RadioBOSS

Radio Automation Software

User Manual

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RadioBOSS

Radio Automation Software

by DJsoft.Net Team

If you need a simple, affordable, reliable solution to automating your broadcasting needs, RadioBOSS is the solution you've been looking for.

Whether it's building and scheduling crossfaded programming for your terrestrial or Internet radio station, creating the right audio atmosphere in your restaurant or store, or broadcasting from live events, RadioBOSS has been the choice of thousands of broadcasters just like you for the past five years.

RadioBOSS makes it easy and fast to convert and manage audio assets, build playlists with advertising support, hourly blocks, rotations, crossfading, automatic leveling and other professional-level features and play your playlists to your local, terrestrial or Internet broadcasting system.

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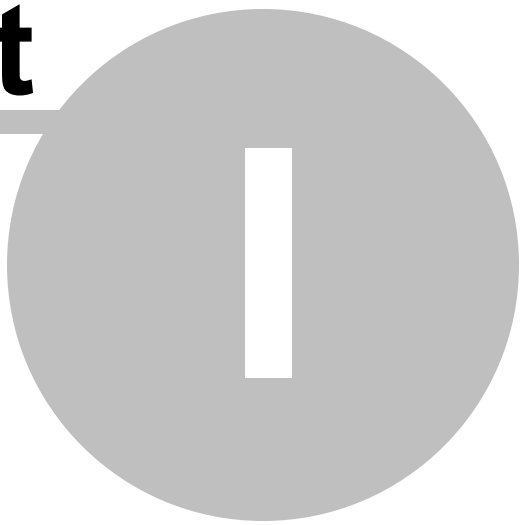
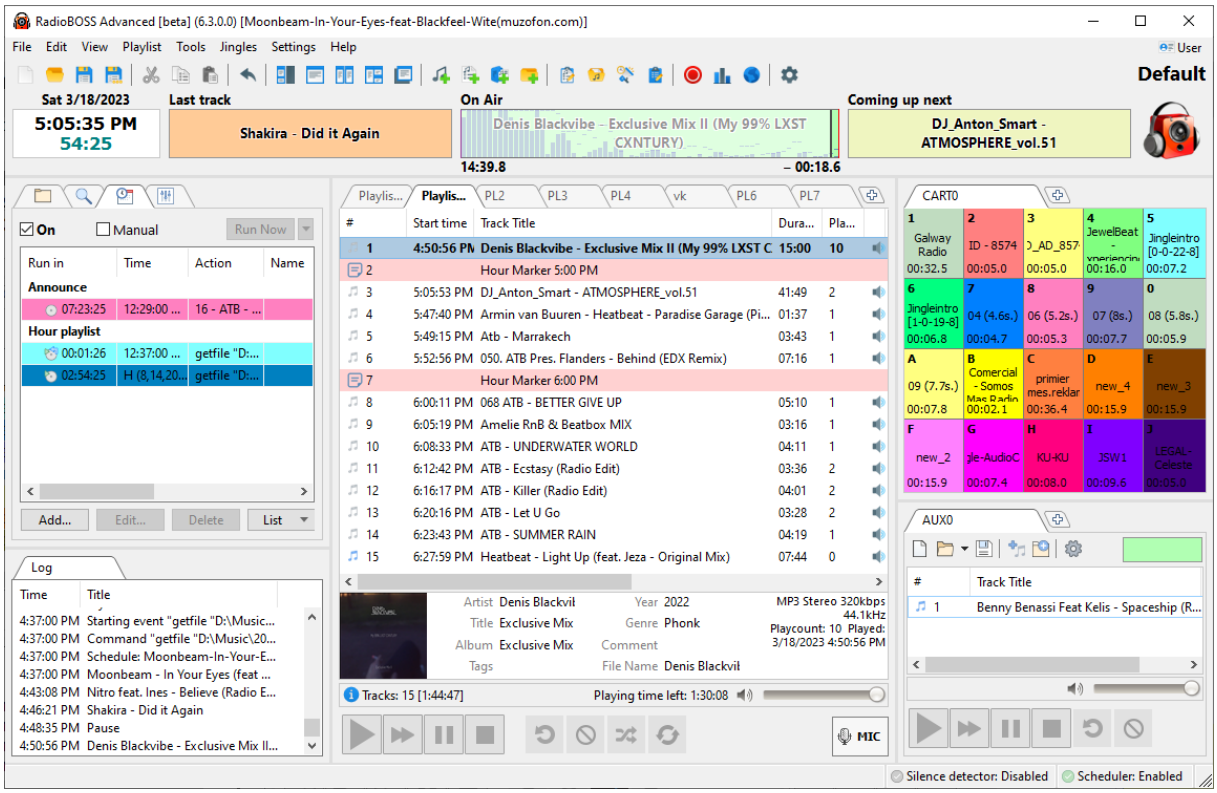


1 Introduction

RadioBOSS is a professional radio automation software for terrestrial and Internet radio stations, DJ discos, clubs, bars, restaurants, casinos, health clubs and other venues. Once the playlist is set and settings are configured, the program allows broadcasting 24 hours a day in a fully unattended mode. RadioBOSS offers many tools and options to produce a professional music program, including playlist generator, playback scheduler, advertisement scheduler, voiceovers, teasers, internet radio broadcasting, music library and many other features. All features are delivered in an intuitive, user-friendly interface that allows you to learn the software quickly and use it with remarkable ease.



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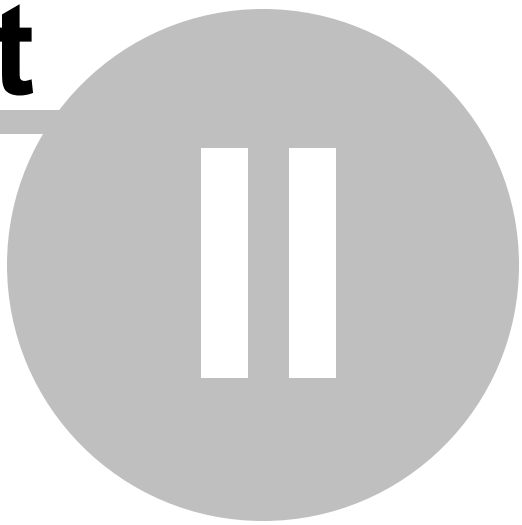
Part



2 How to register

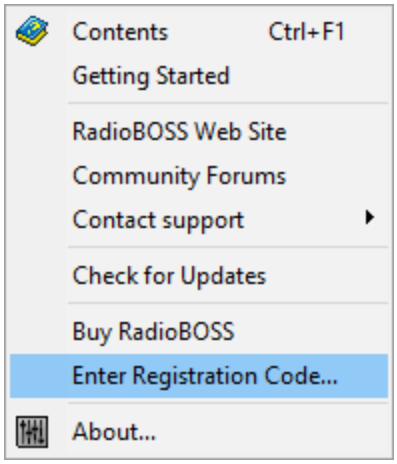
RadioBOSS is distributed on a try-before-you-buy basis. You can download a trial version of the application and use it for free during the trial period. To continue using RadioBOSS after the trial is over, you must buy a registration key.

To register RadioBOSS, follow the steps below:

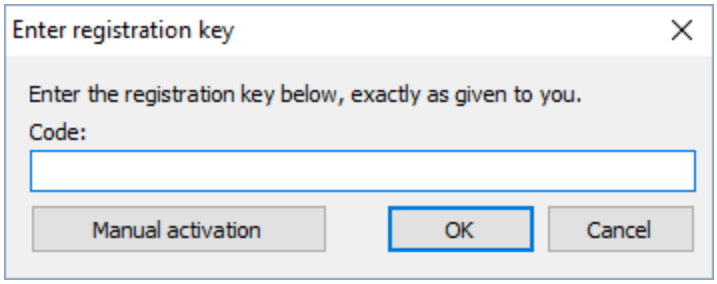
1. Go to www.djsoft.net and click the **Buy** button.

RadioBOSS is available in three editions. For details, please see the comparison table: http://www.djsoft.net/enu/radioboss_editions.htm (You can upgrade your edition any time at no additional cost.)
Once your order is submitted and processed, a message with the registration data will be sent to your email address specified during the registration.

2. Open RadioBOSS, and select **Help** -> **Enter Registration Code...** in the top menu bar.



3. A dialog prompting you to enter a registration key will open:



4. Enter your registration key. It is advisable to copy and paste the code from the email message.

If you lost your license code, please visit this link to restore it:
https://www.djsoft.net/enu/resendlicense.htm

5. Click **OK**. Now your copy of the application is registered and all limitations are removed.

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If you have upgraded your edition (e.g. from Express to Standard), repeat steps 1 to 5 for the changes to take effect.

More information:
RadioBOSS. Quick start

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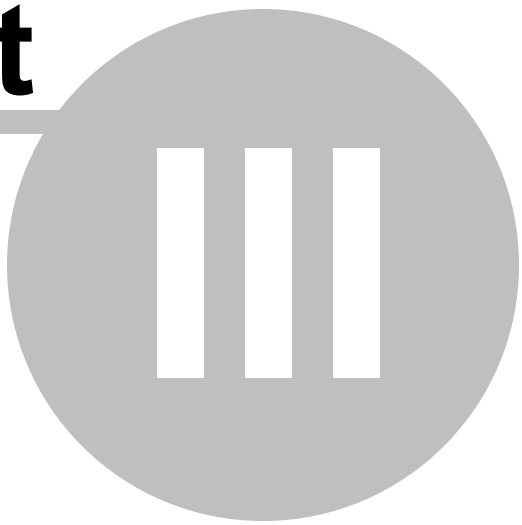


3 Quick start

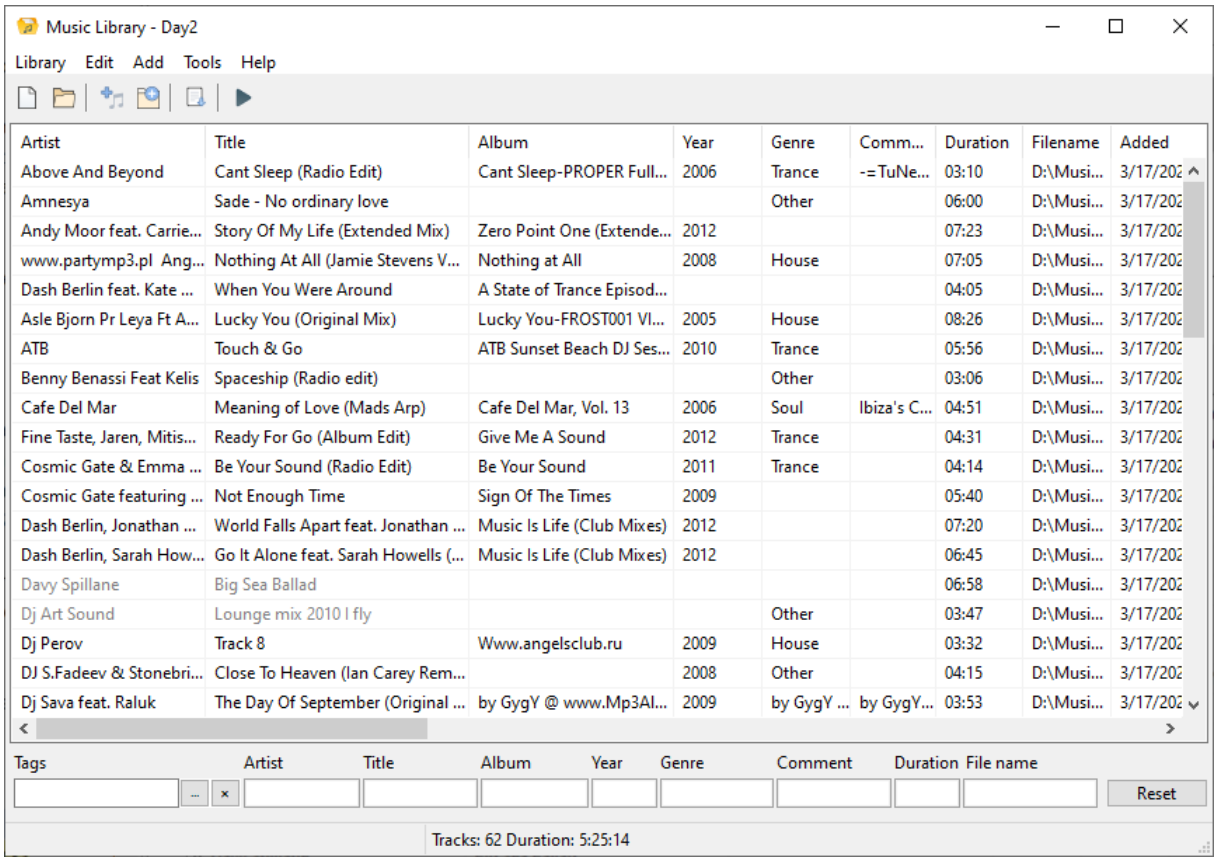
RadioBOSS lets you get started in just a few easy steps.

1. Run **RadioBOSS**. By default, additional information for music tracks is stored in the SQLite database. There are other options, please see this page for the details: Additional information storage

2. Set up **Music Library**. Music Library is used for quick-search and automatic playlist generation.
If you are not going to use these features, you can skip this step. (You can use RadioBOSS without using Music Library.)

In the top menu bar, select **Tools** -> **Music Library**.

The **Music Library** window will open:



To add a folder containing music tracks, click **Add** -> **Add folder**. Add your music using the "Add..." commands.
Once added, the audio files will be listed in the music library along with their track information (artist, title, album, year, genre, etc.)

Close the music library.

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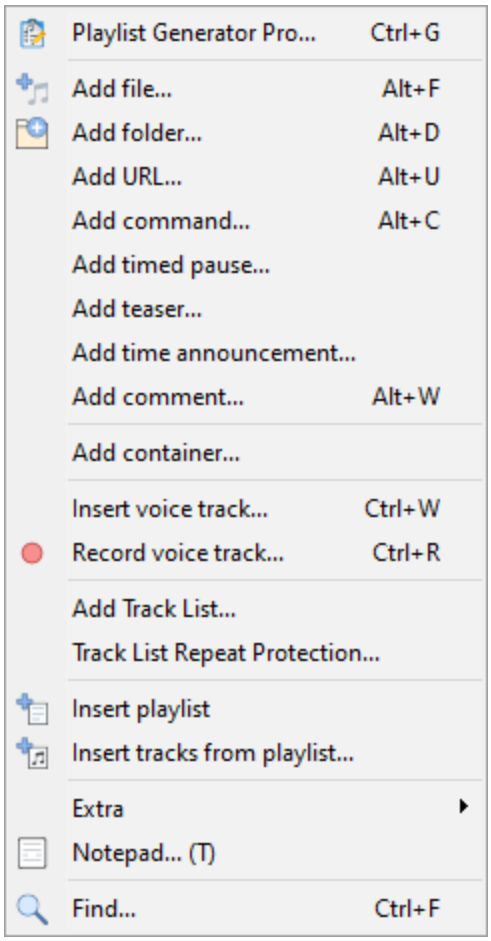
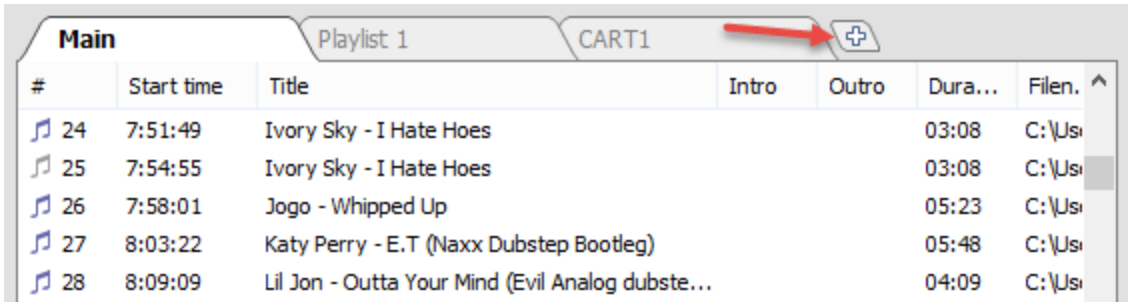
3. Adding music to the playlist. You can use the **Playlist** menu or file explorer shown on the left (using drag-and-drop).

Available menu commands:



RadioBOSS supports multiple playlists, and you can add as many playlists as you need by clicking the "+" button (shown on the right). The button also lets you add a Cart wall or Web browser.



4. Assigning quick-access jingles. Select **Jingles** > **Assign...** to add jingles, so that you can play them by pressing the keys 1–9 on the keyboard.

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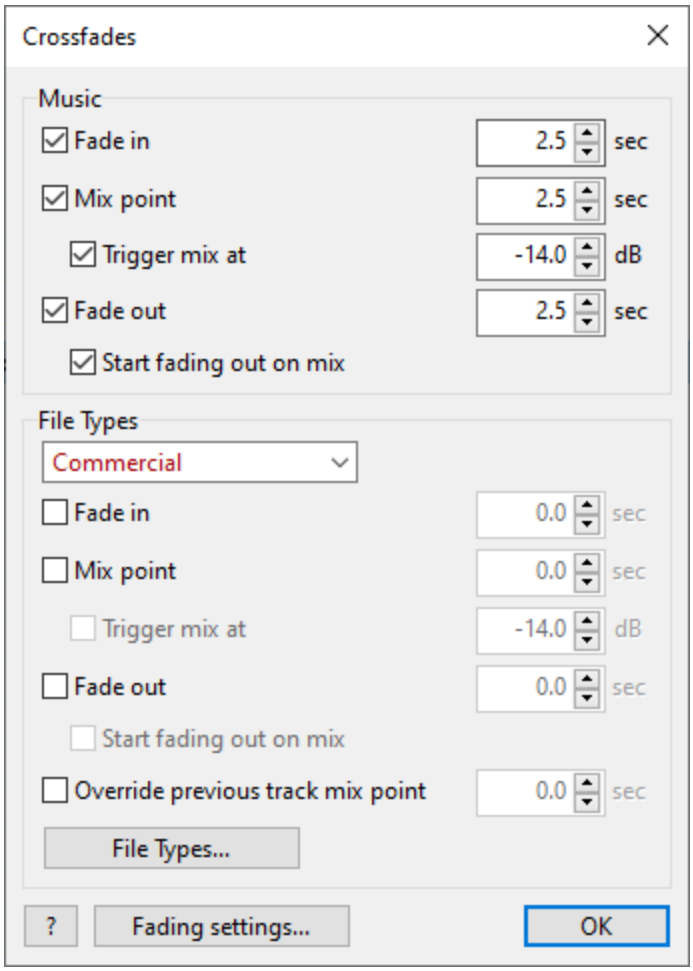
5. Set up crossfading. You can skip this step and use the default settings.
In the menu, click **Settings** -> **Crossfades**. You can find more information here: **Crossfading**.



6. If you have multiple sound cards installed or want to configure advanced playback settings, go to the Settings window from the menu: **Settings -> Options...**
In the playback section, you can set up output sound cards and various output settings.

You can also configure pre-listening of a track. This way, you will be able to listen to that track without broadcasting it, on a separate audio device.

Read more here: playback parameters.

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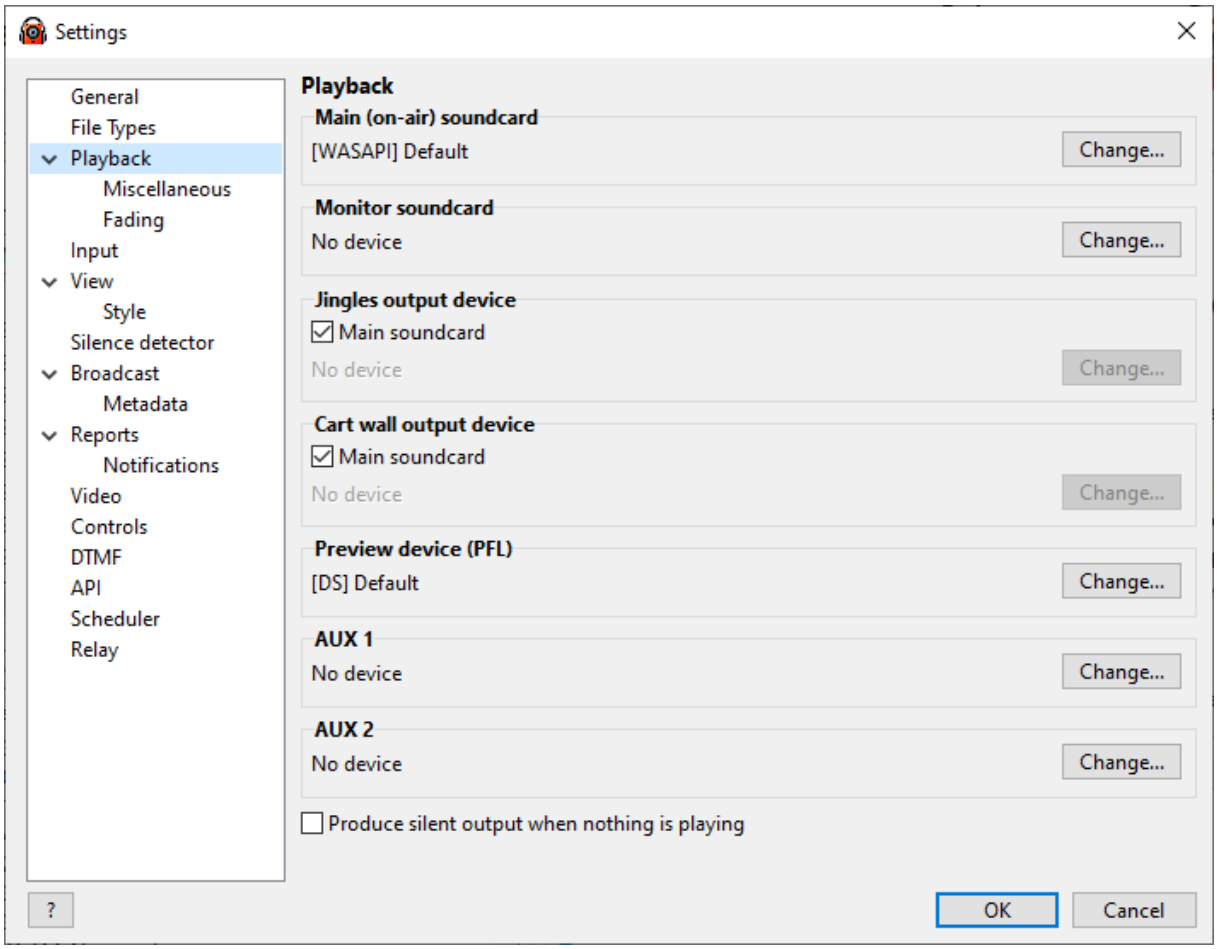

7. Setting up a broadcast. If you are running an Internet radio station, set up the **broadcasting encoders**. RadioBOSS supports ShoutCast, IceCast, and compatible servers. It also supports Windows Media Server and has a built-in broadcasting server, so that users can connect directly to RadioBOSS. No extra plugins are required. The Broadcasting Internet Radio section describes in detail how to set up broadcasting encoders.

8. Set up Hot Keys. Most hot keys are on by default: you can disable or reassign hot keys to suit your needs.

9. To start the playback, double-click any file in the playlist.

More information:
Broadcasting encoders
Creating a music library
Generating a playlist

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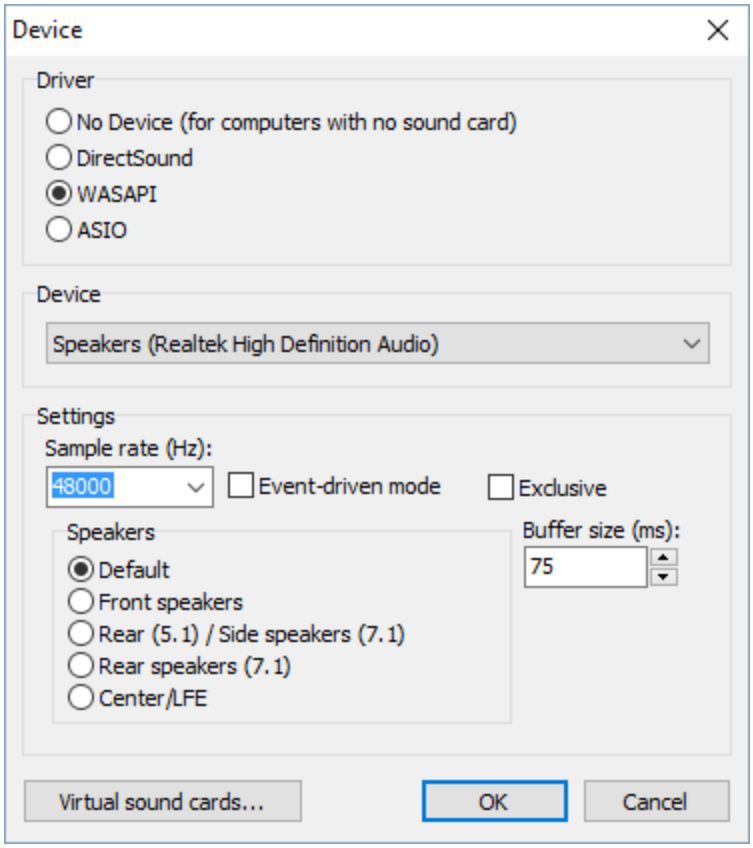
3.1 Setting up PFL

Pre-listening is available in the playlist (right-click a track) and the music database, as well as in Track Tool, the crossfade editor, and the voice track recorder.

To configure pre-listening, open the application's settings, switch to the Playback section, and select a device for pre-listening tracks for the **Pre-listening (PFL)** card.



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Part

4 Operation

4.1 Broadcasting Internet radio

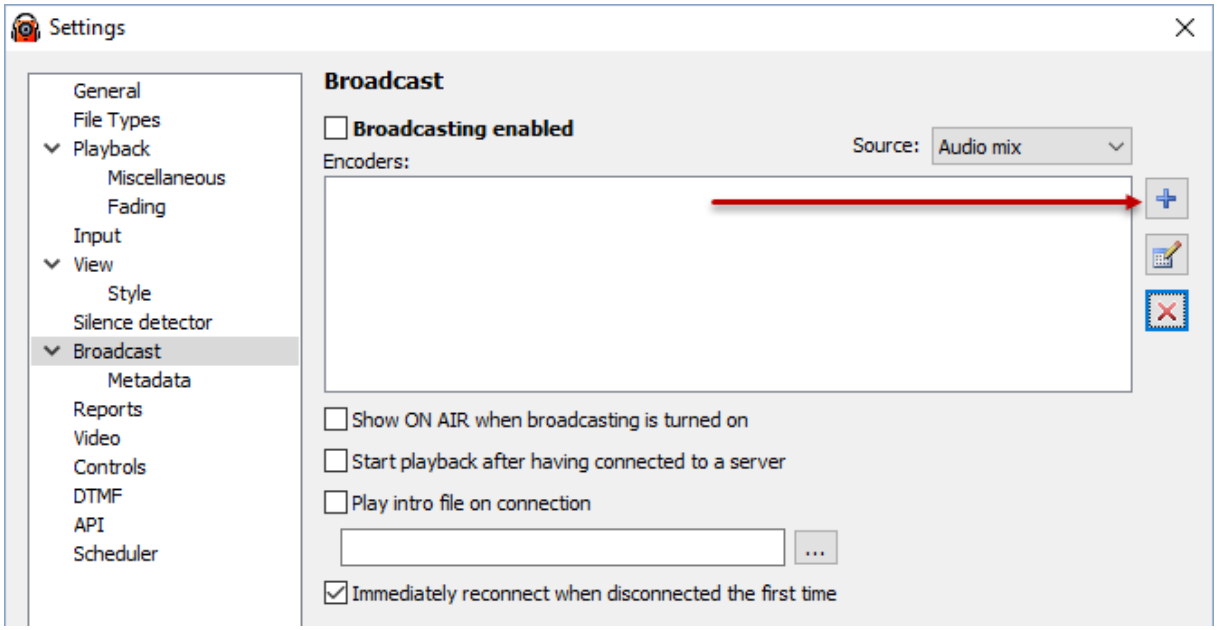
RadioBOSS lets you set up your own Internet radio station. The program can send audio stream to a Shoutcast, Icecast or Windows Media Server to broadcast it out to listeners. The software reads the audio data from a playlist and encodes it on the fly. It's possible to set up any number of broadcasting encoders.

To broadcast an Internet radio, follow the steps below:

1. In the top menu bar, select **Settings -> Options...**

2. In the **Settings** window, select **Broadcast**.
Fill in your station info: station name, description, URL, genre and other parameters. This is the global station information and is used for all encoders. Any encoder can override this information if needed.

3. To **add a new encoder**, click the "+" button.



4. The encoder window will open.

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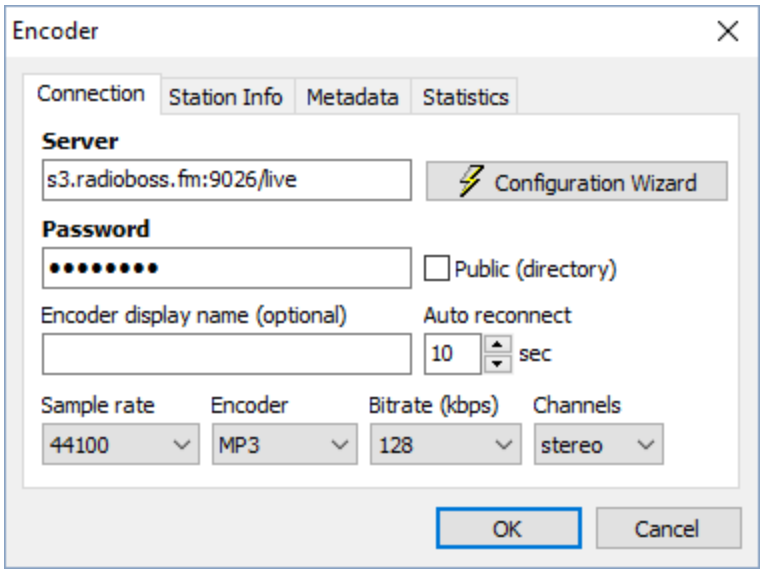

You can use the **Configuration Wizard** or enter all connection details manually.

Server address and password are provided by your stream hosting provider (unless you are using your own server). You can usually find this information on the hosting control panel. If you don't have a hosting radio, you can get it on the website: http://www.radioboss.fm/

Sample rate, **Encoder type**, **Bitrate**, and **Channels** set the broadcasting format. Please consult with your stream hosting provider about which format to use. If you are not sure, leave the default one: 44100 MP3 128kbps stereo.

The **Station Info** tab allows you to override the global station information for the encoder.

The **Metadata** tab allows you to specify the parameters of track name submission to the server.

The **Statistics** tab allows you to change the method of obtaining statistics (number of listeners) for the server; configuration details.

Once you have entered all the settings, click **OK**. The encoder will be added to the encoders list.

5. In the Settings window, check the check boxes for all encoders that you want to use. Remember to turn on the "Broadcasting enabled" option on the top.

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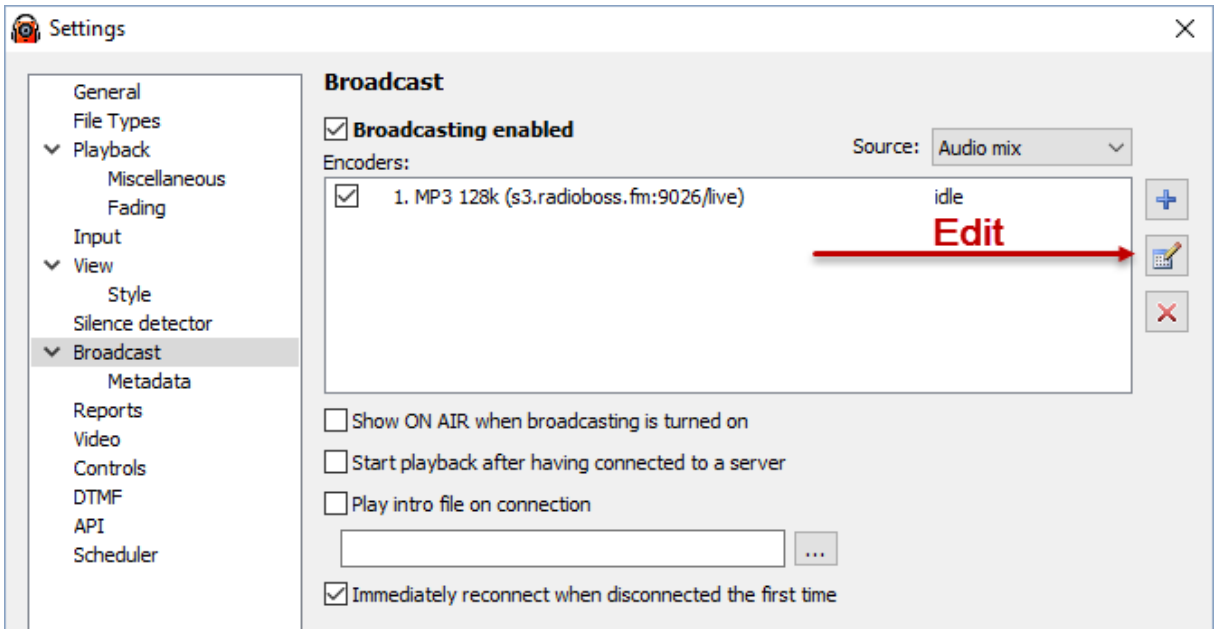

6. Click **OK**.

On successful connection, the report in the bottom-left corner will show the following message: **Connected to server! (output N).** It means that listeners can connect to the streaming server and listen to your radio.

If the broadcast is sent to a port different from the listening port, you will need to configure Statistic Relays to obtain information about the number of listeners.

If the setup is incorrect, RadioBOSS will show an error message in the report. The error message will describe the problem and show the number of the encoder that failed to start (e.g. "output 1").
If this is the case, open the Settings window, select that encoder in the list, and click the Edit button to fix the configuration.

You can view audience statistics in the **Statistics window**. To open it, click "Tools" –> "Broadcasting statistics..." or click the "Statistics" button on the toolbar. Statistics can also be added to work zones ("Statistics" tab type).

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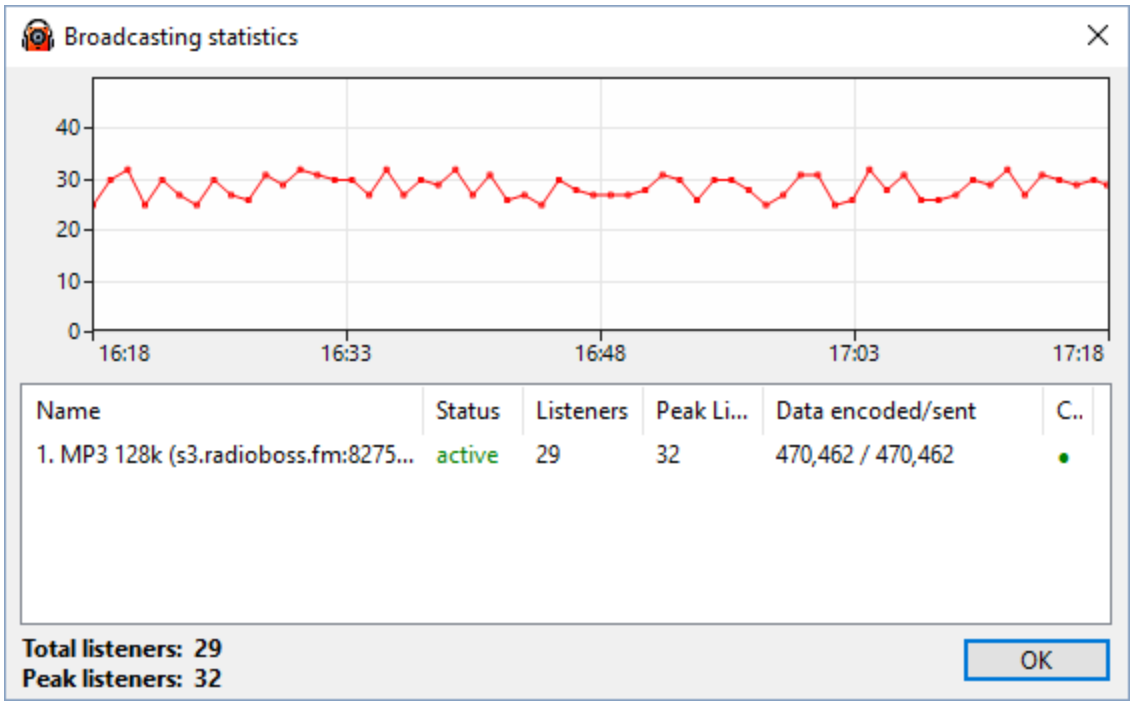

Most common error messages:

Cannot start broadcasting (output N): Error 2100

The specified password is incorrect. Please check the password.

Cannot start broadcasting (output N): Error 2

The server is not available or the specified server address is incorrect. The problem is probably caused by entering an incorrect address or port. Unless you are using Windows Media Services, make sure that there is no "http://" or "ftp://" in the server address.

Other reasons: Some anti-virus software or a firewall is blocking the connection, or no network connection is present.

Cannot start broadcasting (output N): Error -1

The most common reason for this error: Someone is already connected to the server.

Once the broadcasting properties are properly configured, RadioBOSS will broadcast whatever is currently playing(*) via the Internet radio station in real time.

(*) The **Source** drop down box (located above the encoders list) selects the sound source for broadcasting encoders:

Audio mix	Whatever is playing in the playlist, will be encoded (this is the default setting).
Input 1 **Input 2**	Input 1 or Input 2 will be used as a source. This setting is useful if you have a mixer board and want to broadcast its output. In this case, the mixer board should be connected to the corresponding sound card input. You can configure the inputs via the Settings: Input.

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More information:
Creating a music library
Generating a playlist
Broadcast settings

4.1.1 Statistic relays

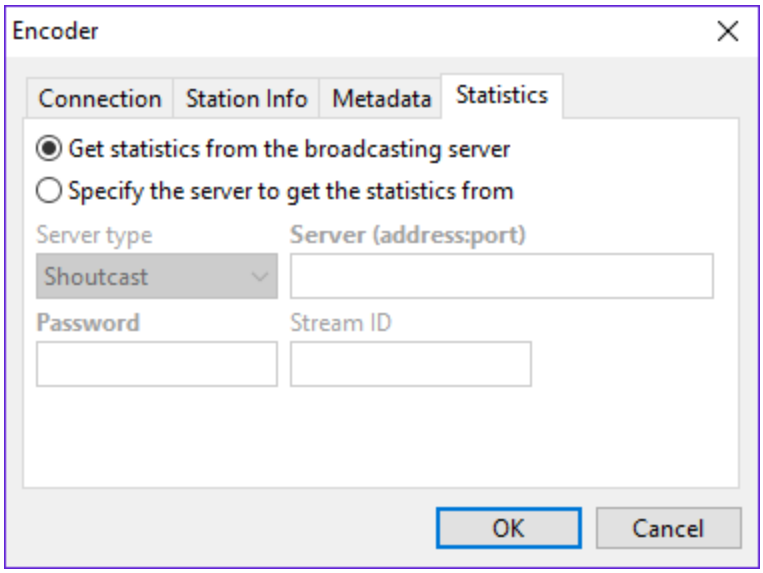
The function allows to customize the method of obtaining statistics (number of connected listeners).

By default, statistics are taken from the broadcast server. This doesn't require any additional setup.

You can also obtain statistics from another server. This can be useful, when broadcasting is maintained by one server, while listeners are connected to the other one: such situation is typical of distributed servers, or systems that support auto DJ, or multiple DJs broadcast from different locations.

To retrieve statistics without broadcasting to the server, on the **Connection** tab leave the **Server** field empty.

To obtain statistics from another server, click **Settings** -> **Options** in the menu -> choose **Broadcast** -> Double click the right connection to open it, and choose **Statistics** tab.



Select the **Specify the server to get the statistics from**.

Choose a **server type** – Shoutcast or Icecast; this is the type of server, from which statistics are obtained.

In the **Server** field, enter server address (without http://), e.g.: **example.com:9000**.

Password is a server password, which is either admin password or broadcasting password, depending on the server. To retrieve global stats info from Icecast server, set the Password field to

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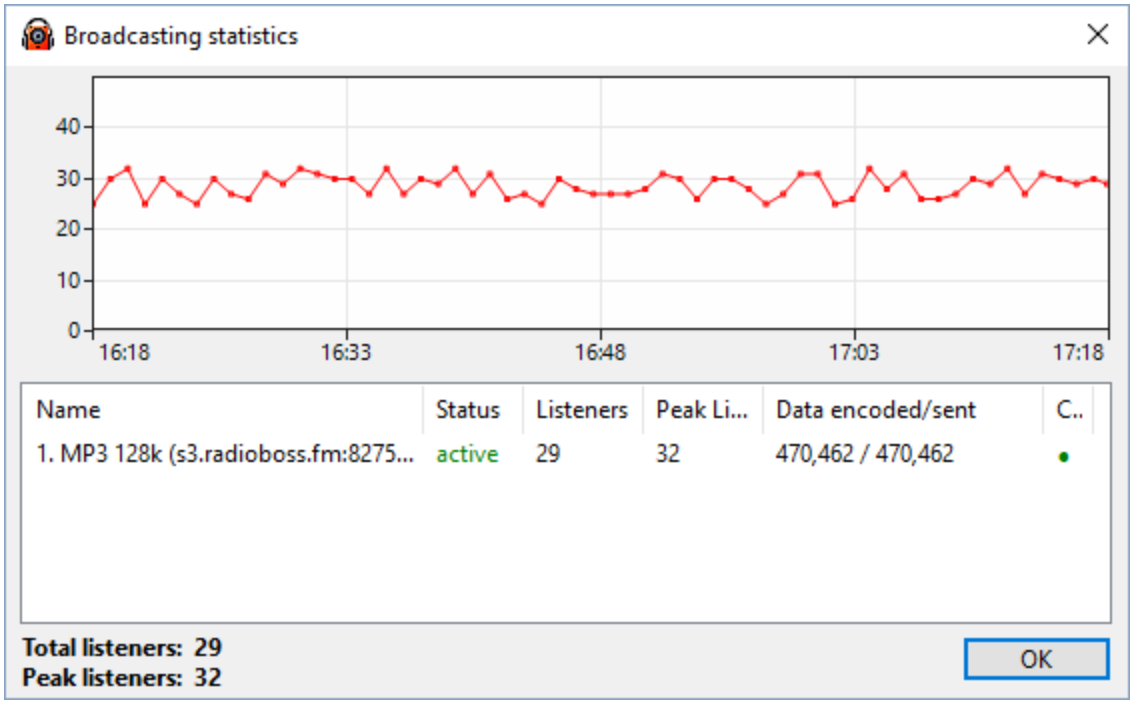
admin:PASSWORD (where PASSWORD is the admin password for Icecast server) and leave mount point field empty.

Mount/Stream ID is the mount name (which is necessary for Icecast) or stream ID for Shoutcast (if ID is not specified, total number of listeners at the server is returned).

If everything has been set up correctly, the statistics window shows number of listeners. Otherwise, an error message is returned in the table instead of number of listeners.



4.1.2 Integrated server

RadioBOSS has a built-in broadcast server. The server allows listeners to connect directly to RadioBOSS in order to listen to the stream. A built-in server is usually used for the transmission of audio within a local area network or for signal transmission between affiliate stations. We do not recommend using it for broadcasting internet radio as the server's functionality is limited.

To activate the server, use the broadcast setup wizard and select the "Configuration Wizard" option.

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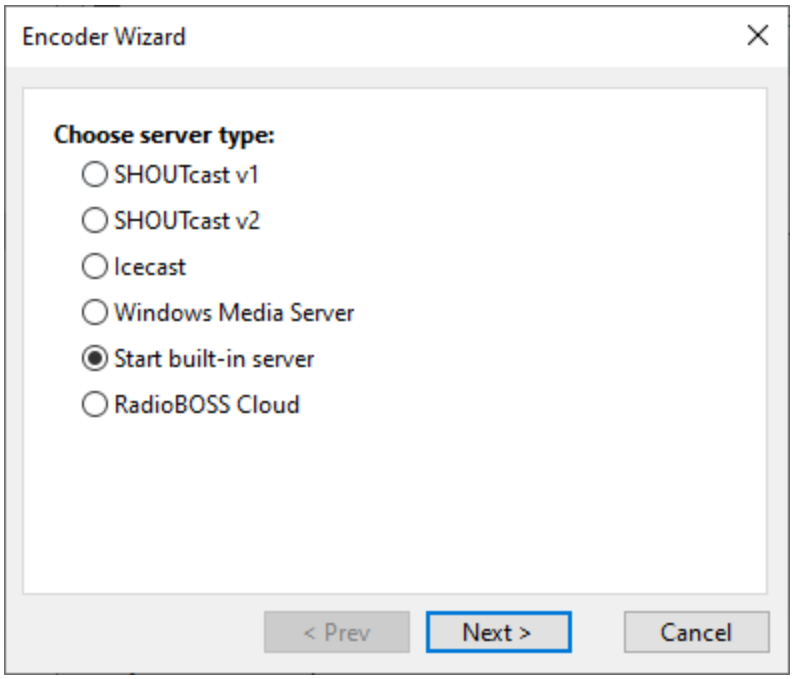

Specify the port on which the server will run and the maximum number of listeners.

You can listen to the stream at http://ip-address:port, where "**ip-address**" is the address of a computer in the local network or a static IP on the internet, and "**port**" is the port that was selected when configuring the server.

SSL streaming support

If you want to allow https:// connections, open the settings folder (using menu Settings, Open Settings Folder) and add certificate file **server_cert.pem** - the file needs to be in PEM format. It can include intermediate and root certificates (in that order) after the server's certificate. Also add **server_key.pem** file containing a private (in PEM format) for the certificate. RadioBOSS needs to be restarted after the certificate files are added.

4.2 Scheduling playback

RadioBOSS lets you schedule tracks for automatic playback at predefined times. You can use the scheduler to insert announcements and advertisements into the playback. The scheduler can play single files or playlists, and start Internet streams, linear input and perform various actions.

You can also schedule commands for automatic execution (e.g. take a random playlist or track from a folder, change the volume, generate a playlist, and more). Most of the commands can be easily scheduled using the wizard.

To create a scheduler event, follow these steps:

1. In the **Control Panel**, select the **Scheduler** tab.

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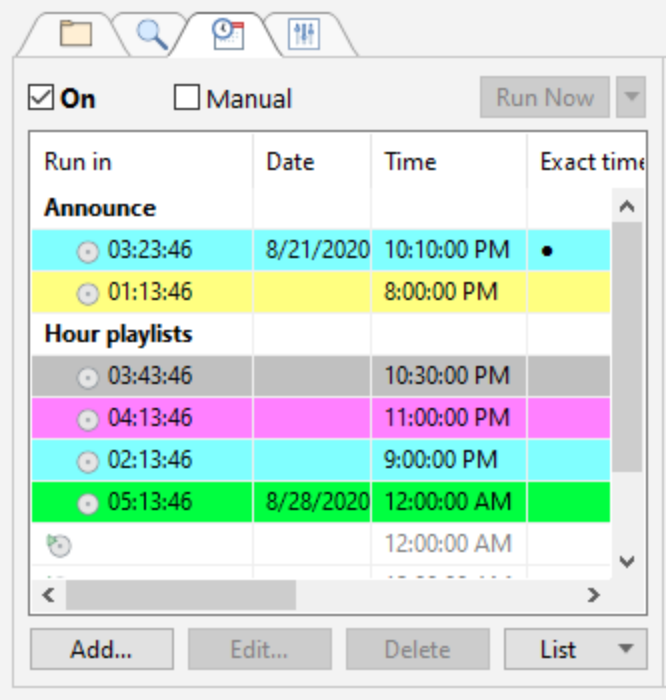
The scheduler tab will open, with a list of all events scheduled.

Options at the top of the window

- **On** - activate and deactivate the scheduler.
- **Manual**. If the Manual option is active, the events will not launch automatically, but only be marked (in the Manual column). Use the **Run now** button to start the events manually. Events running the **makelibrary, adsupdate, createbackup, download, weather, run, streamarchive** commands always launch, regardless of the **Manual** option state.

The **List** button allows enabling an events filter, save and load scheduled events list to a file, and perform other tasks on the events list.



2. Click the **Add...** button.

The **Event** dialog will open, where you can configure the scheduling parameters.

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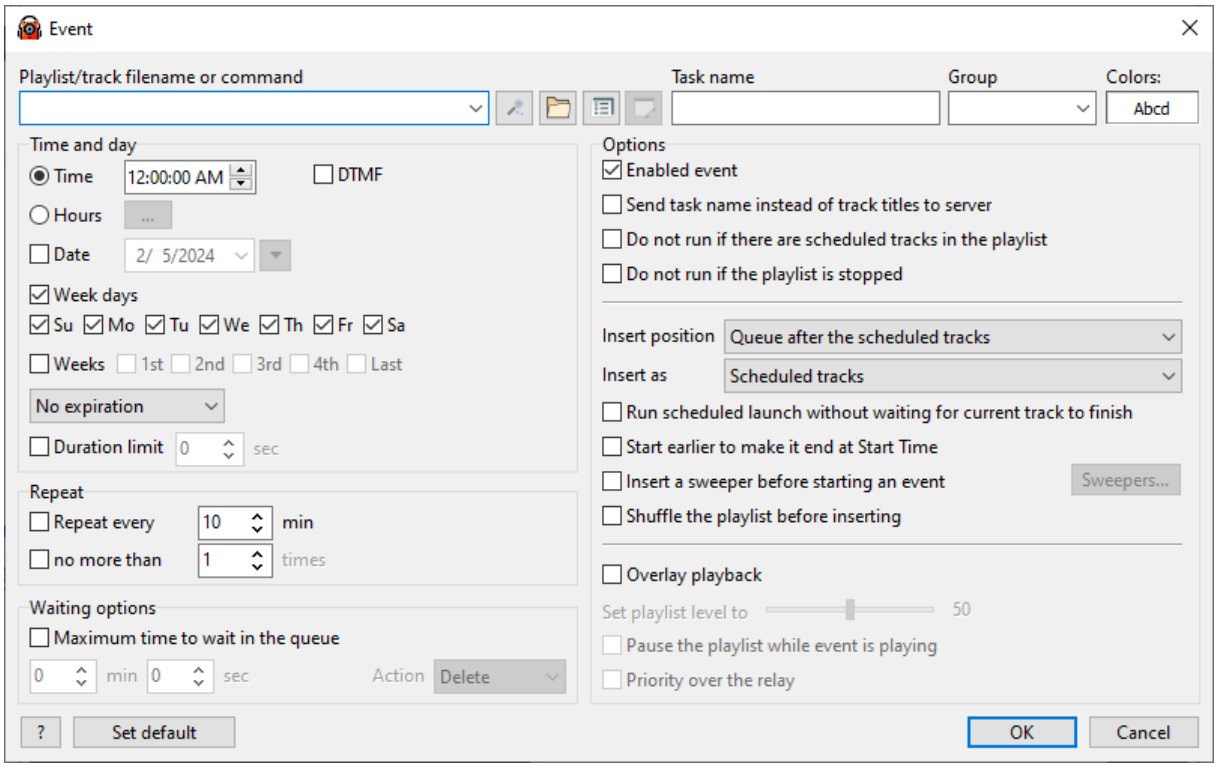
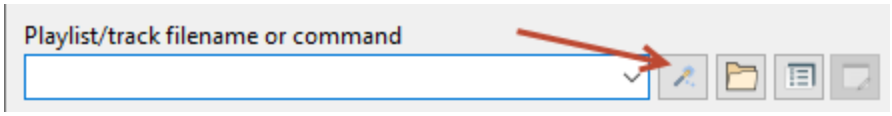


3. Click the **Open** button.
The Open dialog will open, where you can browse through the folders and select a file (track or playlist) to play.

You can also use the **Wizard**, which will help you create an action:



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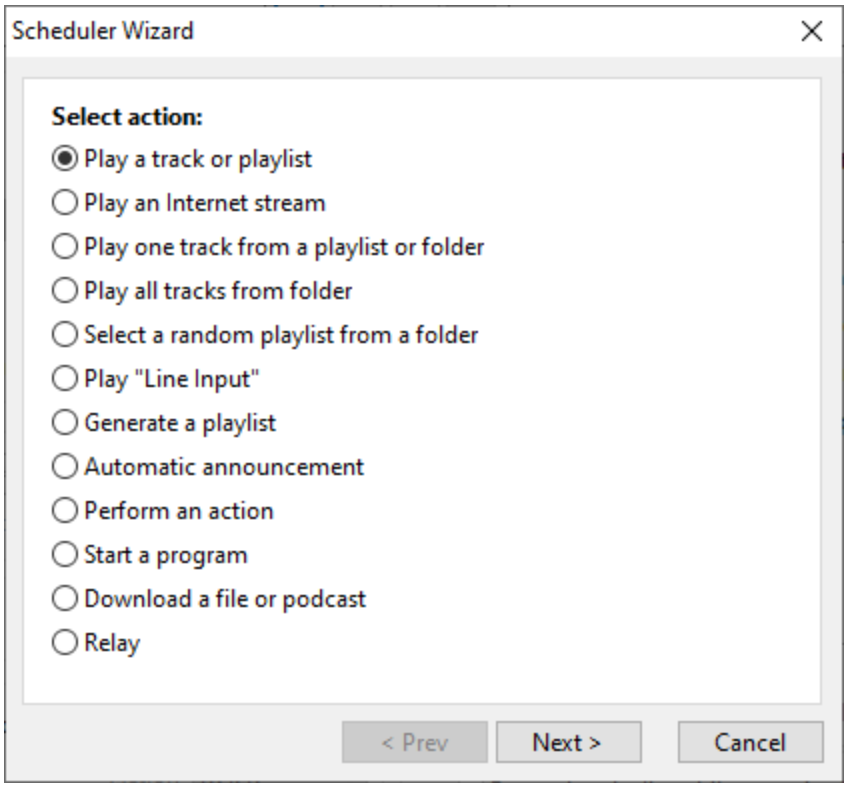

4. Set the date and time.

You can select a specific day and time to play a file only once, or schedule a repeated playback at a specific time on particular days. The scheduler also provides additional options to fine-tune the playback according to your preferences.

