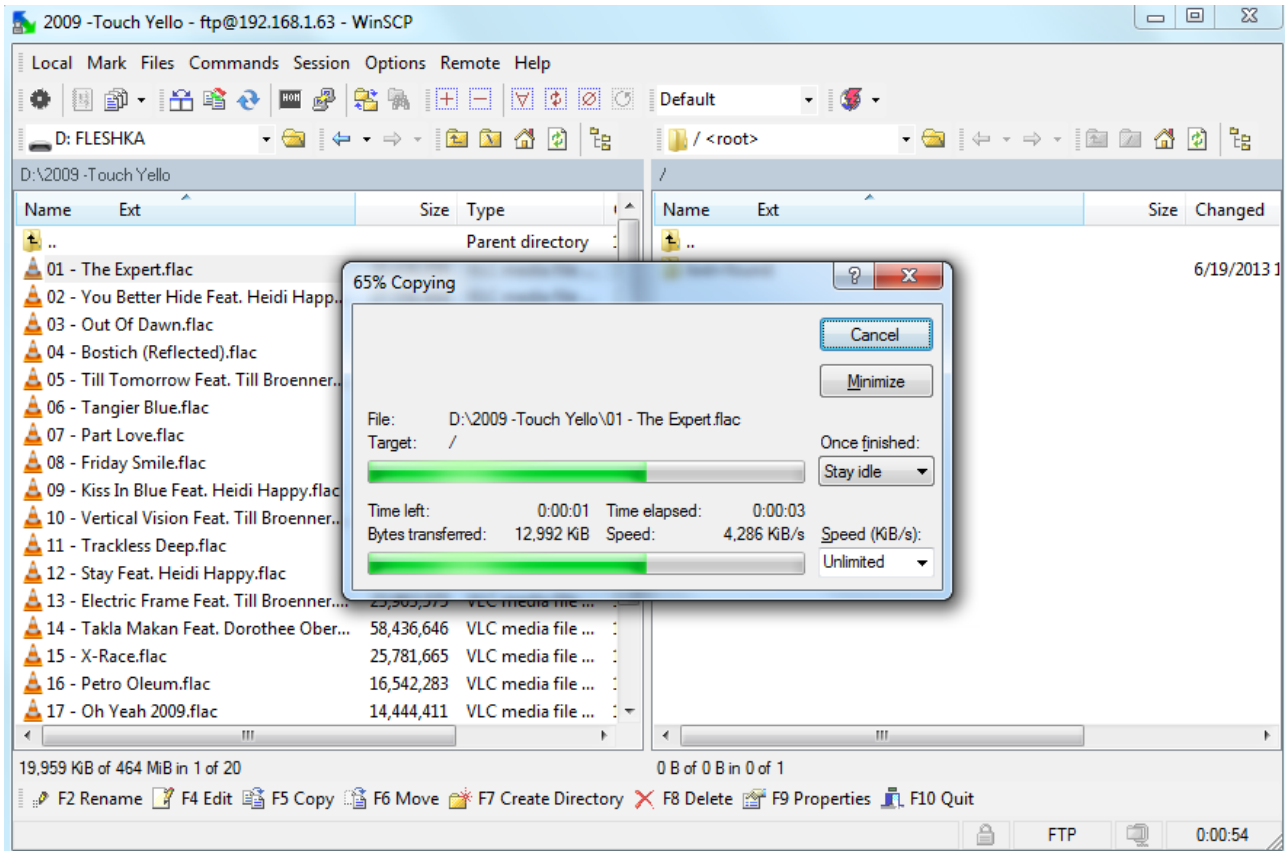
i Leave password to blank to keep it unchanged

OK
Cancel

Use any FTP client program to upload songs to the internal flash disk e.g. WinSCP

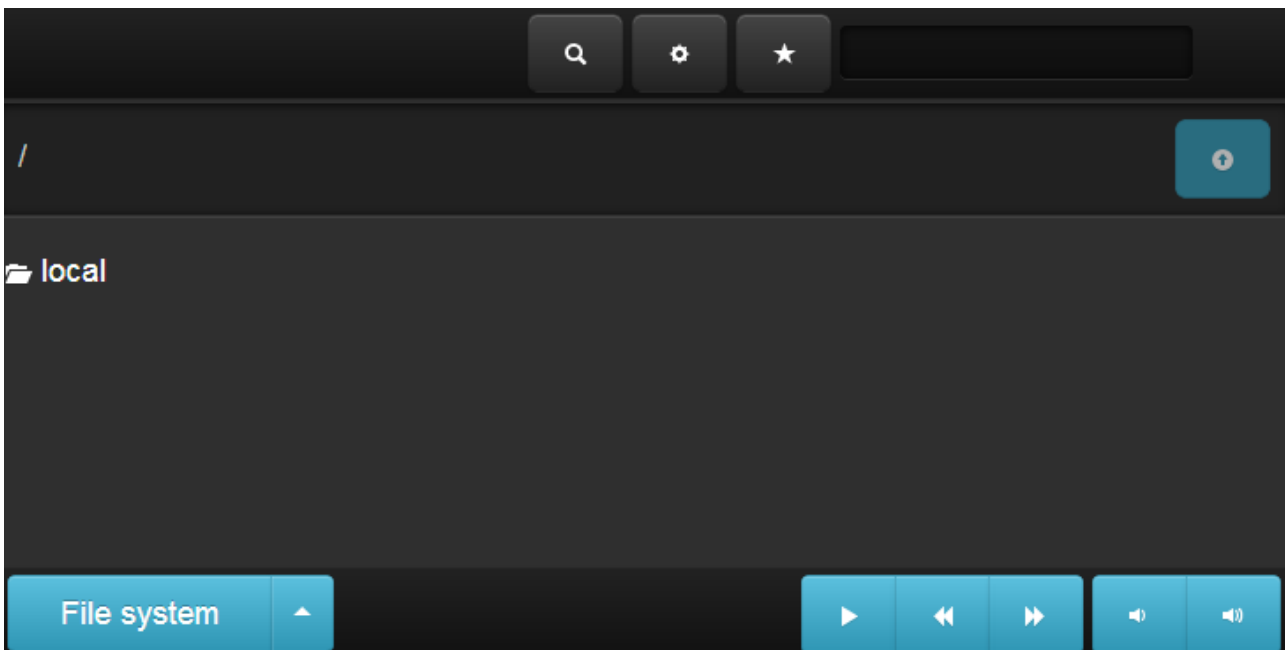


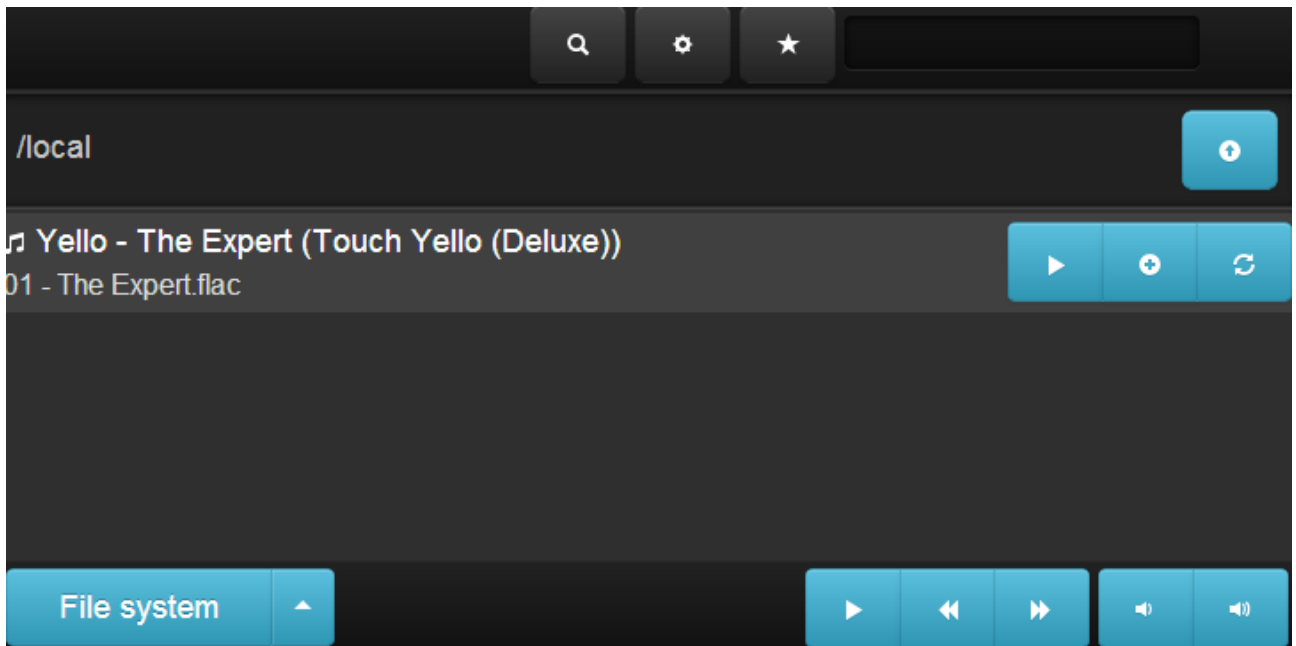
Copy media files or folders to the root folder of the flash drive.



Once files are copied, Update Database as described in point 2.1.1.

You can find the copied files and folders in *Audio Player* → *File system* → *local*





### 2.3.7. KNX connection settings

KNX connection	
Mode	EIBnet/IP Routing
Parameter	
KNX address	15.15.255
KNX IP features	<input checked="" type="checkbox"/>
Multicast IP	224.0.23.12
Multicast interface	eth0
Maximum telegrams in queue	100

### 2.3.8. Mapping to KNX group addresses

**Network** → **KNX Audio Control** – mapping audio functionality to KNX

Note! KNX mapping currently works only with MPD control applications.