5. Click **OK** to save the scheduled task.

The event will be added to the event list in the scheduler window.

Related topics:
Scheduler
Event options
Scheduler commands

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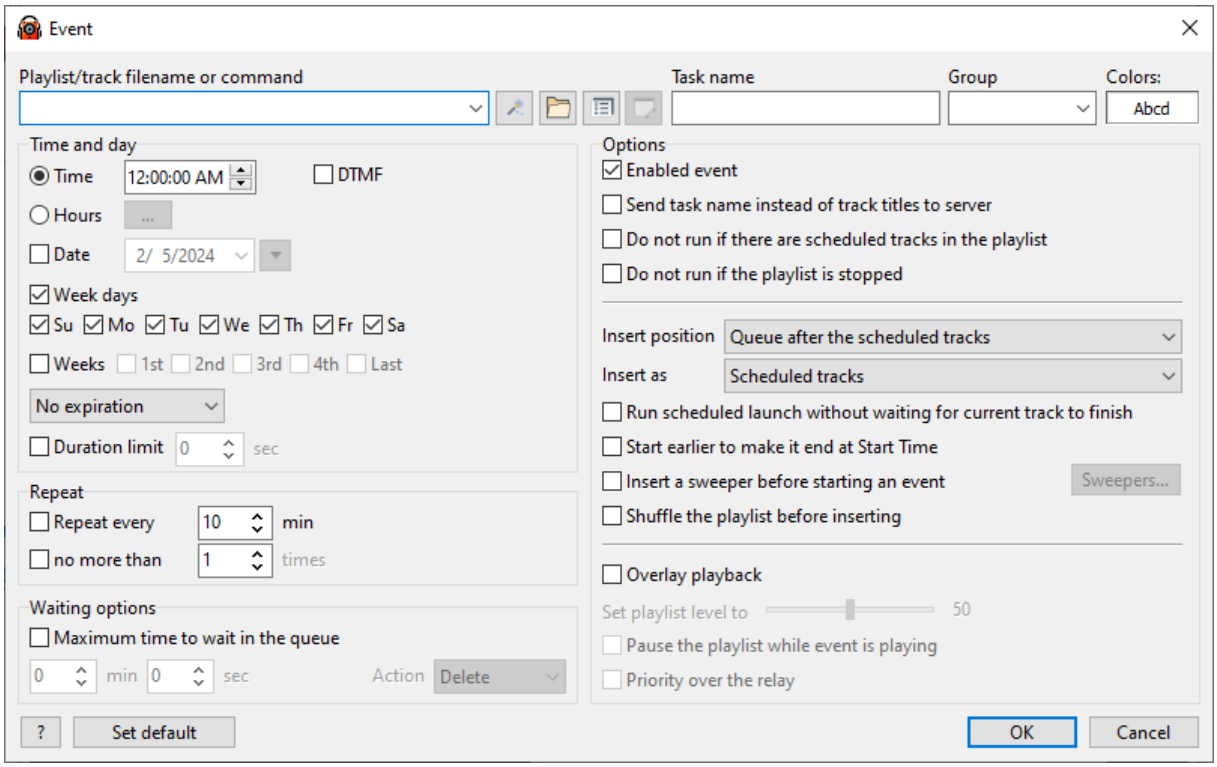
4.2.1 Event

Scheduled event



Event window

Playlist/track filename or command: A playlist, music track, or URL to be launched on the schedule. This field can contain one of the commands. To easily enter commands or advanced playback actions, click the **Wizard** button.

You can assign multiple actions to an event by clicking the button.

A **file name template** can be used in the file name: details

?yyyy	current year (4 digits)	**?dd**	day (2 digits)
?yy	current year (2 digits)	**?hh**	hour (2 digits)
?mm	month (2 digits)	**?nn**	minute (2 digits)
?wd or **?dw**	current day of week (2 digits): 01 to 07	**?wk**	week number (2 digits): 01 to 53
?any	any text in the file name	**?noeval**	if specified, evaluate macro on playback start; if not specified, evaluate on event launch

You can use this option to get a different playlist every day with only one scheduler entry.

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Example: The command is **C:\Playlists\?yyyy-?mm-?dd.m3u** and the current date is February 2, 2016. Using the above parameter will open the playlist with the filename **C:\Playlists\2016-02-02.m3u**; the next day, it will open **C:\Playlists\2016-02-03.m3u** and so on.

The date and time can be adjusted using modifiers, the modifier syntax is: **?(+|-)N(y|m|d|h|n)**
The modifier is added to the end of the command.
Example: The command is **C:\Playlists\?yyyy-?mm-?dd.m3u?+2d** (modifier marked in red, it adds two days to the current date) and the current date is February 2, 2016. Using the above parameter will open the playlist with the filename **C:\Playlists\2012-02-04.m3u**; the next day, it will open **C:\Playlists\2012-02-05.m3u** and so on.
Modifiers can change: **y** - year, **m** - month, **d** - day, **h** - hour, **n** - minute.

Task name: any string that helps you to identify the event in the list (can be left blank).

Group: a group to which an event belongs. This can be left blank - in this case, an event will not belong to a group, or you can enter a group name (or click the down arrow if you would like to select from the existing groups). Groups help in keeping the list of events organized. Click the "**Colors**" box to select a group color.

Event Groups can be expanded and collapsed by double-clicking them in the event list.

Colors: event coloring in the list. Click a box to select colors.

The **Delete** button removes an event from the list.

The **Save as New** button saves an event as a copy (instead of editing it).

The **Set Default** button creates standard settings: these settings will be used when adding new events.

Time and Day

In this section, you can specify the time and day of week for launching the track or playlist.

Date and **Time** fields: Specify the launch date and time.

Hours - instead of specifying the time, you can select the hours and minutes at which the event will start, or set multiple start times for the event. To configure, press the **[...]** button.

- **Hours** - To run the event at different minutes of the hour, the minutes are listed separated by commas, for example: **15, 35, 55** - the event will run at the selected hours, at the 13th, 35th and 55th minute of each hour.
- **List of start times** - you can specify multiple start times as a list, each start time can be assigned to a day of the week.

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Important! If the **Date** check box is checked and **Week days** is unchecked, the track will be launched only on the date specified. If both **Date** and **Week days** check boxes are checked, the date will determine the start date: The event will be launched on the selected days of week on and after the specified date. Next to the date field is a button that, when pressed, will allow you to select the "**Every year**" option, in which case the event will launch on the selected day every year.

Week days: Specify the days of week for launching an event. This option lets you make a schedule for the whole week.

Weeks: sets the number of the day of the week of the month when the assignment should come out. For example, if "2nd" and "Last" are activated and Sunday is set under **Week days**, the assignment will come out on the second and last Sundays of the month.

An event can also be started by a DTMF signal. For more information, please refer to this topic.

Expiration

- **Delete event** - the event will be deleted on the specified expiration date/time
- **Disable event** - the event will be disabled on the specified expiration date/time; the event will not be re-enabled automatically, it can only be done manually
- **Expiration** - the event will not run after the specified date/time; **Every Year** option (right-click the date field or press the down arrow button) allows to run the event every year up to the specified date. Can be used in combination with **Date** (see above) to set the date interval when the event will run.

Duration limit
Limit the event playback duration.

Repeat

Repeat every [X] **minutes no more than** [Y] **times**: The event will be launched the specified number of times at equal time intervals. For example, if the option is set to repeat every 15 minutes no more than 10 times, the event will be executed once at the scheduled time (e.g. at 01:05), and then 9 times at 15-minute intervals (at 01:20, 01:35, 01:50, etc.). A warning icon will appear if repeats exceed 24 hours (which can then lead to unneeded event launches).

Waiting Options

Maximum time to wait in the queue: Specify for how much time the event can stay in the playback queue. If the playback is not started during the specified time, an action will be performed:
- **Delete**: the tracks will be removed from the queue.
- **Play**: event will launch and interrupt the currently playing track

This option also can be used together with the **Overlay playback** feature, in this case overlay playback will be delayed to start on current track' end. If by the end of the current track more time is left than the

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waiting time set, and the action at the end of the waiting period is Start, then the waiting period will not be completed and the event will be started immediately.

Options

See the Event Options page.

More information:
Scheduling playback
Scheduler commands
Event Options

4.2.1.1 Event Options

Options

Scheduled event options.

Enabled event	To temporarily disable the event, uncheck this box.
Send task name instead of track titles to server	A task name, not individual track titles of the event, will be sent to the server.
Do not run if there are scheduled tracks in the playlist	If there are scheduled tracks in the playlist, the event will not be launched.
Do not if the playlist is stopped	If the playlist is not playing, the event will not be launched.
Insert position	Position at which the scheduled event will be inserted into the playlist, options: • Queue after the playing track • Replace playlist • Replace scheduled tracks • Queue after the scheduled tracks • Insert at the end of the playlist
Insert type	Type of the inserted tracks: **Scheduled tracks** - track will be inserted into the playlist as scheduled tracks (marked with the clock icon) **Regular music tracks** - tracks will be inserted as regular music tracks, they won't be marked with the scheduler "clock" icon; will

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	not be removed from the playlist after playback; event options won't consider those tracks as scheduled tracks. Usually, this should be enabled for events that start music playlists.
Run scheduled launch without waiting for current track to finish	If this option is turned on, the track/playlist will be played at the time specified in the "Time" field. Otherwise, it will be queued and played after the current track is finished.
Start earlier to make it end at Start Time	Event duration will be calculated and event will start earlier to make playback end at the defined start time. **Important!** The option only works if the event starts a single music track.
Insert a sweeper before starting an event	Insert a sweeper before starting an event. More about sweepers.
Shuffle the playlist before inserting	If the "Playlist/track filename or command" field contains a playlist name, the playlist will be shuffled before inserting.
Overlay playback	If this option is turned on, the track will be played on its own player, along with the playlist. You can decrease the volume of the background music using the music level slider ("Set the playlist level to") below. In the example, the track "Don't Stop" (see screenshot below) is overlaid on the background music.
Pause the playlist while event is playing	If this option is turned on, the playlist will be automatically unpaused when playback is finished. It is useful for announcements when you don't want to interrupt the currently playing track.
Priority over the relay	The event will silence the currently active relay and play.

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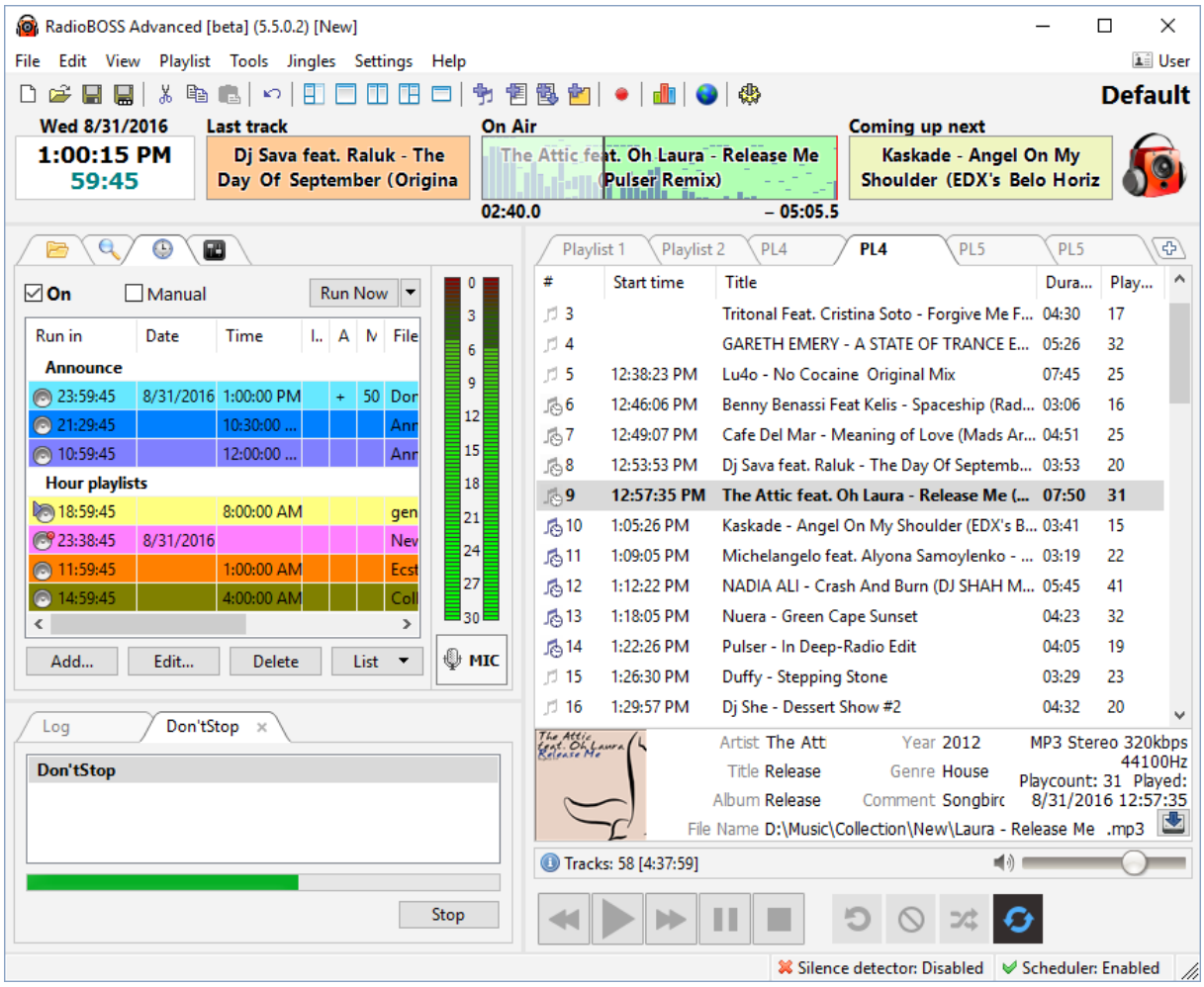

Example: A playlist with the scheduled tracks and "Overlay playback" event playing

4.2.1.2 Sweepers

Sweepers are used to avoid interrupting a song playing before an event starts. For instance, a song starts to play but after 20 seconds there's a scheduled event that is about to start. The event will interrupt the song. To avoid this situation, **RadioBOSS** can insert a **sweeper**, in this case, a 20-second sweeper will play instead of the song and then the event will start.

To assign a sweeper: in the event window, Click the "**Sweepers...**" button and select a folder with sweepers. The more sweepers with different durations the folder contains, the better.

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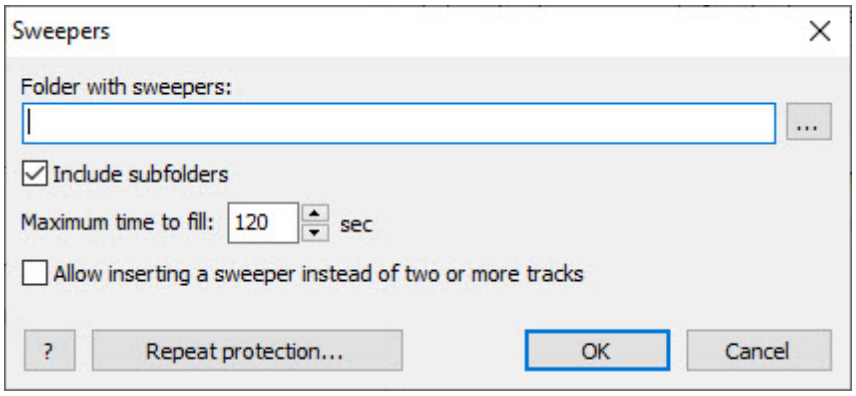
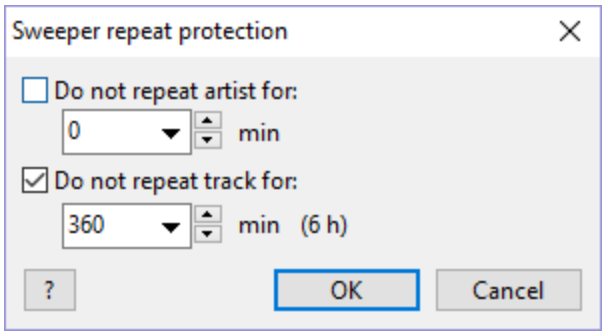


There are repeat protection rules for sweepers, to open the repeat protection settings, click the "Repeat protection" button in the sweepers window, or use the **Playlist** -> **Extra** -> **Sweeper repeat protection** menu command. Repeat protection settings are common for all sweepers.



Sweeper selection quality can be controlled in the settings in the Scheduler section.

4.2.2 Scheduler commands

List of available scheduler commands. With some exceptions, the same commands can be called from the Cart Wall or used directly in the playlist (menu **Playlist** -> **Add command**).

Note: The event window has a **wizard** that can enter most of the commands for you automatically. So most of the time, there is no need to enter commands manually.

Playback control

- play
- stop
- pause
- next
- prev
- setvol
- fadeout
- stopoverlays
- eqpreset
- dsp

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Playlist
- generate
- getrandomplaylist
- clearplaylist
- [folder_path]
- getfile
- playrequestedsong
- playlist tab
- resetplayedstate

Broadcast
- connect
- disconnect
- setencodersource
- setcasttitle

Scheduler
- scheduler on/off
- enablegroup
- disablegroup
- enableevent
- disableevent
- runevent
- setdtmfsource

Relay
- relaystart
- relaystop

Features
- streamarchive
- silencedetector
- enablevo
- disablevo
- autointro
- set

Ads Scheduler
- adsupdate
- adsremote

Music Library
- makelibrary

System
- run
- reboot

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- poweroff

Other
- createbackup
- load
- download
- weather
- COM port
- send

play X	Play track number X in the playlist
stop	Stop playback
pause	Pause playback
next [FadeOut] [CueNextOnEnd]	Proceed to the next track. If **FadeOut** parameter is specified, the currently playing track will be faded out for the duration specified (in milliseconds, 1 second = 1000 milliseconds). **CueNextOnEnd** modifier makes it wait for the fading to end, and after that next track will be played. Example: start next track **next** Example: start next track and fade out the current track during two seconds **next 2000** Example: fade out current track for five seconds and start next track after fading ends **next 5000 CueNextOnEnd** **Notice:** "next" command with "**CueNextOnEnd**" modifier can be used in multiple action events as the first command, in this case it will be executed before the event is started; it only works for events with "Run scheduled launch without waiting for playing track to finish" option enabled.
prev	Return to the previous track

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run filename parameters	Launch any program or batch (.bat) file Example: **run C:\dosomething.bat** **run C:\AnyProgram.exe -switch1 -switch2**
generate preset_name	Create a playlist from the playlist template called **preset_name**. For example, there is a template named "ROCK 2 Hours" (without quotes). To generate a playlist using that template, use the following command: **generate Rock 2 hours**
setvol x	Set the volume to X (0 to 100). For example, setvol 70. Moreover, you can specify the duration (in milliseconds) for the volume to reach the desired level (syntax: **setvol X time_ms**). For example, setvol 70 500 will set the volume level to 70 over a period of 0.5 second.
load filename	Load the *filename* file. The file can contain a profile (.prf), playlist (.m3u), or scheduler task list (.sdl). If the full pathname is not specified, the application will look for a profile in the \Profile folder, for a playlist in the \Playlist folder, and for a scheduler list in the \Presets\Schedule folder. A playlist will be loaded into the Main list.
load text ZN:Name; filename|text	Load the text to the tab with a notebook. **ZN:** - zone number (Z2, Z3) **Name** - tab name **filename|text -** path to the file from which the text should be loaded or the text itself Example: load text "this is test" to NOTE0 tab in zone 2 **load text Z2:NOTE0; this is test**

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getrandomplaylist Path	Load a random playlist from the folder specified in Path. Example: **getrandomplaylist d:\music\playlists**
clearplaylist [up|down]	Clear the playlist. If **up** modified is specified, will only remove the tracks above the currently playing track. If **down** modified is specified, will only remove the tracks below the currently playing track.
reboot	Restart the system
poweroff	Shut down the system and turn off the power
connect **disconnect**	**connect** — connect to the broadcasting server. If no parameters are specified, the application will connect to all servers specified in the settings. You can use a value from 1 to N as a parameter for connecting to a specific server. Multiple servers can be specified, comma separated e.g. **connect 1,3,5**. **disconnect** — disconnect from the server. The parameters are the same as for **connect**.
scheduler on **scheduler off [timeout]**	Temporarily turns on/off the scheduler. These commands are useful for live shows. **scheduler off** — suspend the scheduler. No events will be started except for ones with the "scheduler on" command. Optionally, a timeout in minutes can be specified to re-enable the scheduler, e.g. **scheduler off 15** - suspend the scheduler for 15 minutes. **scheduler on** — turn the scheduler on from the suspended state. This command works only if the scheduler was turned off using the "scheduler off" command. It doesn't work if the

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	scheduler was turned off manually by unchecking the "On" check box. **scheduler on** also turns off the **Manual** option.
streamarchive on|off **streamarchive FILENAME** **streamarchive DURATION FILENAME**	Turn on/off the Stream Archive feature (menu: Tools -> Stream Archive) **streamarchive on** - turn on Stream Archive. **streamarchive off** - turn off recording, including the second instance (see below) Start recording and save to the specified file name: **streamarchive D:\myshow.mp3** Start recording and save to the file, limit record duration to 3600 seconds: **streamarchive 3600 D:\myshow.mp3** When a file name is specified, recording is performed in a second Stream Archive instance - recording in the Stream Archive window is unaffected. If recording duration is not specified, the recording can be stopped with the **streamarchive off** command, or by pushing the **Stop** button in the Stream Archive window. If another recording is started with the file name specified, it will stop the current recording being performed in the second Stream Archive instance.
makelibrary LibraryName|Dir1|Dir2|... **makelibrary <options> LibraryName|Dir1|Dir2|...**	Create or update a music library. Command parameters are separated with the | character. The first parameter sets music library name. The second and following parameters are the folders to scan

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	(including subfolders). Instead of path you can specify playlist, music library file or a single music track. When a folder or a playlist is specified, the library will be rebuilt only with tracks from specified folders/playlists. When a single file is specified, it is added to the library. Example: Create a music library file named **music**, and add tracks from the "C:\Music" folder. **makelibrary music|C:\Music** Example: Same as above, but adds tracks from the "C:\Music" and "D:\MoreMusic" folders: **makelibrary music|C:\Music|D:\MoreMusic** Example: Using playlist as source **makelibrary music|C:\playlist.m3u8** **Options** specify additional processing options: scan for silence, BPM, normalize tracks. It is recommended to create command with options using the **Tools**->**Schedule library update** menu in Music Library. Example: normalize tracks with -9.0 LUFS target; trim silence; scan for mix point at -14 dB; detect BPM; detect Mix Start point at -4 dB. Skip tracks that already scanned. **makelibrary <normalize:-9.0;skip|silence:skip|mixpoint:-14.0;skip|bpm:skip|mixstart:-4.0;skip> music|C:\Music** Example: normalize tracks with -9.0 LUFS target, skip tracks with level tag set **makelibrary <normalize:-9.0;skip> music|C:\Music**

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	Example: normalize tracks with -9.0 LUFS target; trim silence; scan for mix point at -14 dB; detect BPM. Re-scan tracks where values are set (no **skip** modifier) **makelibrary <normalize:-9.0|silence|mixpoint:-14.0|bpm> music|C:\Music**
adsupdate **adsupdate -skipevents**	Update advertisement events and playlists. Executing this command will produce the same result as clicking the "Create playlists and event" button in Ads Scheduler. If **-skipevents** modifier is present, the command will not export or update events in RadioBOSS, only playlists will be updated.
adsremote	Update advertisement events and playlists on remote RadioBOSS installation.
createbackup FileName	Create a backup of application settings and events, saving it to the specified file. If SQLite database is used, its backup is also created. Example: **createbackup C:\RB_backup.7z** **createbackup C:\RB_Backup_?yyyy-?mm-?dd.7z** In the second example, a substitution macro is used.
folder_path **folder_path/**	Add tracks from a folder to the playlist. If path ends with "/" then tracks will be added in random order, otherwise tracks will be added in alphabetic order Example: **D:\Music** or **D:\Music** - add tracks from D:\Music folder in an alphabetic order

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	D:\Music/ - add tracks from D:\Music folder in random order
download [podcast|podcast_today] URL FILENAME	Downloads a file from the URL and saves it as FILENAME • To trigger a specific URL (e.g. to send a notification), without saving any file, omit the FILENAME parameter. • If a **podcast** keyword is specified, the URL has to specify the podcast address and RadioBOSS will select the newest podcast from the feed and download it. • **podcast_today** works the same as **podcast** keyword except that it will only download today's podcast (no file will be downloaded in case there's no stream for today) • When downloading from FTP, RadioBOSS will use Passive mode if username and password are specified in the URL, otherwise Active mode is used. Example: **download http://www.example.com/file1.exe D:\savedfile.ext** Example: download podcast (will download the newest podcast from the feed) **download podcast http://www.example.com/podcast.xml D:\podcast.mp3** Example: download podcast (will download the today's podcast from the feed) **download podcast_today http://www.example.com/podcast.xml D:\podcast.mp3** Example: download file specifying username and password for authorization

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	download http://USERNAME:PASSWORD@www.example.com/file1.exe D:\savedfile.ext Example: call script at specified URL but do not save anything **download http://www.example.com/thescript.php**
fadeout time_ms	Fade out the playlist playback in time_ms milliseconds. Example: fadeout 500
set com(1-9) (dtr|txd) **clr com(1-9) (dtr|txd)**	Set/clear the value at the com-port out; out can be either dtr (pin 4) or txd (pin 3). For example: **set com1 dtr** — set high dtr com1 level; **clr com2 txd** — clear (set low level) at txd com2 out. Low com-port level corresponds to –12V and high level to +12V.
send COMX text	Send string **text** to COM-port **COMX**. **COMX** - COM port name, e.g. COM1 **text** - text to send
set OPTION [on|off]	Enable/disable **OPTION**.

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	set OPTION on - enable (turn on) OPTION. **set OPTION off** - disable (turn off) OPTION. Example: **set shuffle on** - enable shuffle mode; **set shuffle off** - disable shuffle **OPTION** can be one of the following: **shuffle** - shuffle (random playback) **repeat_track** - repeat track option **repeat_list** - repeat playlist option **break** - stop after current track **autoamp** - automatic volume control (AutoAmp) **http_request** - HTTP request **manual** - scheduler Manual mode **autointro** - Auto Intro The **set** command can also be used to set a variable value %showname: **set %showname=TEXT** The variable value **%showname** can be used in the HTTP request.
setencodersource SRC	Change the sound source for broadcasting encoders. Possible **SRC** values: **0** - Audio mix **1** - Input 1 **2** - Input 2 **3** - Input 3 For more information about encoder sources please refer to this page: Broadcasting Internet radio Example: **setencodersource 0**
setcasttitle TITLE	Update streaming title. Example: **setcasttitle My Show**

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silencedetector on **silencedetector off**	Turn on and turn off the silence detector **silencedetector on –** enable **silencedetector off** – disable This command can also be used for changing these parameters: **silencedetector timeout N** - change silence detector timeout (in seconds) **silencedetector playlist FILENAME** - change the name of the playlist opened upon silence detection.
getfile C:\path_to_folder [/random|/newest|/oldest] [/delete|/move]	This command adds one file from the specified folder to the playlist. It can select the oldest or newest file (by the adding date), or a random file. The command selects music files and playlist files. Syntax: **getfile C:\path_to_folder [/random|/newest|/oldest] [/delete]** If a folder path contains spaces, it must be surrounded by quotes. **/random** - select a random track **/newest** - select newest track **/oldest** - select oldest track **/delete** - delete the file after playback **/move=path** - move the file to the folder "path" after playback; if the path contains spaces, the parameter must be enclosed in quotes: "/move=C:\path with spaces". Example: Play one file from the ads folder, and then delete that file from disk: **getfile C:\announcements /newest /delete**

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	If you prefer to keep the file after playback, omit the delete parameter.
playrequestedsong **playrequestedsong N**	To automatically play the requested songs, use the **playrequestedsong** command. Optionally, you can specify a minimum time interval (in minutes) to delay song request playback: some music licensing authorities require a delay before the requested song can be played. Example: **playrequestedsong 30** - delay requested song playback for at least 30 minutes. The scheduled event with the playrequestedsong command should be set up to repeat, e.g. every 10 minutes during the time period when you want to accept song requests. See also: Remote Control API song request actions: **songrequest**, **songrequestclear**
weather city, country	Update weather data: Automatic weather announcement Example: **weather New York, US**
setdtmfsource 1|2|3|URL	Set DTMF detector source. **1** - Input 1 **2** - Input 2 **3** - Input 3 **URL** - specify network stream URL Example: **setdtmfsource http://example.com:8000**
stopoverlays	Stops all playing "overlay playback" events
enablegroup GROUP **disablegroup GROUP**	Enable (**enablegroup**) or disable (**disablegroup**) a group of events. **GROUP** - event group name to enable/disable. Multiple groups can be

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	specified, comma separated, e.g. **enablegroup Group 1, Group 2**
enableevent EVENTNAME **disableevent EVENTNAME**	Enable (**enableevent**) or disable (**disableevent**) an event. **EVENTNAME** - event name **enableevent MyShow**
runevent EVENTNAME|EVENTID	Run an event by its name or identifier. **runevent MyShow** - run an event using its name **runevent MMHDBYQSNUEF** - run an event using its identifier
enablevo **disablevo**	Enable or disable Voiceovers.
autointro [disable|enable] rule1, rule2, ...	Enable or disable Auto Intro rules. Rules names are not case sensitive. Example: disable rules Morning and Day **autointro disable Morning, Day** Example: enable Artist rule **autointro enable Artist**
eqpreset NAME	Change equalizer preset. Example: change current preset to "Rock" **eqpreset Rock**
dsp enable|disable [index]	Enable or disable DSP Examples: **dsp enable** - enable all DSPs **dsp enable 1** - enable DSP #1 in the list **dsp disable 1** - disable DSP #1 in the list
playlist TABNAME	Change active playlist tab. When used inside "Multiple actions" in the scheduled event, this command is

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	always executed first, regardless of its position in the actions list. Example: change active playlist tab to tab named "Main" **playlist Main**
relaystart 1|2|3|URL	Start relaying. **1** - Input 1 **2** - Input 2 **3** - Input 3 **URL** - specify network stream URL Example: relay network stream **relaystart http://example.com/stream** Example: relay line input 1 **relaystart 1**
relaystop	Stop relaying.
resetplayedstate	Reset the "played track" status for tracks in the playlist window.

See also
Scheduler
Remote Control API

4.2.3 Starting events by DTMF signal

Scheduled events can also be started by a DTMF signal. It is useful when you need to rebroadcast another station and insert regional advertisement blocks: DTMF can be used for synchronization.

DTMF configuration

First, select a source where DTMF will be checked. In the Settings window, select DTMF tab.
Select an input (Input1/Input 2) or URL. If you selected "URL," enter a network stream URL; RadioBOSS will connect to that URL and look for DTMF tones in the stream.

RadioBOSS will automatically activate or deactivate the DTMF detector when necessary.

Setting up events

In the event properties window, check the **DTMF** check box and enter a DTMF sequence (e.g. "764C"). When this sequence is detected, the event will start.

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RadioBOSS starts to look for a DTMF tone 5 minutes before the event start time and ends 5 minutes after the event start time. The time frame can be adjusted in the DTMF tab in the Settings. For example, if the event is supposed to start at 01:00:00, DTMF will be checked from 00:55:00 to 01:05:00. If no DTMF is detected within that time frame, the event will be launched at the end of the DTMF checking window - in the example, at 01:05:00. To avoid this, check the **DTMF Only** checkbox: in this case, the events will be started by DTMF only. If no DTMF tone is detected, the scheduled event will not start.

To end an event by a DTMF signal, check the "**End DTMF**" check box and enter a DTMF sequence.

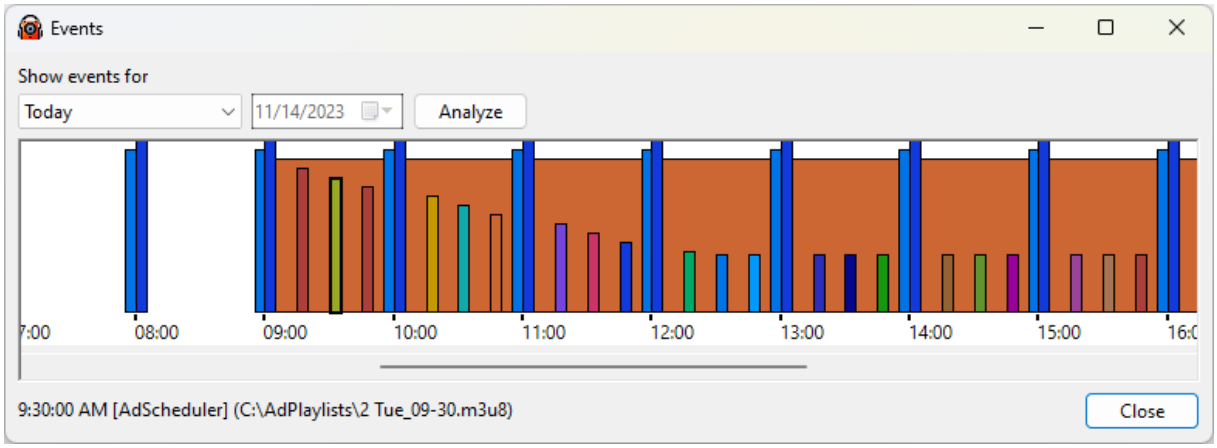
Multiple DTMF signals can be specified for Start and End DTMF, e.g. "764C, 1D56" - in this case the event will be started by either "764C" or "1D56" tone.

4.2.4 Events overview

Events Overview window is used to analyze what events will run on a given day.

To open the Events Overview window, click the **List** button under the events list, and select the **Events Overview...** command.

Each event is shown as a rectangle, its width indicates the event duration. **Hovering** any event in the chart will show its name and start time, **click** on an event to select it in the events list, and **double-click** to call the event editor window. Rectangle height doesn't have any special meaning - the heights are different to prevent one event hiding completely behind another.



4.3 Generating a playlist

Playlist Generator Pro

Playlist Generator Pro can help you create playlists with a given structure (rotation) that will determine which tracks, from which source(s), and how many ones will show up in the playlist. In addition, it can prevent repeating of the tracks, use filters, and priority rules. Playlists can be generated manually or automatically by schedule.

You can launch Playlist Generator Pro from the menu: **Playlist** -> **Playlist Generator Pro.**

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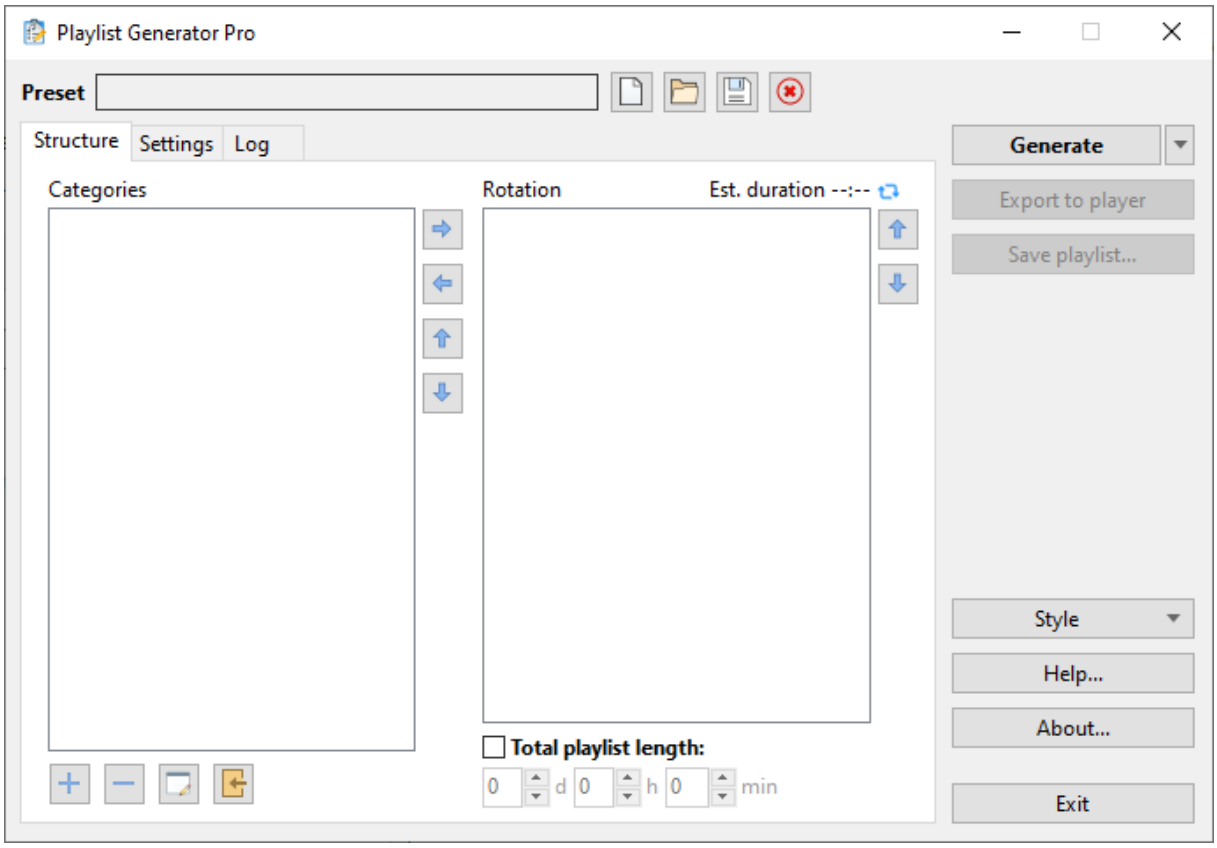

General information and an example of use

A playlist is generated according to a given structure (rotation), which consists of categories.
A category consists of tracks that will be used in the playlist.

Example:
Say, you want to create a eight-hour-long playlist with the following rotation:

- Top100
- Station ID
- Music
- Station ID
- Music
- Station ID

In the example, it plays one Top100 track, then two Music tracks with Station ID after every song, and then it repeats. There are only three different types of tracks in this rotation. So three categories of tracks will be created: **Station ID**, **Top100**, and **Music**.

To create a category, click the "**+**" button below the list of categories. A window with category options will open:

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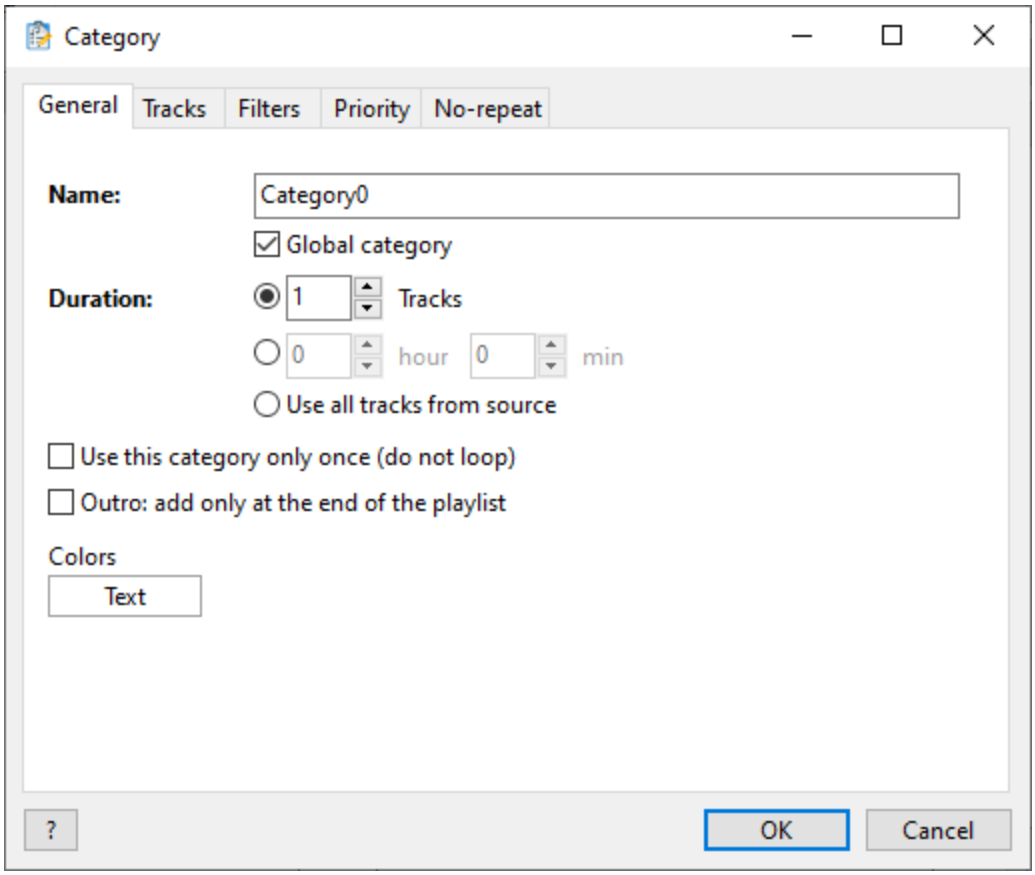

- On the **General** tab, enter a Category **name** (for example, "Music"; this name will be used to display the category in the list), **duration** (e.g. one track).
- On the **Tracks** tab, enter the source of tracks for the Category. It may be a folder, playlist, music library, or track — whatever better suits your needs. RadioBOSS will select the appropriate number of tracks from that source.
- For the **Station ID** category, turn on the **Ignore all "do not repeat" rules** option on the **No-repeat** tab. It is recommended to check this check box for jingles, sweepers, station IDs and other non-music tracks.
- Click **OK**.
- Create other categories in a similar fashion.

Once all categories are created, define the rotation. To do that, select a category in the list and click the right-arrow button (you can also drag-and-drop a category). The category will be added to the Rotation window. To change the order of categories in the list, use the up-arrow and down-arrow buttons. To delete a category from the list, use the "–" button. To move categories within the list, drag-and-drop them using a mouse.

In the example above, the following rotation will be created:
* Top100
* Station ID
* Music
* Station ID

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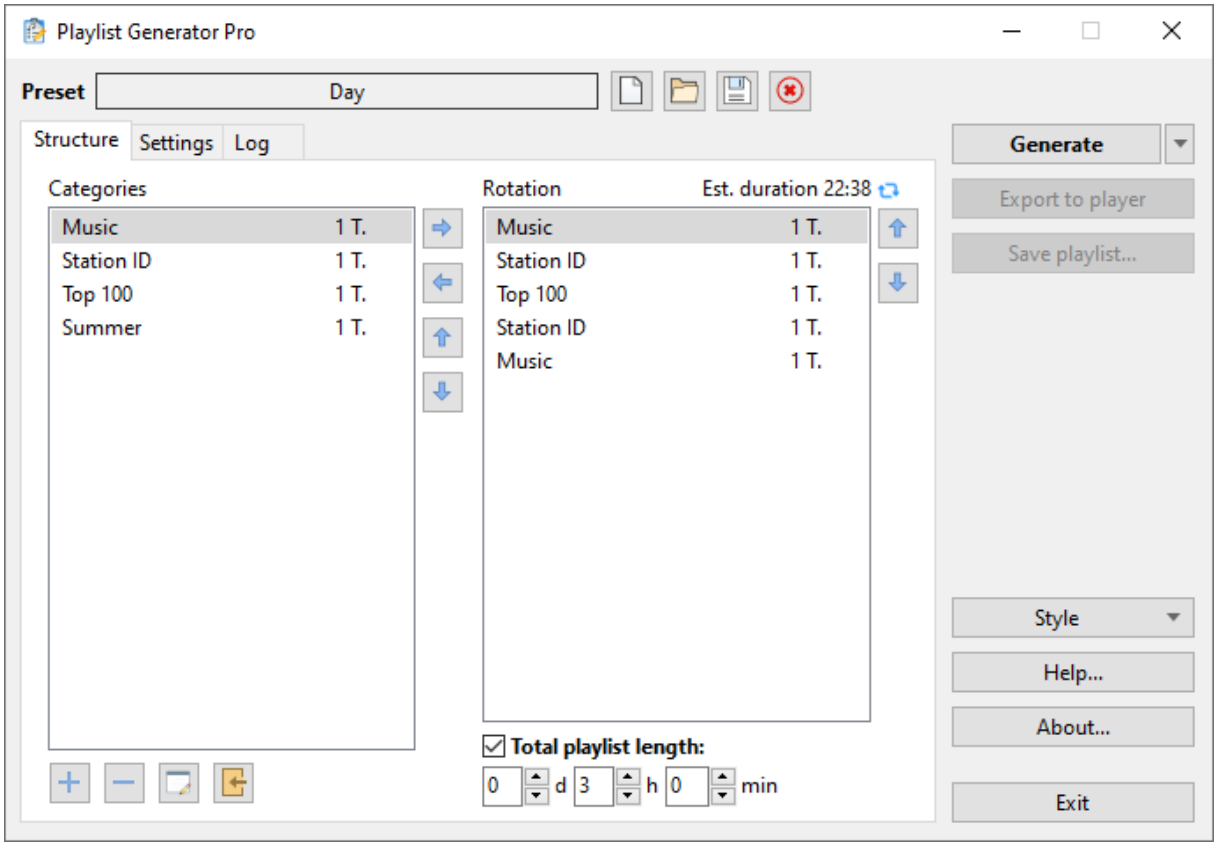
* Music
* Station ID

In the example, we needed a eight-hour-long playlist, so we checked the **Total playlist length** check box and set the corresponding parameter at 8 hours 0 minutes. (If the check box were unchecked, the generator would go through the Playlist Structure only once, and then the playlist generation would be finished.)
When the **Total playlist length** check box is checked (as in the example), the generator will repeat the pattern (cycling through the Playlist Structure) until the desired duration is reached.

In the end, you should see something like this:



Est. duration - shows the time of one rotation cycle.
Total playlist length - shows the total time the playlist is set to play.

On the Settings tab, you can set various no-repeat rules to improve the resulting playlist.

To save the **Preset** for future use, click the **Save** button in the top of the window. To rename a preset, right-click its name. You can use the saved **Preset**, for example, for automatically scheduled generation of playlists.

To create a playlist, click the **Generate** button. The **Log** tab will open, where you can see the generation progress, errors, and the resulting length.

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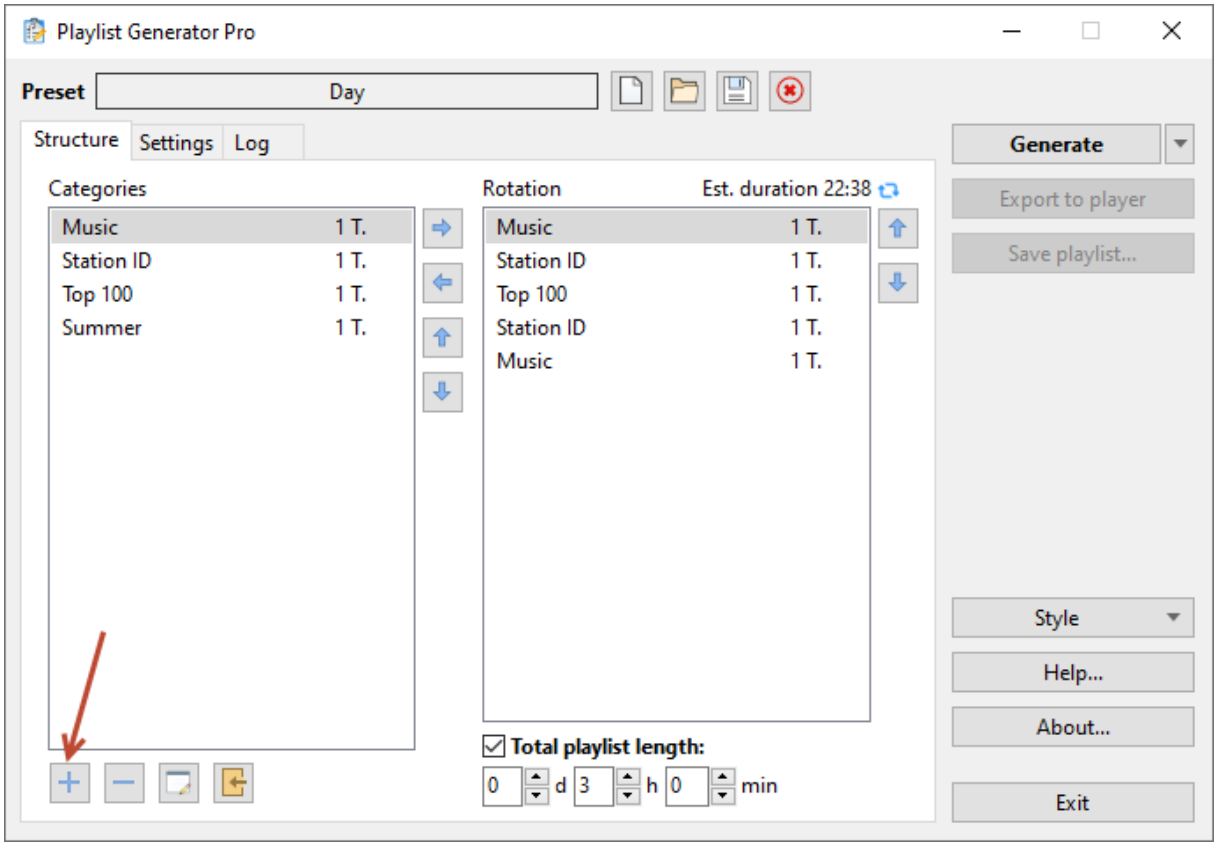
To load the playlist into RadioBOSS right away, click the **Export to player** button.
The **Save playlist** button saves the created playlist to a file.

To create several playlists at once, click the down arrow next to the Generate button and select **Generate multiple playlists...**. More about creating several playlists.

See also
Command line interface
Playlist Generator Pro Settings
Categories

4.3.1 Categories

To create a category, click the "**+**" button under the list of categories:



The category window will open.

Category Settings:
General
Track sources
Filters
Priority
No-repeat

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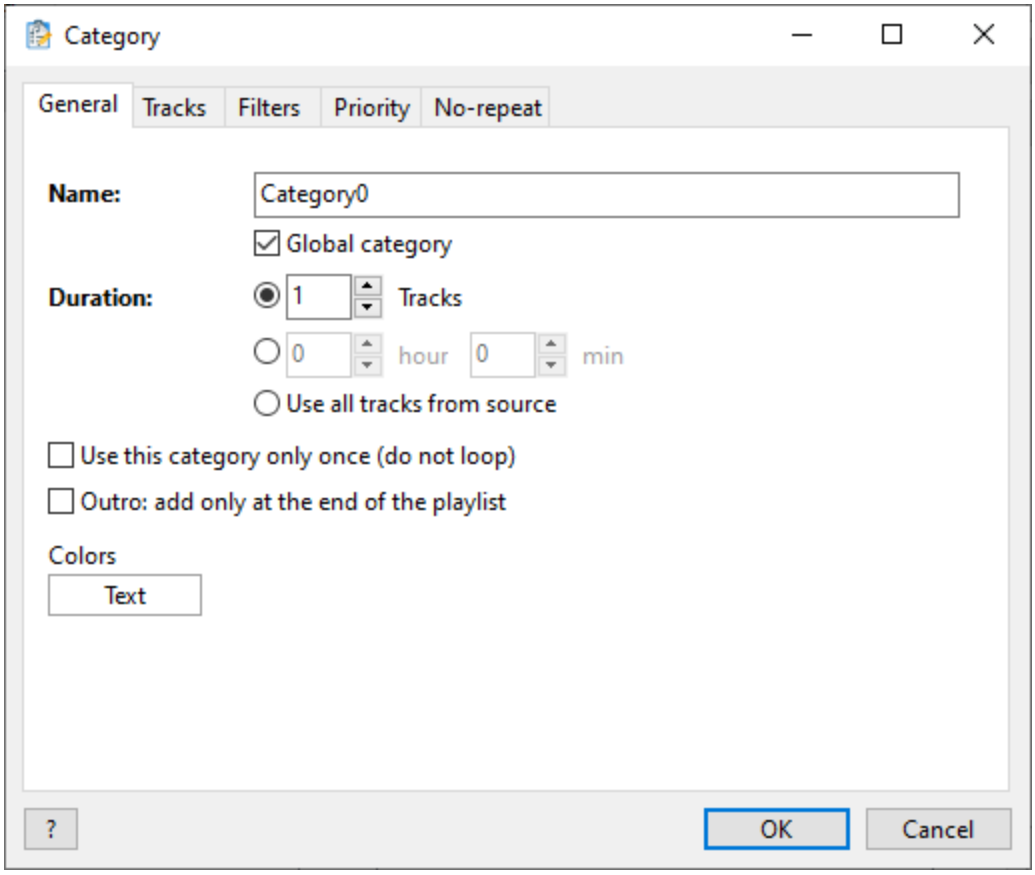
4.3.1.1 General



Name - name of the category, the category be shown on the list under this name – for instance, "**Music**"

Global category - if checked, this category will be accessible in all other presets, otherwise, it will only be private for this preset. Enabled by default.

Duration - the number of tracks or minutes that will be taken from the category during each rotation cycle.

Use all tracks from the source - all source tracks will be used every time.

Use this category only once (do not loop) - this category will be used only once (during the first rotation cycle).

Outro: add only at the end of the playlist - add the track(s) from the category at the end of the playlist only.

4.3.1.2 Track sources

At the top of the window, select category source type: **Tracks** or **Categories**.

Tracks

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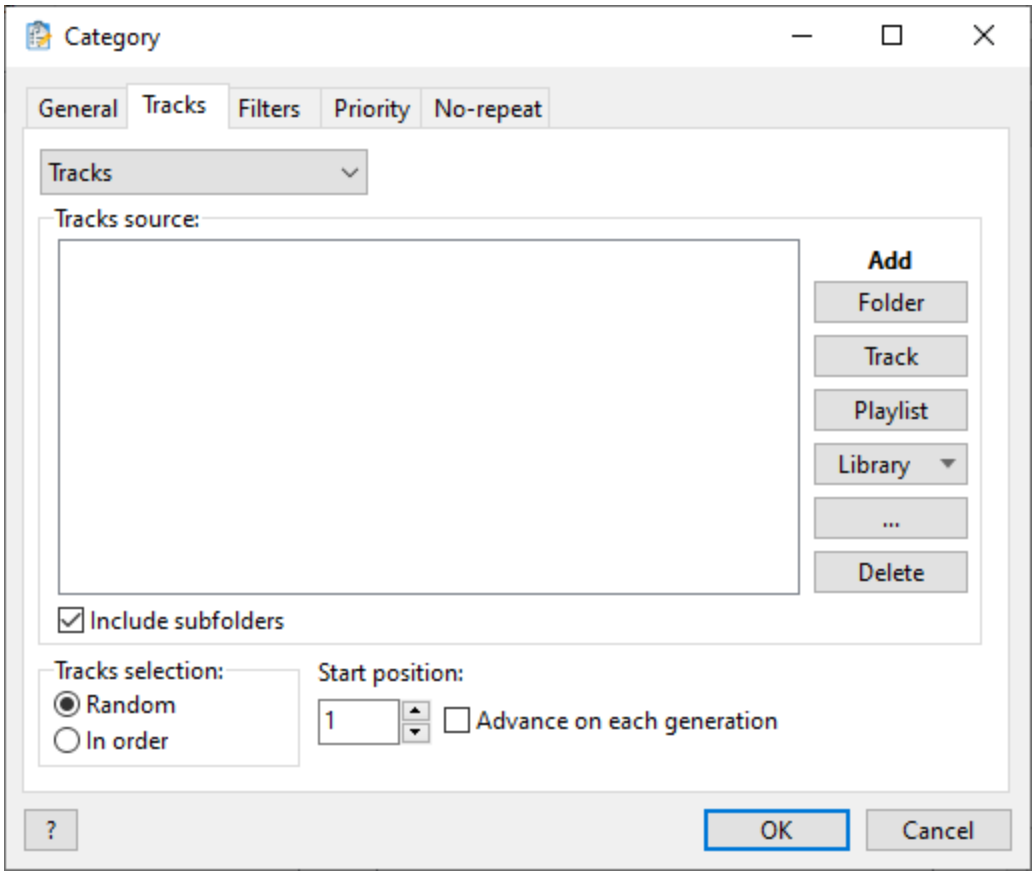

Select the tracks for this category. This can be a playlist, a folder, a music database, a set of single tracks. Several different sources can be used.

You can use special tags (**file name templates**) in file names that the program will replace with corresponding values. Please see the **file name templates** section on the Event page. Use the **?noeval** tag to prevent template being processed by the playlist generator (in this case, template will be processed upon playlist playback). To enter macro values, select an entry in the **Tracks source** list, press "**...**" button and select "**Edit item**" option.

Tracks can be selected **randomly** or **in order**. In the latter case, tracks in the source are sorted alphabetically. In case of **Random** selection, settings on the Priority tab affect how selection will happen. If there are no priority rules enabled, it will shuffle the list of tracks and try to select each one before repeating. If there's at least one priority rule added or priority by rating enabled, selection will be pure random.

Start position - sets the initial track position in the source. This track will be the first to be selected when the "In order" option is enabled. This function is used for publishing materials that consist of several parts (such as lectures, for example). The "**Advance on each generation**" setting increases the starting position for the next playlist generation (so that the next part is used when a new playlist is created).

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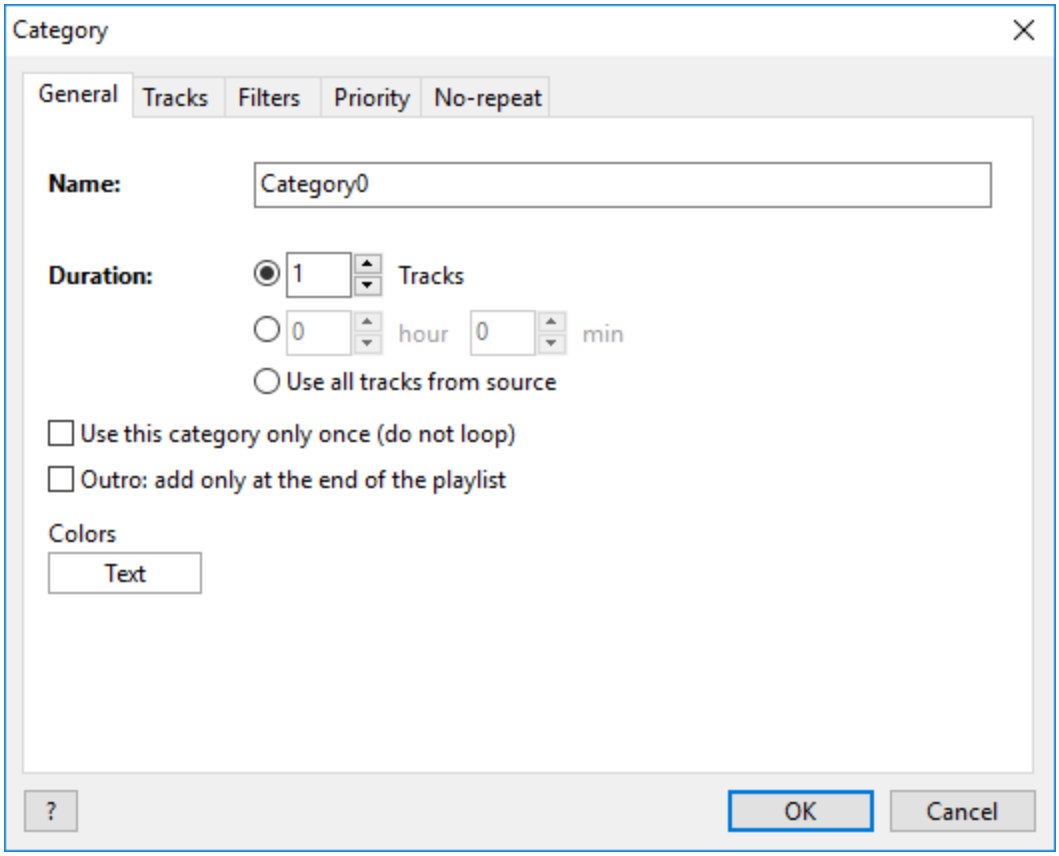
Categories



When the source type is set to Category, other categories are used as a track source. Several categories can be added as a source, with different weights. On each track selection, it will select a random category and get one track from there. Weight determines the probability of a category being selected, e.g. category with a weight of 2 is two times more likely to be selected than a category with a weight of 1.

Example:
CategoryA has weight = 1
CategoryB has weight = 2
That means, the CategoryB has twice a chance of being selected for the playlist, compared to the CategoryA. For example, if 100 tracks are selected, the result have ~34 tracks from CategoryA and ~66 tracks from CategoryB.

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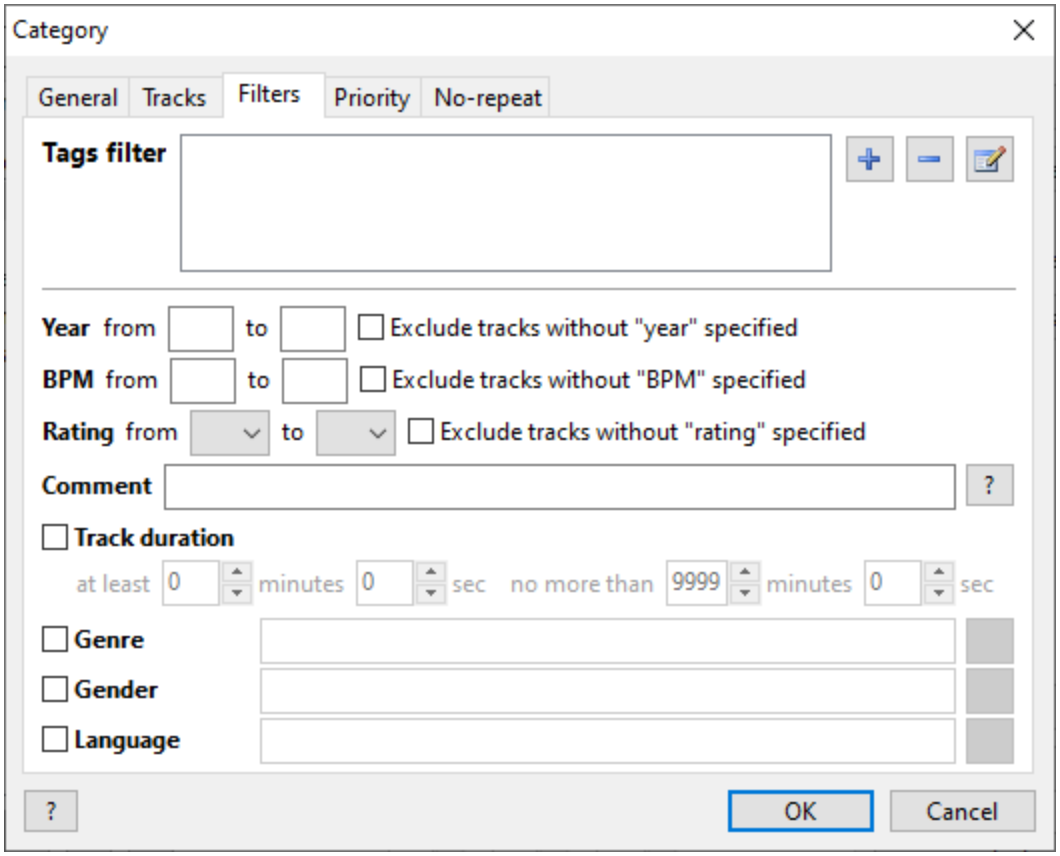
4.3.1.3 Filters



On the "**Filters**" tab, you can set additional filters for tracks, such as year, rating and track duration. Filter values work **inclusively**.

Tags filter
Rules to filter tracks by Tags. In order to pass the filter, a track must match all the defined rules.

Filter by year
For the filter by year, you can use **now** and **prev**, which is current and previous year, respectively.

Filter by comments
It is recommended to use the **Tags filter** instead of the comment filter. The comment filter is an obsolete feature we keep for backward compatibility.
Show details
One or several words are defined in the filter. If any of them is found in a track's comments, the track will pass the filter. You can also define mandatory words using the REQUIRE keyword. Exclude tracks using the NOT keyword. Keywords in track tags should be separated with a comma (,) or semicolon (;): **slow, moody, 80s**.

For example: **bass, synth, REQUIRE 90s, NOT slow** - select tracks containing **bass** or **synth** in comments, definitely contain **90s** and do not contain **slow**.

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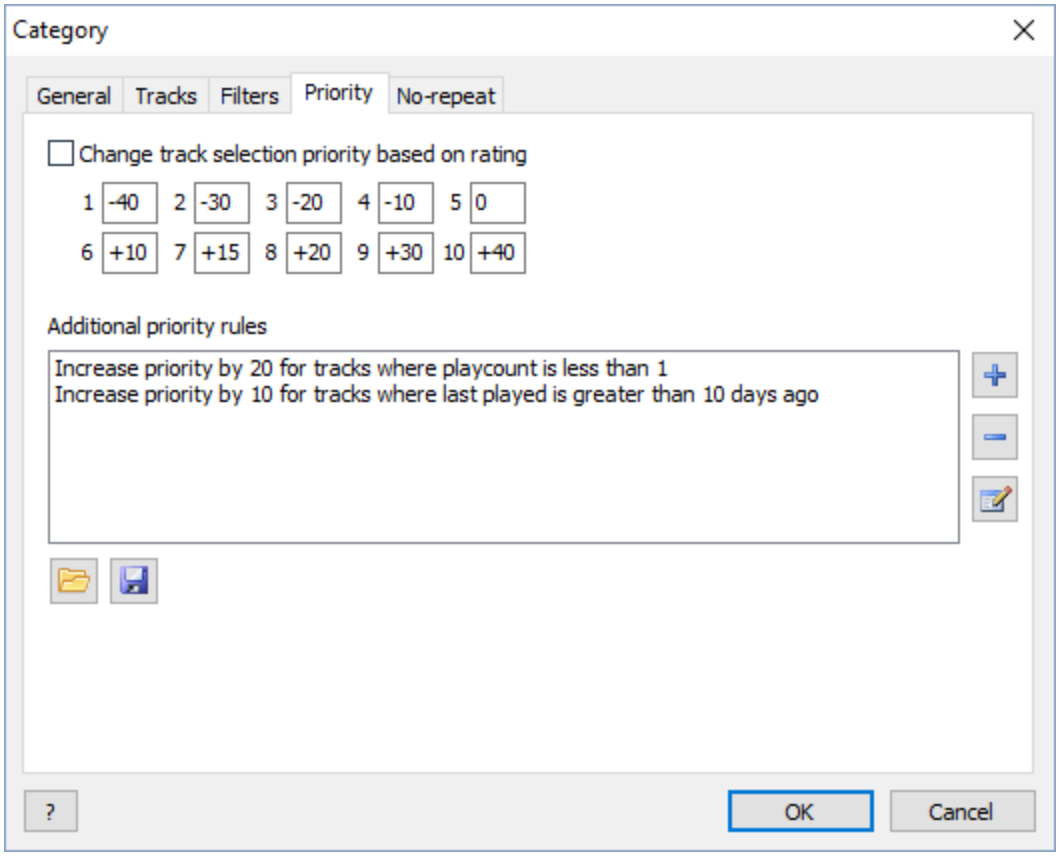
Filter by genre
One or more genres are defined for track selection. To select several genres, list them through a comma: **pop, rock** (in this case, Pop or Rock tracks will also be in the category). Tracks without a genre are excluded.

Filter by gender
Filter tracks by the "Gender" field. You can specify multiple options by separating them with a comma.

Filter by language
One or more languages are specified for track selection. To specify multiple languages, they must be separated by commas.

4.3.1.4 Priority



The "**Priorities**" tab lets you configure extended track selection rules. Priority represents the odds of a track being added to the playlist.

Track **priority** is calculated automatically and is based on the set rules. Each track has a **base priority of 50**, which corresponds to a "standard" chance of being put on the playlist. Values under 50 lower this chance, and values over 50 increase it. Priority **values range from 0 to 100**. Thus, **0** translates into a very low chance of making it to the playlist, while a value of **100** makes a file three or four times more likely to appear there (compared with the base priority of 50). Priority values below zero exclude the track completely.

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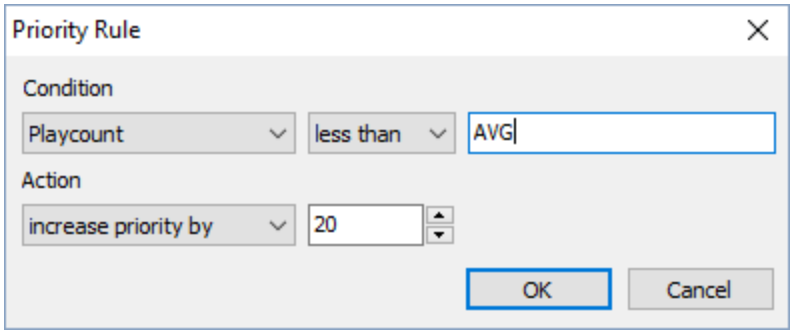
Priority rules change track priority based on track properties, i.e., **playcount, year, last played, date added,** and **genre**. For instance, for a track that hasn't been played in a while , you can give it a better chance of being added to the playlist. This chance can be lowered for unpopular tracks.

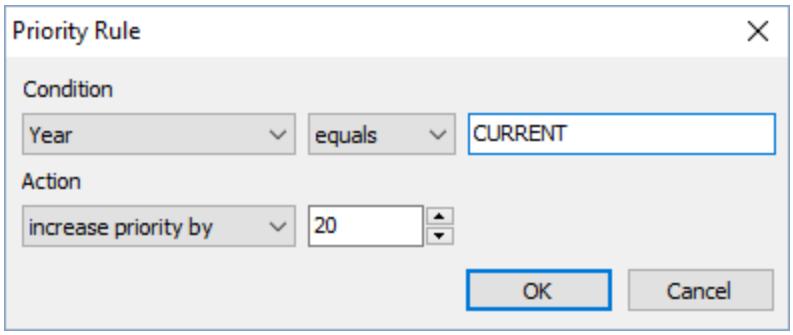
Priority rules based on Tags are processed as an AND operation (a track must contain/not contain all the selected tags)

Date added / **Last played** rule: specify the number of **days** and condition (less than, more than, equals). For instance, a rule "Date added less than 10" will be applied to tracks that were added to the Music Library less than 10 days ago (non inclusive). Fractional values are also accepted, e.g. **0.5** means half of the day - 12 hours.

Playcount rule: you can use the **MIN**, **MAX**, and **AVG** (minimum, maximum and average) values for the "**Playcount**" rule. For example, you can set a higher priority for tracks whose number of playbacks is fewer than AVG (average).



Year rule: you can use the **NOW** or **CURRENT** to specify the current year, and **PREV** or **PREVIOUS** to specify the previous year. You can use simple calculations such as: **CURRENT-1** - previous year.



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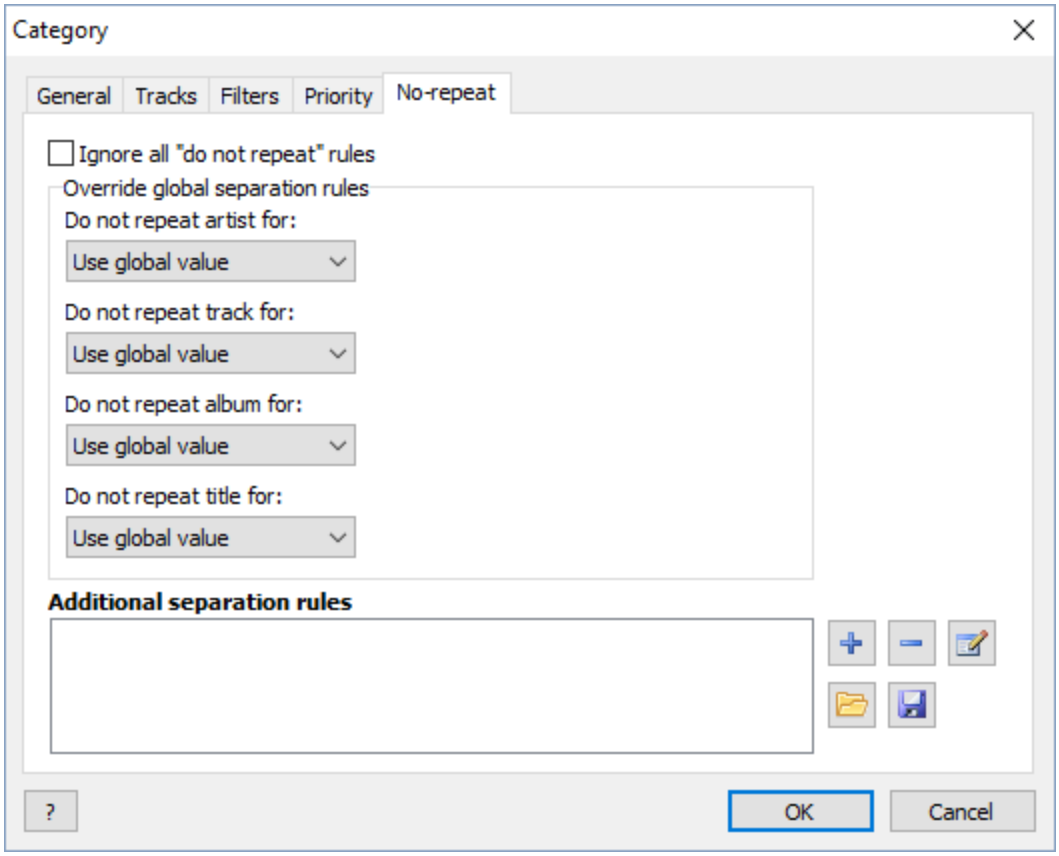
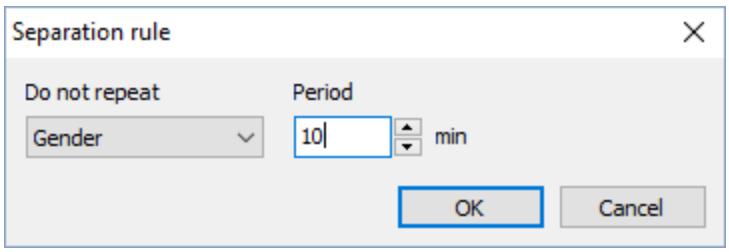
4.3.1.5 No-repeat



The "**No-repeat**" tab can be used for redefining the global non-repeat settings for an artist, track, album, and track name, and set additional no-repeat rules (year, genre, language, gender).

For jingles, station-related information inserts and non-music tracks, we recommend enabling the "**Ignore 'Do not repeat artist/track' options**" option.



Related topics:
Repeat protection rules

4.3.2 Settings

To improve the quality of the playlist, you can configure different repeat playback protection rules on the "Settings" tab:

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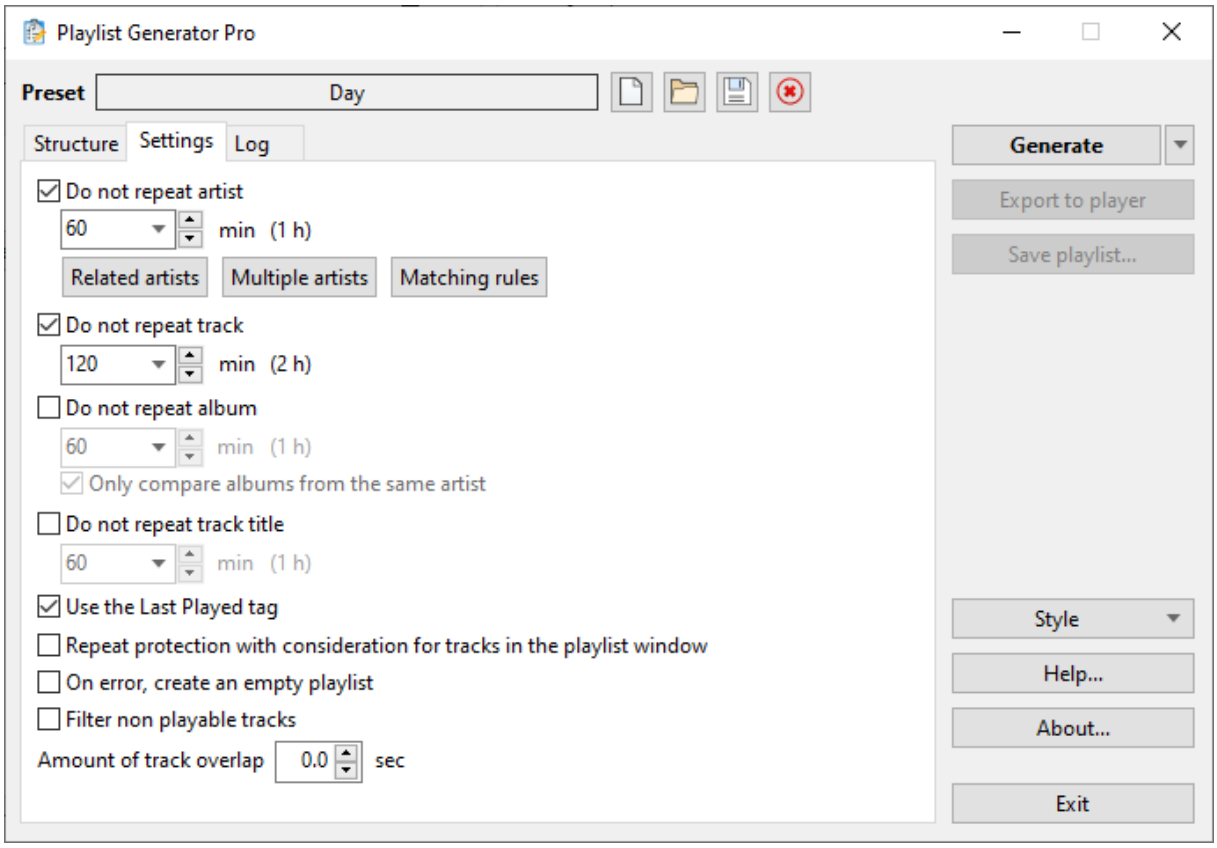
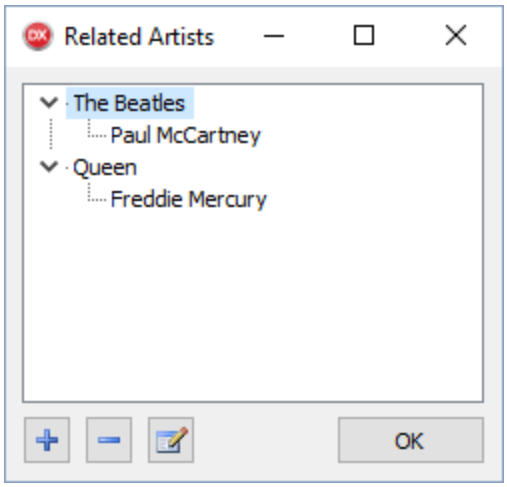


Do not repeat artist for ... - sets the period of no repetition for a particular artist, in minutes.

Related artists - allow you to prohibit the playback of songs by related artists. This option is used in situations where an artists is known under several stage names or when the same artists performs independently and as part of a band. To configure this function, click the "**+**" button in the "Related artists" window, add an artist and click "**OK**". Once done, open (double-click or right-click on "Edit") the new artist and enter related artists, one name per line, in the new window.



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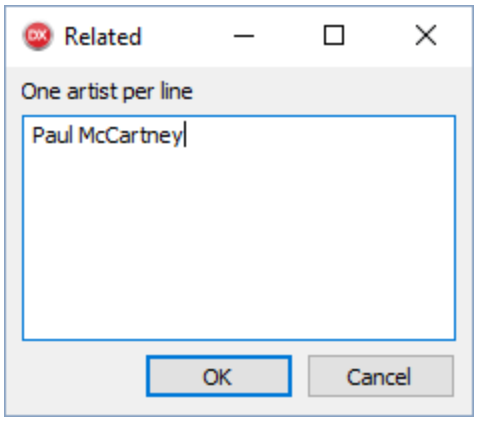
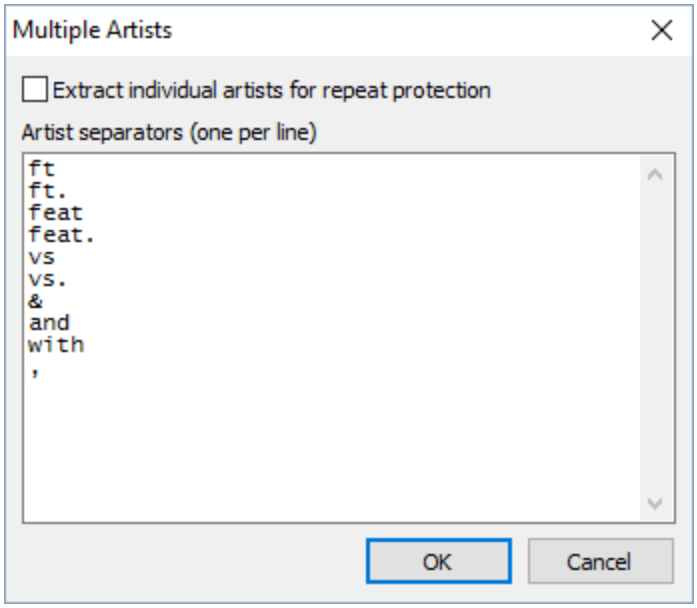


Multiple artists - repeat protection for multiple artists listed through a separator. For instance, if the artist is **Metallica feat. Aphaville**, the individual artists (**Metallica**, **Alphaville**) will not be repeated, including when they are listed with another artist. E.g. **Metallica feat. Michael Jackson** will also be considered as a repeated artist.



Matching rules (Consider artists identical if their names match for ... %) - do not repeat artists with similar names. Adjust the accuracy of relatedness calculation. You can test the feature by clicking the "**Test**" button, entering some artists and seeing how similar they appear, in percent:

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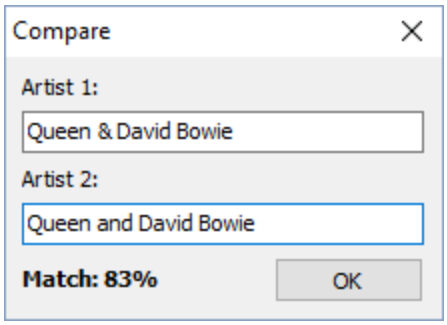

Do not repeat track for... – sets the no-repeat periodicity of a track, in minutes.

Do not repeat album for... – sets the no-repeat periodicity of an album, in minutes.

Only compare albums from the same artist - the "do not repeat album for" rule can only be set for one artist.

Do not repeat title for – sets the no-repeat periodicity of a track name (for instance, in situations when different artists' tracks have the same title).

Use the Last Played tag- activates protection against repeats using the "Last Played" tag.

Repeat protection: Take into accounts tracks in the playlist window - factors in the rule for not repeating tracks that are on the playlist window in RadioBOSS.

On error, create an empty playlist - creates an empty playlist if an error occurs in the process of generating a playlist. If this option is turned off, when error occur the categories can be skipped; in case when there are many errors, the resulting playlist duration can be less that configured. "Error" means that the playlist generator is unable to find a track that meets all the criteria (repeat protection rules, filters etc).

Filter non playable tracks - filters out tracks that can't be played (e.g. corrupted tracks, tracks with zero duration, unsupported file format etc).

Amount of track overlap – consider the duration of crossfades.

Related topics:
Repeat protection rules

4.3.3 Automatic Playlist Generation

This guide will help you automatically generate playlists on schedule using Playlist Generator Pro.

First, create a preset in the Playlist Generator Pro and save it. It is called "Day" in the example.

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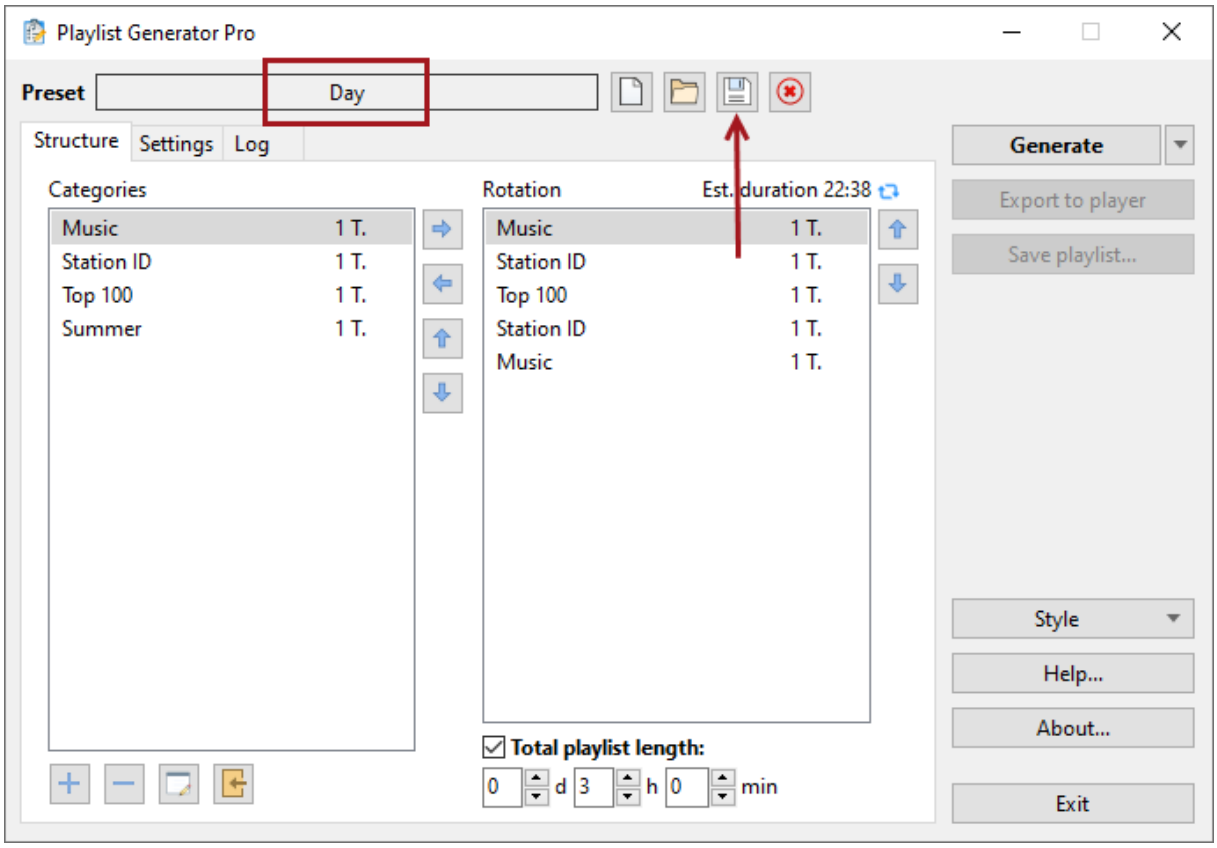

After creating the preset, close Playlist Generator Pro and do the following:

1. Create a new scheduler event in RadioBOSS.
2. Click the Wizard button. Select "Generate a playlist", and then click "Next."

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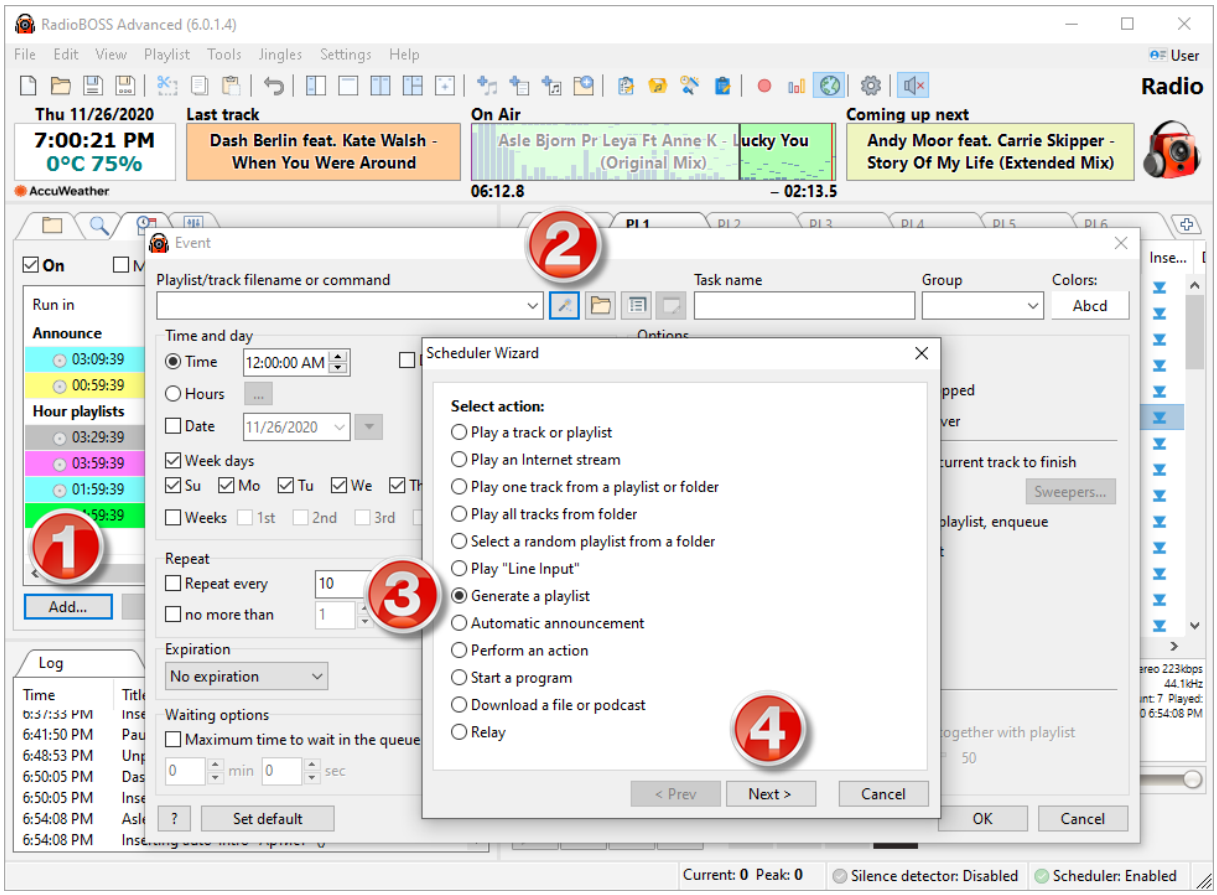

In the wizard window below, select the preset. Click "Next" to generate a command and insert it into the "Filename/Command" field of the event.

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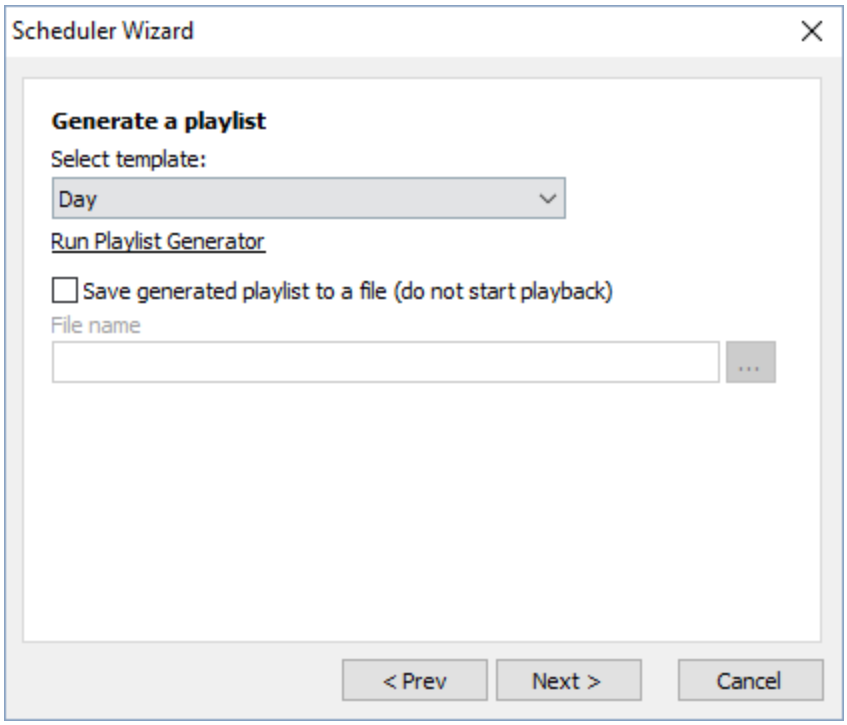

You don't have to use the Wizard each time. The command to generate a playlist with Playlist Generator Pro has the following format:
generate preset_name

Substitute **preset_name** with the preset name you would like to use.

After creating an event, RadioBOSS will automatically generate playlists at the specified time and start the playback.

If you need to create and save a playlist only, without playback, you need to select the option "Save generated playlist to a file (do not start playback) and specify a file name.

4.3.4 Generating multiple playlists

The playlist generator allows you to create several playlists at once. It uses a shared track no-repetition buffer, which makes it possible to use long no-repetition intervals (e.g. several days). To create multiple playlists, select the **Generate multiple playlists** option.

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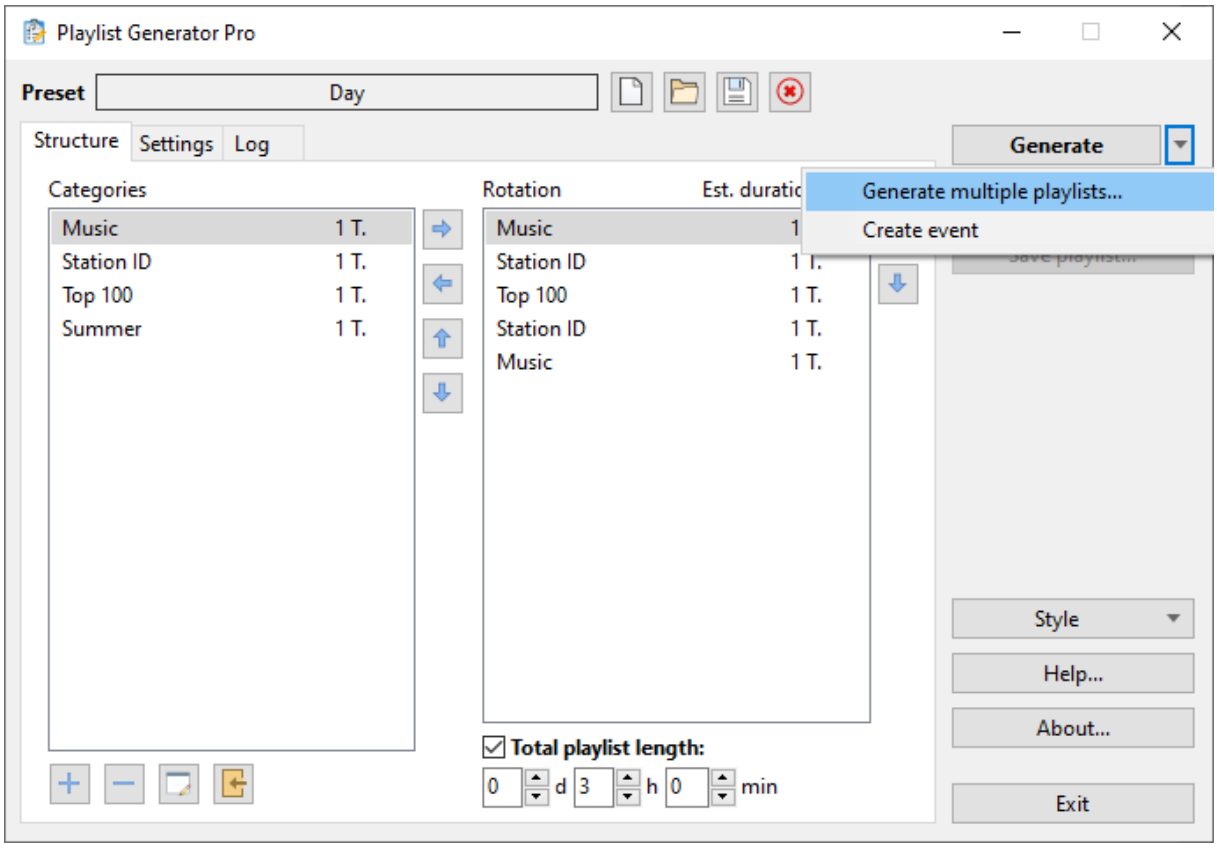
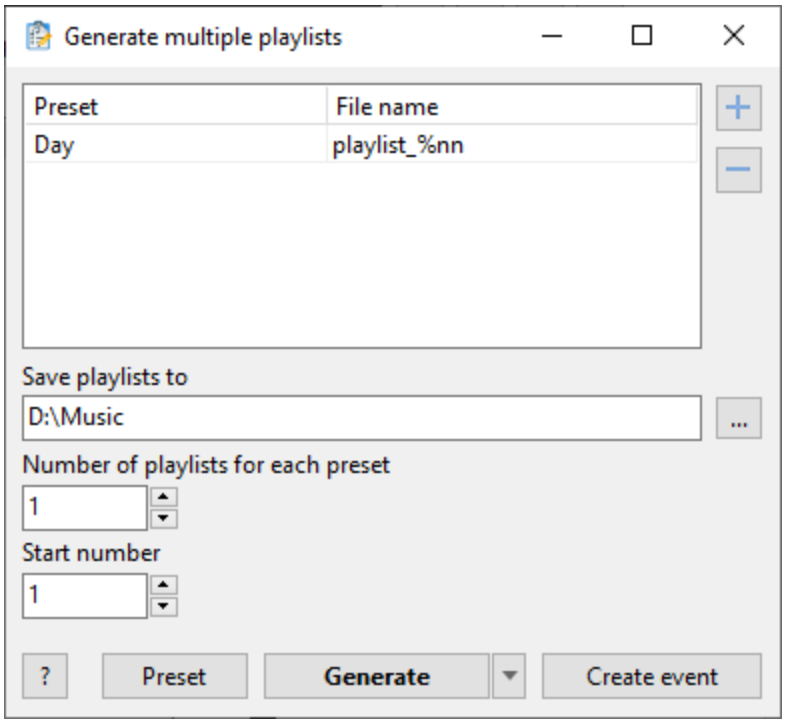


A window with playlist generation options will appear:



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To create playlists, select the presets to be used by clicking the "+" button. For each preset, you need to specify the name of the file it will be saved to. All playlists are saved to a specified folder.

The "Number of playlists" option defines the number of playlists to be created for each preset on the list. If the number of playlists is greater than 1, you need to use modifiers in the file name.

File name modifiers:
%n - a number with no leading zeros (1, 2, ... 10, ... 100).
%nn - a number padded with one leading zero (01, 02, ..., 10, 100).
%nnn - a number padded with two leading zeroes (001, 002, ..., 010, 100)

For example, if you run multiple playlist generation with the "Number of playlists" set to 1 and "Start number" set to 1, you'll have 5 playlists in the D:\Music folder:
D:\Music\playlist_01.m3u8
D:\Music\playlist_02.m3u8
D:\Music\playlist_03.m3u8
D:\Music\playlist_04.m3u8
D:\Music\playlist_05.m3u8

Clicking the arrow next to the Generate button lets you perform some additional actions:

Create event - add an event to RadioBOSS scheduler to create and save playlists.

Copy command line - copy the command line to create and save playlists.

4.3.5 Command Line Interface

Playlist Generator Pro command line parameters

You can use the command line interface to automatically generate playlists and save them to a specified location.

Usage: **PlaylistGeneratorPro.exe -preset=PRESET -out=PLAYLIST [-n=N]**

Options:
-preset= specifies the preset name (multiple presets can be specified separated by "|")
-out= specifies the file name for saving the generated playlist (use a full path with the extension .m3u8) (multiple file names, matching the preset number, can be specified separated by "|")
-n= how many playlists need to be generated (default = 1). If used, the **-out** option need to contain one of the modifiers: **%n**, **%nn** or **%nnn** (see below for more information)
-s= when using "-n", the -s option sets the starting number for playlist naming. Example: **-s=5**

Example: generate a playlist using the MyPreset preset and save it to C:\playlist.m3u8
PlaylistGeneratorPro.exe -preset=MyPreset -out=C:\playlist.m3u8

Warning: If the name of a present contains a space, parameters must be encased in quote marks:
PlaylistGeneratorPro.exe "-preset=My Preset" "-out=C:\Folder name\playlist.m3u8"

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You can use the **run** command in the scheduler together with the command line interface to generate playlists and save them to a specific folder (for example, on a production machine). Unlike automatic playlist generation, doing that will only save a playlist but will not play it.

Example of such a scheduler event (note: there's no need to specify a full path to PlaylistGeneratorPro.exe program):
run PlaylistGeneratorPro.exe -preset=MyPreset -out=C:\playlist.m3u8

Generating multiple playlists in one run (-n option)

Note: when playlists are generated in batch, they share the same no-repeat buffer, which means it's possible to create several playlists for extended periods of time with no repeated tracks.

Example:
PlaylistGeneratorPro.exe -preset=MyPreset -out=C:\playlist_%nn.m3u8 -n=11

Warning: If a command is executed in a **.bat** file, the percent sign must be written twice:
PlaylistGeneratorPro.exe -preset=MyPreset -out=C:\playlist_%%nn.m3u8 -n=11

This command will generate 11 playlists and save them under the names:
C:\playlist_00.m3u8
C:\playlist_01.m3u8
C:\playlist_02.m3u8
...
C:\playlist_10.m3u8

File name modifiers:
%n - a number with no leading zeros (1, 2, ... 10, ... 100).
%nn - a number padded with one leading zero (01, 02, ..., 10, 100).
%nnn - a number padded with two leading zeroes (001, 002, ..., 010, 100)

Generating multiple playlists using multiple presets in one run

The following example creates 3 playlists using the **Morning**, **Day** and **Evening** presets and saving them to D:\Playlists\Morning.m3u8, D:\Playlists\Day.m3u8, and D:\Playlists\Evening.m3u8 respectively. This allows to prepare playlists in advance and then start them when needed.

Note: when playlists are generated in batch, they share the same no-repeat buffer, which means it's possible to create several playlists for extended periods of time with no repeated tracks.

Example:
PlaylistGeneratorPro.exe "-preset=Morning|Day|Evening" "-out=D:\Playlists\Morning.m3u8|Day.m3u8|Evening.m3u8"

You can specify the full path for the first playlist only; in this case, all playlists will be saved to the same folder. You can specify the full path for all playlists.

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4.4 Advertisement Scheduler

You can use the Ad Scheduler to manage advertisements, that is, to automatically create and schedule advertisement blocks.

To launch it, click **Tools** -> **Ads Scheduler**

How to use

First-time setup:
1) On the first launch, open the Settings window. (The application will prompt you to do that, just click Yes.)
2) Set the working folder for saving generated playlists and events.
3) On the **Ad blocks** tab, select the hours and minutes for placing ads. (You can change this setting later.)
4) Click OK.

Operation:
- In the main window, click the **Add** button to add tracks. The tracks will appear in the list. You can also drag the files from Windows folders to the application window, in this case, each file will be added as a separate entry. Ads are edited in the Ads Parameters window.
- To add a track to a block, put a check mark in the corresponding grid cell by right-clicking or double-clicking it, or pressing the space bar. A number will appear that indicated number of ads in the block.
- After filling the grid for each track, click the **Create playlists and events** button. Playlist files for each ad block and scheduler events to start those playlists at specified times will be created. Events can be automatically added to the RadioBOSS Scheduler.
- **Important!** For Start and End settings to work, you must set up an automatic advertisement playlist and events update.
- **Multiple profiles** can be used for different sets of the advertisements (commercial, social, political, etc, each with own settings of intro/outro, blocks and other options).

The **color of ads** in the list indicates their status:
Black – normal state;
Red – the track was not found on the disk;
Gray – the track finished running on the specified date;
Blue – running the track has been planned for a future date;
Light-gray – the track is disabled.

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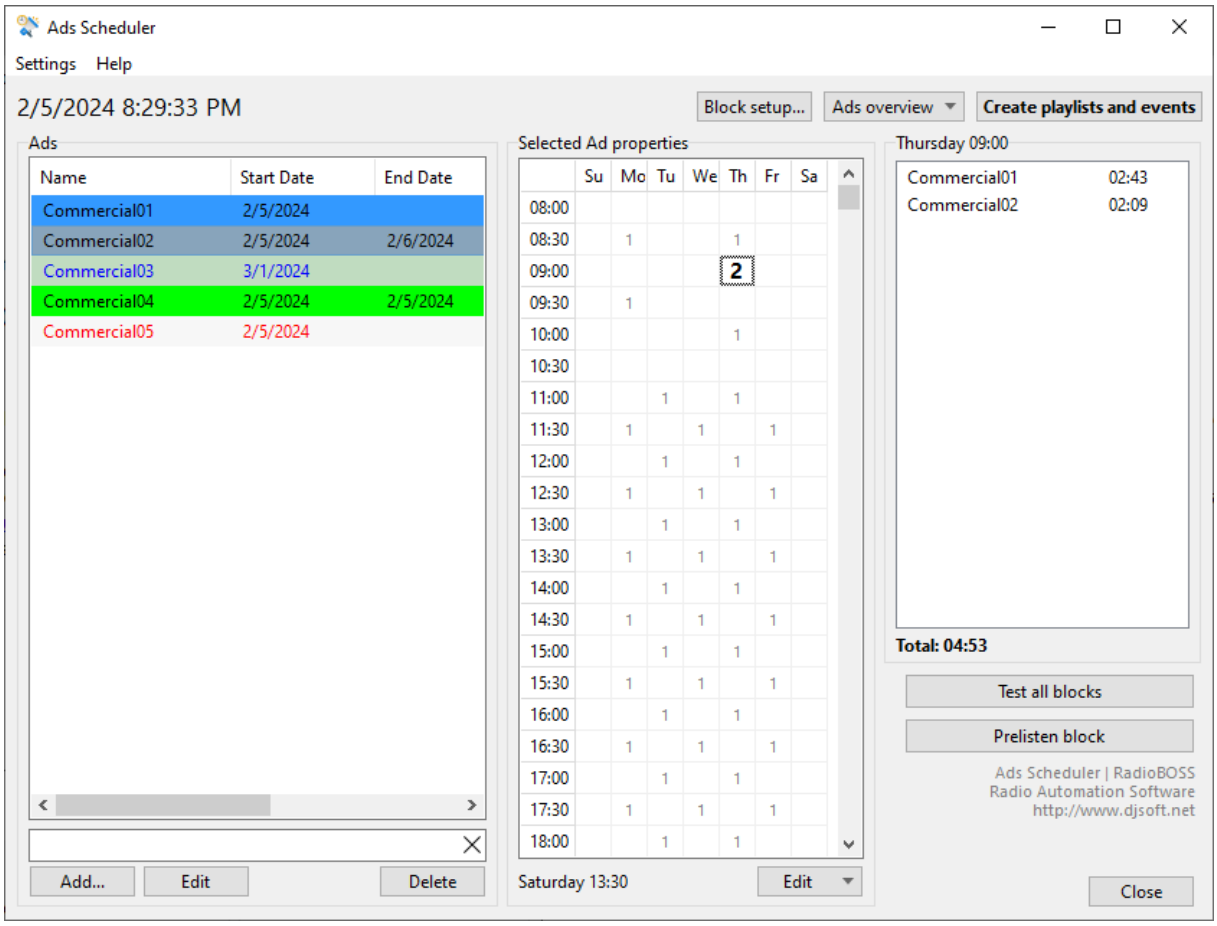

You can save and load grid presets to re-use the same grid for new tracks. To do it, click the **Edit** button below the "Selected Ad properties" grid.