Note! You have to **use external KNX IP Router** (e.g. Logic Machine 2) to access the KNX TP, as Streaming Player supports only KNXnet/IP (TP is not used due to sound quality distortions).

### **General mapping functions**

Simply type the KNX group addresses which will store the current value of player functionality like *Play/pause*, *Next track*, *Previous track*, *Track name*, *Random on/off*, *Repeat on/off*, *Volume*, *Next playlist*, *Previous playlist*, *Playlist name*.

Field	Value
KNX address	15.15.255
Play/pause	1/1/7
Next track	1/1/8
Previous track	1/1/9
Track name	
Random on/off	
Repeat on/off	
Volume	3/3/4
Next playlist	
Previous playlist	
Playlist name	

*KNX address* – KNX physical address

### Data types:

*Play/pause* – 1-bit [In/Out]

*Next track* – 1-bit [In]

*Previous track* – 1-bit [In]

*Track name* – 14-byte string [Out]

*Random on/off* – 1-bit [In/Out]

*Repeat on/off* – 1-bit [In/Out]

*Volume* – 1-byte scale 0..100% [In/Out]

*Next playlist* – 1-bit [In]



*Previous playlist* – 1-bit [In]

*Playlist name* – 14-byte string [Out]

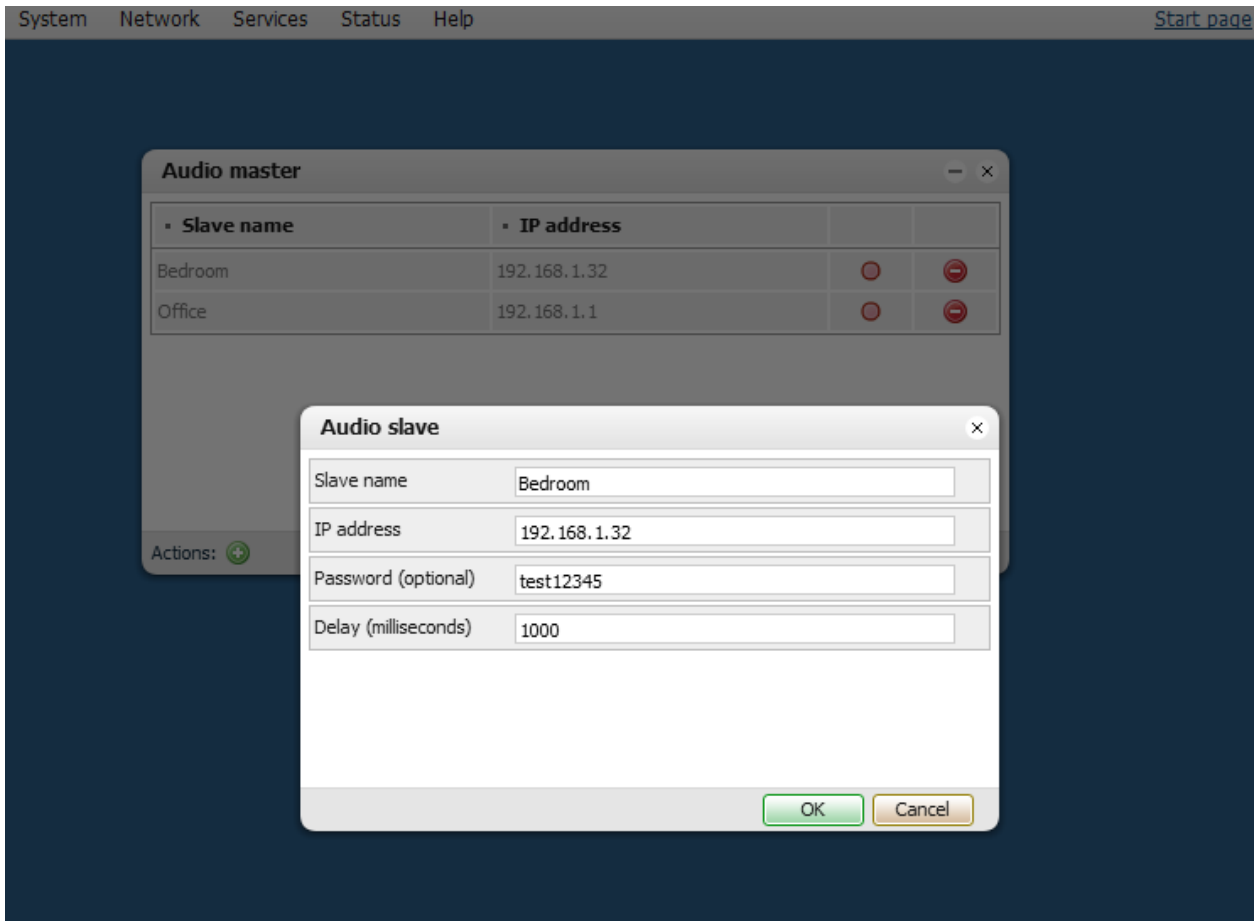
### Map specific track or radio stream to KNX group address

You are able to map specific tracks from music sources or specific internet radio to KNX group address in *Play specific track* tab. Up to 12 sources can be mapped.