You can access the media plan, that is, view all ad blocks or selected ones only. To do it, click the **Ads overview** button and select the necessary view mode.

You can set the length of ad blocks as desired. Click "**Block setup...**" –> **"Sweepers..."**.

The **Test All Blocks** button allows you to check all blocks. The following parameters are checked: whether there are 2 or more clips of the same type in a row, whether a block exceeds the maximum duration (specified in settings).

When using multiple profiles, the **Create playlists and events** button, as well as **adsupdate** scheduler command will create playlists and events for **all profiles**.

4.4.1 Automatically update ads playlists and events

In order to take into account the settings for the start and end of when commercials are played, you must update the advertising playlists and events from time to time. This can (and should) be done automatically. To do this, click "**Create playlists and events**", and enable the option "**Create event**

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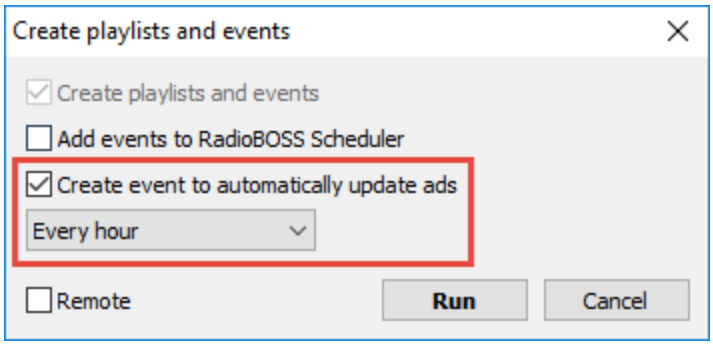
to automatically update ads" in the new window. Choose an update period - every hour or once a day. If you need to run and shoot ads every hour on the nose, they must be updated once an hour.

You can also create an event manually by adding it to the scheduler using the **adsupdate** command or **adsremote** command if using remote ads management.

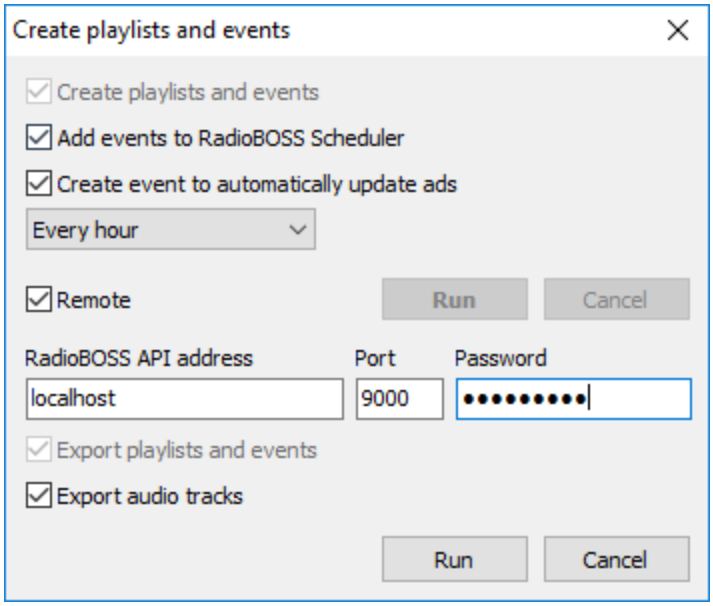


4.4.2 Remote ads management

The Ad Scheduler is able to export ads, playlists and events to a remote RadioBOSS installation.

To use the remote ads management, you'll need to enable API access on the **remote** RadioBOSS installation and set a password.

To export your ads from the Ad Scheduler, click the **'Create playlists and events'** button.



Enable the **Remote** option and enter the connection details:
RadioBOSS API address - enter the IP address of the computer on which RadioBOSS is installed. Enter the **port** and the **password** that were set when the API was enabled.

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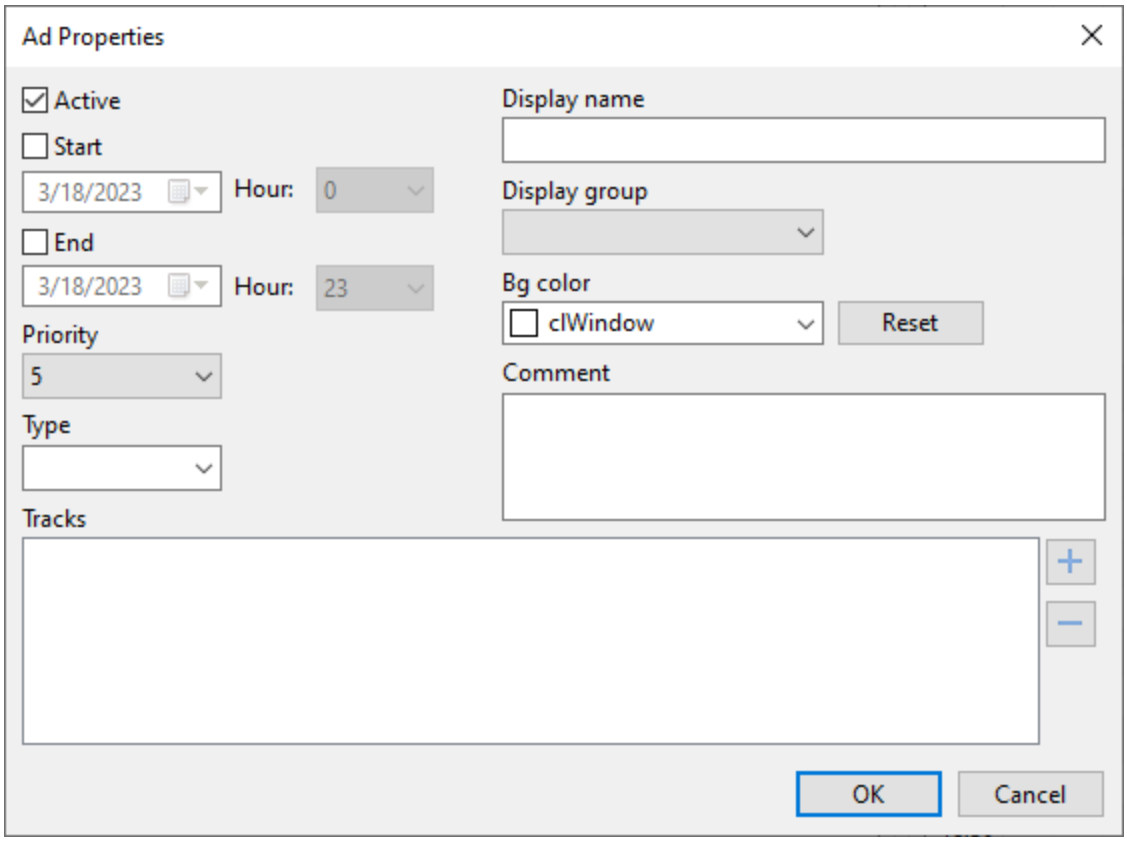
It is recommended to keep **'Export audio tracks'** enabled.

Click the **Run** button to export your adverts, events and playlists to a remote computer.

To update events and playlists automatically, schedule an event with the **adsremote** command. See also: Automatically update ads playlists and events.

4.4.3 Advert parameters



Active - Enable/disable the ad track.

Start - Set the start date and time (inclusive) for the ad track.

End - Set the end date and time (inclusive) for the ad track.

Priority - Set the priority of the ad track on the scale of 1 to 9. The priority defines the position of the track in a block (1 closer to start; 9 closer to end).

Type - Set the type of the ad track. The type is used for showing warnings in case two or more tracks of the same type are placed side-by-side (or example, two pizza commercials in a row).

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Tracks - assigning alternate tracks to commercials. Alternate ad tracks are used when creating blocks. When you add the ad track to a block, the ad track is selected (main or one of the alternate ones).

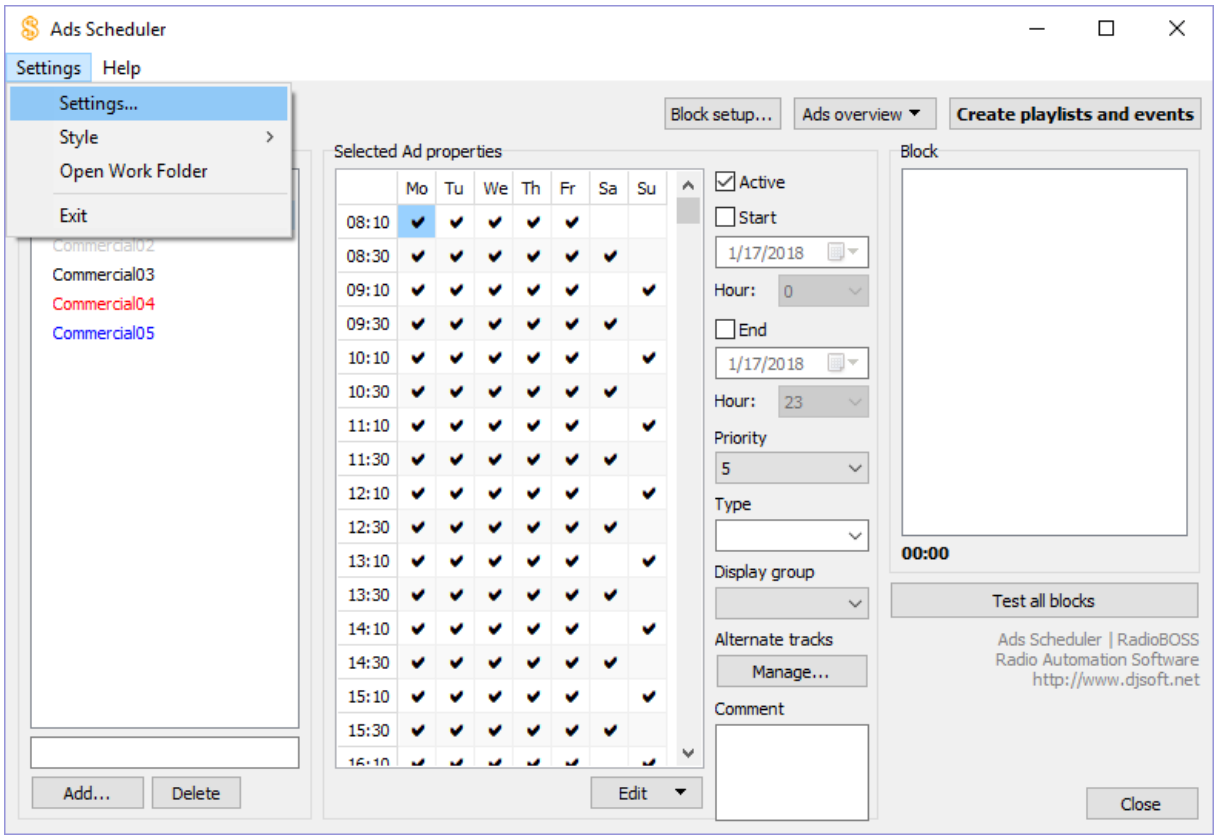
Display group - Select a group to display track in the list.

Background color - Change background color in the ads list for this item

Comment - Write a comment, note for a ad track.

4.4.4 Settings

To open settings window Ads Scheduler in menu click **Settings** -> **Settings...**



Settings:
[General]
[Event properties]
[Ad Blocks]
[Misc]

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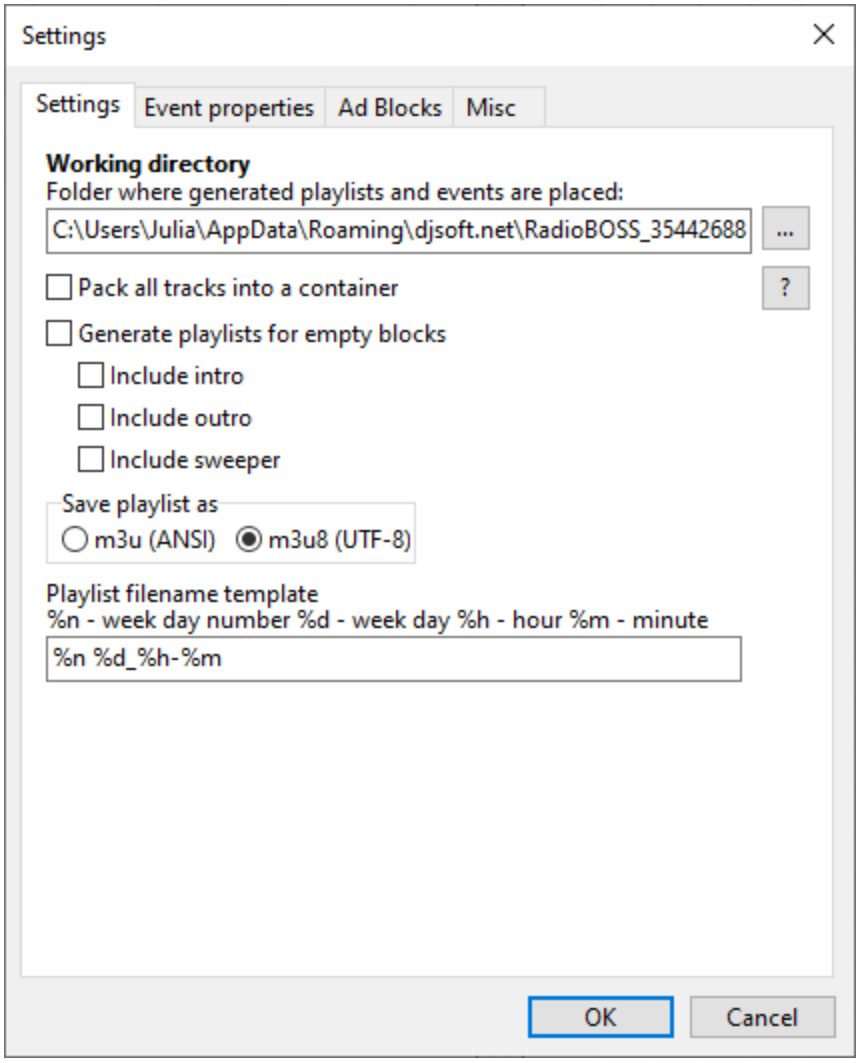
4.4.4.1 General



Working directory - select the folder where created playlists and events will be saved.

Pack all tracks into a container - pack all tracks in the ad block into a container.

Generate playlists for empty blocks - create playlists for blocks that do not have ads. For empty blocks you can **Include intro**, **Include outro**, **Include sweeper**.

Save playlists as - select the format of the saved playlist. Preferably use m3u8 (default).

Playlist filename template - specify file template for created playlists.

4.4.4.2 Event properties

Ad scheduler creates tasks with specified settings.

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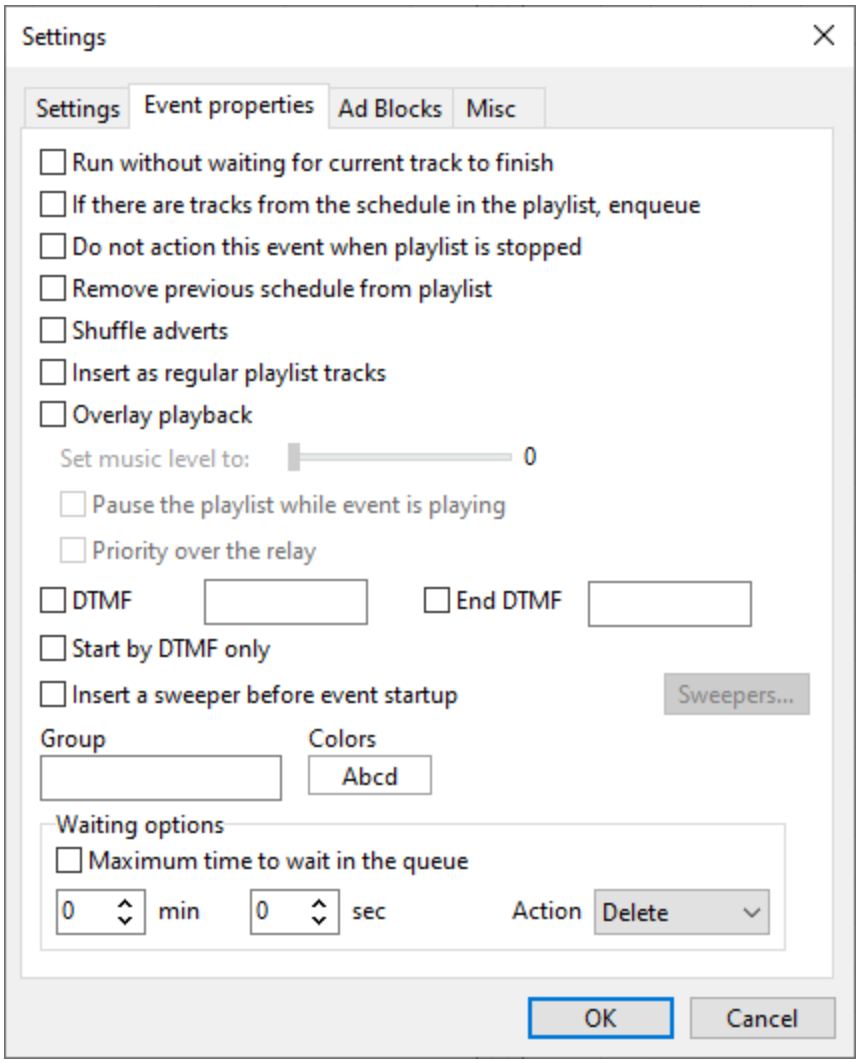

Event properties are identical to the settings in the scheduler.

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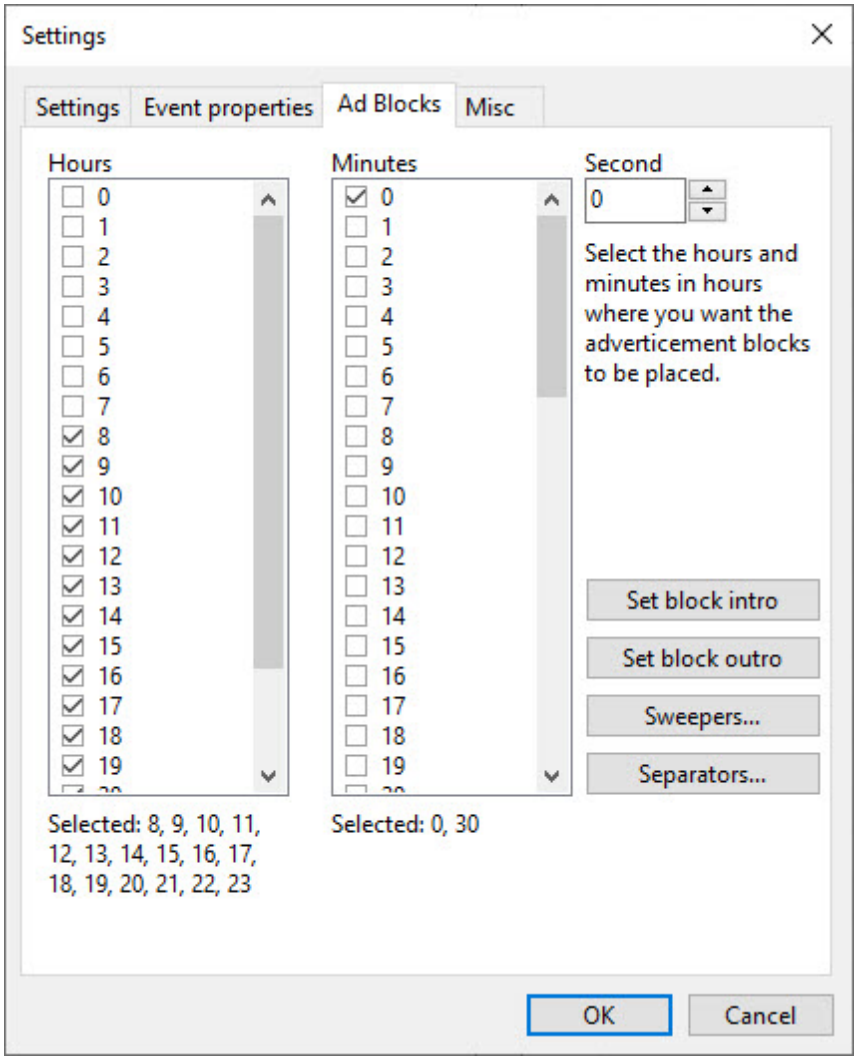
4.4.4.3 Ad Blocks



In the **Ads Blocks** section you can set the time (up to the minute) when you want to launch the ads. The selected blocks will appear in the main window of the ads scheduler in a grid, where each ads can be placed in each block.

You can also **Set block intro**, **Set block outro**, **Sweepers** and **Separators** between ads.

Set block intro, **Set block outro**: set intro and outro for the advertising block. A intro is a track that plays at the beginning of an advertising block, and a outro plays at the end of the advertising block. When selecting **Track list** or **Playlist** you choose one track from a folder or playlist. **Track** button: select a specific track.

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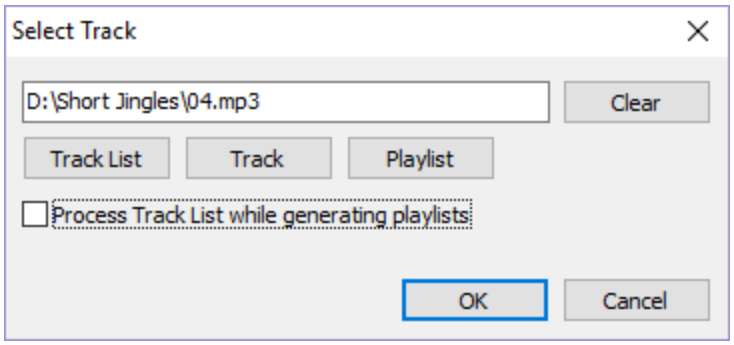
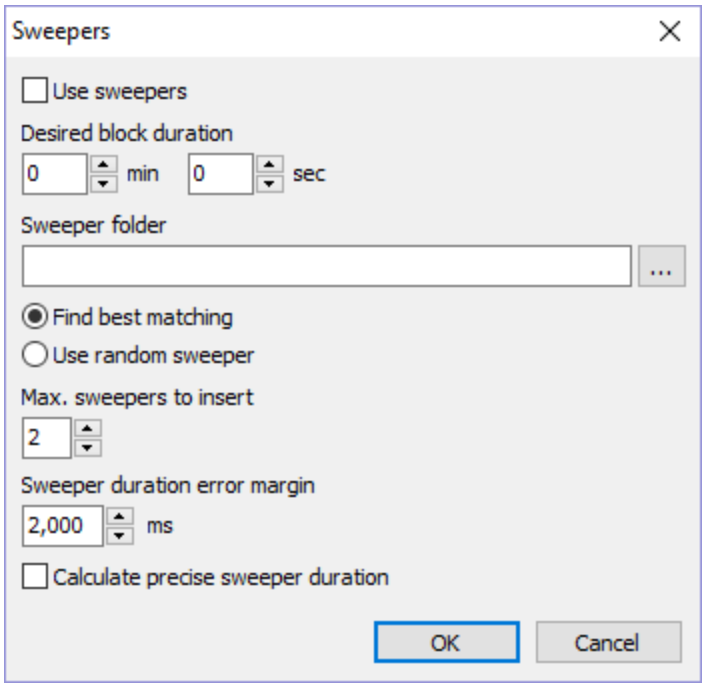
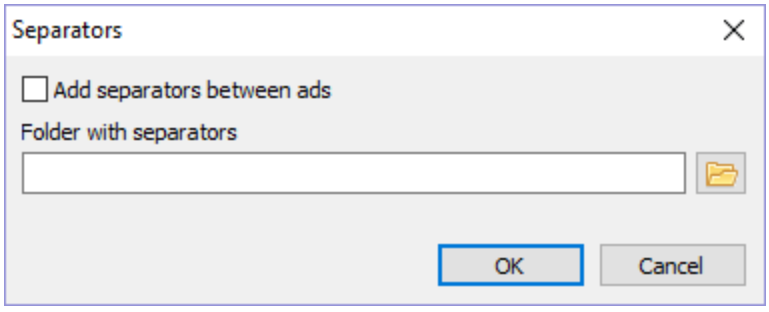


Sweepers: configure additions for padding the advertising block out to the required length.



Separators: insert separators between ads. One ad will be selected randomly from the folder.



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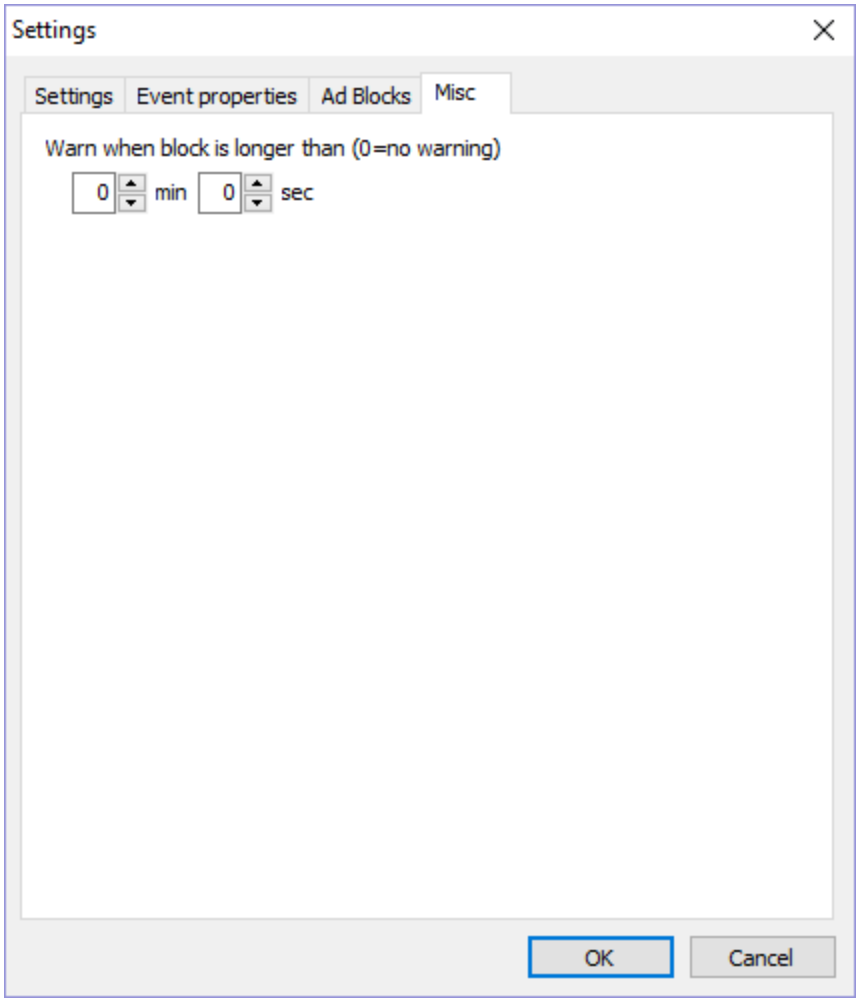
4.4.4.4 Misc



Warn when block is longer than (0=no warning) - specify block duration, upon expiration of which a warning will be issued. Zero - do not show warning.

4.5 Tools

4.5.1 Music Library

The library is used for quick search and to help generate a new playlist in the Playlist Generator.

The library offers tools to help manage a database. For example: The Verify command scans the database for any entries or file(s) that have been deleted from the hard disk, and removes the invalid entries automatically. With the built-in audio player you can preview tracks.

To create a music library:

On the top menu bar click **Music library** > **Open Music Library**

This opens the **Music library** window.

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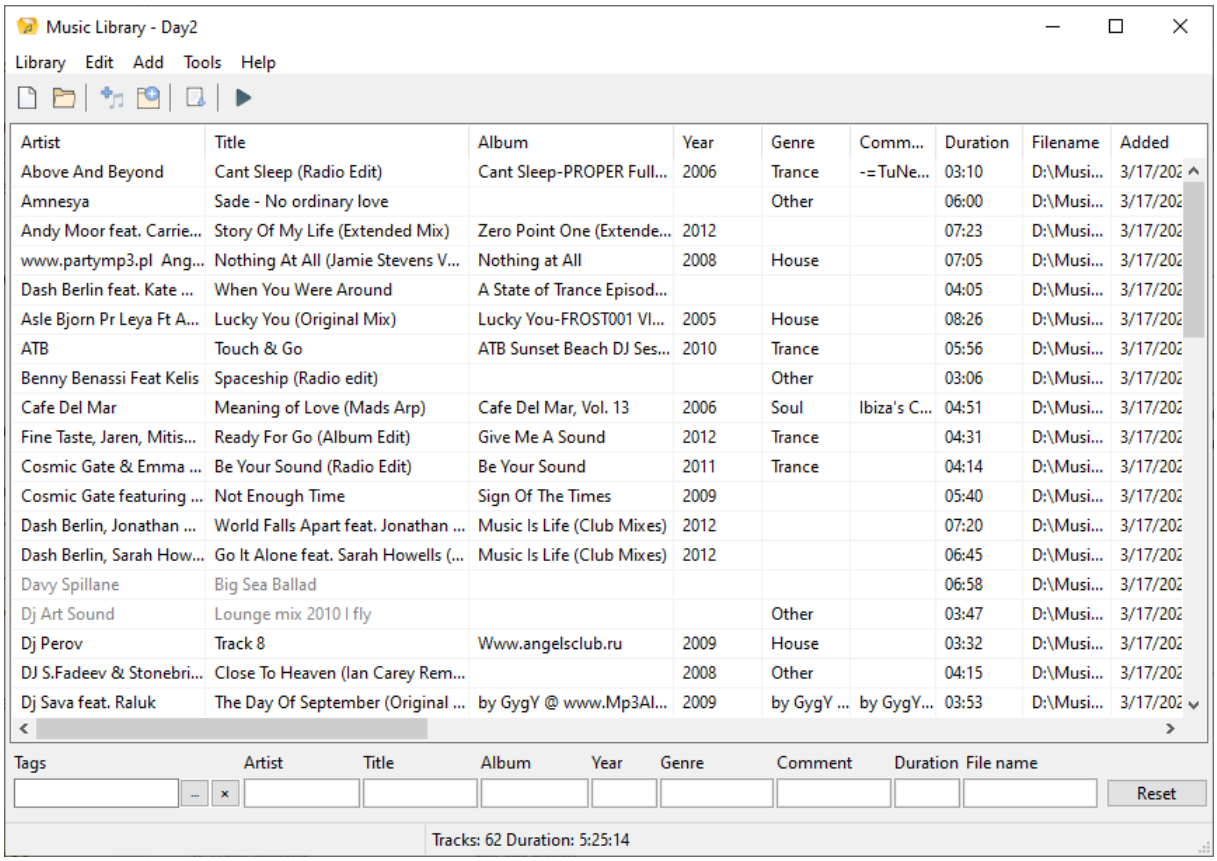

Now you can add music tracks: add single files or folders.

You can perform various actions using the **Tools** menu.
Process tracks – normalize tracks, detect BPM, remove silence, detect Mix and Mix Start points. More about track processing.
Check music tracks – checks audio files for errors, and then displays a list of bad tracks. This option also allows you to check the track's tags.
Schedule automatic library update – creates a task in RadioBOSS to scan the specified folders and add audio files to the database.

User defined fields

The music library allows the definition of up to five custom user fields. Custom fields appear in tag editors (Track Tool and bulk tag editor in the music library) and can also be used in the Report Generator.

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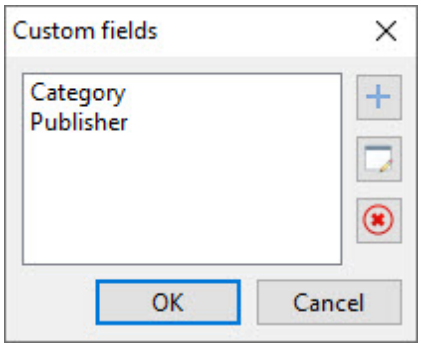

Related topics:
Playlist Generator
Quick search

4.5.1.1 Process Tracks

To process music tracks, open Music Library, in the menu click **Tools** -> **Process music tracks**.

The "Process tracks" window will open. Please note: **Trim Silence**, **Mix**, and **Mix Start** detections are level-based, and normalized level is taken into account when detecting those. If you change target normalization level, or tracks were not normalized before - after normalization you should re-run Trim silence, Mix and Mix scan to update them based on a new sound level (the "Skip tracks with [...] set" options must be unchecked in all blocks).

When detecting **Mix point**, the value of "Mix point" set in the Crossfading settings for music, is used as a minimum value (in case detected value is lower).

At the top of the window, you select what tracks to process: all tracks, or only selected tracks. Please note that only tracks that present in the list are processed: if you used filters, only filtered tracks will be processed, not the entire library.

Important! **Mix Start** requires **Start** mark to be set (run **Trim Silence** processing, or set it manually with Track Tool).

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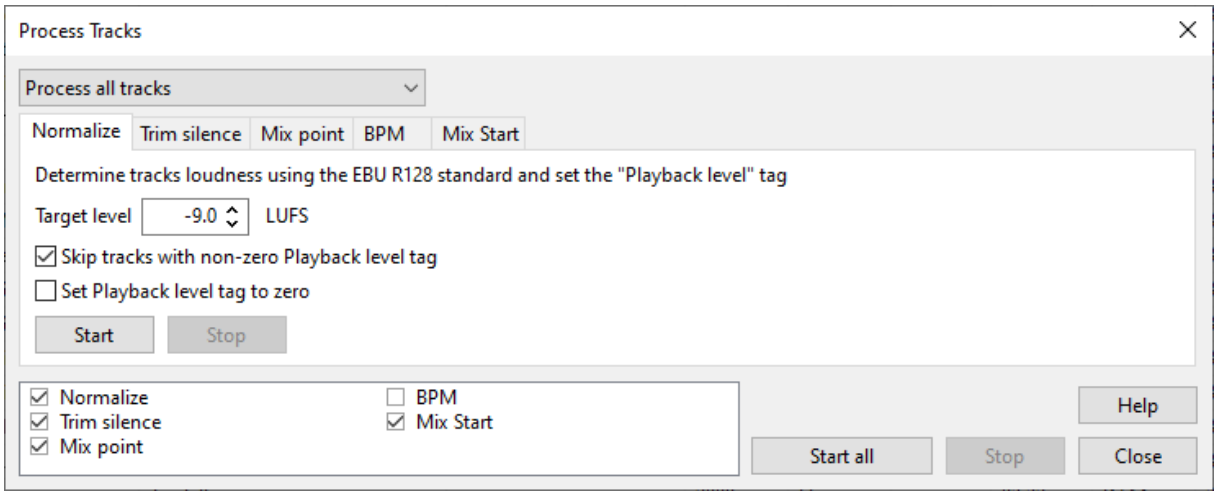

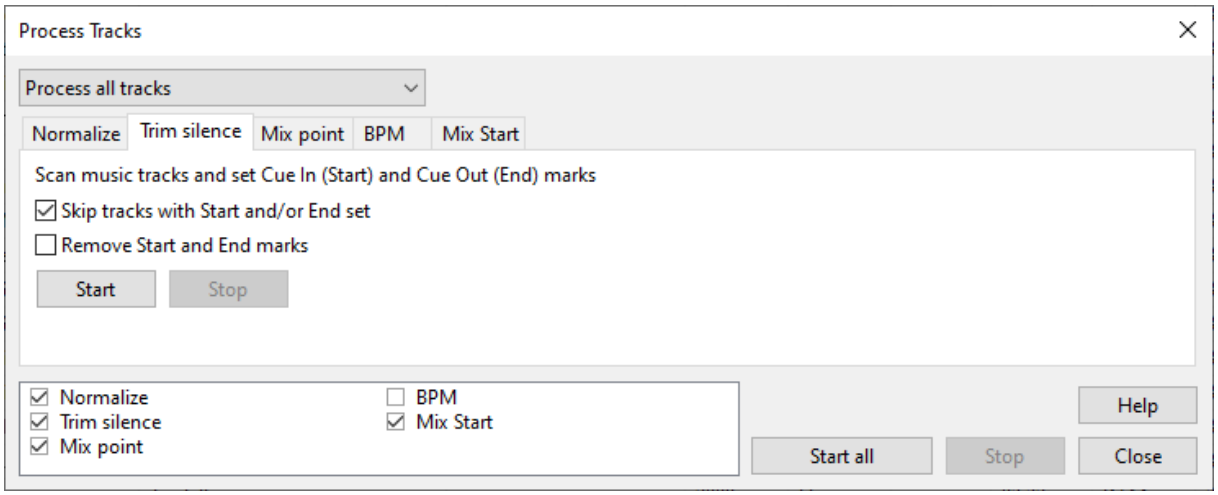

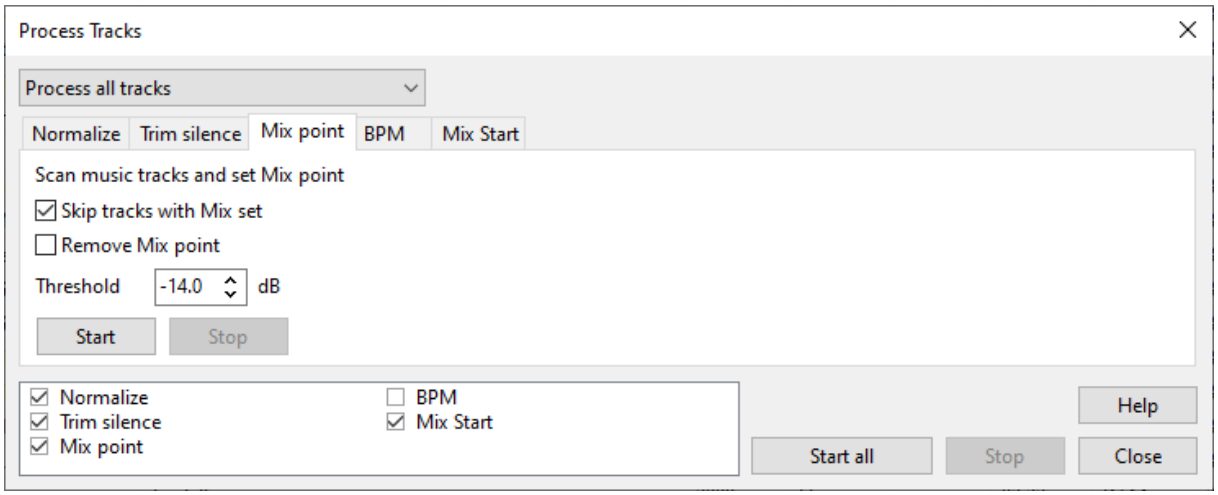

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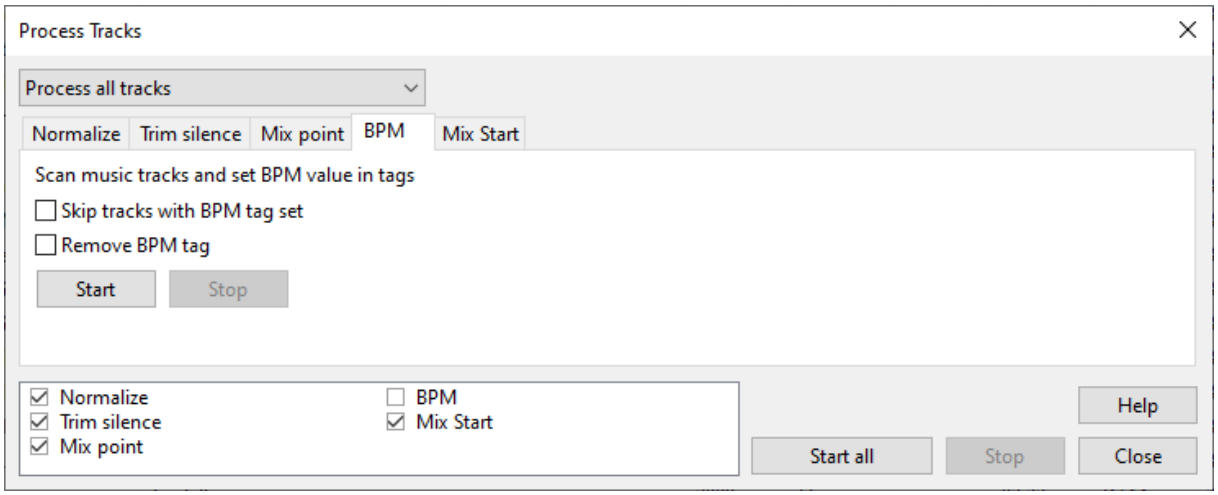

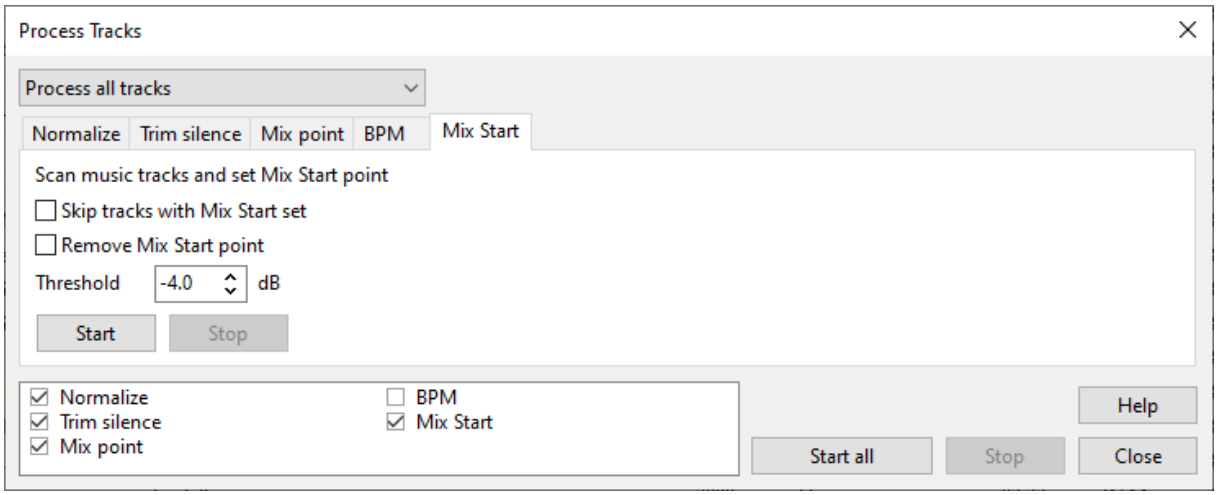

Related topics:
Track Tool

4.5.2 Report Generator

RadioBOSS has a tool to generate ready-to-print reports of what was played.

To open report generator click **Tools** -> **Report Generator**

Report Generator:

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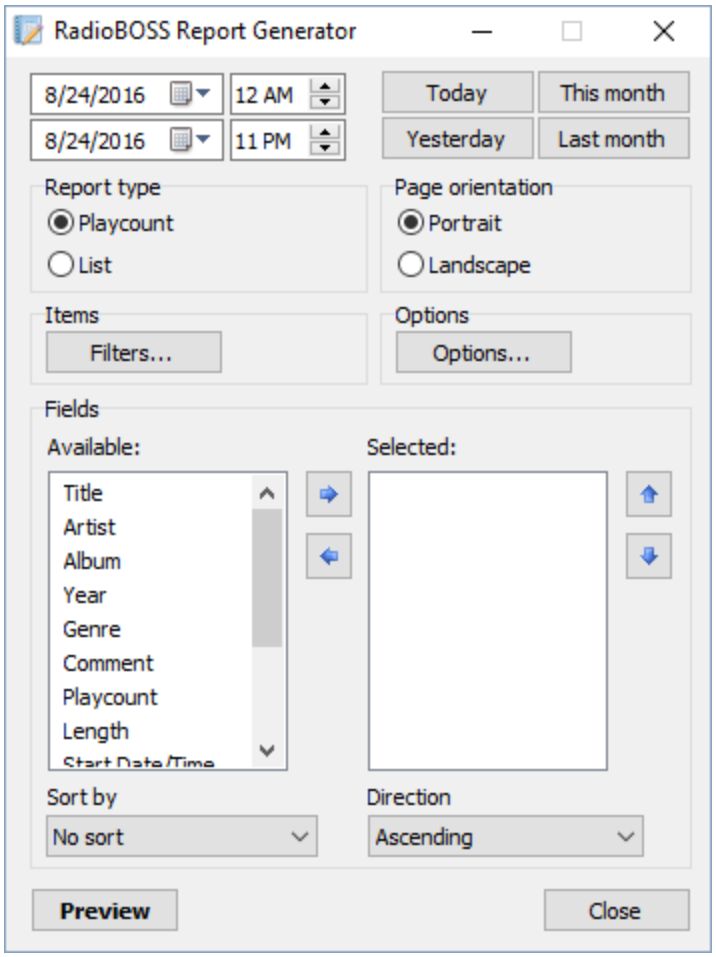

In this window you select report period (start and end dates), report type and report fields: title, artist, album, year, genre, comment, playcount, length, etc.
Report type:
Playcount - each track will appear in report once but will show how many times it was played
List - will list all played tracks

The report can be sorted by set criteria. To apply sorting, select the Sort by (Artist, title, album, year...) and Direction (Ascending or descending) fields.

Set the fields you want to see in report: move fields from Available to Selected list. Start hour starts with the 00 minute; end hour is at 59 minute (inclusive). For example, to generate report for 8:00:00 AM to 8:59:59 AM, select both start and end hours at 8 AM.

After all set, click the **Preview** button.
A window where you can print or save report will appear:

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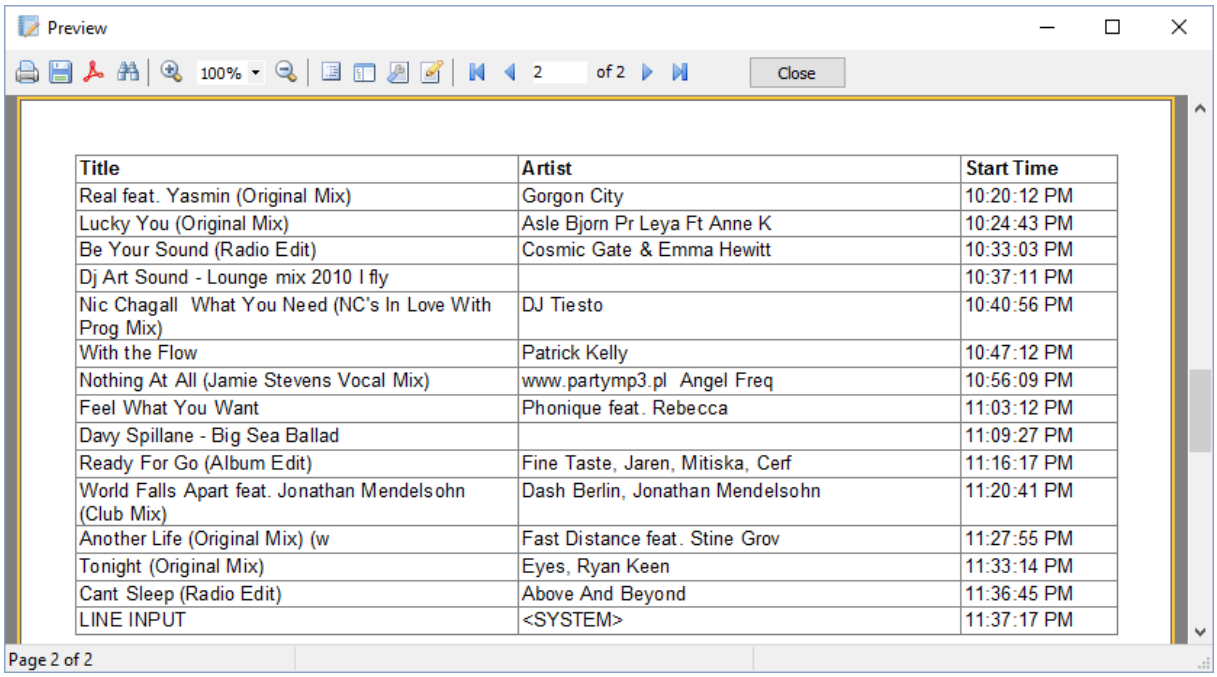

Title	Artist	Start Time
Real feat. Yasmin (Original Mix)	Gorgon City	10:20:12 PM
Lucky You (Original Mix)	Asle Bjorn Pr Leya Ft Anne K	10:24:43 PM
Be Your Sound (Radio Edit)	Cosmic Gate & Emma Hewitt	10:33:03 PM
Dj Art Sound - Lounge mix 2010 I fly		10:37:11 PM
Nic Chagall What You Need (NC's In Love With Prog Mix)	DJ Tiesto	10:40:56 PM
With the Flow	Patrick Kelly	10:47:12 PM
Nothing At All (Jamie Stevens Vocal Mix)	www.partymp3.pl Angel Freq	10:56:09 PM
Feel What You Want	Phonique feat. Rebecca	11:03:12 PM
Davy Spillane - Big Sea Ballad		11:09:27 PM
Ready For Go (Album Edit)	Fine Taste, Jaren, Mitiska, Cerf	11:16:17 PM
World Falls Apart feat. Jonathan Mendelsohn (Club Mix)	Dash Berlin, Jonathan Mendelsohn	11:20:41 PM
Another Life (Original Mix) (w	Fast Distance feat. Stine Grov	11:27:55 PM
Tonight (Original Mix)	Eyes, Ryan Keen	11:33:14 PM
Cant Sleep (Radio Edit)	Above And Beyond	11:36:45 PM
LINE INPUT	<SYSTEM>	11:37:17 PM

4.5.2.1 Command line

Report Generator supports command line to allow automatically creating the reports. It can be called using the **run** scheduler command.

Command line format

ReportViewer.exe --create=Filename|Format|DateFrom|DateTo|Type|Fields

Parameters

Filename - report file name with no extension
Format - CSV or PDF
DateFrom - starting report date in ISO format (YYYY-MM-DD, e.g. 2023-12-30)
DateTo - end report date in ISO format
Type - List or Playcount
Fields (optional) - list of fields to include in the report (a list of numbers, comma separated); if not included, default field set it used

Fields

0 - Title
1 - Artist
2 - Album
3 - Year
4 - Genre
5 - Comment
6 - Playcount
7 - Length
8 - Start date/time

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9 - Start date
10 - Start time
11 - Listeners
12 - Filename
13 - Total length
14 - Language
15 - Publisher
16 - Album artist
17 - Composer
18 - Copyright

End of the month (for DateTo parameter)
Specify **00** (two zeroes) as the day to specify end of the month, for instance: **2023-01-00** will convert to 2023-01-31. This is useful when the month is not known in advance, e.g. when using file name templates (see examples below).

Example command line
C:\Program Files\RadioBOSS\ReportViewer.exe --create=C:\report|PDF|2023-01-01|2023-01-31|List

Example command line specifying fields (title, artist, playcount)
C:\Program Files\RadioBOSS\ReportViewer.exe --create=C:\report|PDF|2023-01-01|2023-01-31|List|0,1,6

Example using the "run" scheduler command (no need to specify full path to .exe file in this case)
run ReportViewer.exe --create=C:\report|PDF|2023-01-01|2023-01-31|List

Example using the "run" scheduler command with file name templates to create monthly reports automatically
run ReportViewer.exe --create=C:\report-?yyyy-?mm|PDF|?yyyy-?mm-01|?yyyy-?mm-00|List

4.5.3 Track Tool

Track Tool used to set individual track parameters: start, end, intro, outro and others.
To start the Track Tool, right-click a track in the playlist and select **Track Tool**.

To zoom, use the Zoom+ and Zoom- buttons or mouse wheel. Hold Ctrl key to zoom faster.

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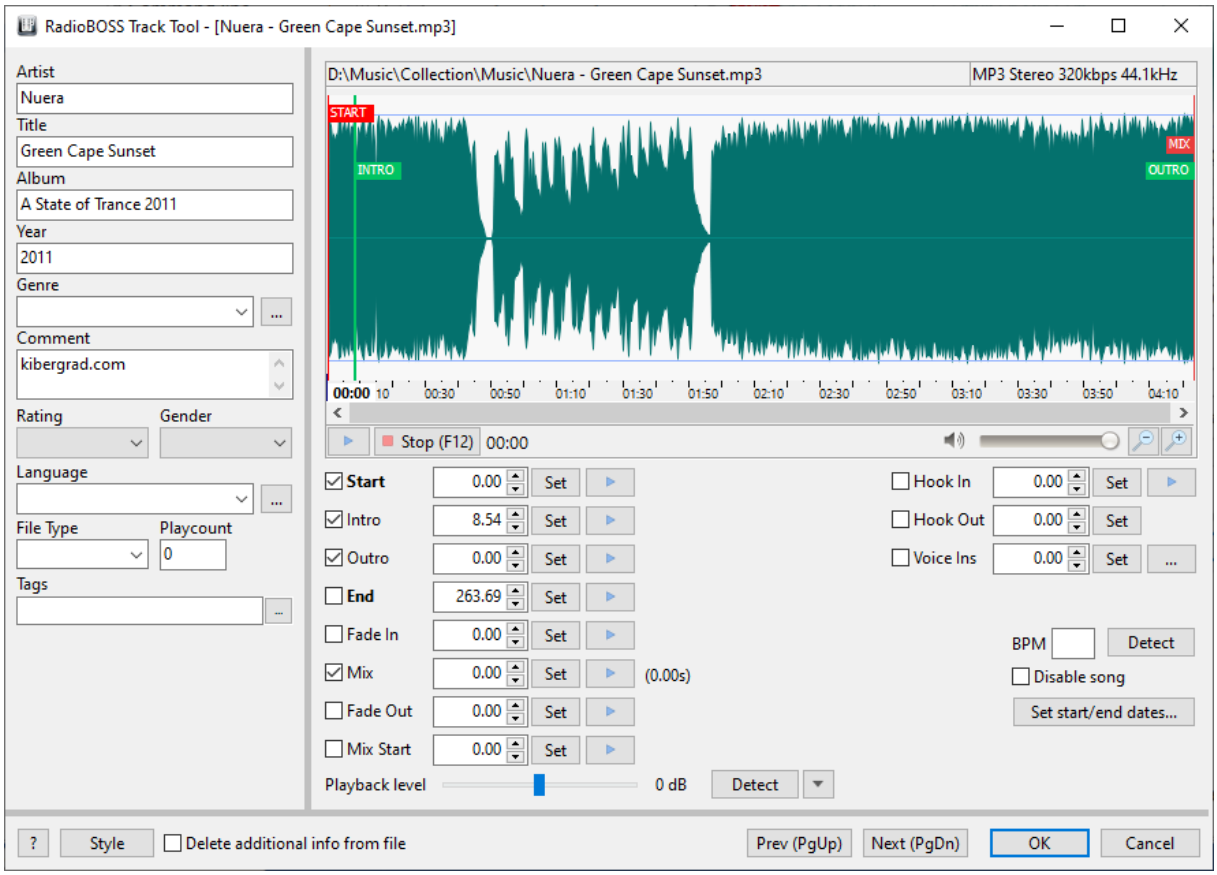

Start - sets the beginning of a track. The playback will start from that point.
End - end of the track.

Intro, **Outro** - intro and outro portions of the track. This is used in Voice Tracking.

Fade In, **Mix**, **Fade Out** - set the individual crossfading parameters.

Mix Start - adjust track mixing position to allow it start earlier in the mix, typically **Mix Start** set after the quiet start part of the track. During playback, player will match **Mix** position of the playing track, and **Mix Start** position of the following track. **Important!** **Mix Start** requires **Start** mark to be set.

Hook In, **Hook Out** - setting a place to cut the track for use in the Teasers.

Voice Ins - setting voiceover location.

Playback level - set track playback level.

* **Start**, **End**, **Mix**, **Mix start** and **Playback Level** can be auto-detected using the **Process Tracks** tool in Music Library.

To show/hide **Tag Editor** click the dark gray bar on the left.

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To stop the playback, press the space bar. You can zoom in and out using the mouse wheel while the Ctrl key is pressed
and held. The zoom level can also be changed from the context menu that
appears after right-clicking on the graph.

If the option **Disable song** is active, the playlist generator or track list will not use this track when creating playlists.

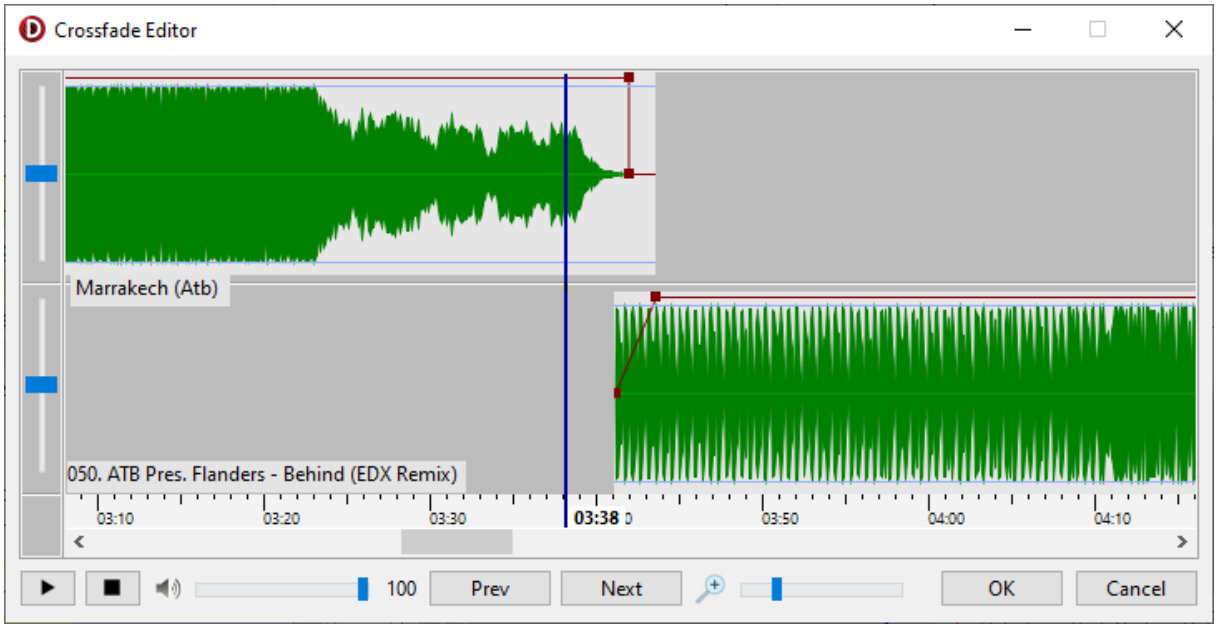
The **Set start/end dates** button is used to set the track's start and end dates. If set, then a track will be used only during the time specified. Typical usage for this feature is to make specific songs appear in the playlists only at certain dates (for instance, New year songs). For this feature to work, **both start and end dates have to be set**!

The **Disable song** and **Start/end dates** are considered only when Playlist Generator or Track List are used.

4.5.4 Segue Editor

Segue Editor is called from the playlist: right-click a track which crossfade parameters you want to edit, and select **Segue Editor** (to edit 2 tracks) or **Segue Editor 3** (to edit 3 tracks).

A window opens:



Example: Segue Editor for 2 tracks

Red line shows track volume level. Use mouse to move tracks and square points.

Custom crossfade parameters are saved in the playlist. When you open and close RadioBOSS, the parameters will remain. To save the playlist to a file in RadioBOSS top menus click File->Save (or Save As...).

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4.6 Microphone

RadioBOSS lets you use a microphone any time during audio playback.

Note: If you have a hardware mixer board, you probably don't need the software MIC feature, as you can connect the microphone directly to the mixer.

How to use the microphone

First of all, make sure that a proper device is selected for the MIC button: microphone settings.

Press the

button in the bottom-right corner to turn on microphone.

Right-click the **MIC** button to find additional options for microphone: configure DSP, enable/disable various options.
Play next track after MIC is off - when you turn off microphone, next track will start playing (this option does nothing if Sidechain is enabled for microphone). If the playlist is stopped, and "Stop after current track" option is not enabled, next track will not start.

Related topic:
Microphone settings

4.7 Linear input

RadioBOSS lets you add a line input to a playlist. Line input settings can be configured via **Options** on the Input tab.

Line input is useful for retransmitting a signal received via the sound card's input (e.g. a satellite feed).

To use the line input, select **Playlist** -> **Add Line Input...** in the top menu bar.
A window will open, where you can set the duration (that is, for how long you want the Line.In to be played). Optionally you can enter a broadcast title.

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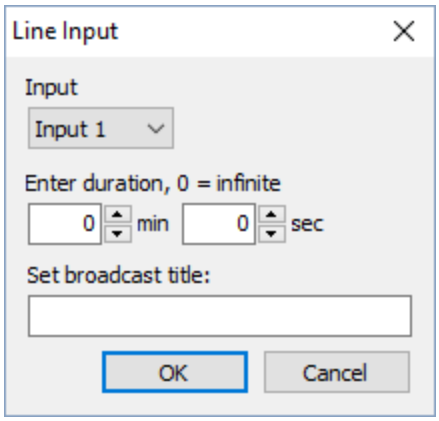
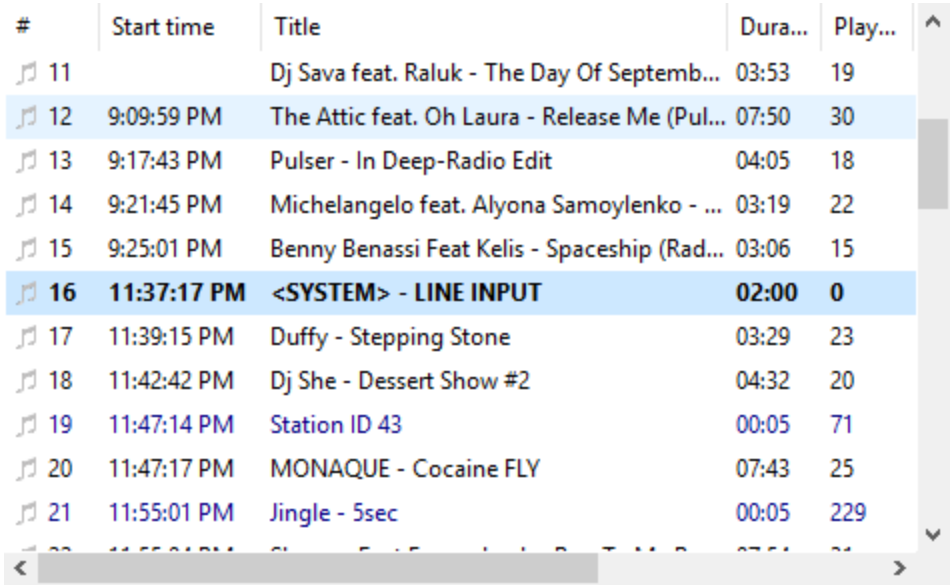


This menu item will be hidden if no device is selected for Line.In in Settings.



"Line.In" plays just like an ordinary file in the playlist. Crossfading and most other effects are applied to it as well.

4.8 File Types

RadioBOSS allows you to set up file types for particular types of tracks. For each file type, you can specify the color in the playlist, crossfade parameters, and amplifying level for playback (-20 to +20 dB). Files that do not belong to any file type are treated as "**Music**" for crossfading.

Assigning tracks to file types possible in different ways:

1. **Folder based.** Specify the folder in File type folder field. If the folder is specified, all tracks in this folder (and sub-folders) are considered to be tracks of the given type.

2. Use **identifier.** An **identifier** is a word or a sequence of characters that assigns a file to a particular type. Identifier should be included in the tag information or filename: RadioBOSS looks for an identifier in

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the tag area (artist/title) or the filename if a file has no tags. It's not recommended to use short identifiers which can appear as a part of regular track's titles - for instance, if your identifier is "**id**", it can be found in the track called "The Beatles - Everybody's Got Something to H**id**e". The solution would be to use "**id:**" (add a colon before and/or after the identifier) or choose another identifier.

Identifiers for special playlist item types

Network stream	**://** (or any part of the address, for example, domain name)
Playlist comment	**.comment**
Hour marker	**.hourmarker**
Automatic time announcement	**saytime**
Command	**.command**
Text to speech	**tts=**
Teaser	**teaser=**
Line input	**line.in** or **line2.in** or **.in**

3. You can use the Track Tool to assign a track for a particular file type. You can set the file type for multiple tracks at the same time via Music Library.

For example: The first group is named “Commercial”. Its identifier is “Commercial”, the color is set to red, and the amplifying level is set to +5dB. In this case, all tracks containing the identifier "Commercial" in tags (title/artist) or filename will be displayed red in the playlist and played louder than other tracks. The file will be mixed according to the crossfade parameters configured for the “Commercial” group in the Crossfades window.

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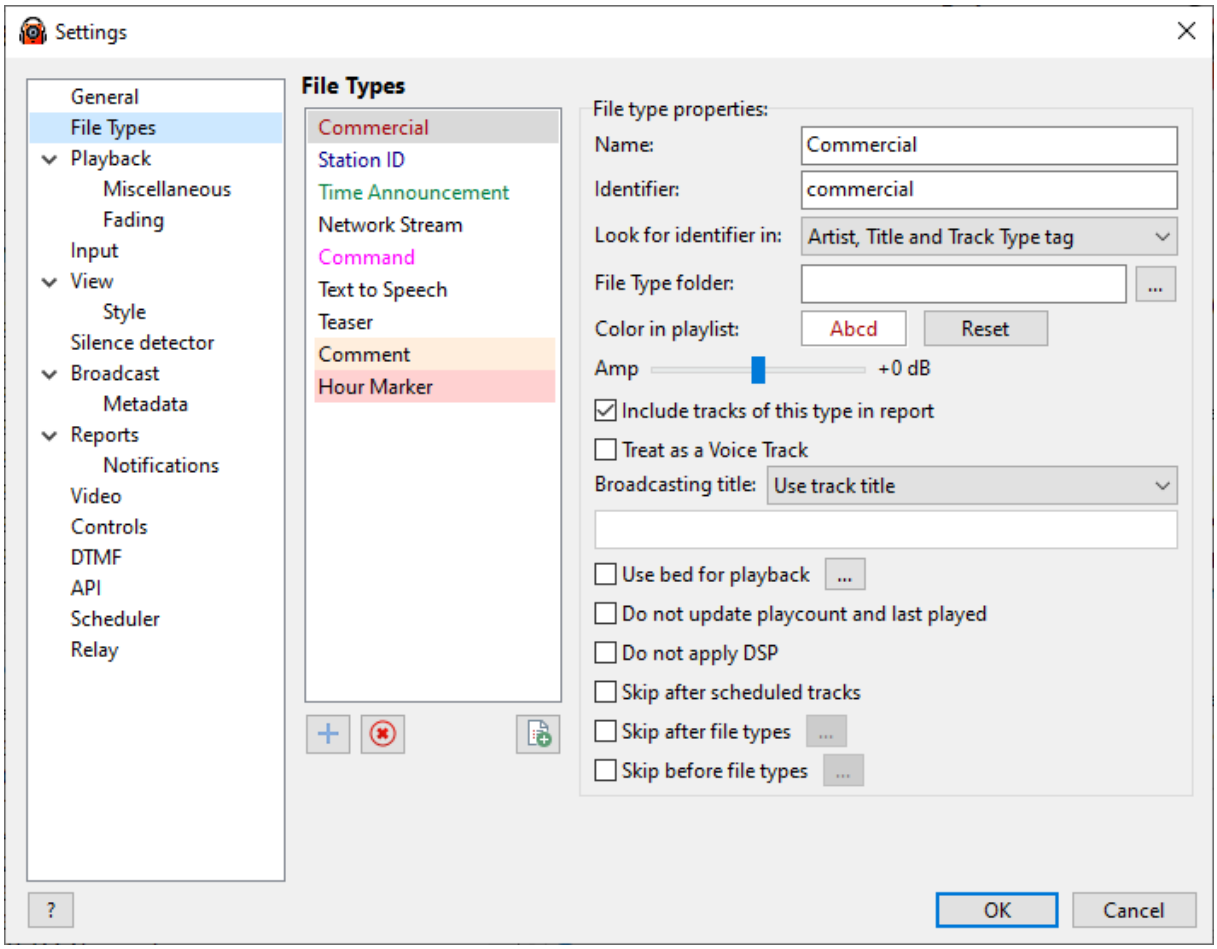

File type options:

Name	File type name
Identifier	File type identifier
Look for identifier in	RadioBOSS looks for an identifier in the tag area (artist/title) or the filename if a file has no tags
File Type folder	Define file type folder. All tracks found in this folder (and in sub-folders) will be considered tracks of a given type.
Color in playlist	Coloring of the tracks of this type in the playlist. Click the box to change the colors
Amp	Change the level to amplify or lower the level when a track of this type is played
Include tracks of this type in report	Controls whether tracks of this type should be included in the report
Treat as a Voice track	If checked, tracks of this type will be treated as Voice Tracks

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Do not send title to the server	This option allows you to not send the track's name to the server. Enabling this option also prevents nowplaying notifications.
Use custom title format	Specify a custom broadcasting title format for this file type. Please see this page for details.
Use bed for playback	A bed can be set, which will play in the background
Skip after scheduled tracks	After the event is completed, the selected file type in the playback queue will not be played back
Skip after file types **Skip before file types**	Do not play before or after selected file types
Do not update playcount	Playcount will not be increased and last played tag will not be set for tracks of this file type

To set up a new file type, follow these steps:

1. On the top menu bar, select **Settings** > **Options...**

2. Click **File Types**.

3. Enter the name of a new file type into the **Name** field.

4. Enter the identifier of a file type into the **Identifier** field.

5. Select background and font colors.

6. Move the **Amp** slider to set the amplification level if needed.

7. Click **OK**.

Related topic:
RadioBOSS. Quick start.

4.9 Crossfading

Crossfade allows you to define the mix (overlap) point, and fade in/out parameters for music and other files. To open this window, select **Settings** –> **Crossfades** in the menu.

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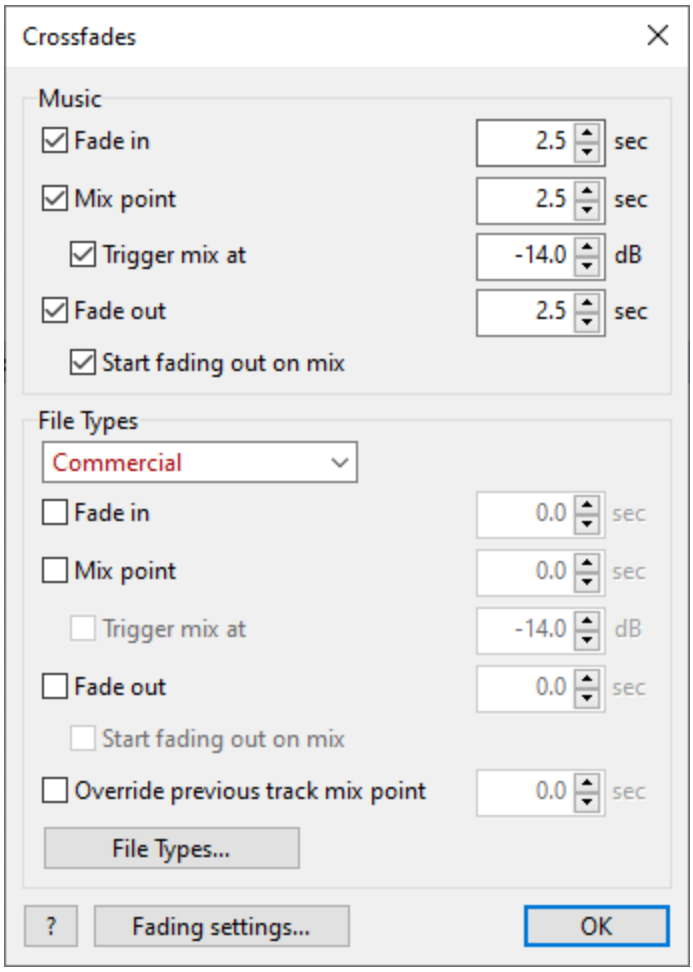

Controls and options:

Fade in	Time interval in the beginning of a track for the volume to go up. When a track is started, the volume will go linearly from 0 to 100% during that time.
Mix point	The moment before the end of a track when the next track starts playing, overlapping with the current track.
Trigger mix at	The "Trigger mix at" setting is based on a sound level (default setting is –14dB). The "Mix point" option must be turned on too. If the "Trigger mix at" option is turned on, the "Mix point" value (2.5 seconds by default) controls the minimum overlap duration.
Fade out	Time interval in the end of a track for the volume to go down.

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Start fading out on mix	The fade out will be started together with Mix. If the "Fade out" option is turned on, the "fade out" value defines the fade out duration.
File type selector	Selects the file type for editing the crossfade settings.
Override previous track mix	Overrides the previous track's mix point to control how many tracks overlap. This is useful for commercials and jingles in order to avoid long overlap with the preceding music track.
File types section	Define crossfades for each of the File types.

More information:
Using different types of files
Fading settings

4.10 Normalizing tracks

You can normalize music tracks in RadioBOSS in order to make them the same volume level. RadioBOSS uses EBU R128 standard to determine loudness. Normalizing does not change or re-encode music files. Any level corrections are reversible and do not reduce sound quality.

To normalize tracks, use the **Tools**->**Process tracks** menu command in Music Library to batch process music tracks. You can also use the Auto button near the level slider in Track Tool to normalize a single track. It is also possible to automatically build a library and normalize tracks using the **makelibrary** scheduler command.

4.11 Stream and podcast playback

To insert a stream or podcast into the playlist, in the menu click **Playlist** -> **Add URL...**

A window will open where you can enter the stream URL and set the duration:

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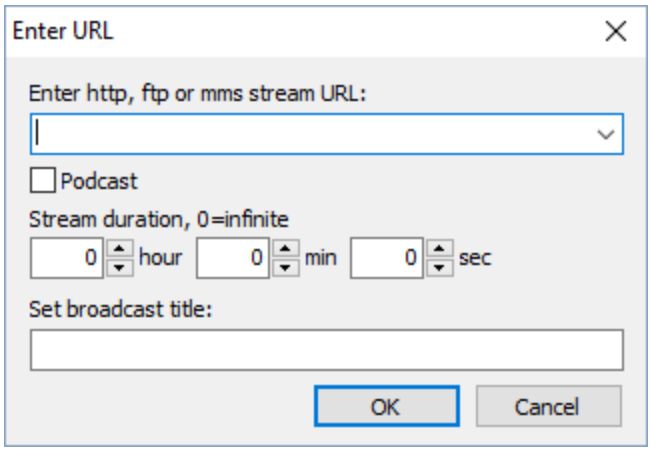


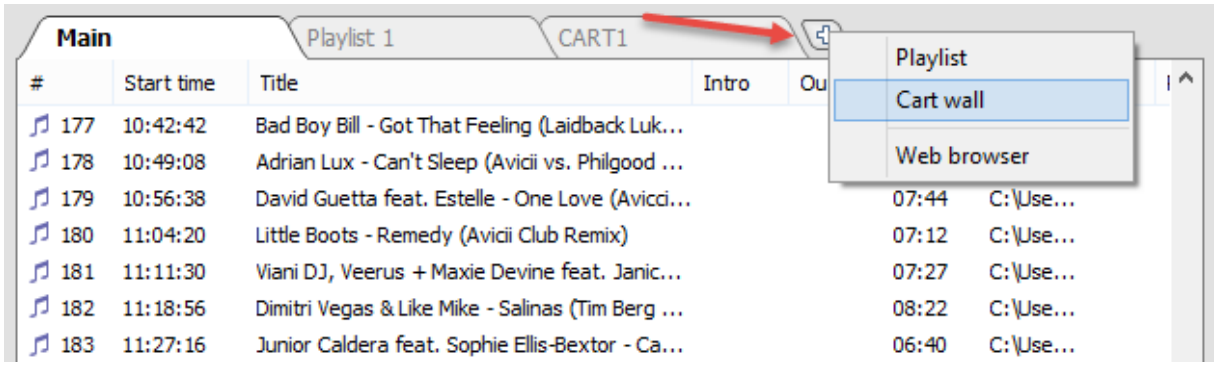
Check the **Podcast** checkbox if a URL points to a podcast: in this case, RadioBOSS will select the newest stream from the feed and play it. When the **podcast** checkbox is checked, the URL has to point to an XML podcast feed.

When the Stream duration is set to 0 (zero), RadioBOSS will play a stream until its end (or until something else is started in the playlist). If the duration is non-zero, RadioBOSS will play a stream for a specified amount of time, restarting the stream in case of any errors, e.g. connection failure. **Note!** Streams with no duration specified (0) will not be restarted in case of an error.

4.12 Cart wall

Cart wall is used for instant on-demand playback of various audio files. **Click** on a cell to start/stop playback. **Click** on a playing item while holding the **Shift** key to restart it from the beginning.

To add cart wall: click the "+" button in the Playlist section and select "**Cart wall**":



The 5x5 grid is created:

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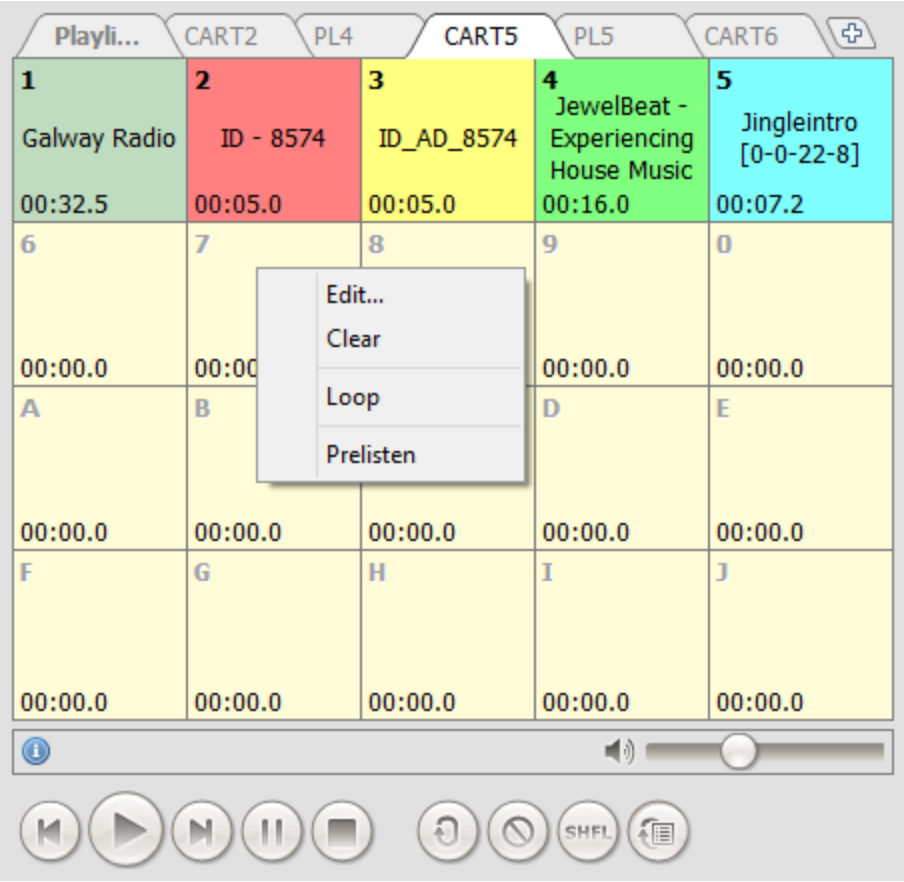
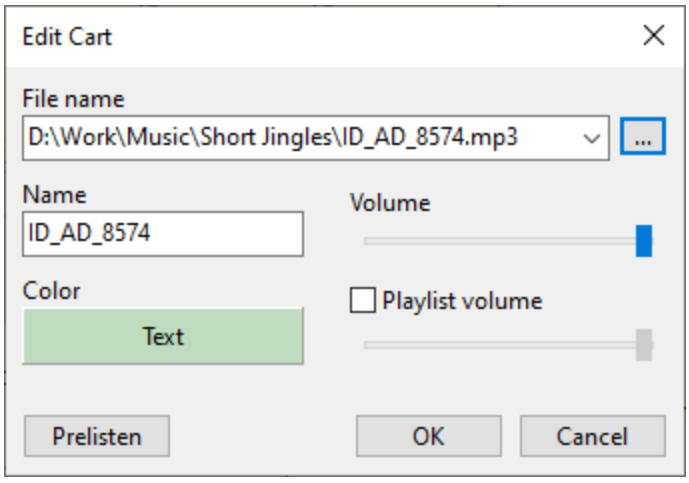


To assign tracks: right-click the cell and click "Edit...".
In the window that appears, select the file you want to play as well as its color and display name (the name is displayed in the center of cell). Click OK.



You can specify **line.in** or **line2.in** as the file name to playback the line input. Set file name to **stopall** to make the cart button stop all playing carts. Cart wall also supports scheduler file name templates.

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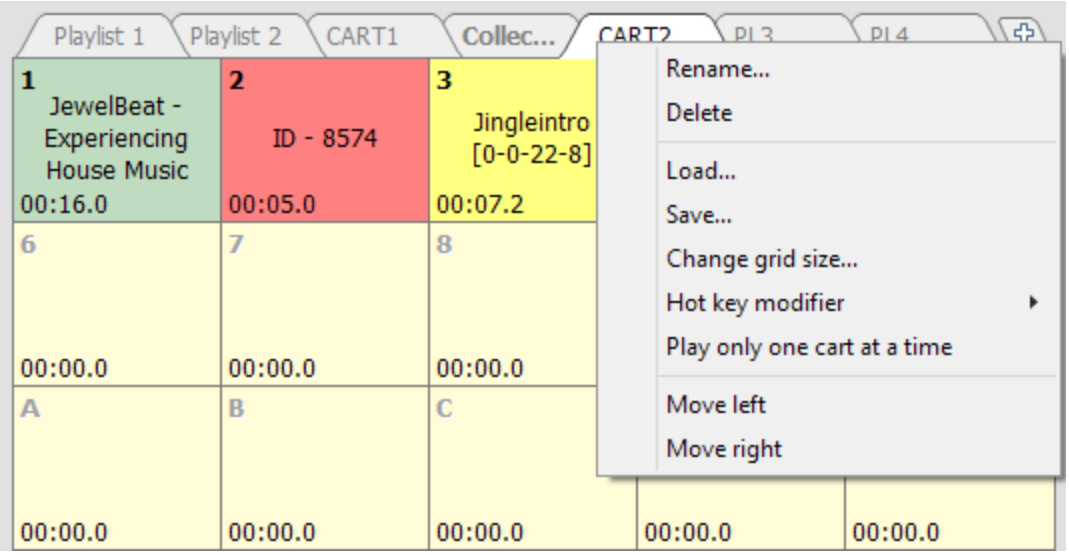
In the settings, you can enable the **Playlist Volume** option to set the volume of the playlist during the playback of the Cart Wall item. If the option is not set, the general setting from the Fades section (Cart wall section) is used.

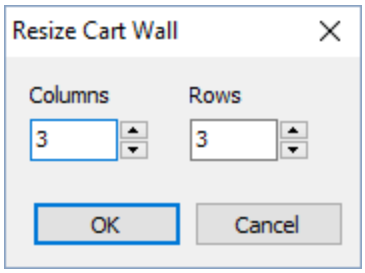
To fill cells, you can drag and drop tracks from Explorer. You can also drag and drop tracks between cells.
After the setup is done, you can play tracks when you need: simply click on the corresponding cell. In the bottom-left corner the remaining playback time will be shown. To stop playback, click the cell again. Right-click on a cell to edit it or enable loop.

Carts may be played on another audio device: playback settings.

Right-click a cart wall tab to save or load the cart wall grid:



You can now change the size of the cart-machine's grid. To do that, right-click on the tab and select "Change grid size..." command from the menu. You will see a new window for entering the necessary number of rows and columns.



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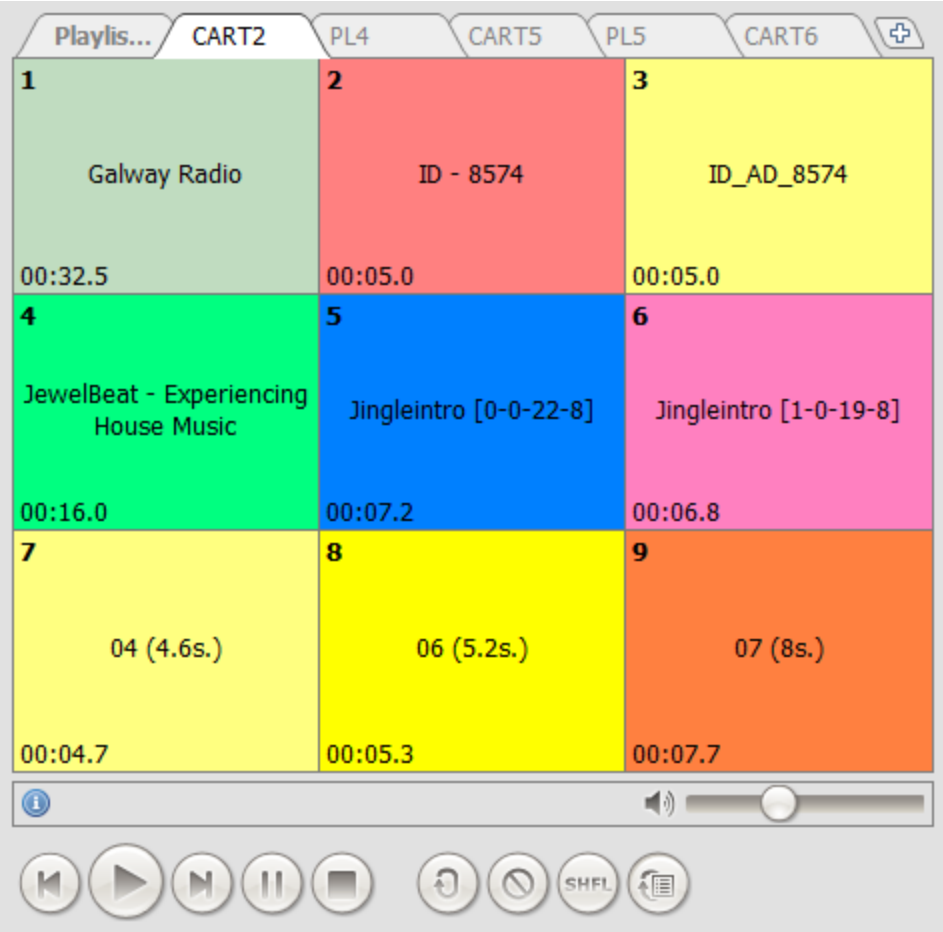

If you reduce the number of cells, the ones that do not fit into the resized grid will be removed.

You can assign a **hot key** for the cart wall as follows: Right-click the cart wall tab, select **"Hot key modifier"** in the context menu, and set a desired option.

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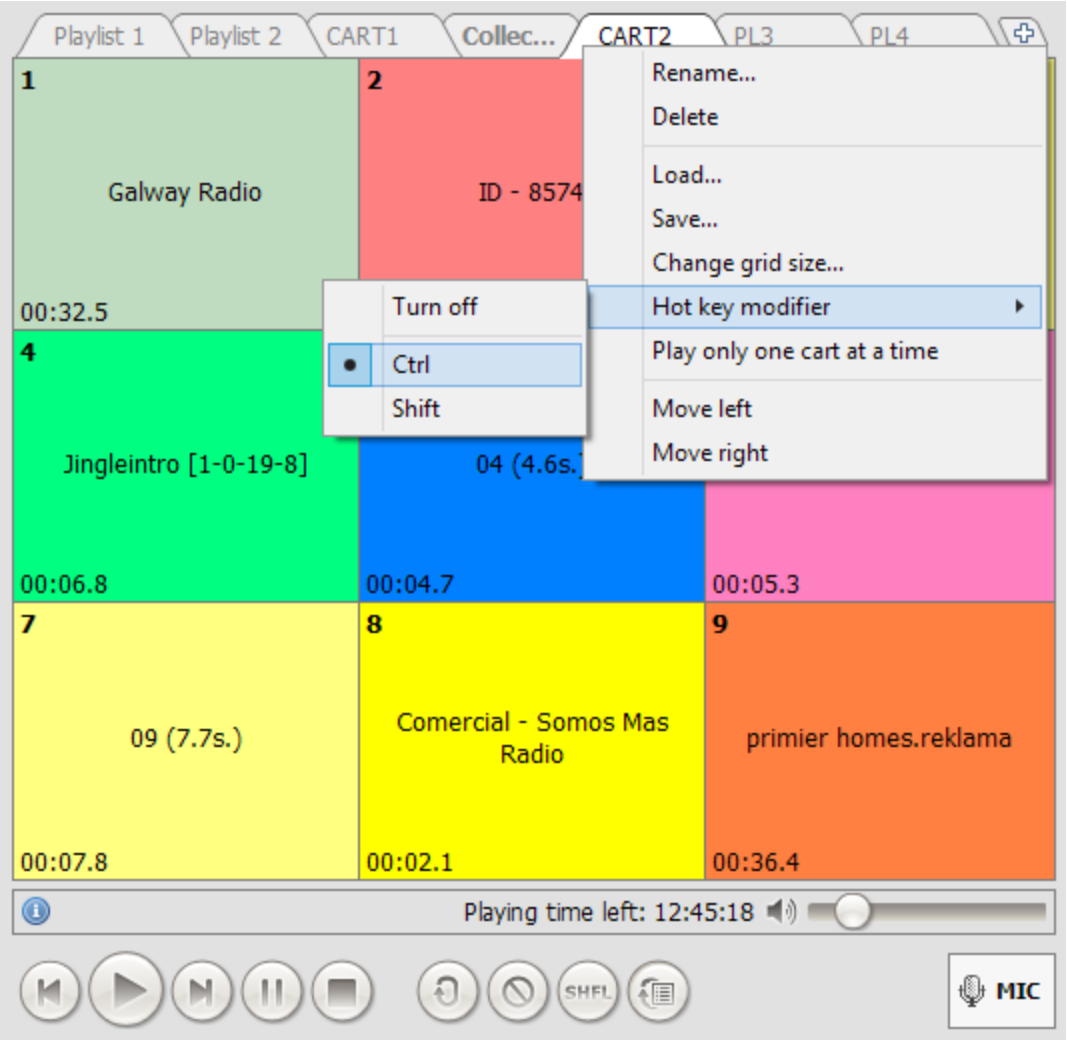
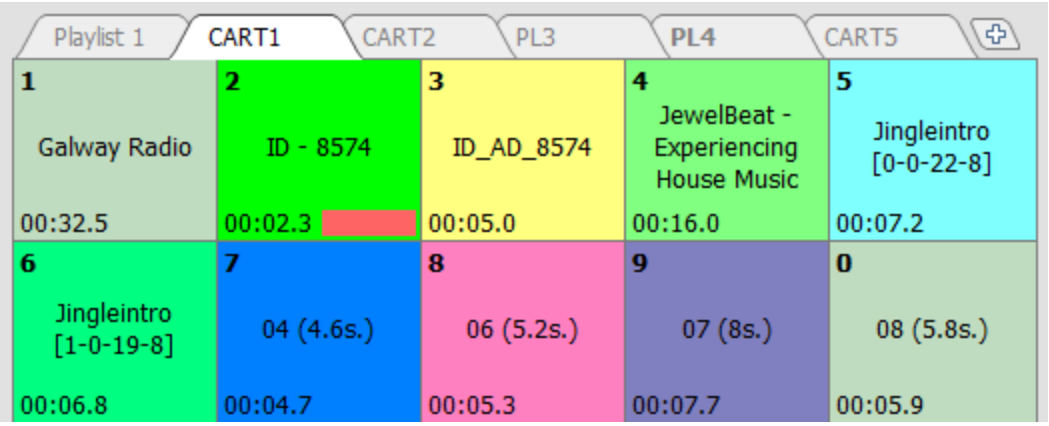


When **Ctrl** or **Shift** is set as a hot key modifier: to play a track, press (**and release**) Ctrl (or Shift), and then press the key corresponding to the necessary track. For example, if you want to listen to a track under the digit 2, press Ctrl, and then press the "2" key. If the track is under the letter M, press Ctrl, and then press the "M" key. When **Caps Lock** is set as a hot key modifier, simply press CapsLock+A (or any other key) to play the corresponding cart wall item.



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To stop the playback, press the same keys again.

You can create a few carts on the cart wall. Pressing Ctrl+2 will create two carts, and pressing Ctrl+3 will create three ones.

More information:
Playback

4.13 Using Track list

Track List appears as one track in the playlist. When launched, one file is played from the list, selected either randomly or in order. This is an easy way to create random playlists.

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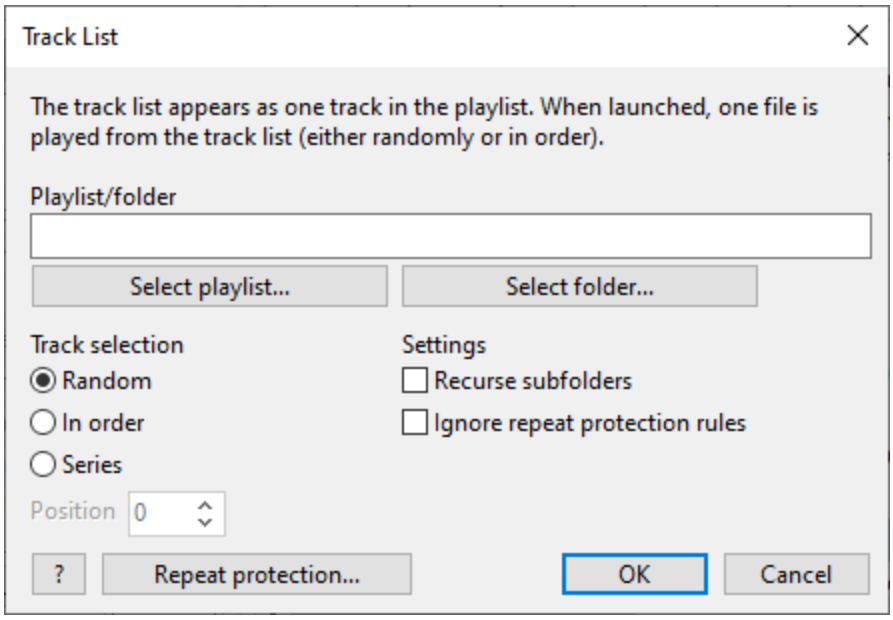

To add a track list, follow the steps below:

1. On the top menu bar select **Playlist** > **Add Track List...**

2. Select a source of the tracks, click **Select playlist...** or **Select folder...**.
In case of a folder, you can also check the "Recurse subfolders" to include tracks that are in subfolders.

3. Choose a track selection method, set one of the options:

- **Random** - tracks will be selected in Random order. RadioBOSS will try avoid repeating tracks unless all the tracks are played from the source.
- **In order -** tracks will be selected one by one in order (when using folder source, the tracks are sorted alphabetically by filename).
- **Series** - tracks will be selected one by one in order, but the position in the list will not advance automatically: the same track will be chosen until the list position is advanced. To advance the position, a scheduled event needs to be used: click the **Create event...** button to add the event.

  The event to advance the position can be added any time later on:
  Option 1. Add a scheduled event and use the **Scheduler wizard**: select **Play one track from a playlist or folder**, **Next** button, **Play one track from a playlist or folder (Track List)**, **Next**, select the same source folder, and make sure that "Recurse subfolders" is in the same state as it was when the series was added. Click the **Create event** button.
  Option 2. Right-click the Track List item in the playlist, select **Tools** and then select **Rename/edit**. Click the **Create event** button.

Repeat protection

Click the **Repeat Protection** button to enable repeat protection options for Track List.

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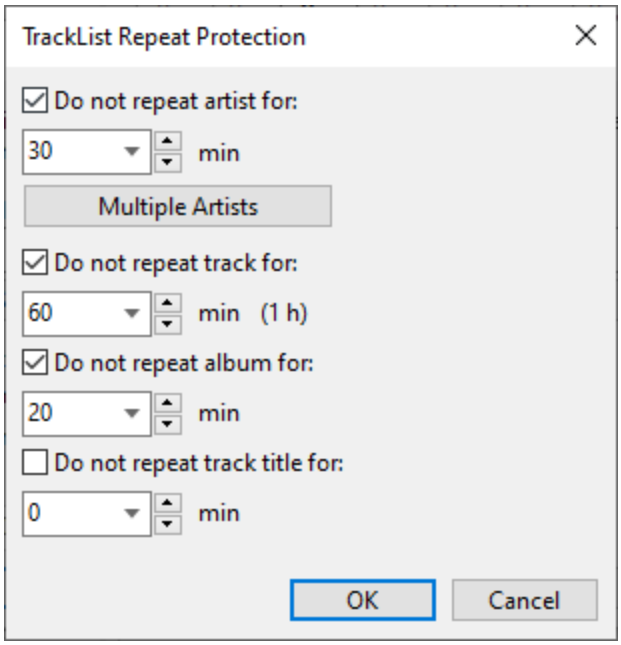

The repeat protection settings are global and applied to all Track List items used in RadioBOSS. Track List can be set to ignore the no-repeat rules: the **Ignore repeat protection rules** checkbox (useful for jingles, station IDs and similar items where repeat protection should not be used).

More information:
Generating a playlist
Repeat protection rules

4.14 Using Tags

A **Tag** in RadioBOSS is something you can assign to a track to help categorize, search tracks or use a filter when creating a playlist.

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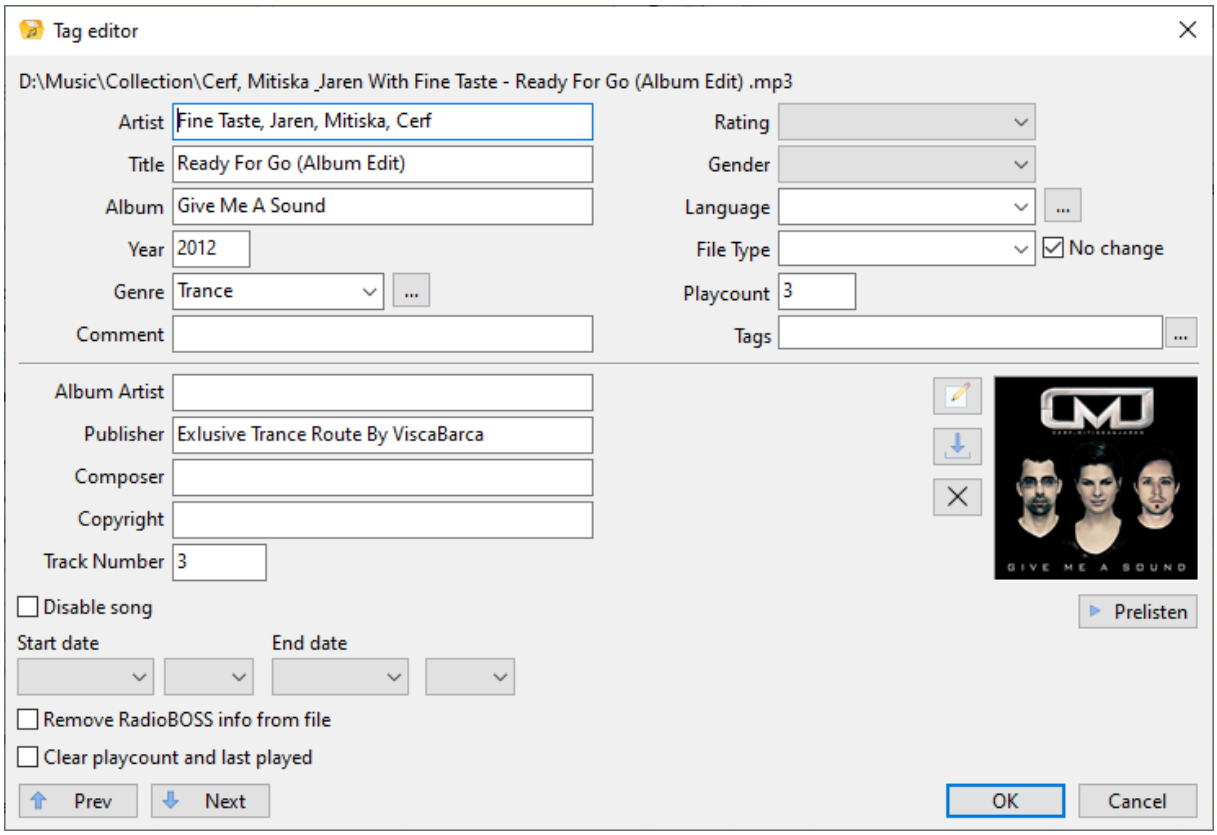

Use the Music Library to batch assign or remove tags: right-click menu, **Add tags** and **Remove tags** command. Tags can also be edited using the Track Tool or the track information panel in the main window.

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The "Add tag" window enables to create new tags and use the existing tags. To quickly select one tag and close the window, **double-click** it.

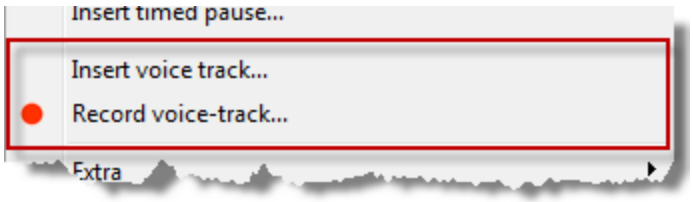
Removing or renaming a tag does not remove or rename it for the tracks where the tag was used. In order to remove or rename a tag, first remove it from all tracks using the Music Library, then, if renaming it, create a new tag and assign it to tracks. You can clean up tag list for music tracks by using the **Tools->Tags cleanup** menu command in the Music Library.

More information:
Music library
Generating a playlist

4.15 Voice Tracking

RadioBOSS supports voice tracking, namely recording and playback.

To record a voice track and insert it into a playlist, use the corresponding commands in the **Playlist** menu:



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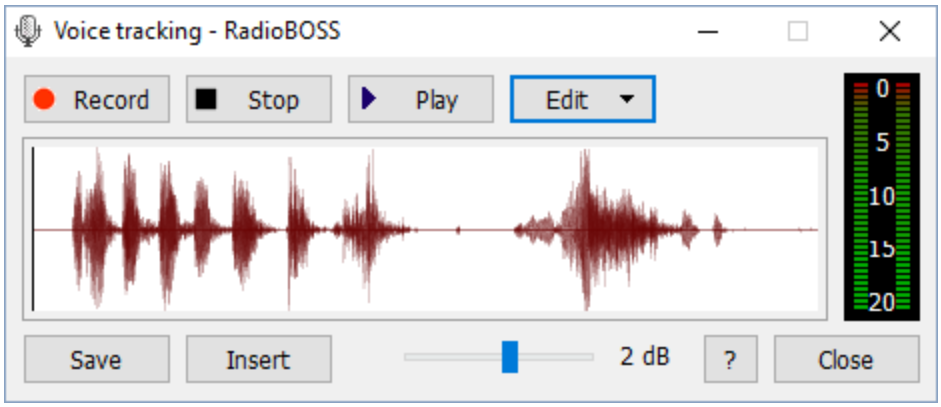
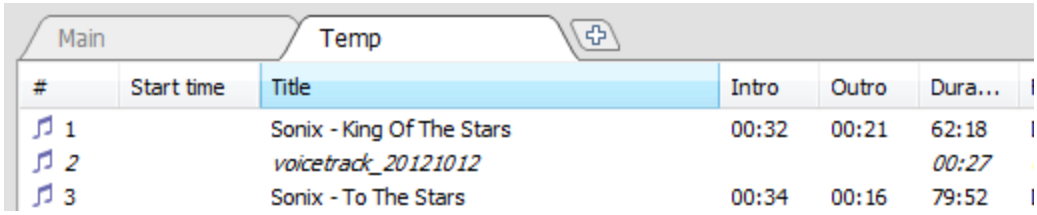
If you click the "Record voice track..." menu item, the **Voice track recording tool** will open:



The tool uses the same input device as set for the MIC button.

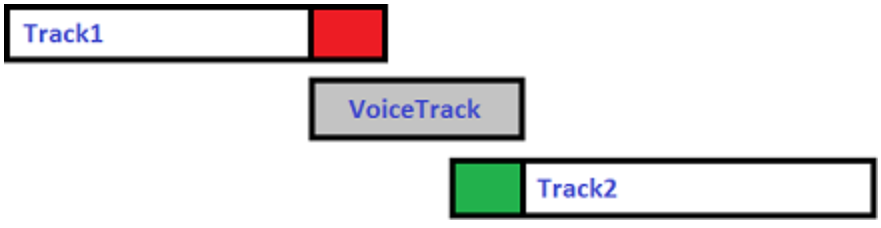
To start recording, click the **Record** button. Once finished, click **Stop**. To listen to the track recorded, click **Play**. The Pre-listen sound card is used for playback. To edit a voice track, use the **Edit** commands. To save a voice track, click the **Save** button. Save all voice tracks in the Voice Track folder (you can change its location via Settings -> General).

To insert a voice track into the playlist, click the **Insert voice track** menu item. All voice tracks appear *italics* in the playlist.



Voice tracks are played automatically in the intro/outro portions of the tracks. You can set the intro and outro for tracks using the Track Tool.

The picture below shows the general idea on how voice tracks are played:



Red is the Outro part of Track1, and **Green** is the Intro part of Track2. For short voice tracks (shorter than Intro + Outro), a voice track will be played closer to the end of the Intro of Track2.

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Some voice track-related playback parameters can be configured via Settings -> Playback -> Fading.
If you don't want to set and use **Outro** points, and only need to play voice tracks based on **Intro**, in Settings, General press the "Advanced configuration" button and set "Voice Tracking - Ignore Outro point and always play voice tracks up to Intro" option to "True".

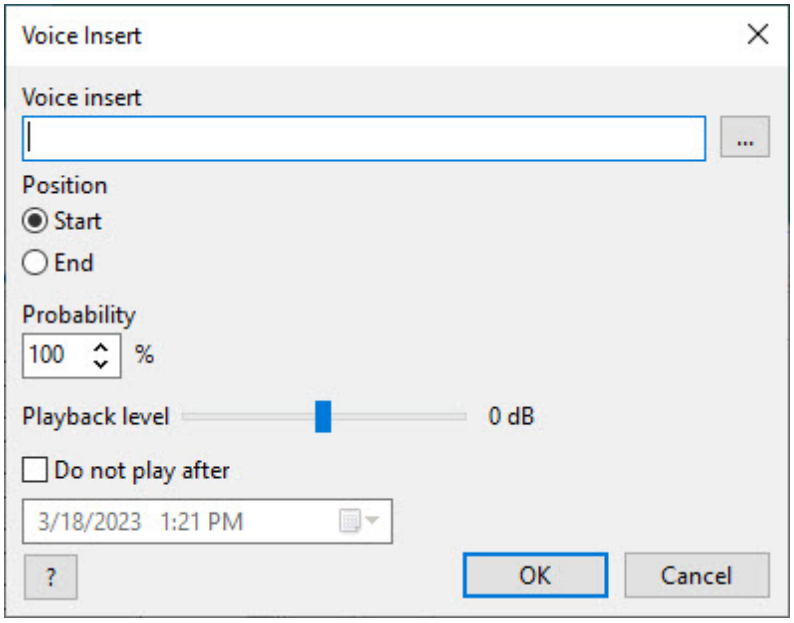
A short note about what Intro and Outro are:
Intro is an opening instrumental part of the track, before the singer starts singing.
Outro is a conclusion of the track, usually an instrumental solo.