Track	Group Address	Path
Track 1	1/1/1	usb-a1/2009 -Touch Yello/01 - The Expert.flac
Track 2	1/1/2	http://u16b.di.fm:80/di_progressivepsy
Track 3	1/1/3	http://u17.di.fm:80/di_harddance
Track 4	1/1/4	http://scfire-mtc-aa01.stream.aol.com:80/stream/10;
Track 5		
Track 6		

### 2.3.9. Master-Slave configuration (multiroom)

**Network → Audio master** – add slave players to this master player. Slaves will play/do the same what is done on Master device



- *Slave name* – name of the slave device
- *IP address* – IP address of slave device
- *Password (optional)* – Login password to access Slave device
- *Delay (milliseconds)* – Delay for the stream

It is possible to disable/enable slave players any time with the circle button.

### 2.3.10. System, network status

**Status** → **System status** – General system parameters, memory usage, partitions



System Network Status Help [Start page](#)

System status

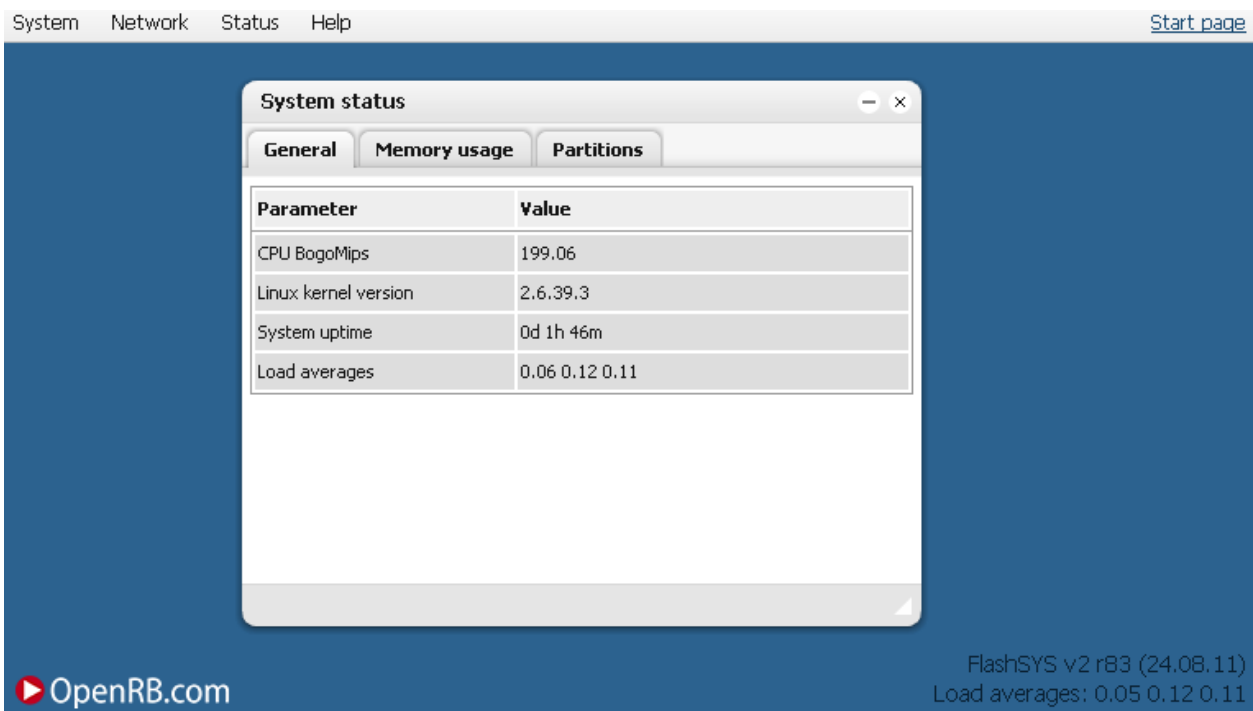
General Memory usage Partitions

Parameter	Value
CPU BogoMips	199.06
Linux kernel version	2.6.39.3
System uptime	0d 1h 46m
Load averages	0.06 0.12 0.11

FlashSYS v2 r83 (24.08.11)  
Load averages: 0.05 0.12 0.11

OpenRB.com

**Status** → **Network status** – Network status, bandwidth graph, TX/RX bytes



System Network Status Help [Start page](#)

System status

General Memory usage Partitions

Parameter	Value
CPU BogoMips	199.06
Linux kernel version	2.6.39.3
System uptime	0d 1h 46m
Load averages	0.06 0.12 0.11

FlashSYS v2 r83 (24.08.11)  
Load averages: 0.05 0.12 0.11

OpenRB.com

System Network Status Help Start page

**Network status** - x

Name	Mac address	IP address	Mtu	TX Bytes	RX Bytes	Errors
eth0	00:1B:C5:00:12:2D	192.168.1.20	1500	5 MB	2 MB	2 / 2