4.16 Voiceovers

Voiceovers allow to insert a voice at the indicated position in the music track. Voiceovers are configured using Track Tool - set the **Voice Ins** mark and edit voiceover parameters (press the "..." button). You can prelisten the voiceover by right-clicking the "..." button.

Voiceovers can be enabled or disabled (for example, they can be disabled for nighttime broadcasts) using the scheduler commands: **enablevo**, **disablevo**.

Voiceover parameters window



Parameters

Voice insert - choose a file or folder containing voiceovers. If you choose a folder, a random file will be selected from it every time.
Position - sets the insertion position. **Start -** the voiceover will begin at the selected place. **End -** the voiceover will end at the selected place.
Probability - set the probability of voiceover playback.
Playback level - playback level of the voice insert.
Do not play after - set voiceover expiration date.

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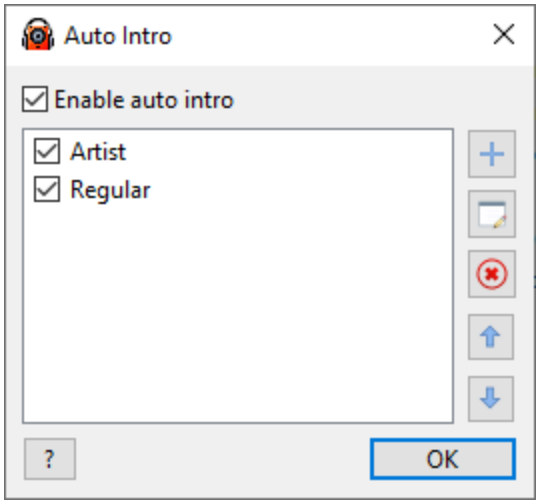
For a track with a voiceover, the voiceover is shown in pink in the "On Air" window.

4.17 Auto Intro

The Auto Intro feature allows to automatically insert jingles before music tracks.

To use the Auto Intro, select **Tools** > **Auto Intro** on the top menu bar.

The Auto Intro window will open. It shows the list of defined Auto Intro rules.



Click the **Add** button to add new rule. Use the **Edit** button to edit the selected rule. The **Up** and **Down** buttons are used to move rules in the list.

The rules are prioritized based on their order in the list: the rules closer to the top have higher priority. If two or more rules can be applied to a music track, the topmost rule will be used.
Intro tracks are started and ended with a small fade in/fade out (you can configure it in Settings, General, Advanced Configuration). The underlying music track is attenuated in accordance with Voice Track settings in the Fading area.

The rule parameters window:

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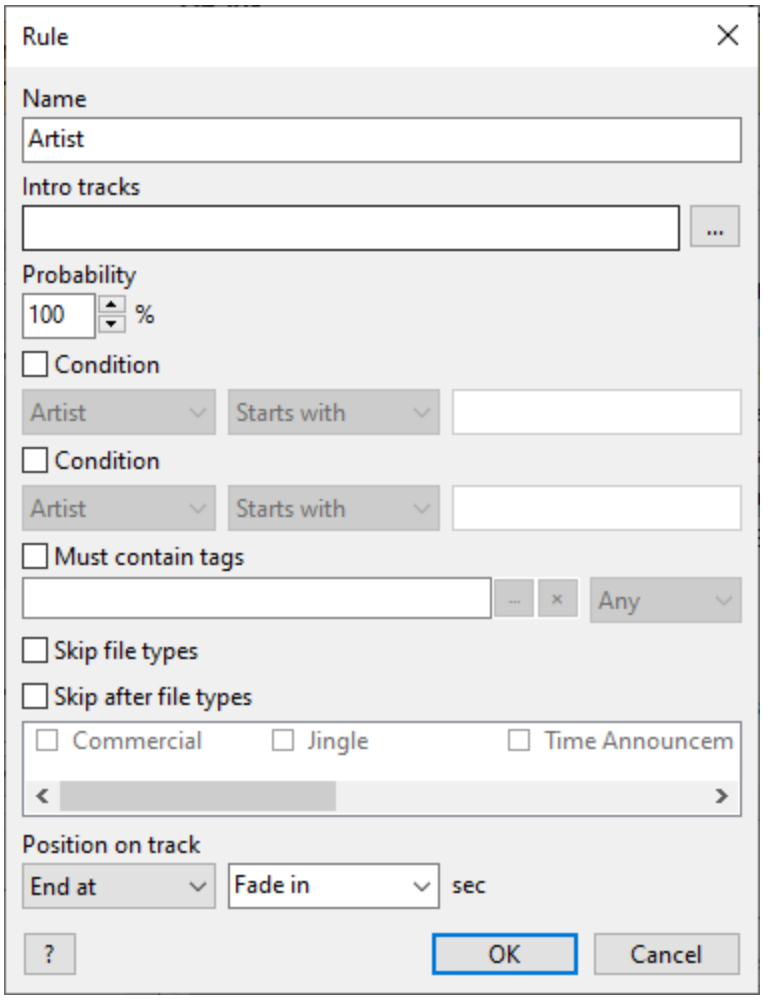

The window allows to set the following parameters

Name - the rule name in the list. The name is also used in the **autointro** scheduler command to enable and disable rules.

Intro tracks - set the list of jingles to insert. It can be a single file, a playlist or a folder. In the case of a playlist or a folder, it will select one random jingle (subfolders not included).

Probability - set the probability of inserting a jingle. 100% - always jingle, 33% - on average, insert one jingle for every three tracks and so on.

Condition - if Condition is set, the jingle will only be inserted for the music tracks that match the criteria. For instance, condition can be used to apply auto intro for tracks of a certain genre or for tracks from a specific artist. When checking a condition, the letter case is not taken into account. **Range** condition is defined as starting and ending value, e.g. 1990-1999. **Duration** condition is set in seconds. If a second condition block is set, they must both be met.

Must contain tags - use Auto Intro only for the tracks with specified tags (all or any).

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Skip file types - do not apply Auto Intro for tracks that belong to file types.

Skip after file types - do apply Auto Intro if previously played track belongs to one of the selected file types.

Position on track - set the auto intro jingle position on the music track. **Start at** and **End at** set the position type: where jingle should be started, or where it should end. Then the time value is set, in seconds, or it can be a special value: **Intro** or **Fade In**. For instance, if the position is set to **End at: Fade In** the jingle will end its playback at the time when the underlying music track finishes fading in. If position is set to **End at: 3.5** the jingle will end 3.5 seconds after the start of the music track.

4.18 Teasers

Teasers - automatically created teasers from tracks. The start jingles, the transition between the tracks, and the end are defined in teaser properties. For music files, you can use the hook marks to determine the part of the track to be included in the teaser (the Hook In and Hook Out are assigned using the Track Tool, Hook duration must be less than 21 seconds). Alternatively, RadioBOSS can automatically determine the location where teasers should be made in the track (AutoHook). A source of tracks can be a folder on disk, or the tracks that are going to be played next in a playlist. When the next tracks are announced, the teasers work only if the "Shuffle" mode is turned off and only if regular tracks are used: such special elements as the Track List, Internet streams, commands, etc., are ignored.

To add a teaser to a playlist, in the menu click **Playlist** -> **Add teaser**.
To reproduce the teaser through the scheduler in the wizard, you must select *Automatic announcement - Teaser* .
To create a file type for teaser, use the **teaser=** identifier.

General structure of the teaser

- Start jingle
- Teaser of track 1
- Transition
- Teaser of track 2
- Transition
- Teaser of track 3
- Transition
- Teaser of track 4
- Ending jingle

The beginning, end, and transition jingles are optional.

A crossfade is applied between the teaser elements. Its parameters can be set in the teaser settings window (the **Settings** button in the teaser window).

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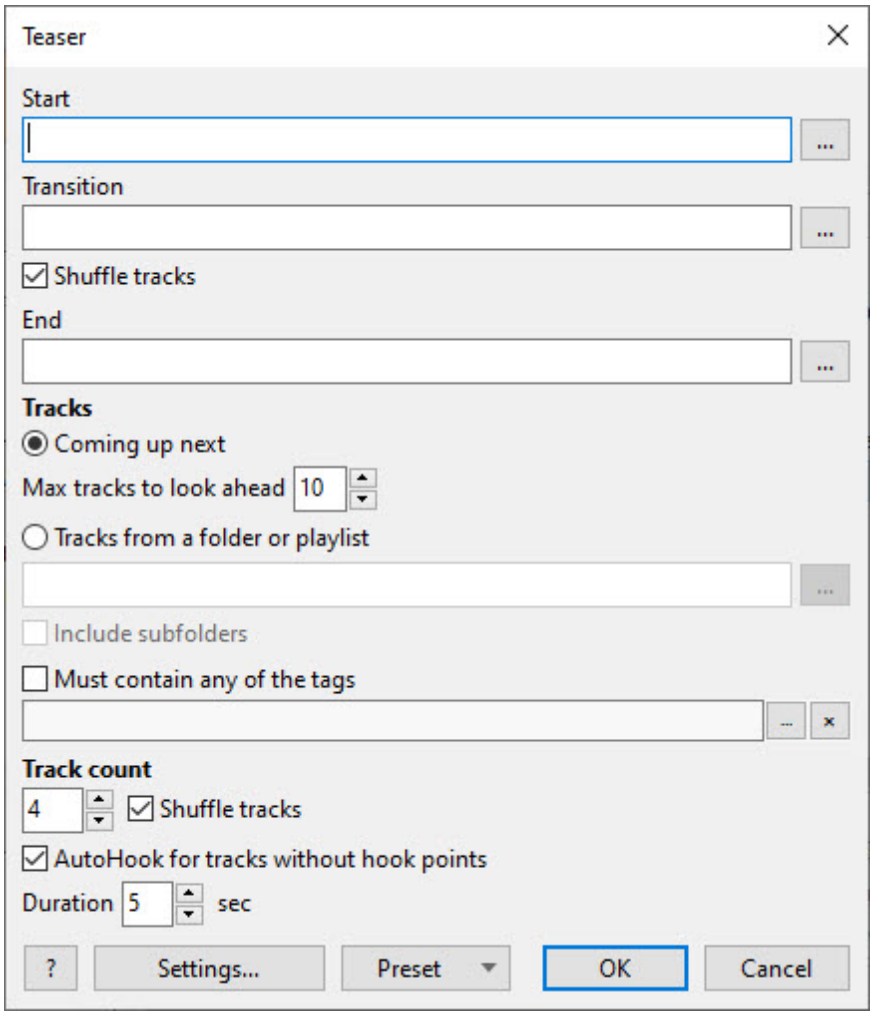

The **Start**, **Transition**, and **End** define the start, transition, and end jingles, respectively. You can select a folder (in this case, a random file will be selected; subfolders not included) or a file. If you do not want any of the jingles, then leave the field empty.

Tracks - select the source of tracks:
- **Coming up next** - specify the number of tracks that come after the track that is currently playing in the playlist. **Max tracks to look ahead** - specify the number of tracks that can be used to make teasers.
- **Tracks from a folder** - select tracks from a folder (subfolders not included).

Track count - determine the number of tracks in the teaser: this number of tracks will be selected from the source folder.
Shuffle tracks - random tracks will be selected from the source.

AutoHook for tracks without hook points - this option is used for tracks without the Hook In and Hook Out positions; the teaser locations will be determined automatically.
- **Duration** - the length of the automatic hooks created by **AutoHook**.

Settings - button that brings up the teaser settings window.

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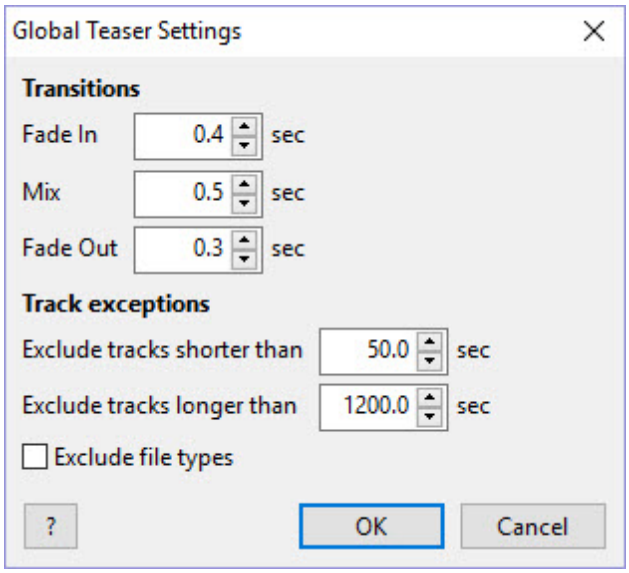

Transitions - this is used to set the options for crossfade transition between teaser elements. These settings have similar functionality to the crossfade settings.
Track exceptions - tracks that are excluded from the teaser. This option allows you to exclude very long and very short tracks as well as file types (for example, news, advertising, etc.).

4.19 Relaying

RadioBOSS can relay other network streams during specified time intervals. It supports the automatic transition back to the playlist if the relayed stream becomes unavailable and returns to relaying when the stream is available again.

Use the scheduler to start and stop relaying: when adding an event, click the **Wizard** button, select **Relay** and then select the action: start or stop relaying. Instead of using a wizard, you can enter the commands manually: **relaystart URL** (URL - the address of a stream to relay) or **relaystart 1** (to relay Input 1) to start relaying, **relaystop** to stop.

Use the settings window to change general relaying configuration.

4.20 Record your broadcast

This function can be used both for archiving your broadcasts and preparing prerecorded shows. With RadioBOSS, recording broadcasts is extremely easy.

To use this feature, select the **Stream Archive** item in the Tools menu.

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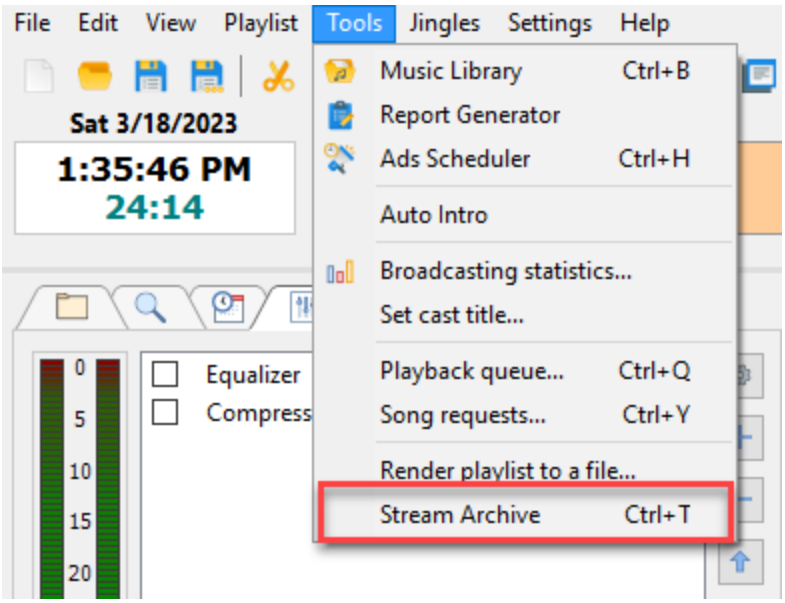
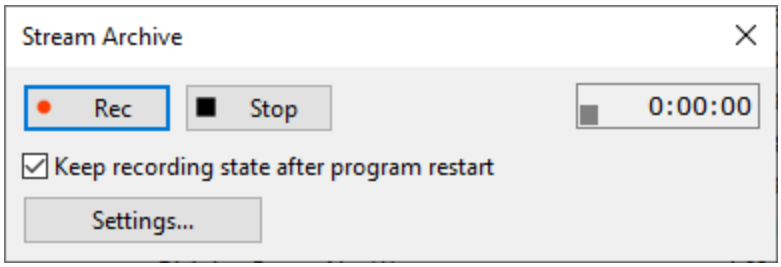


Alternatively, click the **Stream Archive** button on the toolbar.

A window will appear, where you can configure all necessary settings for recording a program. You can start or stop recording automatically, by adding the **streamarchive** command to the scheduler.



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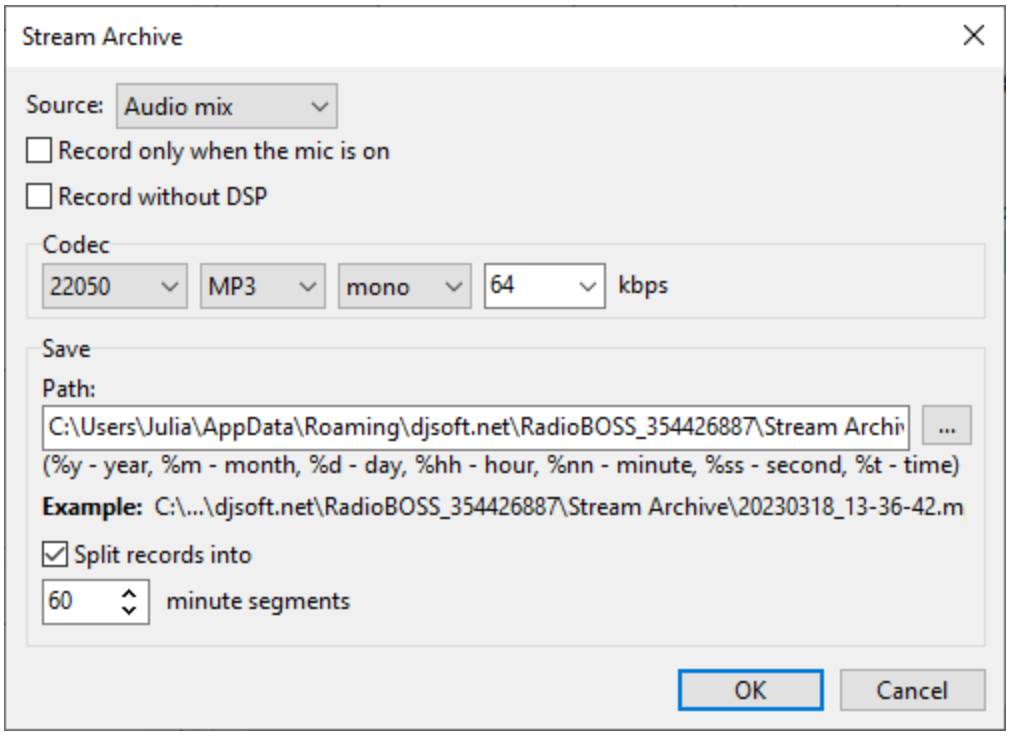

4.21 Render playlist to a file

RadioBOSS supports rendering a playlist to a single audio file. This allows creating mixes that can be replayed later or uploaded to hosting platforms. The resulting mix takes into account all usual playback settings - crossfading, levels, etc.

To create a mix, please use the **Tools** - **Render playlist** to file menu command. In the window, select the audio format and press the **Render** button. After pressing the button, a window will appear where you need to select where to save the file. When the process is complete, you will see **Done** entry in the log.

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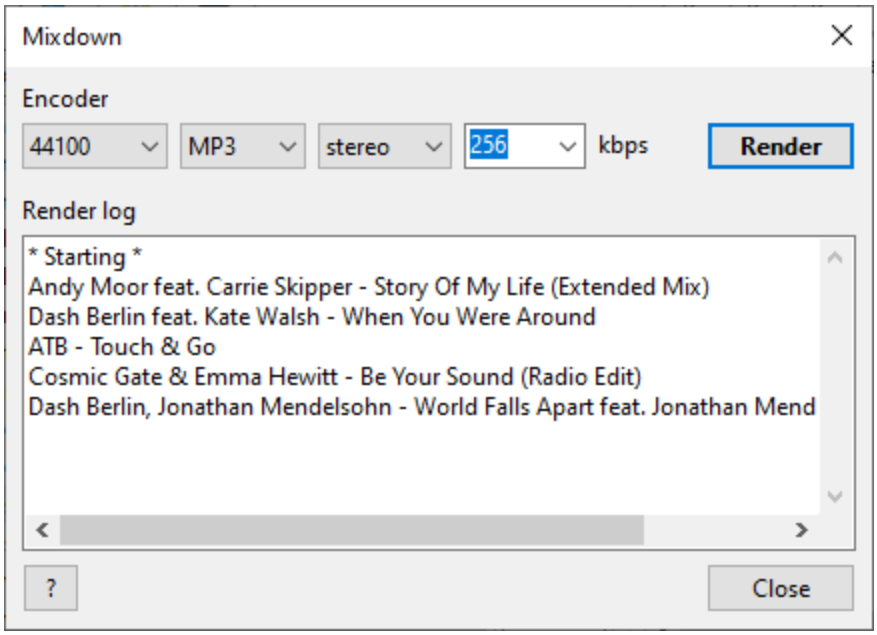

4.22 Remote Control API

You can control RadioBOSS remotely by using its Remote Control API.

Enable and configure this feature via the Settings window: Configure Remote Control API.

HTTP remote control API reference

Note: When generating a request string, use one of the URL Encoding functions for parameters. For example, use **urlencode** (http://www.php.net/manual/en/function.urlencode.php) for PHP. Requests should be sent in UTF8 encoding.

I. Executing a command. You can use the same commands as in the scheduler. Here's the list of commands available: Scheduler commands
Commands that can not be used from the API: getrandomplaylist, getfile, playrequestedsong

Syntax:
http://IP:Port/?pass=PASSWORD&cmd=COMMAND
(substitute "COMMAND" and "PASSWORD" accordingly)

Example 1: Play the next track (command: next)
http://127.0.0.1:9001/?pass=WxPe2JXh&cmd=next

Example 2: Play the first track in the playlist (command: "play 1")
http://127.0.0.1:9001/?pass=WxPe2JXh&cmd=play%201

II. Performing an action

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Syntax:
http://IP:Port/?pass=PASSWORD&action=ACTION
(substitute "ACTION" and "PASSWORD" accordingly)

Possible ACTION values:

<table>
<tr>
<td>playbackinfo
get playback information</td>
<td>Returns an XML containing the current and next track information, and playback position, state and some other information.

Example
http://127.0.0.1:9001/?pass=WxPe2JXh&action=playbackinfo

An example of data returned: show

<?xml version="1.0" encoding="utf-8"?>
<Info>
<CurrentTrack>
<TRACK ARTIST="50 Cent" TITLE="I'll Still Kill feat Akon Track 4" ALBUM="Curtis" YEAR="2007" GENRE="Unknown Genre" COMMENT="http://www.689.ru/" FILENAME="D:\disko\Artist\50 cent\50 Cent - I'll Still Kill feat Akon Track 4.mp3" DURATION="00:00" PLAYCOUNT="26" LASTPLAYED="2019-02-02 04:26:57" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" CASTTITLE="" LISTENERS="0" />
</CurrentTrack>
<Playback pos="0" len="-11" state="stop" playlistpos="0" />
<Options repeat_list="0" shuffle="0" />
<Features scheduler="0" />
<Streaming listeners="0" />
<Relay On="0" Active="0"/>
<PrevTrack>
<TRACK ARTIST="50 Cent" TITLE="Outta Control" ALBUM="Massacre" YEAR="" GENRE="" COMMENT="" FILENAME="D:\disko\Artist\50 cent\50_Cent_-_08_-_Outta_Control.mp3" DURATION="03:21" PLAYCOUNT="0" LASTPLAYED="" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" CASTTITLE="" />
</PrevTrack>
<NextTrack>
<TRACK ARTIST="50 cent" TITLE="01_Intro" ALBUM="Get rich or die tryin'" YEAR="" GENRE="" COMMENT="" FILENAME="D:\disko\Artist\50 cent\50 cent - 01_Intro.mp3" DURATION="00:06" PLAYCOUNT="34" LASTPLAYED="2019-05-25 12:35:40" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" CASTTITLE="50 cent - 01_Intro" />
</NextTrack>
</Info>

</td>
</tr>
<tr>
<td>inserttrack
insert a track into the playlist</td>
<td>Parameters
"filename" — local file name
"pos" — a position in the playlist where track should be inserted (1 ... N).
Other possible values:
-1: insert into the end of the playlist</td>
</tr>
</table>

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	-2: insert after the playing track **-3**: insert after scheduled tracks **"streamingtitle"** — set broadcasting title for the inserted item **Example** Insert the track "D:\music\track.mp3" http://127.0.0.1:9001/?pass=WxPe2JXh&action=inserttrack&filename=D%3A%5Cmusic%5Ctrack.mp3&pos=-2 **Returns OK** if successful
library download a music library file (xml)	**Parameters** "**filename**" — music library name **Returns:** music library contents **Example** http://127.0.0.1:9001/?pass=WxPe2JXh&action=library&filename=Base
library_edit edit music library	**Parameters** **"type"** — request type: ○ **delete** - delete music track from a music library "**library**" — music library name "**fn**" — path to music file **Returns OK** if successful **Example** http://127.0.0.1:9001/?pass=WxPe2JXh&action=library_edit&type=delete&library=Base&fn=C%3A%5CMusic%5CTrack01.mp3
trackartwork download artwork for the current track	**Returns:** artwork for the currently playing track (or nothing if there is no artwork)
nexttrackartwork download artwork for the next track	**Returns:** artwork for the next track (or nothing if there is no artwork)

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setnexttrack set the next track	**Parameters** "**pos**" — the position of a track in the playlist, which will be selected as a next track (1 ... N) **Example** Set the first track in the playlist to be played next. http://127.0.0.1:9001/?pass=WxPe2JXh&action=setnexttrack&pos=1 **Returns OK** if successful
delete delete a track from playlist	**Parameters** "**pos**" — the position of a track in the playlist, which will be deleted (1 ... N). Multiple values can be specified, comma separated, e.g. **1,3,10**. **Example** Delete second track in the playlist http://127.0.0.1:9001/?pass=WxPe2JXh&action=delete&pos=2 **Returns OK** if successful
move move a track to another position in the playlist	**Parameters** "pos1" — original track position "pos2" — new track position **Returns OK** if successful
mic turn microphone on and off or query microphone status	**Parameters** "**on**" - 0 to turn microphone off, 1 to turn on. If the parameter is omitted, returns microphone status, if parameter presents, returns OK if successful. **0** - off **1** - on **Example** (turn microphone on): http://127.0.0.1:9001/?pass=WxPe2JXh&action=mic&on=1 **Example** (query status): http://127.0.0.1:9001/?pass=WxPe2JXh&action=mic
getplaylist get playlist contents deprecated, please use	Returns: an XML containing the playlist contents. This function reads tag information and can be slow for large playlists. **Parameters:** (optional) "**from**", "**to**" - if set, get tracks from position **from** to position **to** (inclusive), instead of retrieving the whole playlist. An example of data returned: show

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<table>
<tr><td>getplaylist2 instead</td><td>
<pre>
<?xml version="1.0" encoding="utf-8"?>
<Playlist>
    <TRACK ARTIST="Metallica" TITLE="Battery" ALBUM="Master Of Puppets" YEAR="1986" GENRE="Metal" COMMENT="" FILENAME="D:\Metallica\Master of Puppets\01 Battery.m4a" DURATION="05:12" PLAYCOUNT="1" LASTPLAYED="2018-01-16 20:20:30" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" />
    <TRACK ARTIST="Metallica" TITLE="Master Of Puppets" ALBUM="Master Of Puppets" YEAR="1986" GENRE="Metal" COMMENT="" FILENAME="D:\Metallica\Master of Puppets\02 Master Of Puppets.m4a" DURATION="08:35" PLAYCOUNT="1" LASTPLAYED="2018-01-16 20:20:38" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" />
    <TRACK ARTIST="Metallica" TITLE="The Thing That Should Not Be" ALBUM="Master Of Puppets" YEAR="1986" GENRE="Metal" COMMENT="" FILENAME="D:\Metallica\Master of Puppets\03 The Thing That Should Not Be.m4a" DURATION="06:36" PLAYCOUNT="0" LASTPLAYED="" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" />
</Playlist>
</pre>
</td></tr>
<tr><td>getplaylist2
get playlist contents</td><td>
Returns: an XML containing the playlist contents.

Parameters
(optional) "cnt" - max number of tracks to return, 0 = return all tracks

An example of data returned: show
<pre>
<?xml version="1.0" encoding="utf-8"?>
<Playlist COUNT="3" TS="251736906">
    <TRACK STARTTIME="" CASTTITLE="Aerosmith - Amazing" DURATION="05:56" FILENAME="D:\Artist\Aerosmith\Aerosmith - Amazing.mp3" RATING="0" PLAYCOUNT="0" INTRO="00:00" OUTRO="00:00" BPM="" PLAYLISTINDEX="0" INDEX="1" FT_IDX="-1" ITEMTYPE="TRACK" PQUEUE="0" ARTIST="Aerosmith" TITLE="Amazing" ALBUM="" YEAR="" GENRE="" COMMENT="" LASTPLAYED="" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" />
    <TRACK STARTTIME="" CASTTITLE="Aerosmith - Crazy" DURATION="05:16" FILENAME="D:\Artist\Aerosmith\Aerosmith - Crazy.mp3" RATING="0" PLAYCOUNT="0" INTRO="00:00" OUTRO="00:00" BPM="" PLAYLISTINDEX="1" INDEX="2" FT_IDX="-1" ITEMTYPE="TRACK" PQUEUE="0" ARTIST="Aerosmith" TITLE="Crazy" ALBUM="Get A Grip" YEAR="1993" GENRE="Rock" COMMENT="FAN style" LASTPLAYED="" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" />
    <TRACK STARTTIME="" CASTTITLE="Aerosmith - Cryin'" DURATION="05:09" FILENAME="D:\Artist\Aerosmith\Aerosmith - Cryin'.mp3" RATING="0" PLAYCOUNT="0" INTRO="00:00" OUTRO="00:00" BPM="" PLAYLISTINDEX="2" INDEX="3" FT_IDX="-1" ITEMTYPE="TRACK" PQUEUE="0" ARTIST="Aerosmith" TITLE="Cryin'" ALBUM="" YEAR="" GENRE="" COMMENT="" LASTPLAYED="" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" />
</Playlist>
</pre>
</td></tr>
<tr><td>trackinfo
get track information</td><td>
Parameters
"pos" — the position of a track in the playlist

Example
</td></tr>
</table>

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	http://127.0.0.1:9001/?pass=WxPe2JXh&action=trackinfo&pos=2 An example of data returned: show `<?xml version="1.0" encoding="utf-8"?>` `<Info>` `<Track>` `<TRACK ARTIST="Metallica" TITLE="Master Of Puppets" ALBUM="Master Of Puppets" YEAR="1986" GENRE="Metal" COMMENT="" FILENAME="D:\Metallica\Master of Puppets\02 Master Of Puppets.m4a" DURATION="08:35" PLAYCOUNT="1" LASTPLAYED="2018-01-16 20:20:38" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" />` `</Track>` `</Info>`
songrequest add song request	**Parameters** "**filename**" - file name of a requested song (full path) "**message**" - optional, message from a user who requested a song To manually view the list of requested songs, in the menu click View->Song Requests... To automatically play the requested songs use the **playrequestedsong** scheduler command. **Returns OK** if successful
songrequestclear clear the requested songs list	Clears the requested songs list. **Returns OK** if successful

songrequestlist
get requested songs list
	Returns: an XML with requested songs list. Show example
	`<?xml version="1.0" encoding="utf-8"?>`
	`<SongRequest>`
	`<Request filename="C:\Music\Track01.mp3" message="The message" played="False" />`
	`<Request filename="C:\Music\Track08.mp3" message="Another message" played="True" />`
	`</SongRequest>`

encoderstatus
get status of broadcasting encoders
	Returns: an XML containing with encoder status information. Show example
	`<?xml version="1.0" encoding="utf-8"?>`
	`<Encoders>`
	`<Encoder index="0" status="idle" error="" name="96k" listeners="0" />`
	`<Encoder index="1" status="off" error="" name="Icecast 128k" listeners="0" />`
	`<Encoder index="2" status="active" error="" name="localhost:8000" listeners="0" />`
	`</Encoders>`

streamarchivestat	Returns Stream Archive status **0** - off

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us get stream archive status	**1** - on
schedule control scheduled events	**Parameters** **"type" -** the request type, one of: ○ **list** - list events (returns all events in XML format) ○ **delete** - delete an event ○ **run** - run event ○ **add** - add new event ○ **update** - edit event ○ **state** - turn scheduler on or off or retrieve scheduler state **"event"** - XML event data (when **type** is "update" or "add") **"id"** - event ID, you get the event ID when you perform "**list**" query (used when **type** is "delete", "run", or "update") **"set"***on* *off* (when **type** is "state"), if parameter is omitted - returns current scheduler state **"skipnext"** - set to **1** to skip the scheduled event launch (when **type** is "**run**"). **Returns** • for **delete**, **run**, **add**, **update** requests: **OK** if successful • for **state** request: **on** - schedule enabled, **off** - scheduler disabled Event list XML example

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<table>
<tr><td></td><td>
<pre>
<?xml version="1.0" encoding="utf-8"?>
<Events>
<item EnabledEvent="True" UseDate="False" EveryYear="False" Imm="False"
Above="False" FileName="generate [pro] 1h" MuteLev="50" DelPrev="True"
DoNotRunIfStopped="False" bRepeat="True" nRepeatPer="60"
DoNotMarkAsScheduled="False" nRepeat="1" RepeatLimit="False"
TimeToStart="" Shuffle="False" PausePlaylist="False" UseWeeks="False"
Enqueue="False" DelTaskAction="0" DelTaskUseDate="False"
TaskName="Playlist" ClearMainPlaylist="False" UseDaysOfWeek="True"
Hours="000000000000000000000000" Minutes="0" Seconds="0" TimeType="0"
TaskNameAsTitle="False" IntTimeToStart="2147483647" ItemImageIndex="63"
FontColor="-16777208" BackColor="-16777211" GroupName="" DTMFOn="False"
DTMFString="" DTMFOnly="False" DTMFExitOn="False" DTMFExitString=""
MaxTimeWaitOn="False" MaxTimeWaitSec="0" MaxTimeWaitAction="0"
UseFillers="False" FillersSource="" FillersRecurse="True"
FillerMaxAmount="120" Id="DKCODACFWSIKHULWXDUL" Days="1111111"
Weeks="00000" Time="2018-02-17 00:00:00" DelTaskTime="2018-02-17
00:00:00" />
<item EnabledEvent="True" UseDate="False" EveryYear="False" Imm="False"
Above="True" FileName="http://127.0.0.1:8092/live" MuteLev="50"
DelPrev="True" DoNotRunIfStopped="False" bRepeat="False" nRepeatPer="10"
DoNotMarkAsScheduled="False" nRepeat="1" RepeatLimit="False"
TimeToStart="" Shuffle="False" PausePlaylist="False" UseWeeks="False"
Enqueue="False" DelTaskAction="0" DelTaskUseDate="False" TaskName=""
ClearMainPlaylist="False" UseDaysOfWeek="True"
Hours="000000000000000000000000" Minutes="0" Seconds="0" TimeType="0"
TaskNameAsTitle="False" IntTimeToStart="2147483647" ItemImageIndex="56"
FontColor="-16777208" BackColor="-16777211" GroupName="" DTMFOn="False"
DTMFString="" DTMFOnly="False" DTMFExitOn="False" DTMFExitString=""
MaxTimeWaitOn="False" MaxTimeWaitSec="0" MaxTimeWaitAction="0"
UseFillers="False" FillersSource="" FillersRecurse="True"
FillerMaxAmount="120" Id="BBTHCRXFCOENENGPGOFG" Days="1111111"
Weeks="00000" Time="2018-03-13 00:00:00" DelTaskTime="2018-03-13
00:00:00" />
</Events>
</pre>
</td></tr>
<tr><td>getlastplayed
get list of last played tracks</td><td>Parameters
"filter" = 1 - (optional) exclude tracks whose titles have not been sent to the server

Returns: an XML containing information about recently played tracks. Show example</td></tr>
</table>

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	<?xml version="1.0" encoding="utf-8"?> <LastPlayed> <TRACK ARTIST="Metallica" TITLE="Master Of Puppets" ALBUM="Master Of Puppets" YEAR="1986" GENRE="Metal" COMMENT="" FILENAME="D:\Metallica\Master of Puppets\02 Master Of Puppets.m4a" DURATION="08:35" PLAYCOUNT="1" LASTPLAYED="2018-01-16 20:20:38" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" STARTTIME="2018-01-16 20:20:38" CASTTITLE="Metallica - Master Of Puppets" /> <TRACK ARTIST="Metallica" TITLE="Battery" ALBUM="Master Of Puppets" YEAR="1986" GENRE="Metal" COMMENT="" FILENAME="D:\Metallica\Master of Puppets\01 Battery.m4a" DURATION="05:12" PLAYCOUNT="1" LASTPLAYED="2018-01-16 20:20:30" INTRO="0.00" OUTRO="0.00" LANGUAGE="" F1="" F2="" F3="" F4="" F5="" STARTTIME="2018-01-16 20:20:30" CASTTITLE="Metallica - Battery" /> </LastPlayed>
readtag read track tag information	**Parameters** **"fn"** - file name **"artwork"** (optional) - **1** to include artwork in response (base64-encoded) **Example** http://127.0.0.1:9001/?pass=WxPe2JXh&action=readtag&fn=D:\Metallica\Metallica%20-%20Darkness.mp3&artwork=1 An example of data returned: show <?xml version="1.0" encoding="utf-8"?> <TagInfo> <File FN="D:\Metallica\Metallica - Darkness.mp3" Duration="446028" Artist="Metallica" Title="Darkness" Album="" Year="" Genre="" Comment="" BPM="" Rating="0" Playcount="0" LastPlayed="2018-01-16 20:20:30" UserField1="" UserField2="" UserField3="" UserField4="" UserField5="" TypeIdentifier="Commercial" TagsList="" Intro="-1" Outro="-1" FadeIn="-1" FadeOut="-1" Mix="561" Level="2.3" Start="166" End="260043" PlayedHistory="2021-06-03 19:50:49 2021-06-03 19:50:49" Artwork_Base64="/9j/4AAQSkZJRgABAQEASABIAAD..." HookIn="-1" HookOut="-1" /> </TagInfo>
writetag write track tag information	**Parameters** **"fn"** - file name **"data"** - new tag data in XML format (same as returned by **readtag**). **Return value** **OK** if successful **Error** with error message text on error
writeartwork update artwork for a track	**Parameters** **"fn"** - file name **"artwork"** - artwork data, base-64 encoded

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	Request must be made using **POST** method, content type **application/x-www-form-urlencoded**
	
	Request example using PHP: show
	`$artwork_fn = 'C:\path\to\artwork.jpg';`
	`$fn = 'C:\path\to\track.mp3';`
	`$api_path = 'http://localhost:9000';`
	`$password = 'api_password';`
	
	`$artwork = file_get_contents($artwork_fn);`
	`$artwork_64 = base64_encode($artwork);`
	`$curl = curl_init();`
	`curl_setopt_array($curl, [`
	`CURLOPT_URL => $api_path,`
	`CURLOPT_RETURNTRANSFER => true,`
	`CURLOPT_HTTP_VERSION => CURL_HTTP_VERSION_1_1,`
	`CURLOPT_CUSTOMREQUEST => 'POST',`
	`CURLOPT_POSTFIELDS => http_build_query(['action'=>'writeartwork'`
	`CURLOPT_HTTPHEADER => ['cache-control: no-cache', 'content-type:`
	`]);`
	`curl_exec($curl);`
	
	Return value
	OK if successful
	Error with error message text on error

setcasttitle set new title on streaming servers	**Parameters** **"title"** - new cast title **Return value** **OK** if successful

status	Returns: an XML containing RadioBOSS version and uptime in seconds.
	
	An example of data returned: show
	`<?xml version="1.0" encoding="utf-8"?>`
	`<Status>`
	`<Player version="5.9.0.7" uptime="486470" />`
	`</Status>`

getencoder get encoder configuration	**Parameters** "**id**" - encoder ID (0..N), 0 - first encoder in the list **Returns**: XML data with encoder configuration An example of data returned: show

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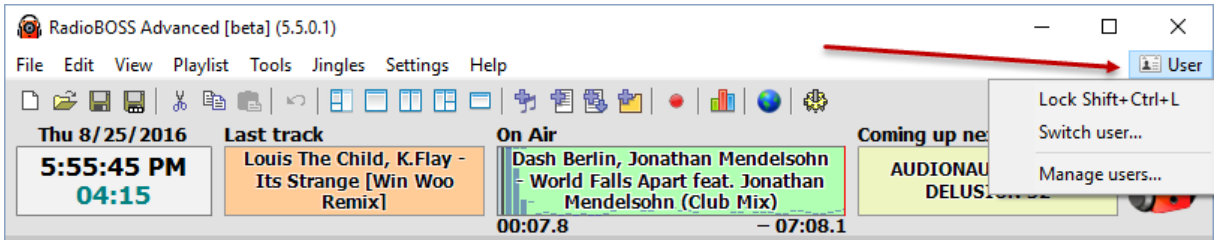
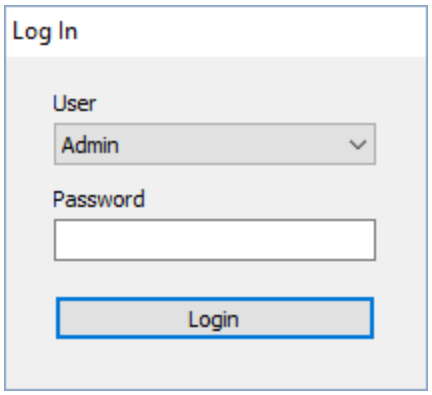
	<?xml version="1.0" encoding="utf-8"?> <Encoder Server="c13.radioboss.fm:8000/live" Password="df4f5k1b" Public="False" Format="0" Bitrate="128" Encoding="0" SampleRate="44100" Channels="2" StatPassword="" DisplayName="" Enabled="False" UseStatsRelay="False"></Encoder>
setencoder edit encoder configuration	**Parameters** **"id"** - encoder ID (0..N), 0 - first encoder in the list, -1 - add new encoder **"data"** - encoder data in XML format (as returned by **getencoder**). **Return value** **OK** if successful
deleteencoder delete encoder	**Parameters** "**id**" - encoder ID (0..N), 0 - first encoder in the list **Return value** **OK** if successful

4.23 User Account Management

The "**User Access Control**" function of RadioBOSS enables you to control users' access to various program features, such as playlist editing; adding, changing and removing tabs; playback control; effects modification, etc. This feature is only available in **RadioBOSS Advanced** edition.



The "**Lock**" function: when this option is enabled, you will see a window that will lock the program until the password is entered or another user logs in:



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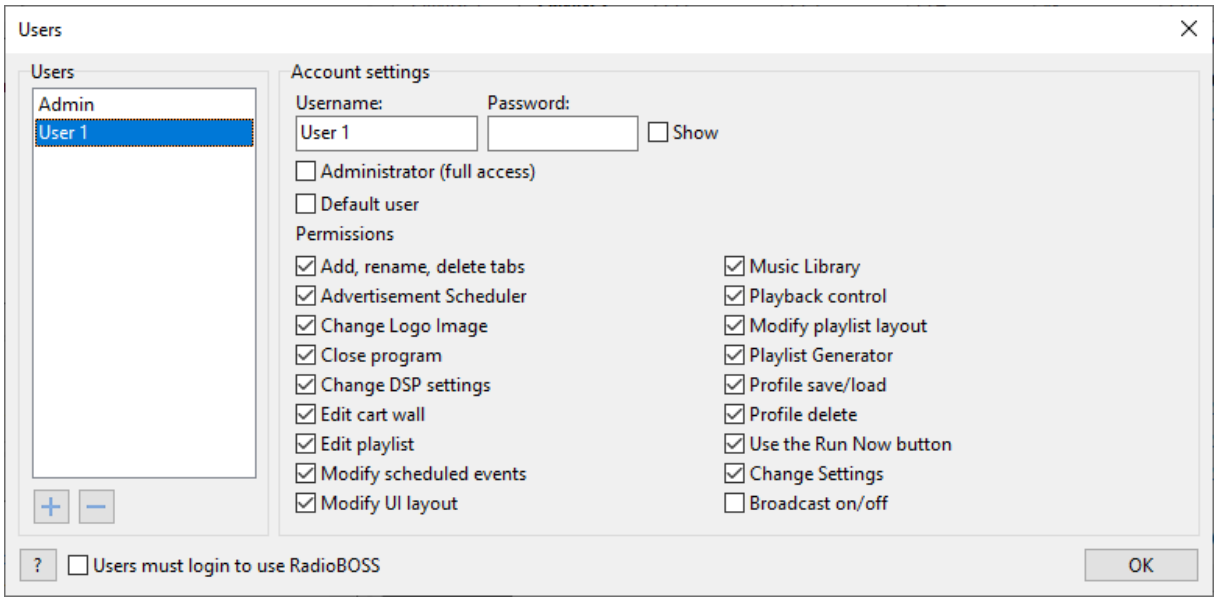
Every option of the **Users** function are easy to configure. User settings can be changed only after entering the admin password.



Enabling the "**Administrator (full access)**" option grants all available permissions.

Default user - this setting selects the user with whose permissions the program will launch.

If you have enabled the "**Users must login to use RadioBOSS**", you will need to enter the password of one of the users to use RadioBOSS.

ATTENTION! Please remember that if you lose or forget the admin password, you may lose access to the program. The first user on the list always has admin rights. If there are other users with admin rights, they cannot remove the first admin, change or view his/her password.

4.24 Additional information storage

Additional information consists of various track properties that RadioBOSS uses in its operation. This information includes: playback count (playcount), last played date, additional track properties (gender, language, BPM, etc), user defined tag fields and some other information.

There are several ways to store the additional information:

- Tag (APEv2)
- Database (SQLite) ***the default***
- Database (MySQL) - requires **MySQL** (from version **3.21** up to version **8.0.23**) or **MariaDB** (from version **5.5** up to version **10.6**); **recommended to use MariaDB**.
- File
- File (subfolder)

All methods have their pros and cons. No configuration is required for APEv2, SQLite, or File storage methods. MySQL option requires a MySQL or MariaDB server, the connection details need to be entered

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into RadioBOSS. The storage method is configured in the settings. Switching between the storage methods is always possible, please see this guide for details.

Storing information in an **APEv2 tag**

Pros

- The information is persistent, as it's stored in the music file: when you copy or move a file, the information is preserved
- No additional files are created

Cons

- The music file is modified each time it's played (to update playcount and other data)
- Not all music files support APEv2, in this case NTFS alternate data streams are used to save the data. Currently NTFS strerams are used for FLAC, WAV, DSF, DFF files.
- Requires write access to music files which is not always possible or desired, especially when network storage is used

Storing information in **SQLite or MySQL database**

Pros

- Music tracks are not modified as information is stored externally
- Can be used with read-only music folders, e.g. network folders, read-only NAS access
- Faster operation: loading information from the database is much faster than reading the file tag
- **MySQL** database allows working with music library from different computers. Important! File paths have to be the same on all computers. E.g. if a network drive with music is mounted, it needs to be mounted under the same drive letter on all computers.
- **SQLite**: you can use a shared (among all RadioBOSS installations on one computer) database or a dedicated database for each installation. Press the Settings button in the General area to configure it. The default is to use a shared database.

Cons

- The information is linked to the music track via its file path, if the file is moved or renamed, the information will be lost.
- **MySQL** database: file names, including path, must not exceed 767 characters.

Notes

- MySQL: if you get an error about "caching_sha2_password" please execute the following SQL command in MySQL Command Line Client (change **root** to your user name, and **password** to the user's password):
  - ALTER USER '**root**'@'localhost' IDENTIFIED WITH mysql_native_password BY '**password**';

Storing information in **File / File (subfolder)**

Pros

- Easy to backup or copy/move to another computer. The information is stored in an additional file with **.rbdata** extension in the same location as the music file (i.e. for "Track01.mp3", additional file

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will be named as "Track01.mp3.rbdata"). When storage is set to "**File (subfolder)**", all **.rbdata** files are stored in the **.rbdata** subfolder.
- No database is required and music files are not modified

Cons
- An additional file (about 0.5 KB) is created for each music file

4.24.1 Changing additional information storage

In order to change where additional information is located, if you want to transfer data from old location to the new, please follow the following steps:

1. Open Music Library, add music tracks for which you want to perform information storage change (you can open the existing library).

2. Select all tracks in the list.

3. In the menu, click **Tools**->**Convert additional info** command.

4. **Important!** Ensure that "**From**" is correct - it should show the current storage.

5. Change "**To**" to the new storage location.

6. Press the **Start** button and wait until it completes. Close Music Library and all other RadioBOSS modules (e.g. Playlist Generator).

7. Open RadioBOSS, in **Settings**, **General** change **Additional information storage** location to the new storage.

8. Restart RadioBOSS.

4.25 Additional features

4.25.1 Editing tags

RadioBOSS has a built-in audio tag editor. It supports ID3v1, ID3v2, Xiph, MP4, WMA, and other tag formats. You can see the tag editor below the playlist window.

If the tag editor is hidden, do either of the following:
* Press Ctrl+I
* Click the small (i) icon below the playlist
* In the menu, click View -> Track Information

Xiph (Vorbis) Comment (used for FLAC, OGG and OPUS files) supports multiple Artist entries, in this case, RadioBOSS will display all artists separated by a comma.

Please note! If tag editing has been started, track information is not updated, until changes are saved or canceled (the buttons to save or cancel changes are in the bottom right corner).

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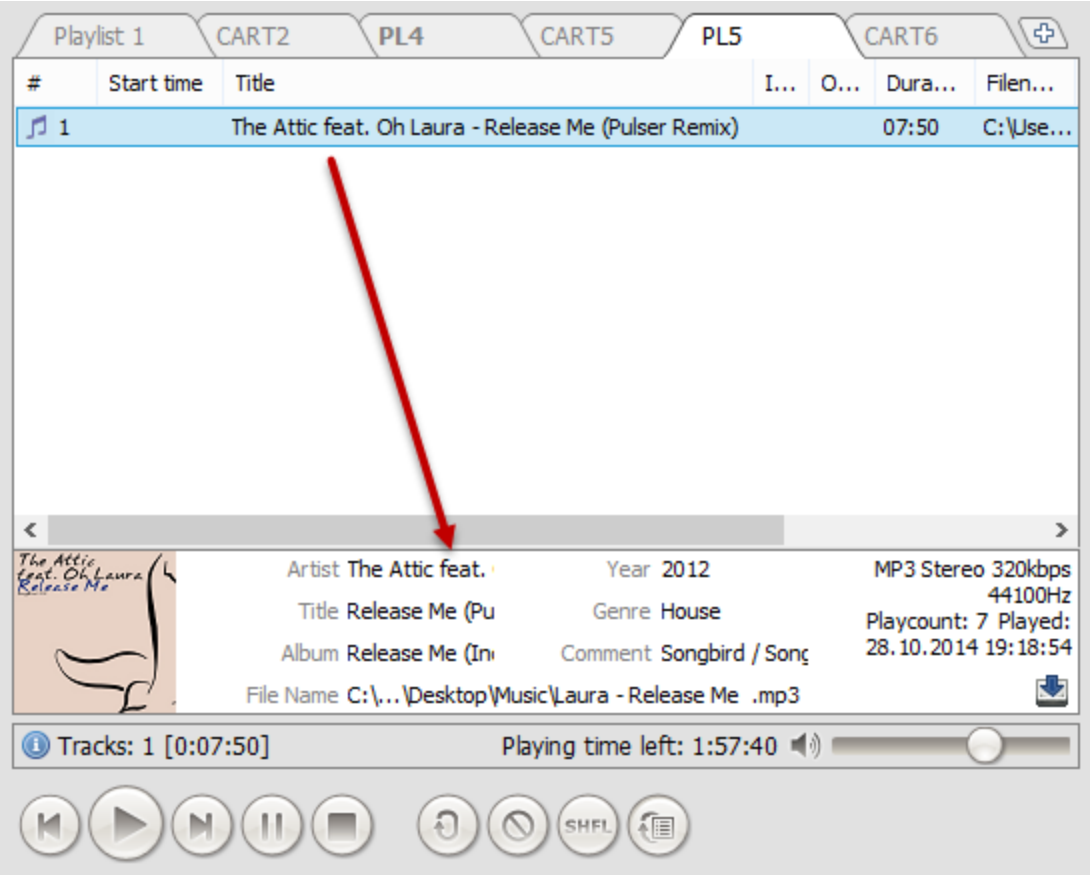

If there is no information about a track, you can enter the information manually. Just right-click on the information panel and select "Extract artist/title from filename". To save a tag, press enter or click the Save button in the bottom-right corner.