**Network usage for interface eth0** - x

In 6 Kbps  
Out 4 Kbps

Switch to bytes/s  
AutoScale (follow)

v2 r83 (24.08.11)  
Load averages: 0.24 0.14 0.12

OpenRB.com

**Status → Network utilities** – Ping, traceroute network utilities

System Network Status Help Start page

**Network utilities** - x

Ping Traceroute Network performance

IP / Hostname

```

PING www.openrb.com (159.148.135.178): 56 data bytes
64 bytes from 159.148.135.178: seq=0 ttl=57 time=13.185 ms
64 bytes from 159.148.135.178: seq=1 ttl=57 time=13.217 ms
64 bytes from 159.148.135.178: seq=2 ttl=57 time=13.626 ms
64 bytes from 159.148.135.178: seq=3 ttl=57 time=12.925 ms
64 bytes from 159.148.135.178: seq=4 ttl=57 time=16.553 ms

--- www.openrb.com ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 12.925/13.901/16.553 ms

```

OK Cancel (24.08.11)

Load averages: 0.02 0.08 0.10

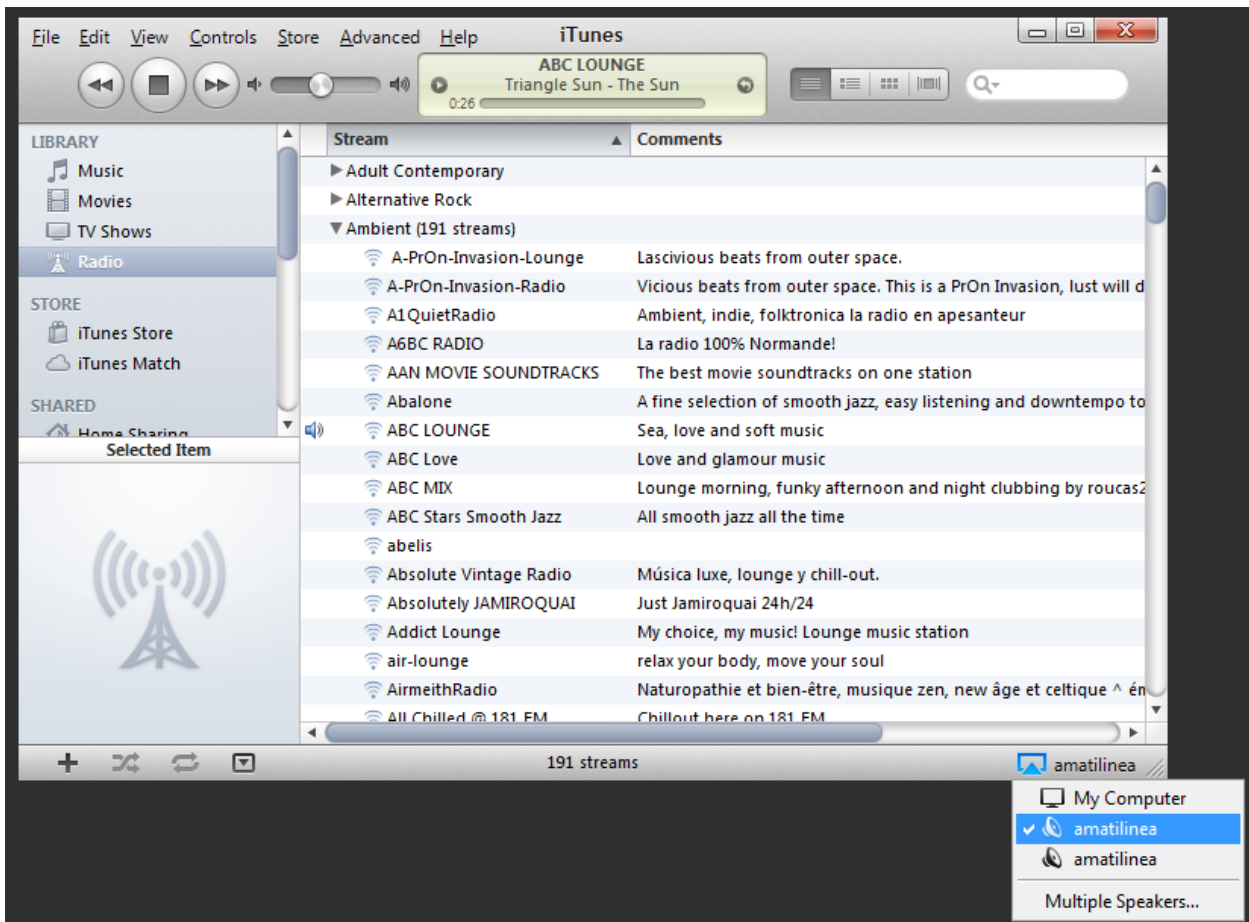
OpenRB.com

**Status → System log** – system log

**Status → Running processes** – operating system running processes

### 3. Stream music from Apple devices over AirPlay protocol

On your Apple device or PC via iTunes while playing music click on *Airplay* icon and choose the name of the Streaming Player where you want to play the song/radio. The songs or internet radio is streamed directly from your iPhone/iPad/iPod or PC.