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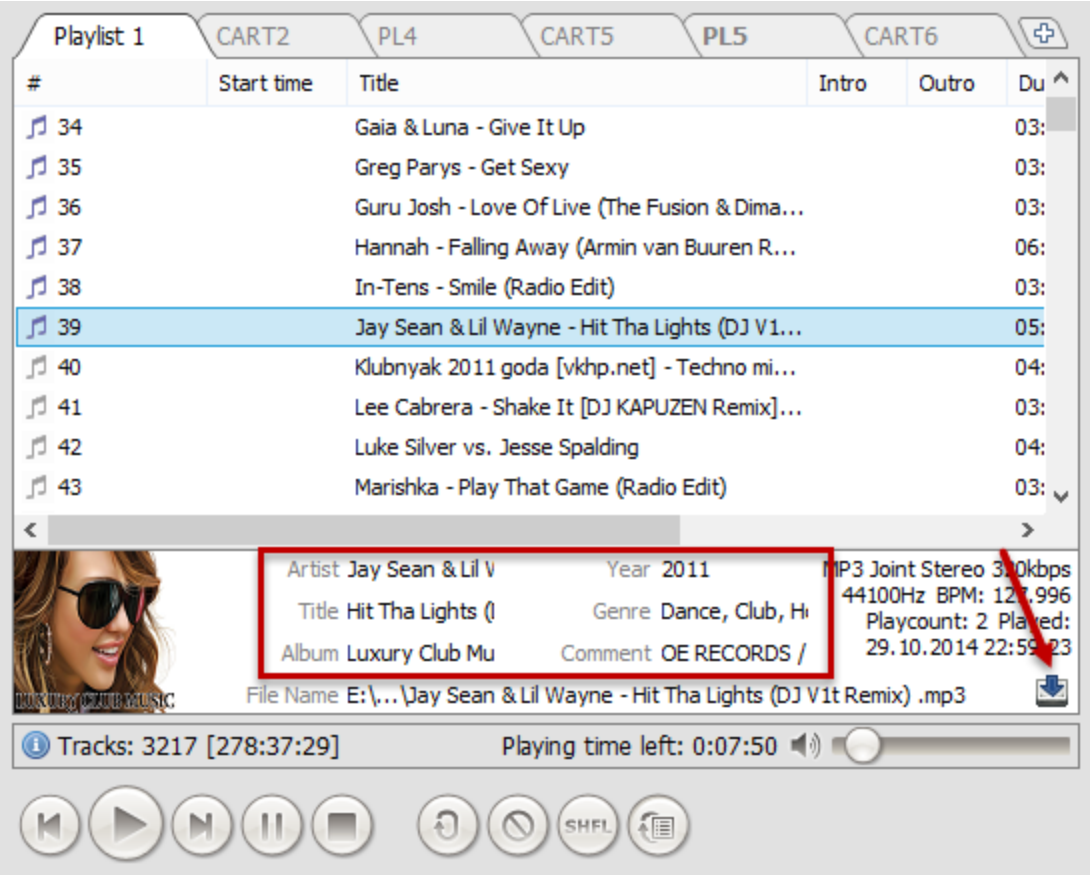

More information:
[Playlist window]

4.25.2 Playback queue

The playback order in the playlist can be changed using the Playback Queue feature. It allows you to modify the playback order without the need to relocate the tracks in the playlist.

- To add a track to the playback queue right-click a track in the playlist and select **Add to playback queue**.
- To remove a track from the queue, right-click a track and select **Remove from playback queue** (this command is only visible for the tracks that are in the playback queue).
- View and playback queue: in RadioBOSS top menu bar click **Tools** - **Playback queue...**

Tracks that are added to the queue are marked with the order number in brackets.

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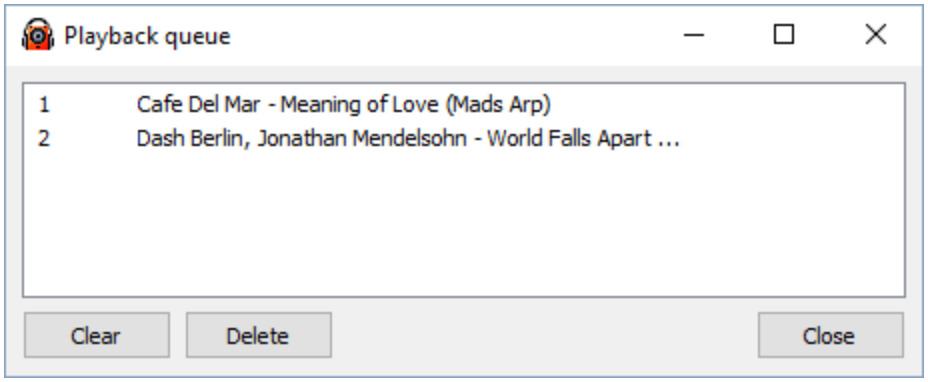
Playback queue edit window:



4.25.3 Hour markers

In order to enable **Hour Markers** right-click the playlist tab and check the "Show hour separation markers" option.

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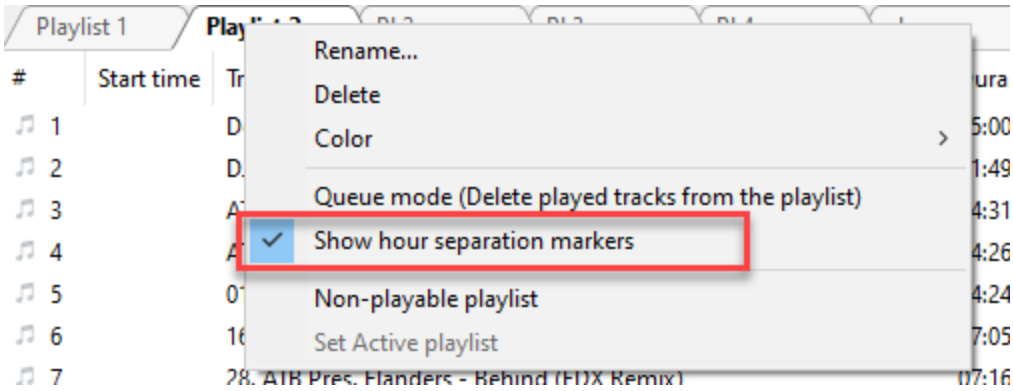
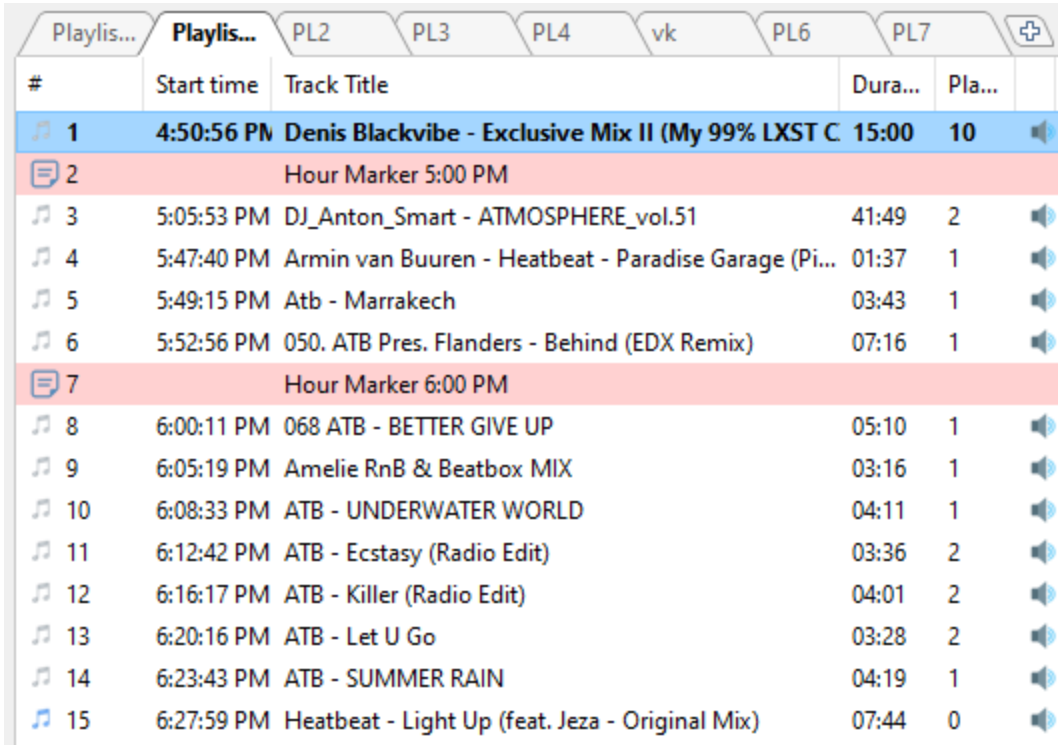


Hour markers will be automatically inserted when a track is started to play, or "Calculate start time" feature is used (right-click a track in the playlist). You can change how markers look in the playlist in the File Type settings.



4.25.4 Automatic time announcements

RadioBOSS can automatically "say" the current time.

To add a time announcement, use the menu: Playlist -> Add time announcement.

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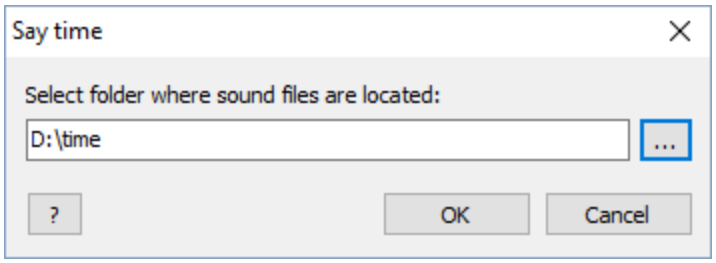

A window will open, prompting you to select a folder with voice files. The folder should contain 24 sound files for hours and 60 files for minutes.

File naming convention:

- Hour files. Each hour file must have the letter "h" and a two-digit number in the file name. For example, the file "hr_05.mp3" should say "it's 5"; this file will be followed by a minute file. For exact hours, hour files with the letter "o" in the name are used. For example, the file hr_05o.mp3 should say "it's 5 o'clock." (Minutes are not used for exact hours.)
- Minute files. Each minute file must have the letter "m" and a two-digit number in the file name. For example, the file "m_56.mp3" should say "fifty-six."

You can download sample voice files from our website: http://www.djsoft.net/enu/download.htm

You can use Scheduler to start announcements: Click the Wizard button, select "Automatic announcement," and follow the instructions.

4.25.5 Automatic Weather Announcements

Updating weather data for your city

To update the weather data, use the scheduled event with the weather command, for example:
weather New York, US
weather Sydney, AU
(it is recommended to set this event to start every day one or two times to get the actual weather data)

Weather data is retrieved using the OpenWeatherMap service: http://openweathermap.org/

Weather data is available in variables:
Today weather data

?temp	temperature (degrees Celsius)
?temp_f	temperature (degrees Fahrenheit)
?wind_speed	wind speed (meters per second)
?wind_speed_m	wind speed (miles per hour)
?wind_speed_km	wind speed (kilometers per hour)
?wind_name	wind description in English (e.g. "Light Breeze")
?humidity	humidity (percentage)

Weather data for tomorrow (the meaning for variables is the same as for today's weather)

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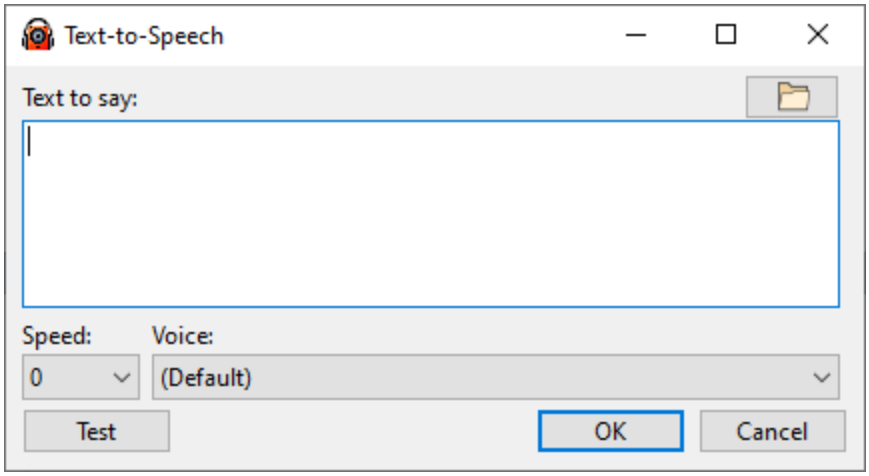
?temp_tom
?temp_tom_f
?wind_speed_tom
?wind_speed_tom_m
?wind_speed_tom_km
?wind_name_tom
?humidity_tom

Automatic weather announcement using Text-to-Speech (to add TTS, in the top menu click Playlist->Extra->Add Text-To-Speech)



Phrase example:
Temperature today is ?temp degrees Celsius wind speed is ?wind_speed metres per second ?wind_name humidity is ?humidity percent. Tomorrow ?temp_tom degrees Celcius ?wind_speed_tom metres per second ?wind_name_tom humidity is ?humidity_tom percent.

If using built-in voices in Windows, better results are achieved if using Windows 8 or newer.

Automatic weather announcements using pre-recorded files with temperature and humidity

Humidity and temperature files should be named to contain the numeric value, examples.
"**TMP29.mp3**" - temperature file saying "29 degrees Celsius".
"**TMP-10.mp3**" - "minus 10 degrees Celsius"
"**HUM3.mp3**" - "humidity is 3 percent"

Create a playlist with appropriate track sequence, for instance, 3 tracks:
1. Weather intro
2. Temperature today (add one of the temperature files into the playlist)
3. Humidity today (add one of the humidity files into the playlist)

Save this playlist to a file, e.g. **weather.m3u8**

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Open the playlist in a text editor (you can use the Notepad tab in RadioBOSS to edit the text), the file should look like this:

```
#EXTM3U
#EXTINF:5,INTRO
C:\Weather\WeatherToday.MP3
#EXTINF:2,TMP7
C:\Weather\Temp\TMP7.MP3
#EXTINF:2,HUM5
C:\WeatherAnn\Hum\HUM5.MP3
```

Change the numeric values to variables and save the file:

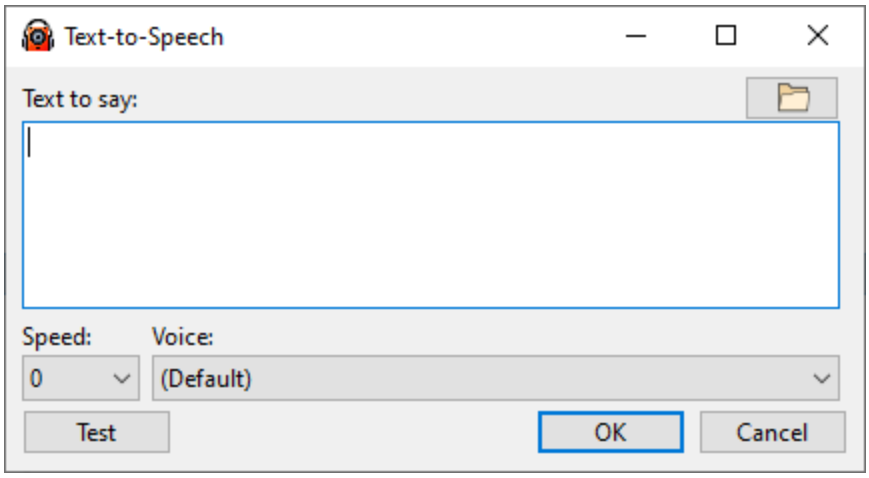
```
#EXTM3U
#EXTINF:5,INTRO
C:\Weather\WeatherToday.MP3
#EXTINF:2,TMP007
C:\Weather\Temp\TMP?temp.MP3
#EXTINF:2,HUM005
C:\WeatherAnn\Hum\HUM?humidity.MP3
```

Schedule this playlist to say the automatic weather announcement - on playback, RadioBOSS will substitute variables with the appropriate values, e.g. **?temp** will become "20" and file name C:\Weather\Temp\TMP**?temp**.MP3 will be converted to C:\Weather\Temp\TMP**20**.MP3

4.25.6 Text to speech

The Voice Synthesizer (text-to-speech) allows you to create automatic announcements that will be read by the program. You can specify the text to be read by the program or specify the path to the file with the text. The file or text can contain XML tags according to Speech API: https://msdn.microsoft.com/en-us/library/ms717077(v=vs.85).aspx

In the synthesizer settings, you can select the voice and the reading speed. It is recommended to choose the voice according to the text language. Additional voices can be installed through the Windows Control Panel.



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The text can contain variables, such as weather data and current date/time
%M - month
%D - day
%dw - day of the week
%h - hour
%m - minutes
%s - second

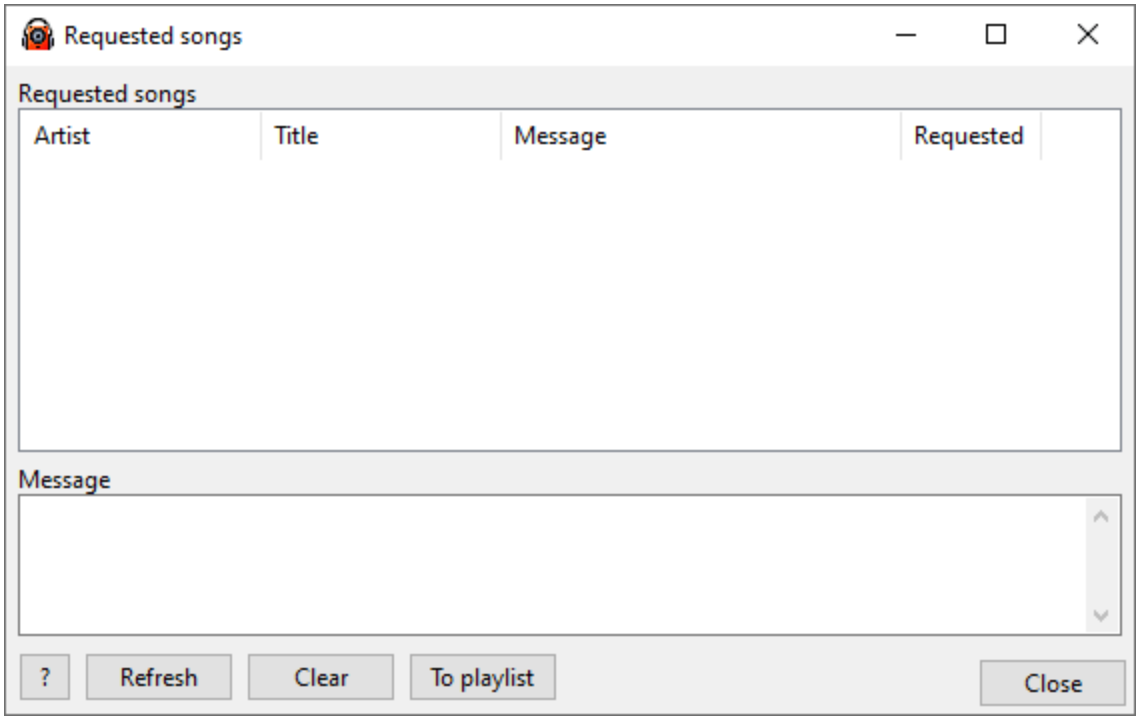
4.25.7 Song request system

RadioBOSS supports automatic song requests. This allows placing song requests automatically via a web site and play them automatically.

To configure the song request system please use the following:

- **songrequest** and other remote control API commands to control the requests: add song requests and clear the requested songs list.
- **library** remote API command to get the contents of the music library
- Song Request window view the current song requests and manually insert songs into the playlist. To open the window, in the main menu click **Tools**->**Song Requests** (or press **Ctrl+Y**)
- **playrequestedsong** scheduler command to automatically play the requested songs

Song request demo script:
https://www.djsoft.net/community/threads/web-site-song-request-demo-script.5168/



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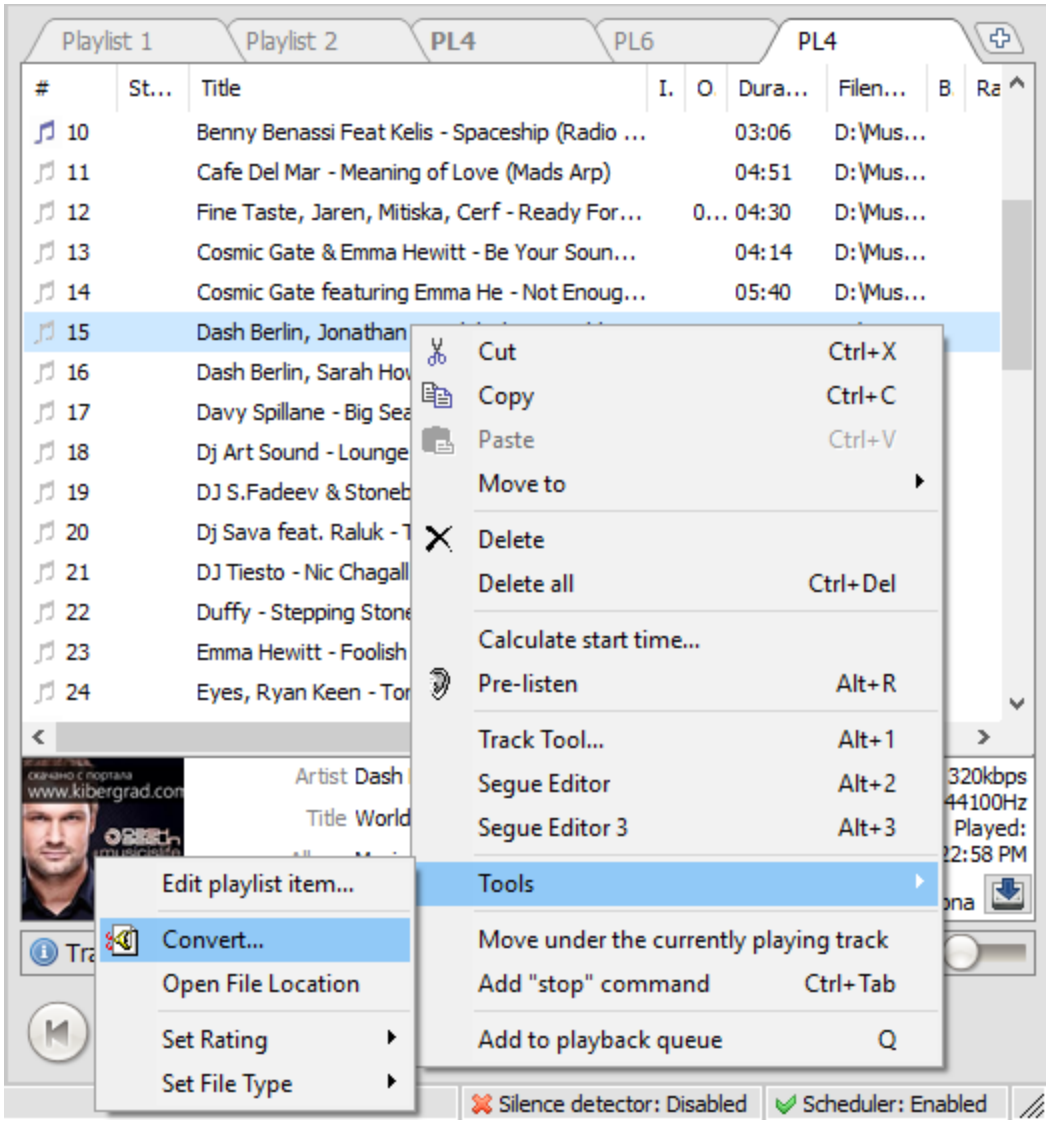
4.25.8 Converting to other formats

RadioBOSS has a built-in audio converter designed to help converting files to other audio formats and rip audio CD disks.

To convert a file to a new format, follow the steps below:

1. In the **Playlist** window right-click a file.

2. In the right-click menu select **Tools** -> **Convert...**



The **Converter** window appears. Now it is necessary to configure the output settings, including the output folder and codec. The output folder is a directory on the hard disk drive where converted tracks are saved and stored.

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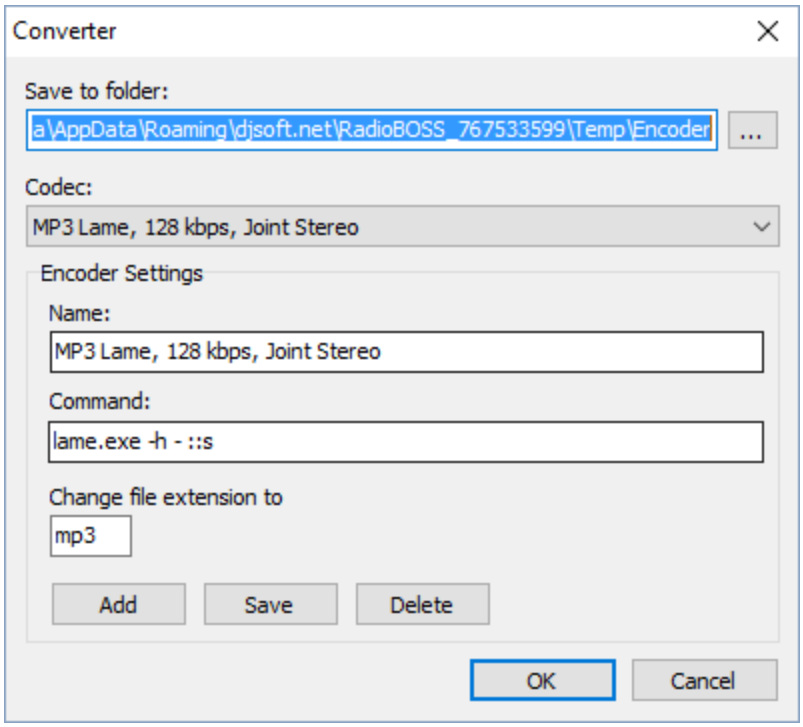
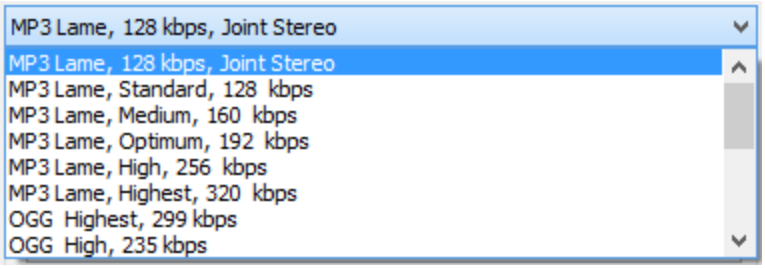


3. Select the output folder and codec.

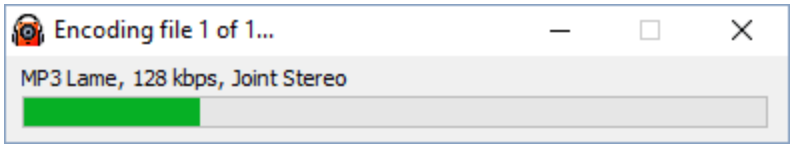
The Codec menu lets the user select the codec with a desired bitrate.



Now it is necessary to save the selected settings.

4. Click **OK**

The encoding process will start. The user can see the progress bar that shows the encoding process.



Once encoding is over, the encoded file can be found in the selected output folder.

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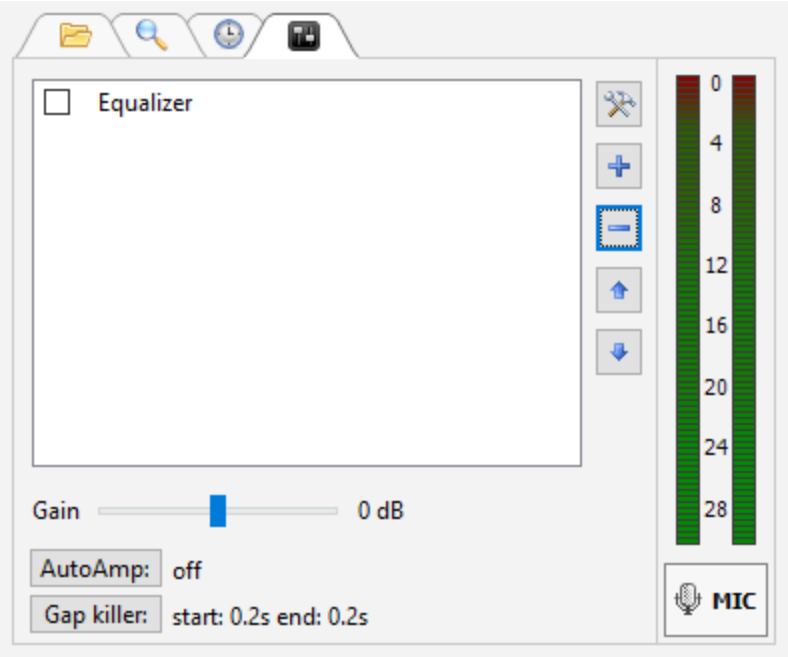
More information:
Enabling plugins

4.25.9 DSP manager

RadioBOSS lets you use VST and WinAmp DSP plugins (dsp_*.dll), except ones that change the speed of a stream. You can also use an integrated DSP (e.g. Equalizer or Compressor).

To open the DSP manager, select the FX tab on the control panel:



To add a DSP, click the "+" button. To remove a DSP, click the "–" button. To change DSP parameters, use the configuration button .
To move DSP up/down, use the up-arrow/down-arrow button. DSPs are applied from top to bottom.

If you click the "+" button, all available DSP effects will be shown:

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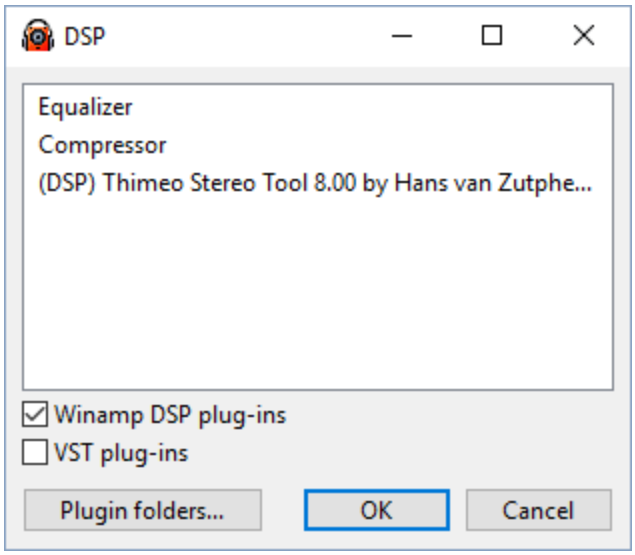
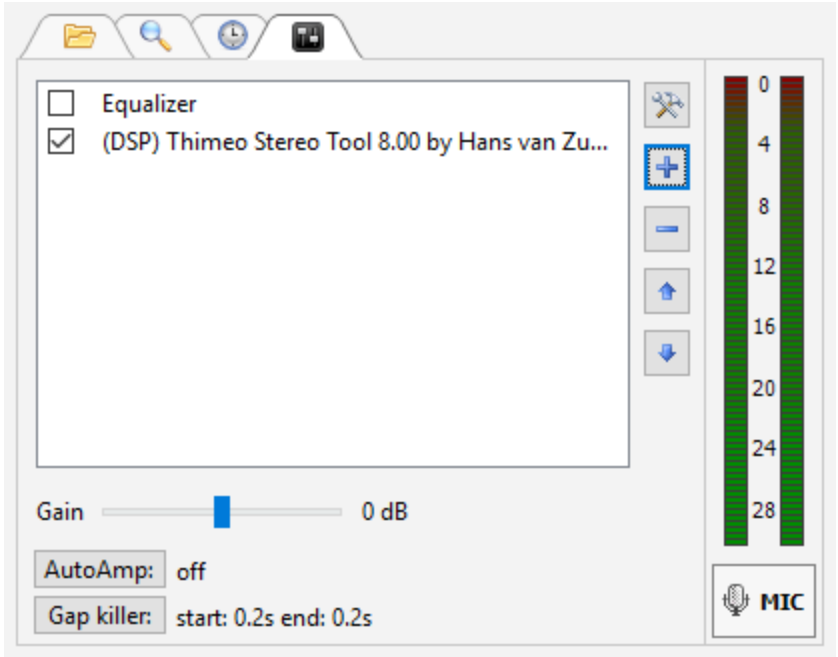


Check the **Winamp DSP plug-ins** and/or **VST plug-ins** check boxes if you want to use these plugins. To open the folder containing Winamp DSP plugins for RadioBOSS, click "**Plugin folders...**"

Select a plugin and click OK. The plugin will be added to the DSP chain:



To turn DSP effects on/off, check/uncheck them in the list.

To install a WinAmp plugin, follow these steps:

1. Download and install the plugin.

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2. Open the plugin installation folder (usually "C:\Program files\Winamp\Plugins") and copy the plugin-related files from there to RadioBOSS's Winamp plugins folder ("**<RadioBOSS_Dir>\Plugins**").

3. After installing the plugins, check the **Winamp plug-ins** check box on the Plugins tab. All detected Winamp plugins should appear on the list.
Select the plugin that you want to start, and click the **OK** button.

4.25.10 DTMF tone generator

The DTMF tone generator in RadioBOSS allows to insert DTMF tones to the audio stream. Standard DTMF tones are supported: 0 - 9, A, B, C, D, # and *.

To insert DTMF into the playlist, in the top menu click **Playlist** -> **Extra** -> **Add DTMF tone generator**. Enter the DTMF sequence, e.g. "76AC" and click OK. The special track will be added to the playlist, when played, it will produce the DTMF sequence.

To create a scheduled event that will play the DTMF tone: create a scheduled event, and use the **dtmf=sequence** command, e.g. dtmf=76AC.

4.25.11 Virtual Sound Cards

RadioBOSS allows you to use one or several virtual sound cards (the number of cards is unlimited). Virtual cards are integrated into the program and require no separate installation. You can add, delete and enable/disable them in RadioBOSS playback and recording settings.

What is a virtual sound card and what do I need it for?

Virtual cards help redirect sound from one program to another. For instance, you can put a Skype call on air or redirect sound from a satellite receiver or FM tuner to a program. Each virtual card is a paired input/output: what enters the output (for example, the card is selected as a playback device in some program) can be sent to the input (for example, by selecting a corresponding device as a linear input in RadioBOSS).

Virtual cards are provided by VB-Audio Software (www.vb-cable.com).
The VB-CABLE is donationware (all participations are welcome).

4.25.12 Title format variables

The **variables** that can be used in title format settings or when using notifications:

%artist - song artist (from the tag)

%title - song title (from the tag)

%casttitle - formatted track title for broadcasting (Notifications only; we recommend using it to send the current track title)

%album - album name (from the tag)

%year - year (from the tag)

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%comment - comment (from the tag)

%lyrics - song lyrics (from the tag)

%albumartist - album artist (from the tag)

%composer - composer (from the tag)

%publisher - publisher (from the tag)

%copyright - copyright (from the tag)

%genre - song genre (from the tag)

%len - song duration (mm:ss)

%seconds - song duration in seconds

%startsec - song playback start position (seconds)

%endsec - song playback end position (seconds)

%playbackpos - playback position (mm:ss)

%playbackpossec - playback posiiton in seconds

%filename - song file name without path

%filename_ext - song file name with extension, without path

%path - full file path

%playcount - play counter

%listeners - listener number (currently connected listeners)

%showname - name of the current program or show (set using the command **set %showname=TEXT**)

%bpm - playing track BPM

%rating - playing track rating (0..10)

%yyyy or **%yy**, **%mm** or **%m**, **%dd** or **%d** - current date

%hh or **%h**, **%nn**, **%ss**, **%ampm** - current time; if **%ampm** presents, the hour is displayed in 12 hour format, and **%ampm** is changed to AM or PM.

%nextsong - next song title (as shown in the playlist)

%xmldata - current and (if enabled for the nowplaying file) next song information in XML form (Notifications only)

%artwork - currently playing track artwork in PNG format, base64-encoded (Notifications only); recommended to use with POST request type because of large data size. The **Save Artwork** option must be enabled for this variable to work.

%user1 ... **%user5** - custom user fields

%requestedmsg - requested song message when playing the requested song (Notifications only)

%temp, **%humidity** etc - all weather variables (change "?" to "%")

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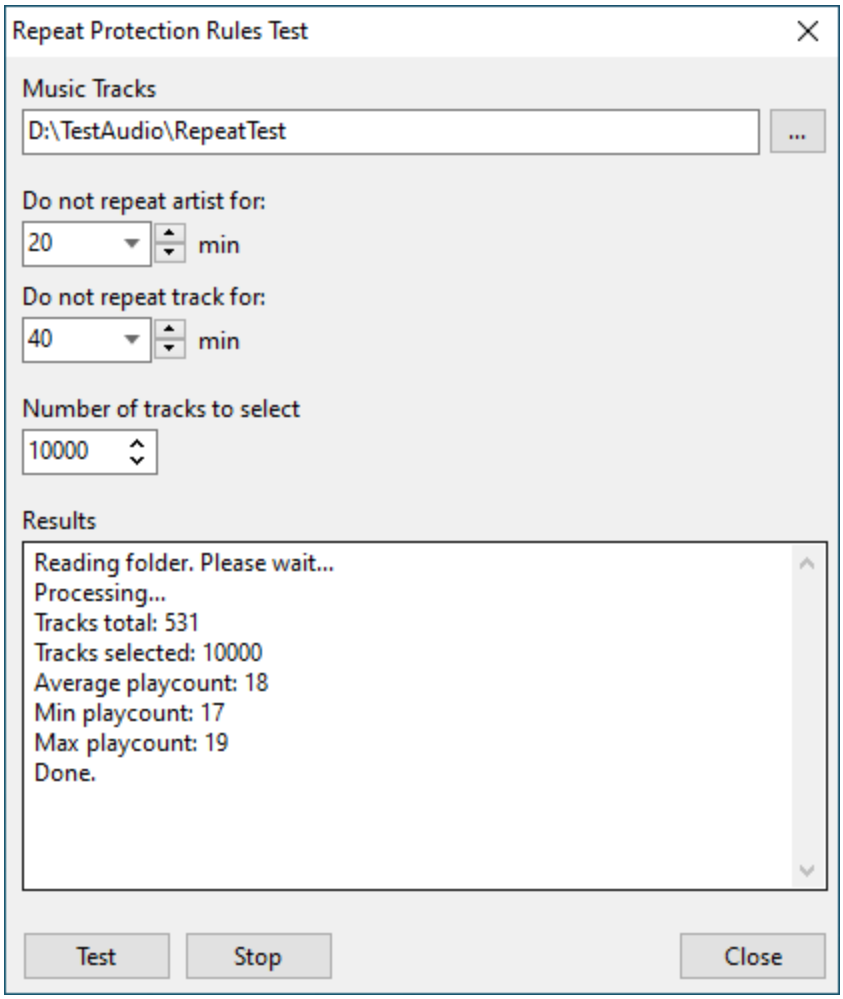
The title format string can include any number of the variables listed above along with any custom text or special characters.

4.25.13 Repeat protection rules

To improve the quality of track selection when using Track List or Playlist Generator, the repeat protection rules should be configured properly. The rules should not be too strict, because it places restrictions and can lead to errors (e.g. inability to find a suitable track) and decreased performance.

In order to find the adequate values for the separation rules, please use the **Repeat protection rules testing tool**. Open Music Library and click **Tools** -> **Repeat Protection Rules Test**. A window will open:



Repeat protection rules testing tool

Using the tool

1. Select the folder with music tracks.

2. Set the repeat protection rules that you want to test.

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3. Set the number of tracks to select from the folder. It should be at least 5-10 times larger than there are tracks in the folder.

4. Click the Test button and wait for the results.

Interpreting the results

When the rules are optimal, the "Min playcount", "Max playcount", and "Average playcount" will be about equal. A difference of 1-3 tracks is acceptable.

When the rules are sub-optimal, the difference between those values will be larger. It's still able to create the playlist, but because the rules are too strict, it does not have many tracks to choose from when selecting the next track. It will lead to some tracks being played more often than the others.

If there are warnings, e.g. "WARNING! Unable to find suitable track; selecting a random track" it means it can't create a playlist using the rules specified.

In case of sub-optimal results, or errors, the rules should be made less strict by lowering the no-repeat periods.

4.25.14 Containers

Containers allow to pack multiple tracks into one item. This is useful when you, for example, need to create a non-breakable group of tracks.

Container item is cross-faded according to the tracks it contains. Fade in for the container item is equal to fade in of the first track in the container. Fade out and mix are equal to fade out and mix of the last track in the container. You can also pack ads playlists into a container. Container contents can be edited: right-click it in the playlist, select Tools->Edit/rename.

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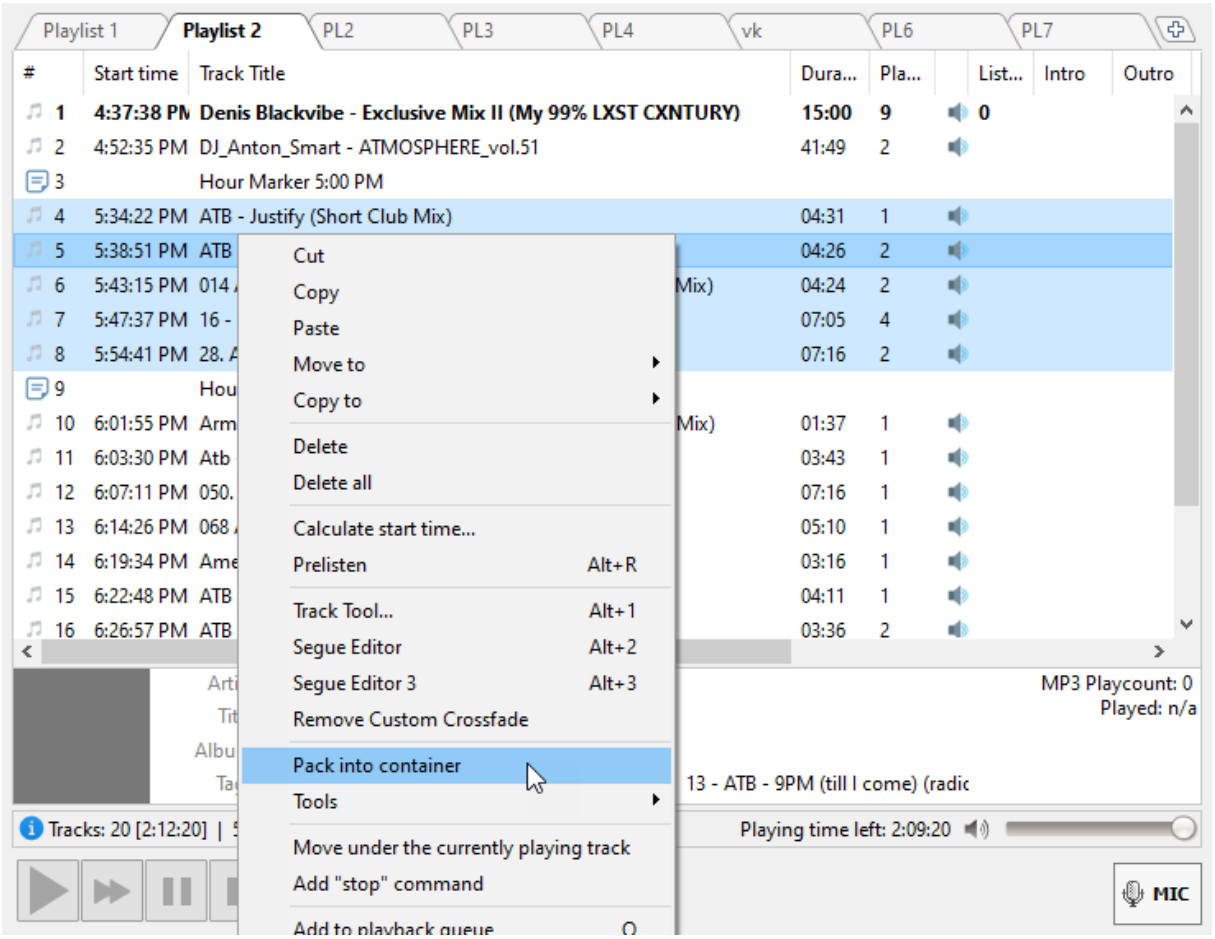

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Part V

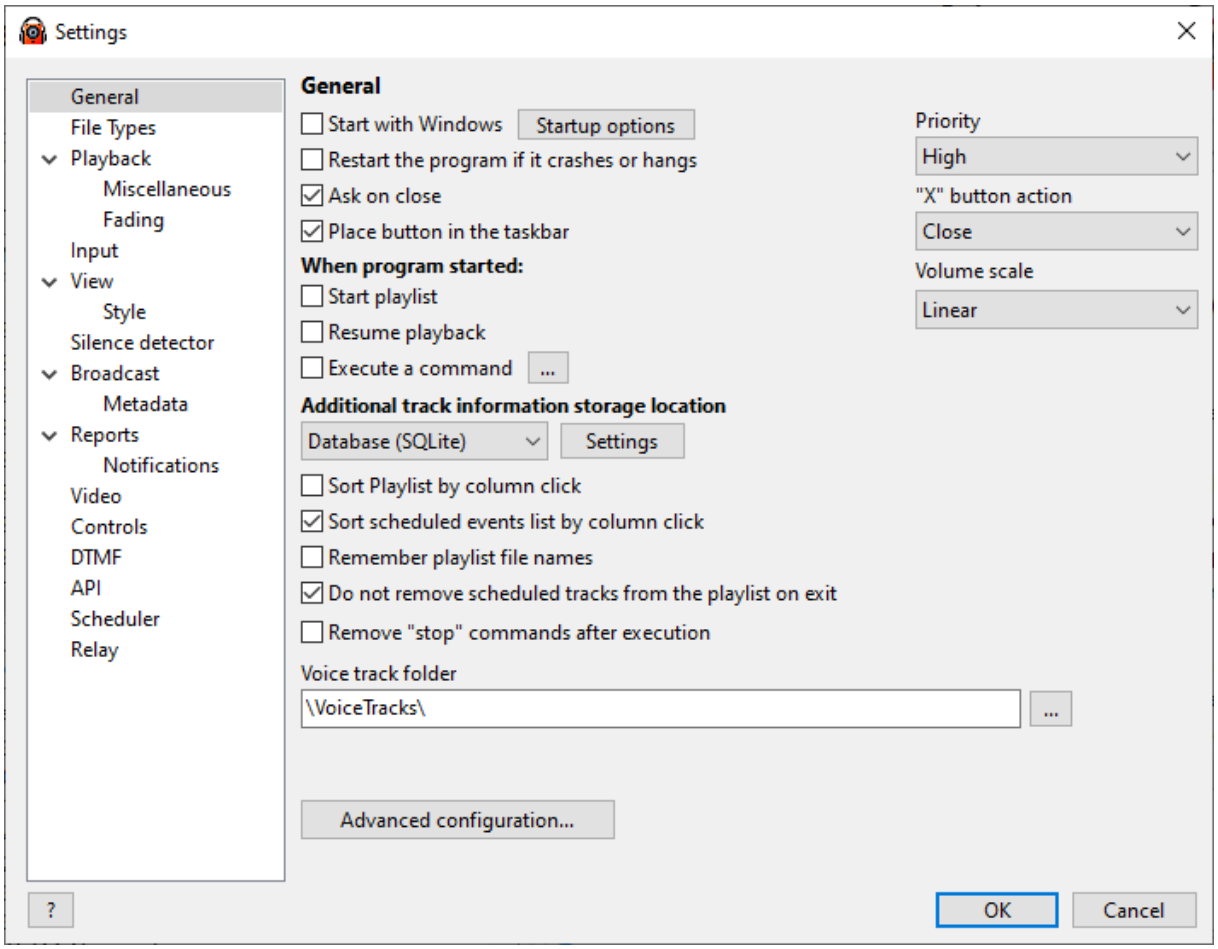
5 Settings

5.1 General

RadioBOSS allows users to customize many options as personal preferences.

To customize the general settings:
On the top menu bar, select **Settings** > **Options...**

The **Settings** dialog opens.



In the **General** window, users can customize these settings:

Start with Windows	Run RadioBOSS at Windows startup. The **Startup options** window allows you to set the program launch delay and modify a few other settings.

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Restart the program if it crashes or hangs	Program will be auto-restarted in case of fatal error, crash or hang. The playback will be resumed automatically.
Ask on close	A confirmation box will appear when you close RadioBOSS.
Start playlist	Play first track in playlist when RadioBOSS is launched.
Resume playback	Resume playback when RadioBOSS is launched.
Execute a command	Execute a command after RadioBOSS is started
Place button in the taskbar	Put the RadioBOSS button in the taskbar. By default, the option is checked.
Sort Playlist by column click	Sort a playlist by clicking on the columns (#, Start time, Title, Intro, Outro, Time, etc.).
Sort scheduled events list by column click	Sort scheduled events list by clicking on the columns.
Additional information storage location	Set the location where additional track information (playcount, last played, additional tag fields, ...) is stored. Options: • Track Tag (APEv2) • Database (SQLite) - default • Database (MySQL) For more information please refer to this page.
Remember playlist file names	If checked the playlist file names for all playlist tabs will be preserved between sessions.
Do not remove scheduled tracks from the playlist on exit	When you exit the program, the scheduled tracks will not be removed from the playlist.
Remove stop commands after execution	Remove "stop" commands from the playlist after they are executed.
Voice track folder	Folder where voice tracks are saved. Only files from this folder are treated as voice tracks.
Advanced configuration...	Fine-tune RadioBOSS settings.

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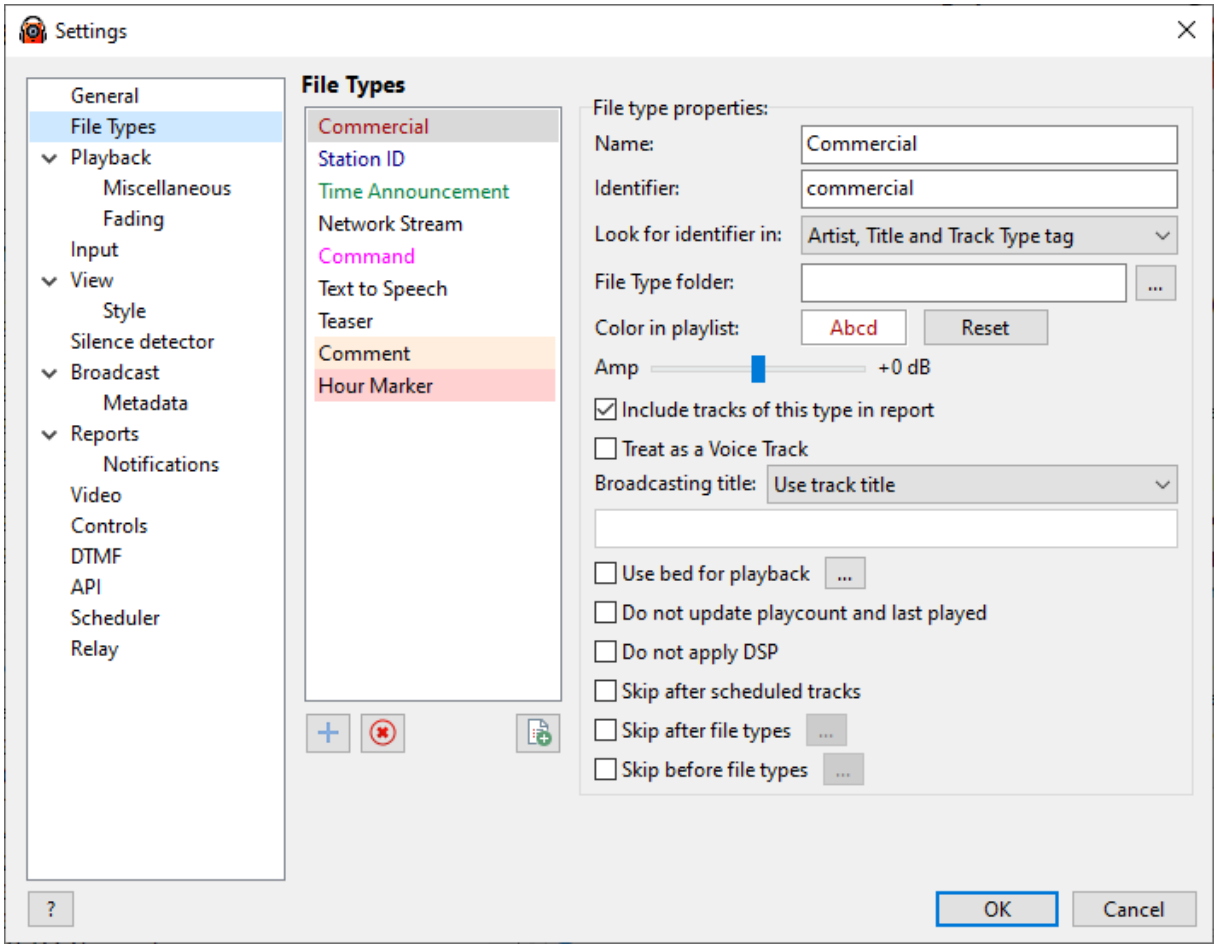
Priority	Select a priority for RadioBOSS. High priority is recommended for smooth playback, this is the default setting.
"X" button action	Set an action to be taken after clicking the **Close** button in the upper-right corner.
Volume scale	Select a volume scale look.

5.2 File types

To customize file types:
On the top menu bar, select **Settings** > **Options...**
Select File Types category.



For more information, please refer to the Using different types of files topic.