## 4. MPaD application usage notes (iPad)

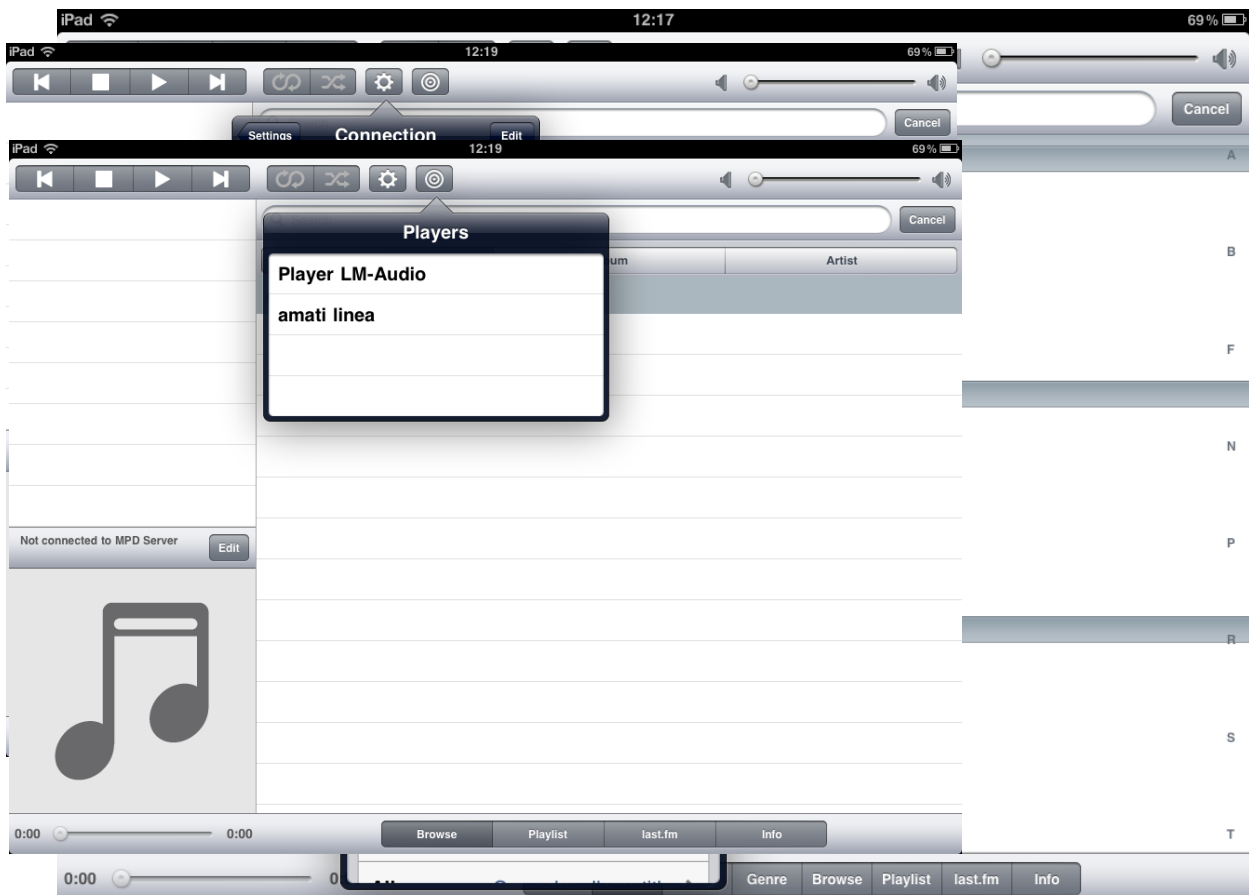
You can use third party apps in parallel of built-in player of the Streaming Player – MPD or UPnP based. MPaD is MPD protocol based app.

### 4.1. Settings

- Streaming Player has local cache library with pointers to all music files available on music sources you've added (DLNA/UPnP//FTP/USB/Internet radio). You can push the update the library by pressing **Update database** button.
- **Update local cache** is local device copy of the music library file from Streaming Player. Used to speed up the communication, not overloading the network with regular requests

### 4.2. Connection: choose music source to control

### 4.3. Player: choose players where to play the selected song

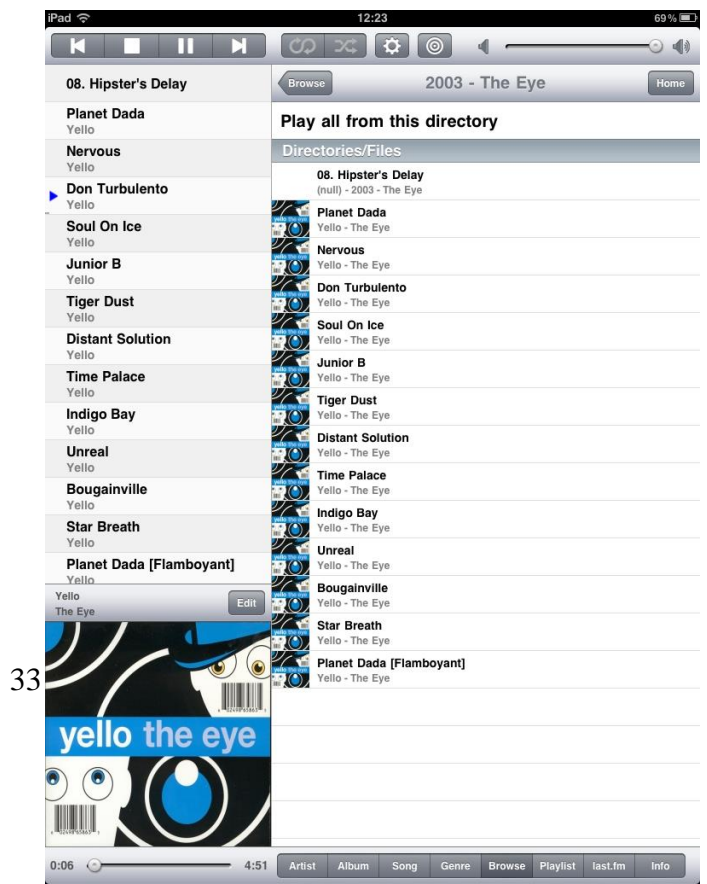
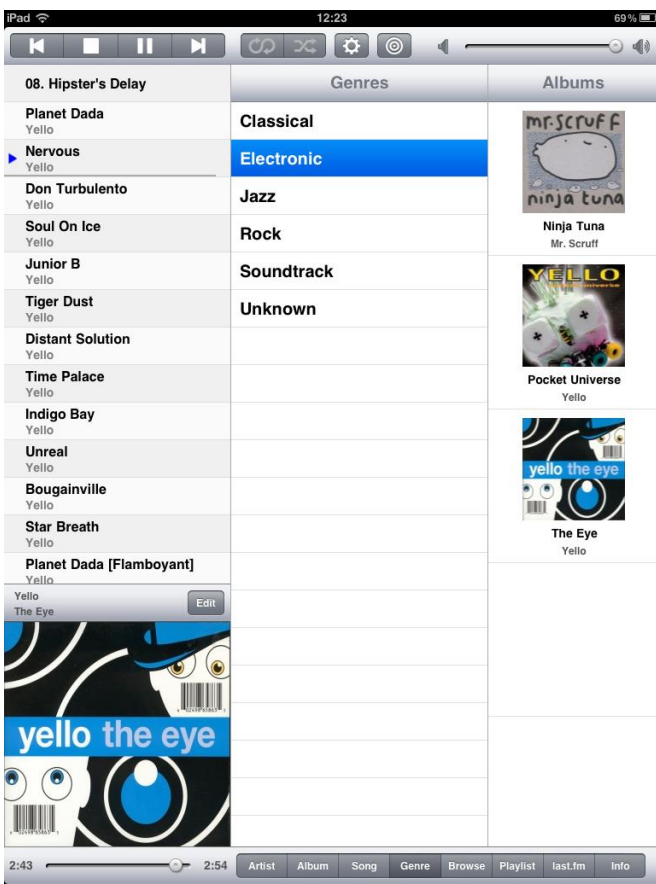
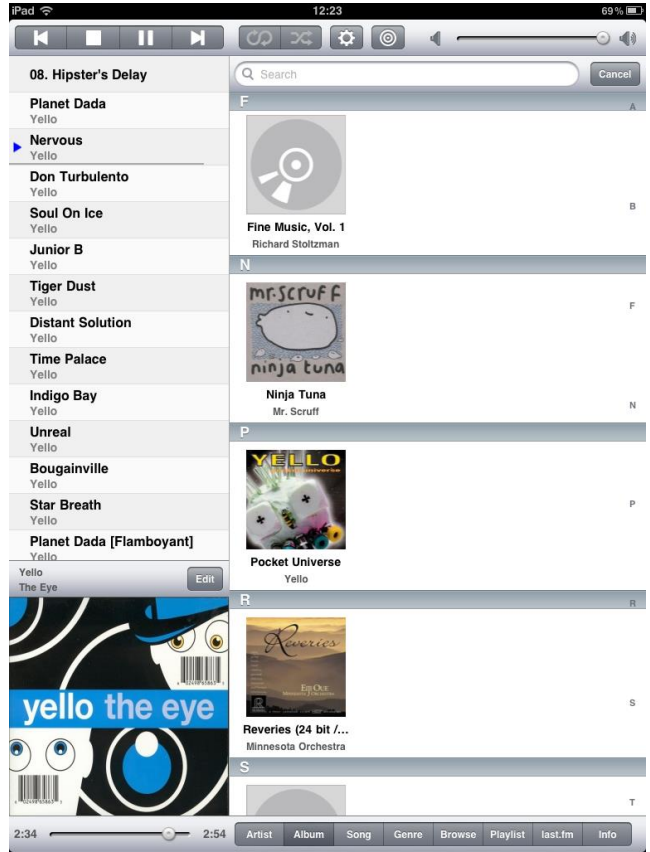
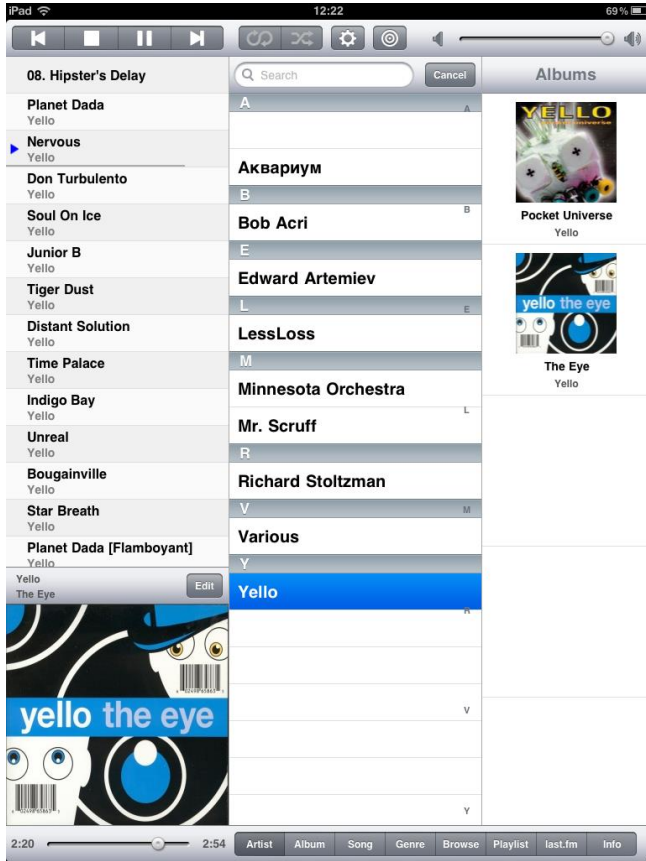


**4.4. Playlists: if more than one controller device is used, Playlists are distributed over all devices**





## 4.5. Sort by Artist / Album / Genre



## 4.6. Internet radio

The screenshot displays the last.fm mobile application interface on an iPad. At the top, the status bar shows 'iPad', signal strength, '12:21', and '69%' battery. Below the status bar is a music player control bar with buttons for play/pause, stop, previous, and next, along with a volume slider. The main content area is divided into two columns. The left column shows a playlist of songs by Yello: '08. Hipster's Delay', 'Planet Dada', 'Nervous', 'Don Turbulento', 'Soul On Ice', 'Junior B', 'Tiger Dust', and 'Distant Solution'. The right column displays the last.fm website for the artist Yello, featuring a biography, a list of similar artists, and a 'Listening Now' section. The bottom of the screen has a navigation bar with buttons for Artist, Album, Song, Genre, Browse, Playlist, last.fm, and Info.

08. Hipster's Delay  
Planet Dada  
Yello  
Nervous  
Yello  
Don Turbulento  
Yello  
Soul On Ice  
Yello  
Junior B  
Yello  
Tiger Dust  
Yello  
Distant Solution  
Yello

Yello  
The Eye

last.fm Music Radio Events Charts Community

Find out what the Last.fm Presents team have lined up >

Alex Leavon Trance & Progressive DJ / Producer Destination: Infintly RadioShow [www.alexleavon.com](http://www.alexleavon.com)

Showa Giken Industrial SGK. Manufacturing Company of Pearl Rotary Joints & Swivel Joints [www.sgk-p.co.jp](http://www.sgk-p.co.jp)

Artist: Yello  
Biography: 3,019,305 plays (244,674 listeners)  
Pictures: Add to my Library  
Videos: Yello is a popular Swiss electronic band consisting of Dieter Meier and Boris Blank. They are probably best known for their single Oh Yeah, which featured a rich mix of electronic music and manipulated vocals. The song became famous after being featured in the American movies Ferris Bueller's Day Off, The Secret of My Success, and more recently Soul Plane. The song is the theme for Duffman on The Simpsons. In the UK they are probably best known for the Number 7 hit The Race. This song was also from 1988 to 1990 the title track of the german music video TV-show "Formel Eins" (=Formula One) and was a Number 4 hit in Germany.  
Albums: Read more... Edit  
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Listening Now: chrisgregorycom Scrobbling now from CoverSutra Yello - Intro; freaky\_DE Scrobbling now from Tune-Instructor Yello - Sometimes (Dr. Hirsch); mats\_s Scrobbling now from Spotify Yello - Rubberbandman

Top Listeners: pbns1979 Top Listener; zila\_hu Top Listener

0:43 2:54 Artist Album Song Genre Browse Playlist last.fm Info

## 5. MPoD application usage notes (iPod, iPhone)

In similar way as with MPaD, configuration and management is done on MPoD with iPod or iPhone.