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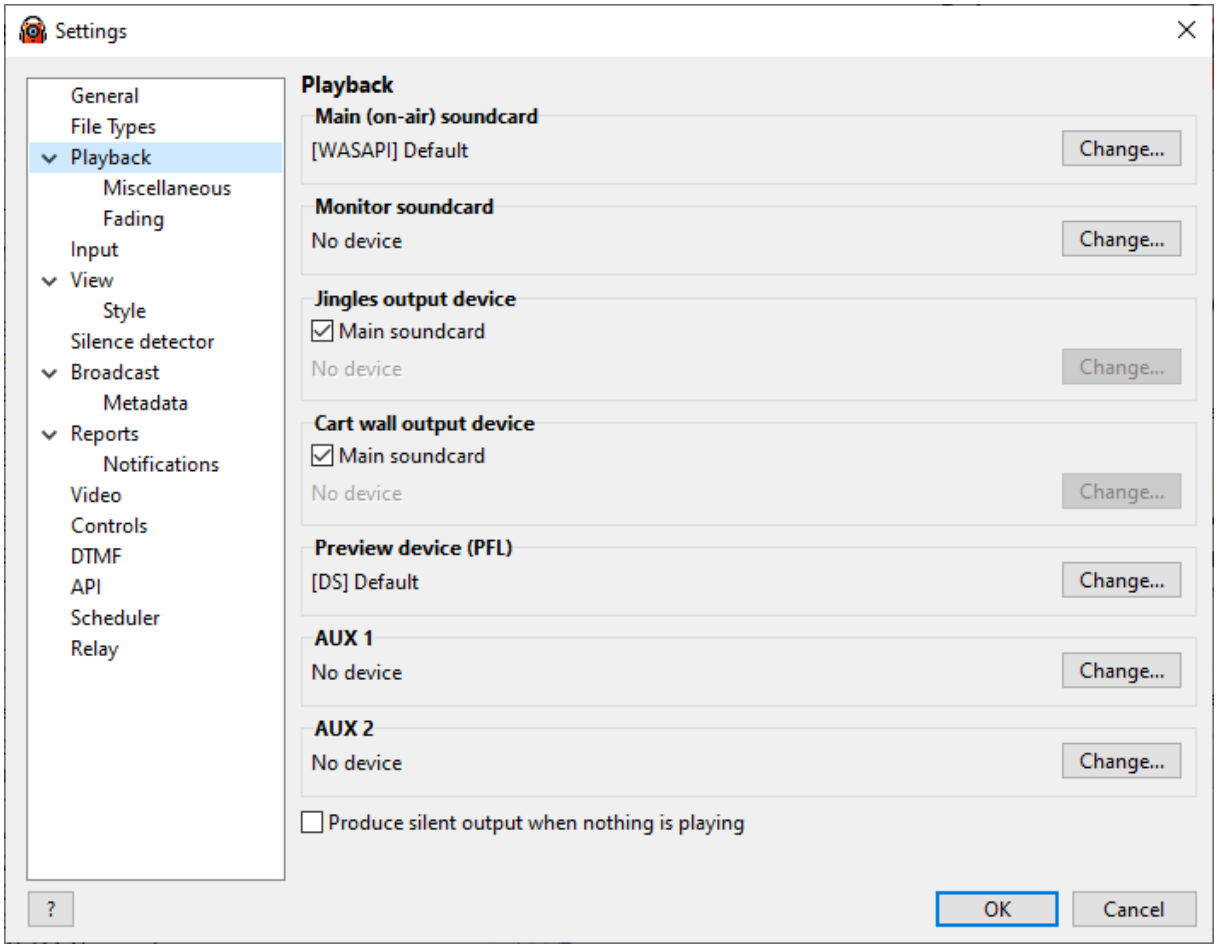
5.3 Playback

Playback device configuration.

To configure the playback properties, follow these steps:
1. On the top menu bar select **Settings** > **Options...**
2. Click **Playback**.



In the Playback window, users can configure Playback Devices:

Main soundcard	Select the main output device that is to be used to play the playlist and scheduled tracks. RadioBOSS takes advantage of ASIO sound cards and Windows 7 WASAPI interface.
Monitor soundcard	In addition to the Main soundcard, RadioBOSS can output the same signal to another sound card. Disabled by default.

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	Warning: do not select the same sound card for Main and Monitor as this will lead to sound problems such as echoing.
Jingles device	Jingles will play on a different device. This setting only affects the quick-access jinlgles, and not jingles in the playlist. If the "Main soundcard" is checked, the jingles will play on the Main soundcard.
Cart wall device	Carts will play on a different device. If "Main soundcard" is checked, the jingles will play on the Main soundcard.
Preview device	Select the "pre-listen" output device and speakers. Users can pre-listen to a track in the player window. To do so, right-click a track from the playlist and from the context menu, select **Pre-listen.**
AUX 1 **AUX 2**	Sound devices which can be used in AUX Players
Produce silent output when nothing is playing	Produce silent stream when nothing is playing

When you click one of the "**Change...**" buttons, window will appear:

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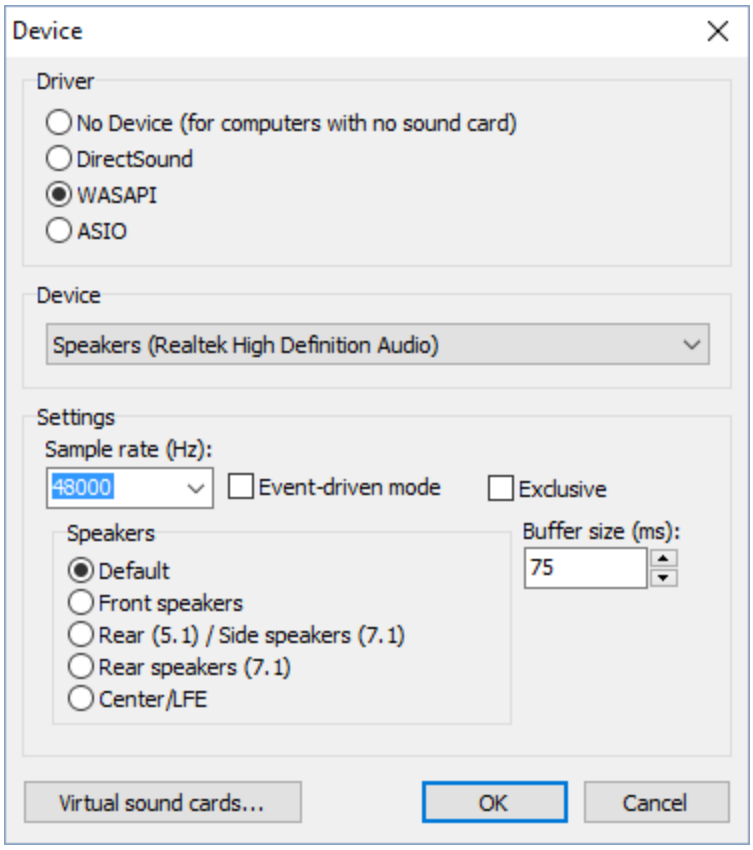

Here, you can set the following:

Driver	Driver you want to use. Recommendations: 1) if you have an ASIO capable sound card, you may want to use ASIO output as this will reduce the latency to a minimum. 2) if you're using Windows Vista, 7 or newer - choose WASAPI. Latency is very low at this mode. This option is not available on Windows XP or prior. 3) otherwise, choose DirectSound If your computer has no sound card or you want to use RadioBOSS for encoding/decoding purposes only (for example, broadcasting) - choose "No Device".
Device	Choose the sound card you want to use. It might be a sound card that presents in the system or a virtual card.
Settings	Set sound card settings: **Sample rate** - sample rate in Hz, 48000 is the default. **Buffer size (ms)** - buffer size, 50 ms recommended for WASAPI, 500 ms when you're using DirectSound. ASIO uses the sound card setting.

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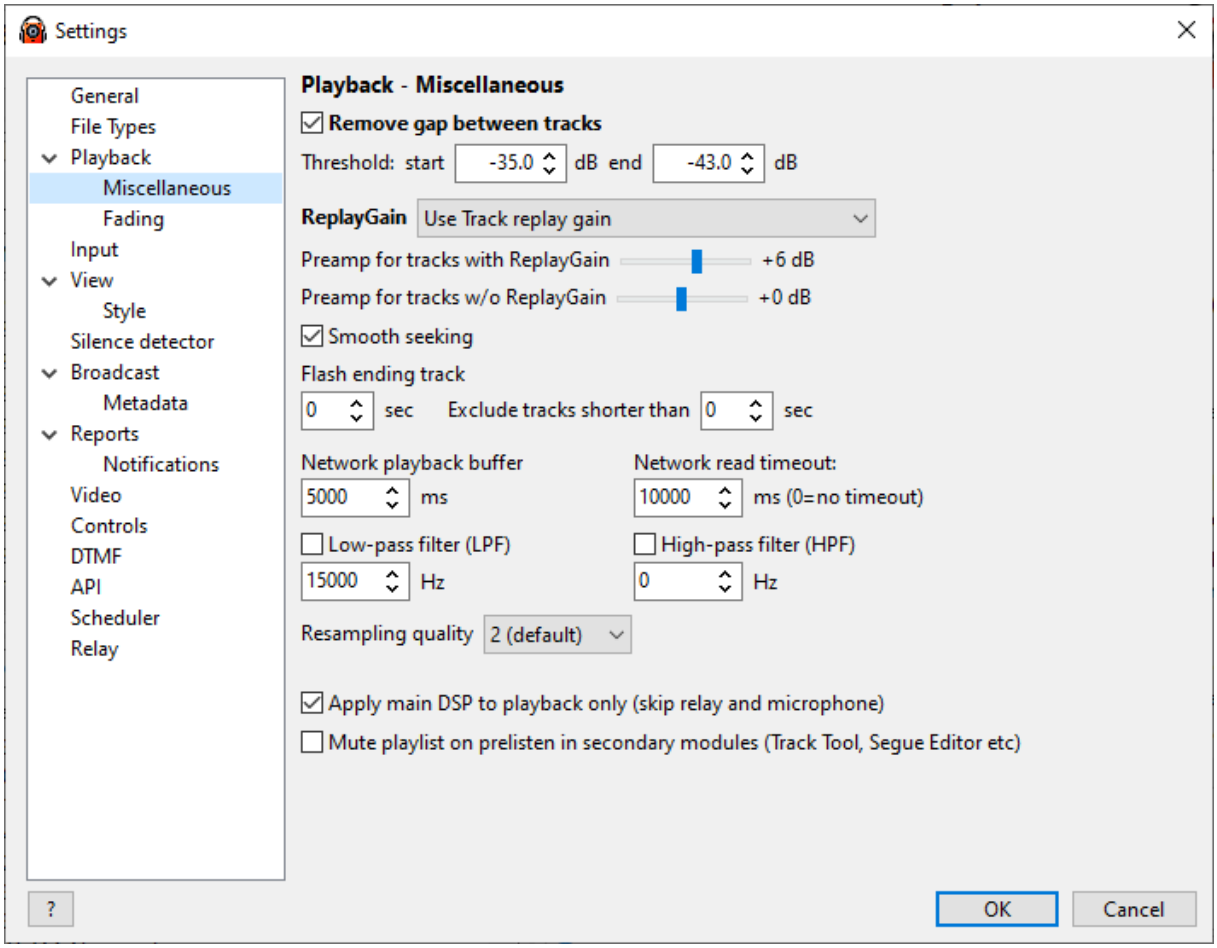
	Output channels (ASIO only) - set channels on which you want to play the sound. To unselect a channel, press DEL key on the keyboard. **Speakers** - select the sound card speakers. For this option to work, with the Windows Sound settings or sound card control panel you should set it to a multi-speaker configuration. **Exclusive** - initialize the device in exclusive mode, else shared mode. Recommended: unchecked. **Event-driven mode** - enable event-driven buffering.

5.3.1 Miscellaneous

Miscellaneous playback settings:



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Remove gap between tracks	Remove the gap between tracks. This will automatically remove silence at the beginning and end of a track. **Threshold** setting controls trimming levels.
ReplayGain	Set how the ReplayGain tag should be treated. As an alternative, we recommend using Normalization.
Smooth seeking	Enable smooth seeking (with short fade)
Proxy for internet streams playback	If you want to use a proxy for network streaming playback, enter its address.
Low-pass filter/High-pass filter	Enable Low-pass and high-pass filters if you need to, and set the cutoff frequency.
Flash ending track	This option will help you keep track of the countdown displayed below the track currently on the air. When the specified number of seconds before the end of the track is reached, the countdown will start blinking red.
Exclude tracks shorter than	You can exclude tracks shorter than the set duration that will blink in red during the countdown.
Resampling quality	Default is 2 (16 point sinc interpolation). 3 is 32 point sinc interpolation, and so on (higher is better).

5.3.2 Fading

Settings for crossfades, cart wall and voice tracking.

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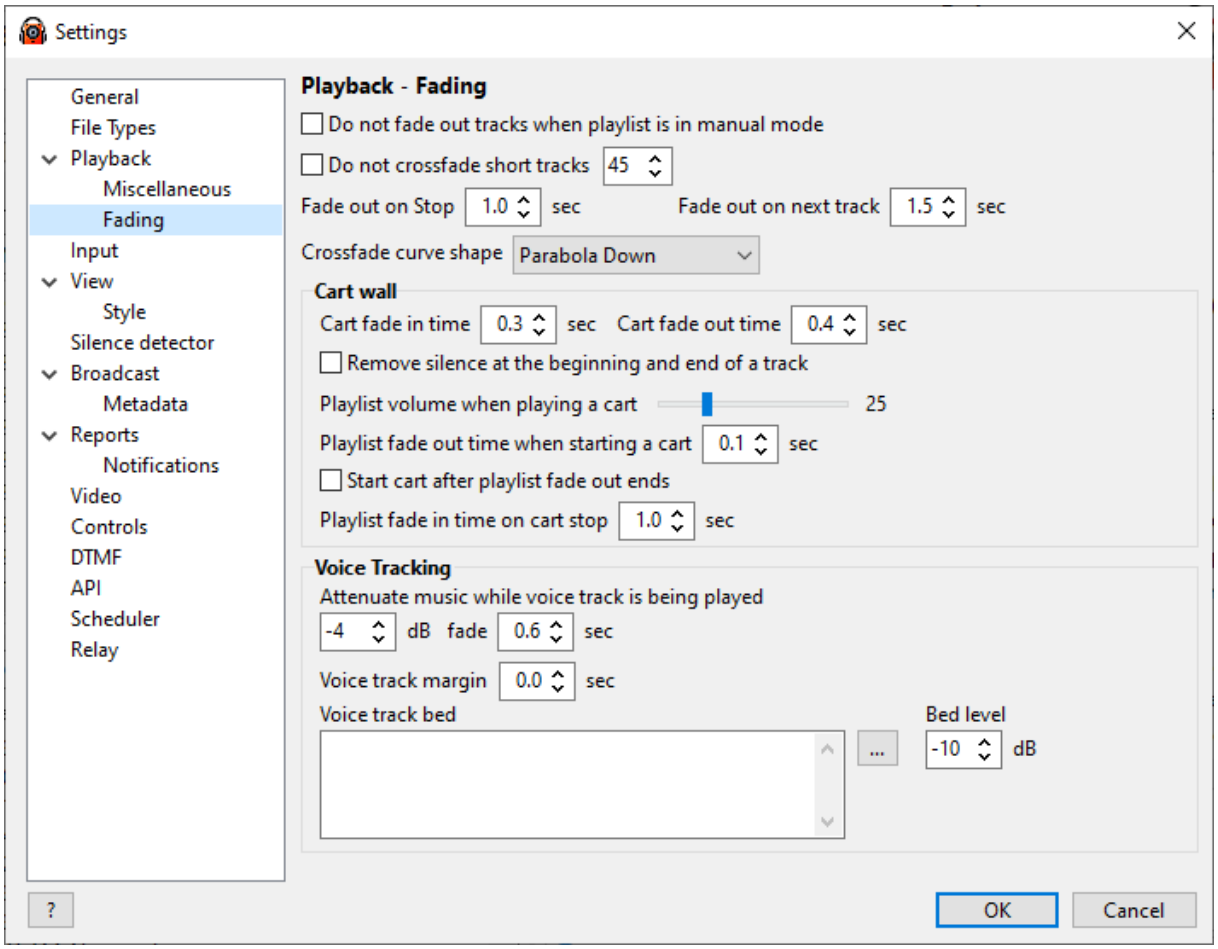

Do not fade out tracks when playlist is in manual mode	When "Stop after this track" button is pressed, the tracks will not be faded out
Do not crossfade short tracks	Tracks shorter than 45 seconds will not be crossfaded
Fade out on Stop	Fade out starts when you click the Stop button. You can stop the track immediately (without fading) by double-clicking the Stop button.
Fade out on next track	Fade out when the Next Track button is clicked.
Crossfade curve shape	Curve shape for the crossfades. **Linear** - the music volume is changed linearly.

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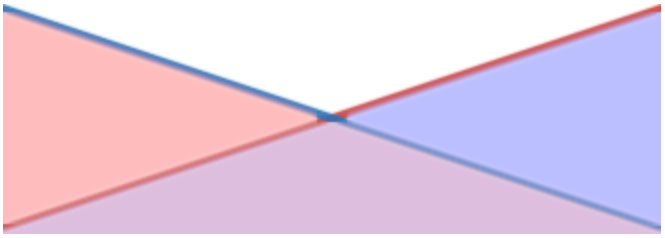
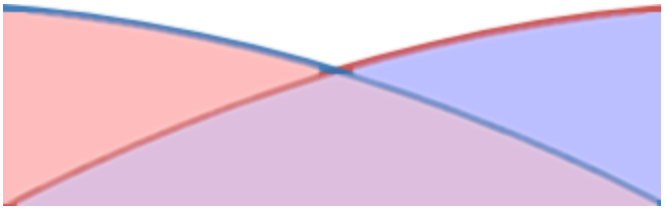
	 **Parabola Down** (default) - the music volume follows the downward parabola shape.  **Parabola Up** - the music volume follows the upward parabola shape.
Cart wall	Set the Cart Wall playback parameters
Voice Tracking	Controls voice track playback

5.4 Input

RadioBOSS allows users to configure the microphone and line-in settings. These settings are used when the line input is played with the Line.IN file, for MIC button and DTMF signal detection.

To configure the microphone and line-in settings, follow these steps:
1. On the menu bar, select **Settings** > **Options...**
The Settings dialog opens.

2. Click **Input**.

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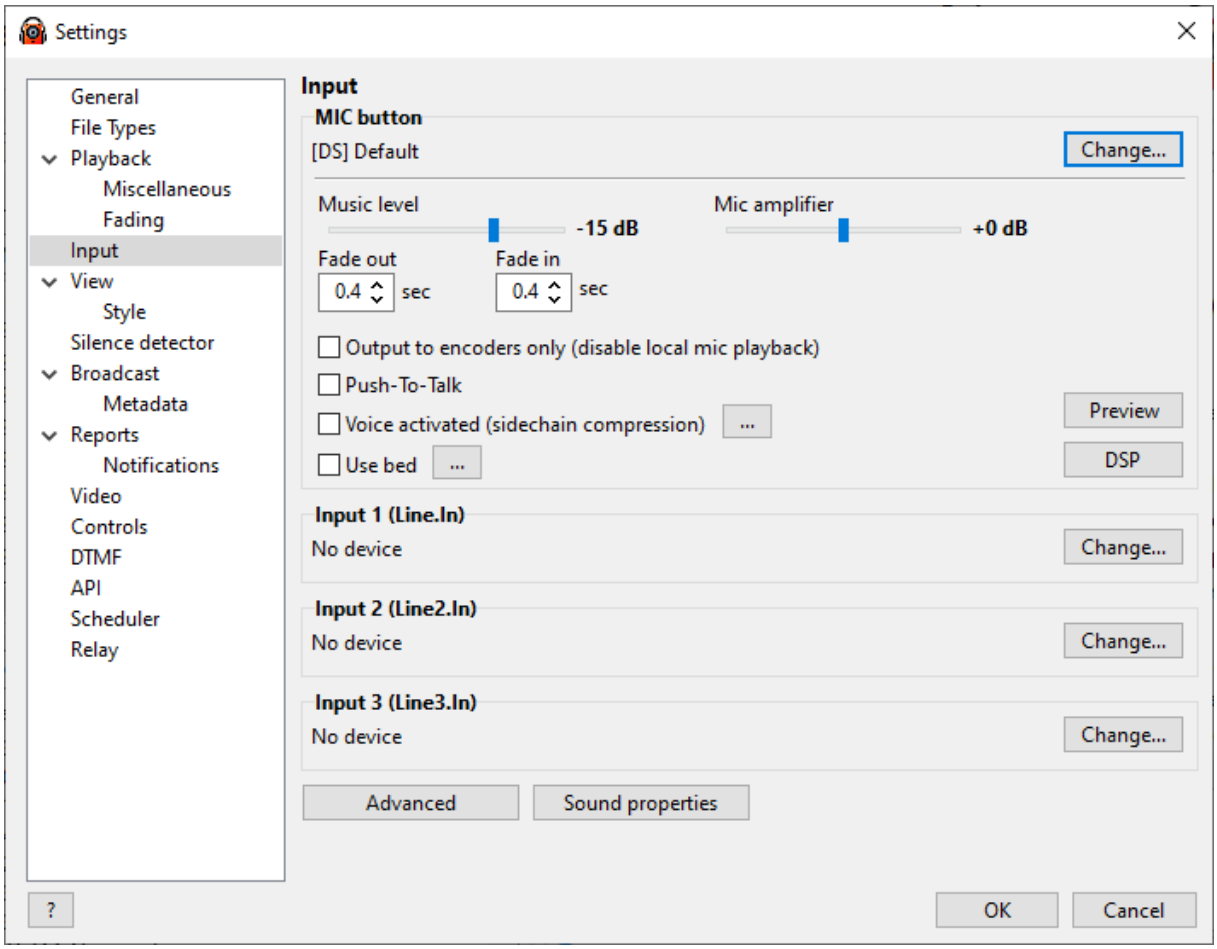

MIC button

In this section, you set how the "MIC" button operates. The button is located in the bottom right corner of the main window.

Click **Change...** and select the appropriate **Driver** (DirectSound/WASAPI/ASIO/Windows Mixer) and **Device** - the sound card you want to use.

Note, that it is not recommended to use the "Windows mixer control", as the sound from the microphone will not go on air if RadioBOSS is used to broadcast to the Internet. However, if an external application is used to broadcast, the Windows mixer can be used.

Music level - playlist level when the microphone is on. Fade in/out sets how fast the volume is changed. Level **-50dB** and below silence the music completely.

Mic Amplifier - increase the microphone volume. If your microphone is too quiet, also check the sound card settings (click Preview to test the setting).

Push-to-Talk - enable Push-to-Talk mode of operation for the Mic button (the microphone works as long as you keep the button pressed down).

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Output to encoders only - when enabled, you won't hear yourself in the speakers/monitors. But listeners connecting to your station will hear you. If the echo is still present, disable microphone monitoring in the sound card properties. If this option is on, we recommend alsoturning on the option "Produce silent output when nothing is playing" in the playback settings.

Voice activated - when this feature is enabled, the microphone will be turned on automatically when someone speaks into it.

The **DSP** button lets you assign different effects for the microphone. The "**Apply main DSP to microphone**" controls if music DSP is also applied to microphone.
You can also assign effects for the microphone by right-clicking the **MIC** button. Please note that you cannot use the same Winamp and VST plugins already used for music DSP.

Mic bed - set the bed to play when the mic is activated.

Line Inputs

Furthermore, users can select a driver and device for LINE.IN.

More information:
Enabling microphone
Working with linear input

5.5 View

RadioBOSS allows users to customize the look of a playlist window, change fonts and colors, change time and track title format (12/24 hour) and more

To customize view settings, follow these steps:
1. On the top menu bar, select **Settings** > **Options...**
2. Click **View**.

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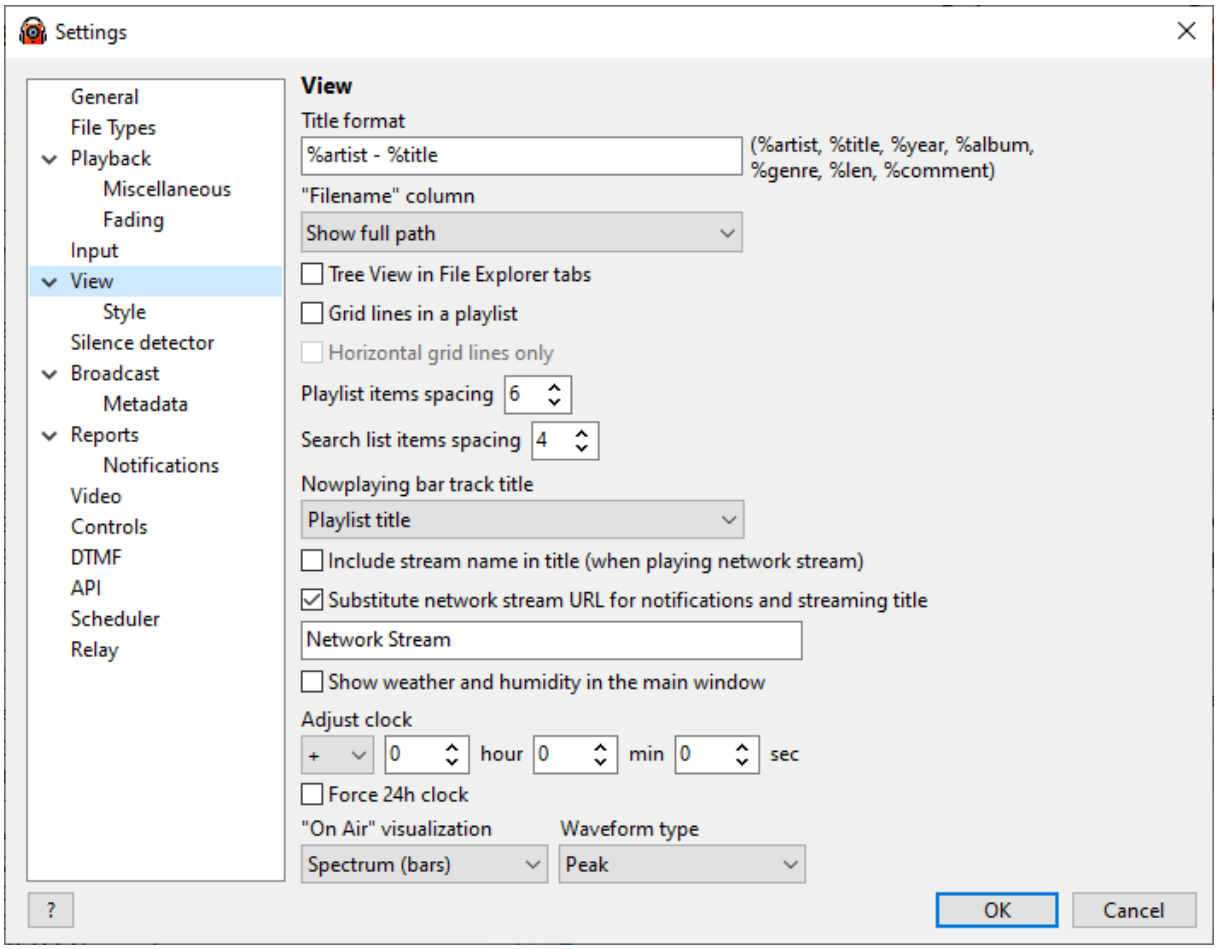

Title format	Track title format in the playlist. For example, if you want to include album information, you may use this string: %artist - %title - %album
"Filename" column	Select what "Filename" column in the playlist should display.
Playlist items spacing	Setup playlist items spacing.
Grid lines in a playlist	Show grid lines in the playlist.
Horizontal grid lines only	When grid in a playlist is enabled, show only horizontal grid lines.
Highlight item under mouse cursor	Select item under mouse cursor.
Search list items spacing	Setup search list items spacing.

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Include stream name in title (when playing network stream)	When playing an Internet stream include its title. If unchecked, only the track title will be displayed.
Substitute network stream URL	Change the stream URL to the text specified when sent in notifications and nowplaying updates.
Force 24h clock	Turn this on if you want to have clochs in 24 hour format. Otherwise it uses operating system format.
Show weather and humidity in the main window	Show weather and humidity information in the main window. Click on the label to change temperature units (Celsius or Fahrenheit). Retrieving weather data.
Adjust clock	Allows to adjust clock for RadioBOSS - it affects time display and scheduled events.
"On air" visualization	Visualization style in the "Now playing" bar. Waveform type sets how the waveform is built: using the average or peak levels of a music track.
Turn off visualization/level display	Turn this on to reduce CPU usage.

You can change the program's appearance in the "**Style**" section.

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5.5.1 Style

To customize Style settings:

On the top menu bar, select **Settings** > **Options...**

Select **Style** category.

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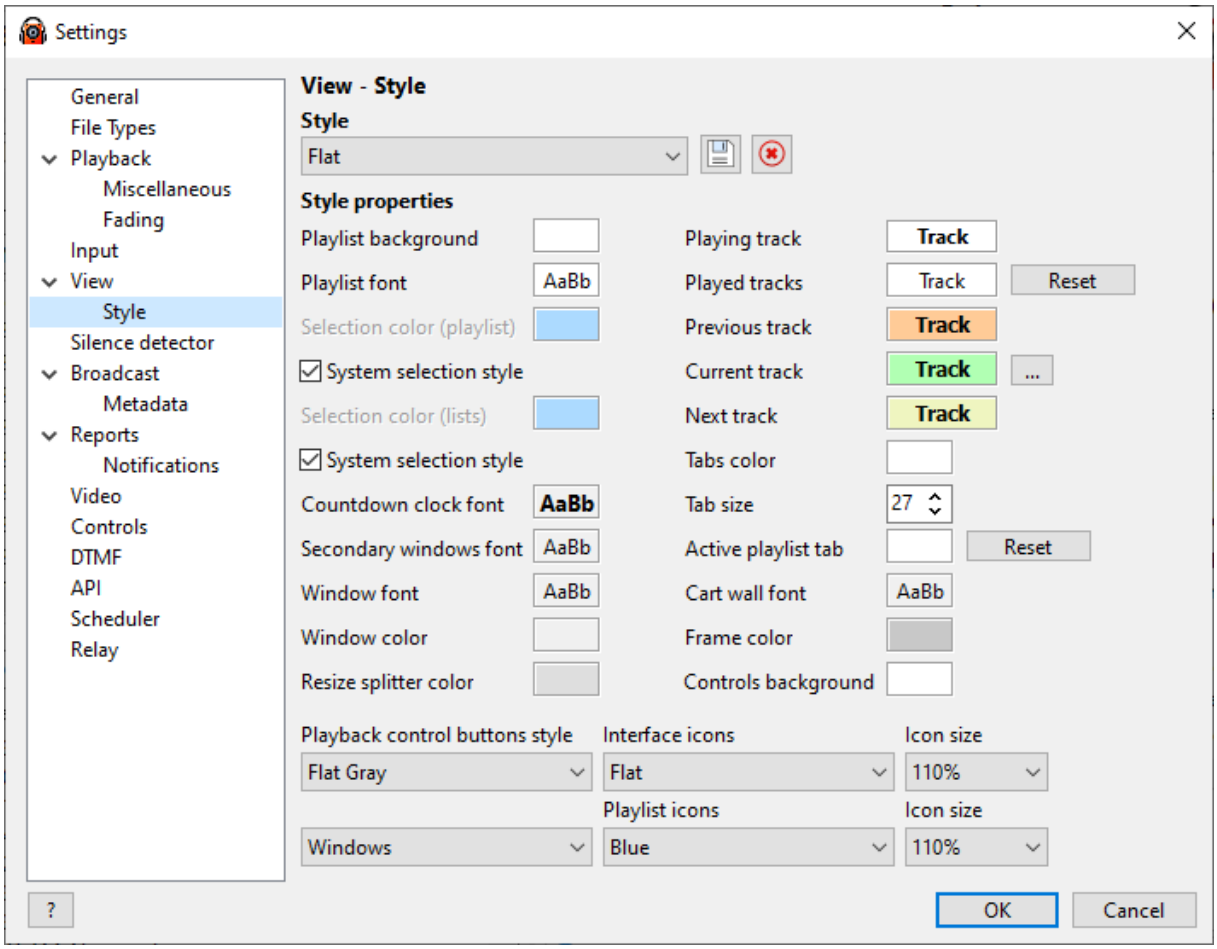

This section allows you to change the appearance of the program's interface. You can choose a preconfigured style from the **Style** list.
You can also change style parameters: window and playlist font, color settings, button style, etc.

5.6 Silence detector

RadioBOSS allows you to define actions to be taken on silence (when nothing is playing in the playlist). These settings can be configured in the **Silence detector** window.
Silence detector checks the output sound level and if it's below the defined threshold, it will perform an action.

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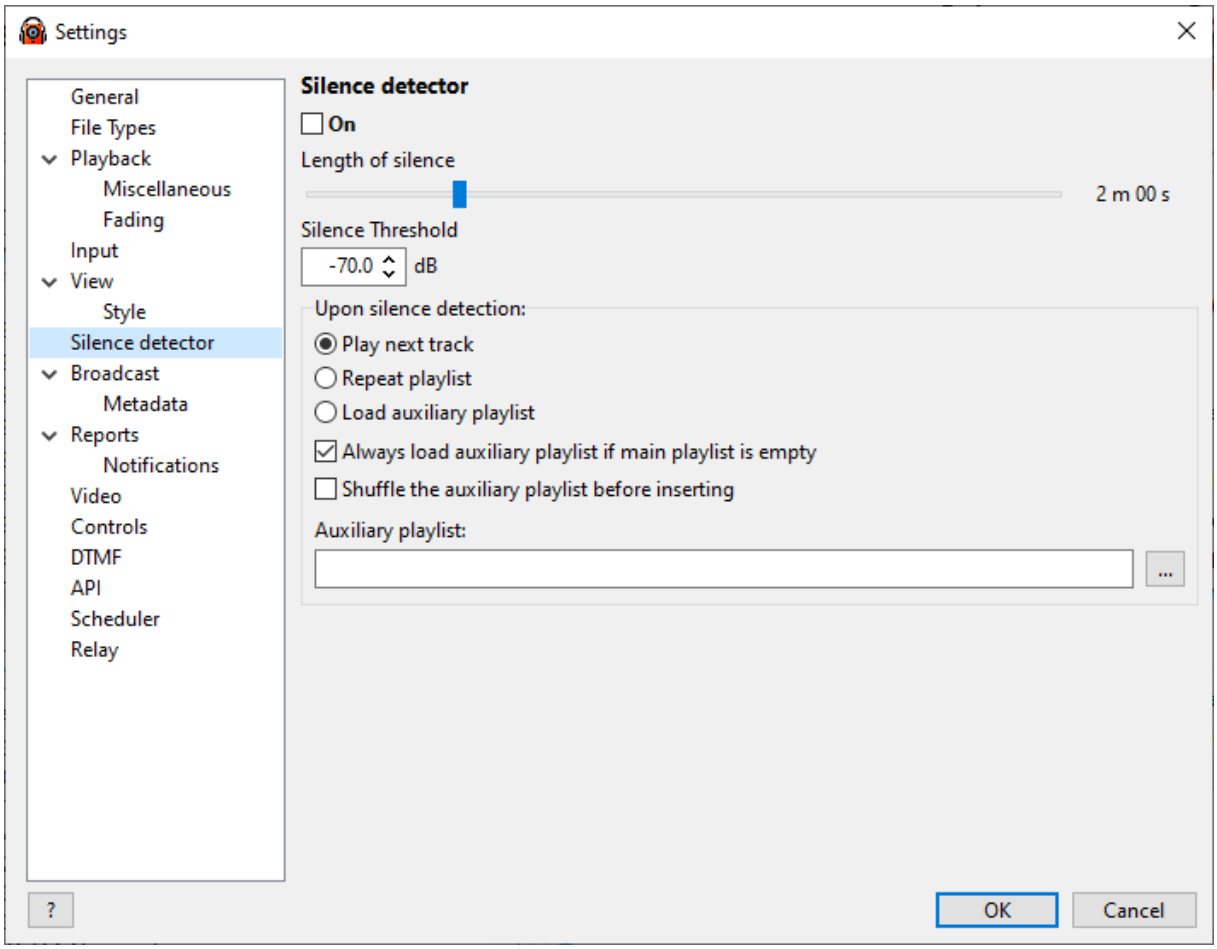

To configure the Silence Detector, follow these steps:

1. On the top menu bar, select **Settings** > **Options...**

2. Click **Silence detector**.

3. Toggle the slider to define the length of silence. For instance, if you set it to 10 seconds, then after 10 seconds of silence, the Silence Detector will perform an action.

4. The next step is to choose the action to take on silence. The program can play the next track, repeat the current playlist or load an extra playlist for playback.

5. To enable the silence detector, check the **On** box.

6. Click **OK**.

More information:
Playback

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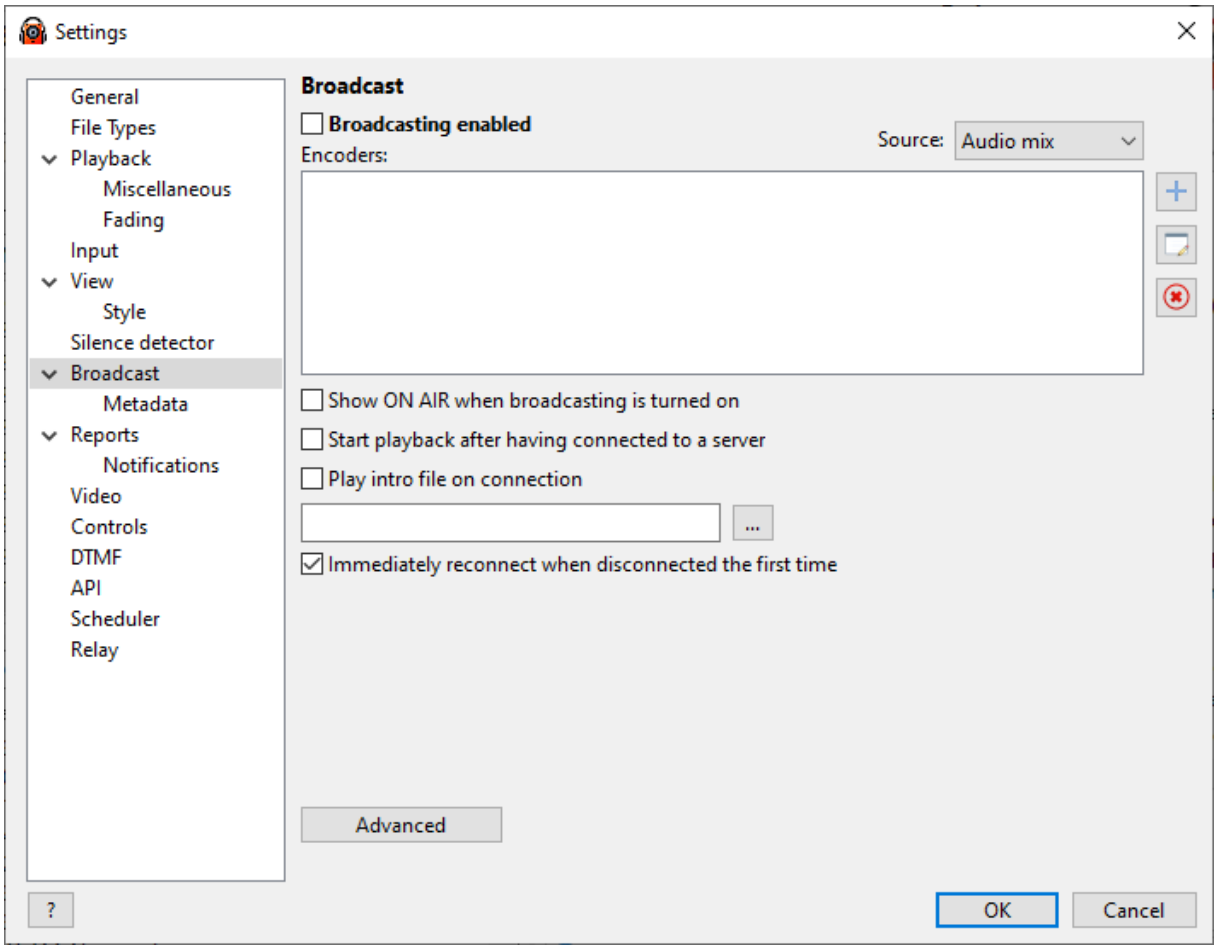
5.7 Broadcast

RadioBOSS enables broadcasting Internet radio for users who want to create their own internet radio station. It is possible to set up any number of output streams, each with its own unique configuration. Broadcasting settings can be configured in the **Settings** dialog.



Please refer to the Broadcasting Internet radio topic for more information on how to set up broadcasting.

The **Advanced** button allows you to set additional broadcasting settings.

Proxy server - specify the proxy server for broadcasting. Leave this empty unless you understand what this setting is for. An incorrectly configured proxy server will block any connection attempts and broadcasting will not work. **Important!** The proxy server needs to support the HTTP "CONNECT" method.

More information:
Custom encoders

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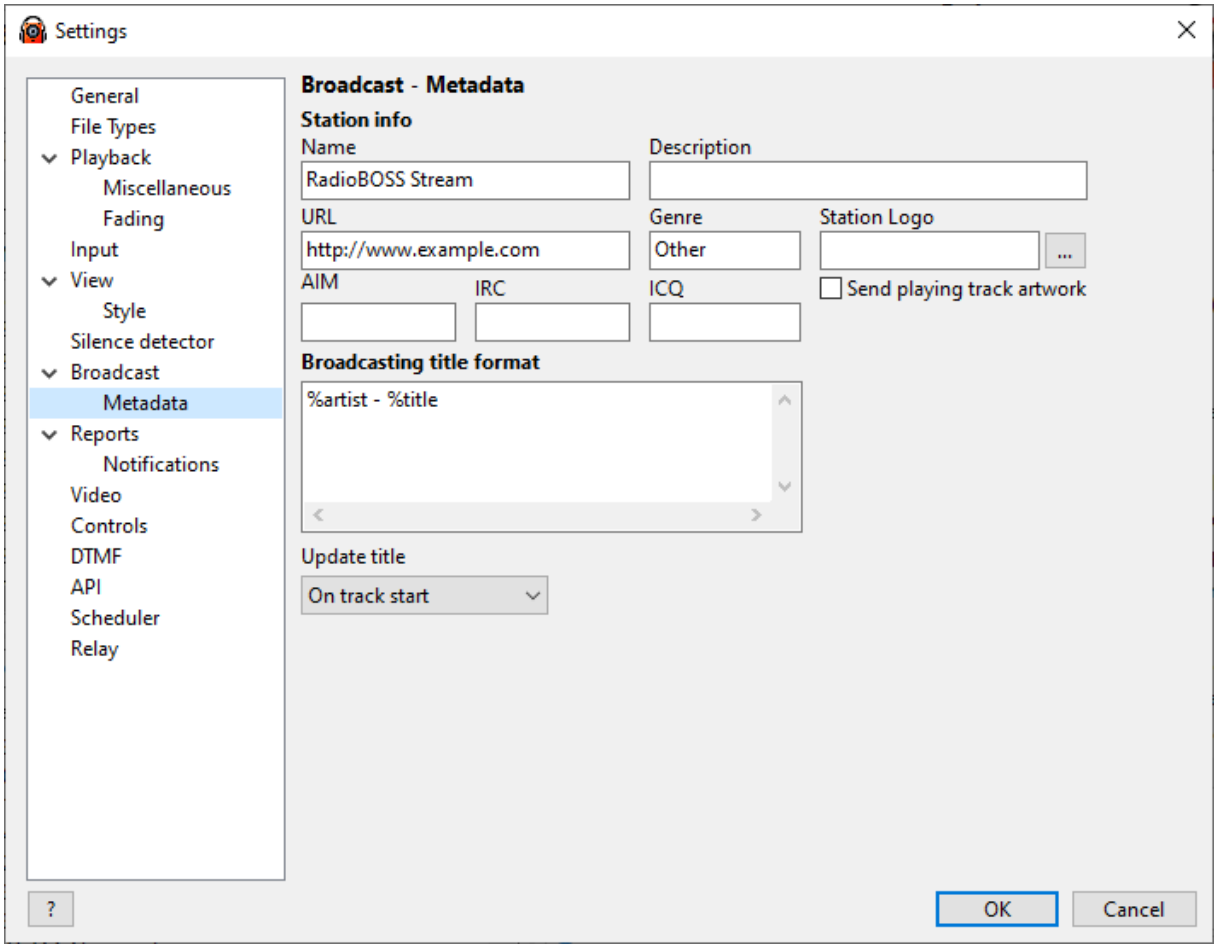
5.7.1 Metadata

To customize the station info, follow these steps:

1. On the top menu bar, select **Settings** -> **Options...**
2. Click **Metadata**.



Station info	Fill in your station information
Broadcasting title format	Sets the broadcasting title format. The format can include multiple lines that will be rotated one by one. When multiple lines are used, the Update title period should be set to "Periodic". For possible values please see this page: Title format variables.
Update title	When RadioBOSS should update the broadcasting title on the server. The possible values are: • Periodically - set the time interval in seconds to update the title periodically

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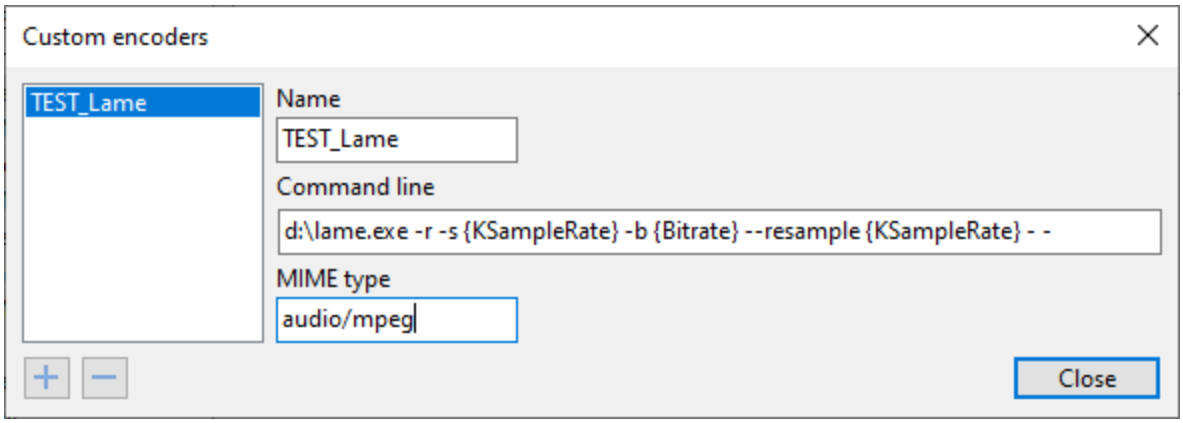
	• On track start - the title will be updated when track playback is started

5.7.2 Custom encoders

Custom encoders - allows you to add any custom encoders. RadioBOSS can use any command line encoder that supports input/output to console.



Encoder command line parameters can include the following variables (the values correspond to the encoder settings in RadioBOSS):
{SampleRate} - sample rate in Hz (e.g. 44100)
{KSampleRate} - sample rate in kHz (e.g. 44.1)
{Bitrate} - bitrate in kbps (e.g. 128)
{Channels} - number of channels (e.g. 2)

The encoder must be told (via the command-line) to expect input from STDIN, rather than a file, and to send output to STDOUT.

The MIME type depends on the encoder file format.

RadioBOSS sends 16-bit signed PCM data to encoder, Little-Endian.

Example: command line for **lame.exe** MP3 encoder
<path>\lame.exe -r -s {KSampleRate} -b {Bitrate} --resample {KSampleRate} - -

Example: command line for **ffmpeg** encoder to encode in mp3
<path>\ffmpeg.exe -loglevel -8 -f s16le -ac {Channels} -ar {SampleRate} -i - -f mp3 -c:a libmp3lame -b:a {Bitrate}k -

Example: command line to send uncompressed RAW PCM. **pcmraw.exe** encoder is located in the Plugins folder where you have installed RadioBOSS (default C:\Program Files (x86)\RadioBOSS)
C:\Program Files (x86)\RadioBOSS\Plugins\pcmraw.exe - -

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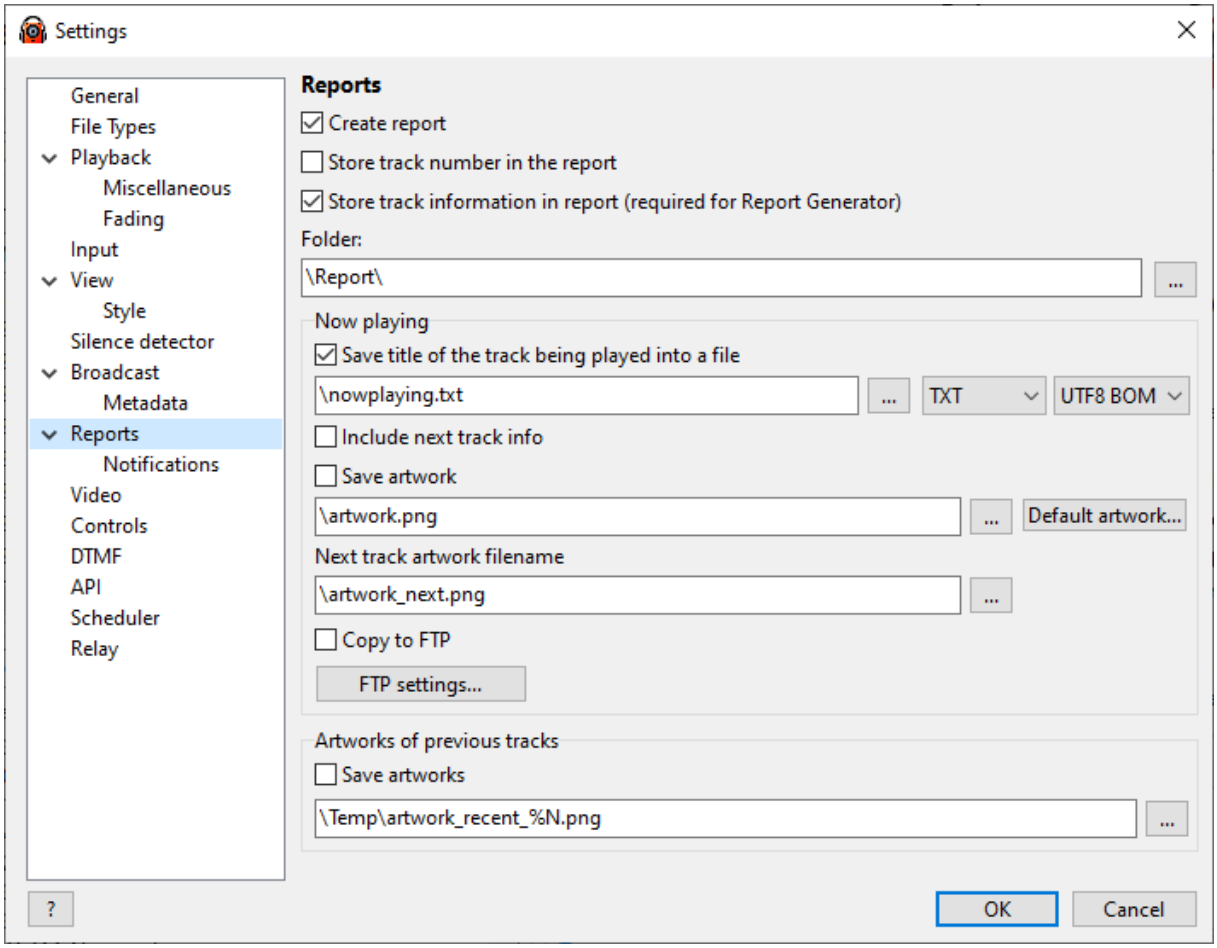
5.8 Reports

RadioBOSS keeps a log of tracks that have been played. Moreover, the program can save the title of a track which is currently being played to a file and upload this file to a specified FTP server. The program can also use HTTP request to submit parameters of a current track to a specified URL address. The parameters include artist, title, duration, genre, album and other information. It can also send notifications of various events, such as errors, to an e-mail address.



To set up log file settings, follow these steps:

1. On the top menu bar, select **Settings** > **Options...**

2. Click **Reports.**

By default, the reporting feature is enabled. You can set the program to include a track number into a report and change the folder to save reports.

You can set the program to save the title of a track which is being played to a file (**nowplaying.txt**) and upload it to an FTP server. Track name is saved to the file in the format specified in View – Title format.

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RadioBOSS can convert characters for the **nowplaying** file based on the rules defined in the **textconversion.txt** file. The file must be placed in the settings folder (to open it, use the Settings->Open Settings Folder menu command), there is an example file named **textconversion-example.txt** with example rules.

Include Next Track info - if enabled, the **nowplaying.txt** file will contain the next track information as well.

Nowplaying file contents can created based on a template (select the **Template** option in the nowplaying file type). The template file is located in the settings folder (to open it, in the menu click Settings->Open Settings folder) in the Templates subfolder, nowplaying.txt.

The **Save artwork** turns on artwork export - for the current and next track. The artwork will be saved as a **PNG** or **JPEG** image (depending on the extension specified for the file name, i.e. "\artwork.jpg" will make it use JPEG format) and resized to be at most 400 pixels in size (the size can be changed in the Advanced Settings). If a track does not have artwork embedded, no cover art will be saved. If you want to specify cover art image for tracks with no artwork, press the **Default Artwork** button.

Copy to FTP - when enabled, RadioBOSS will upload nowplaying file and artworks to FTP server. To set up an FTP server connection parameters, press the **FTP Settings...** button.

Artworks of previous tracks - if this option is enabled, the artworks of played tracks will be saved. The file name must include the **%N** modifier - a numeric value will be substituted instead by the software. RadioBOSS will save up to 20 covers of played tracks (the sequence number of each next artwork is incremented by 1).

The program also allows using HTTP request to send current track information to a specific URL address. It can also send notifications of various events such as: server connect and disconnect, silence detector actions, errors.

Please see this page: Using notifications.

More information:
Broadcasting internet radio

5.8.1 Nowplaying notifications

Notifications are used to send various information to a script or to an e-mail address. This can be useful when you want to display the current song name on your website.

To use HTTP request or E-mail notifications:

1. Turn on the feature: check the "Enable notifications" checkbox. If you plan on using E-mail notifications, click the **E-mail settings...** button and fill the SMTP e-mail server

2. Click the "**+**" button to add new notification.

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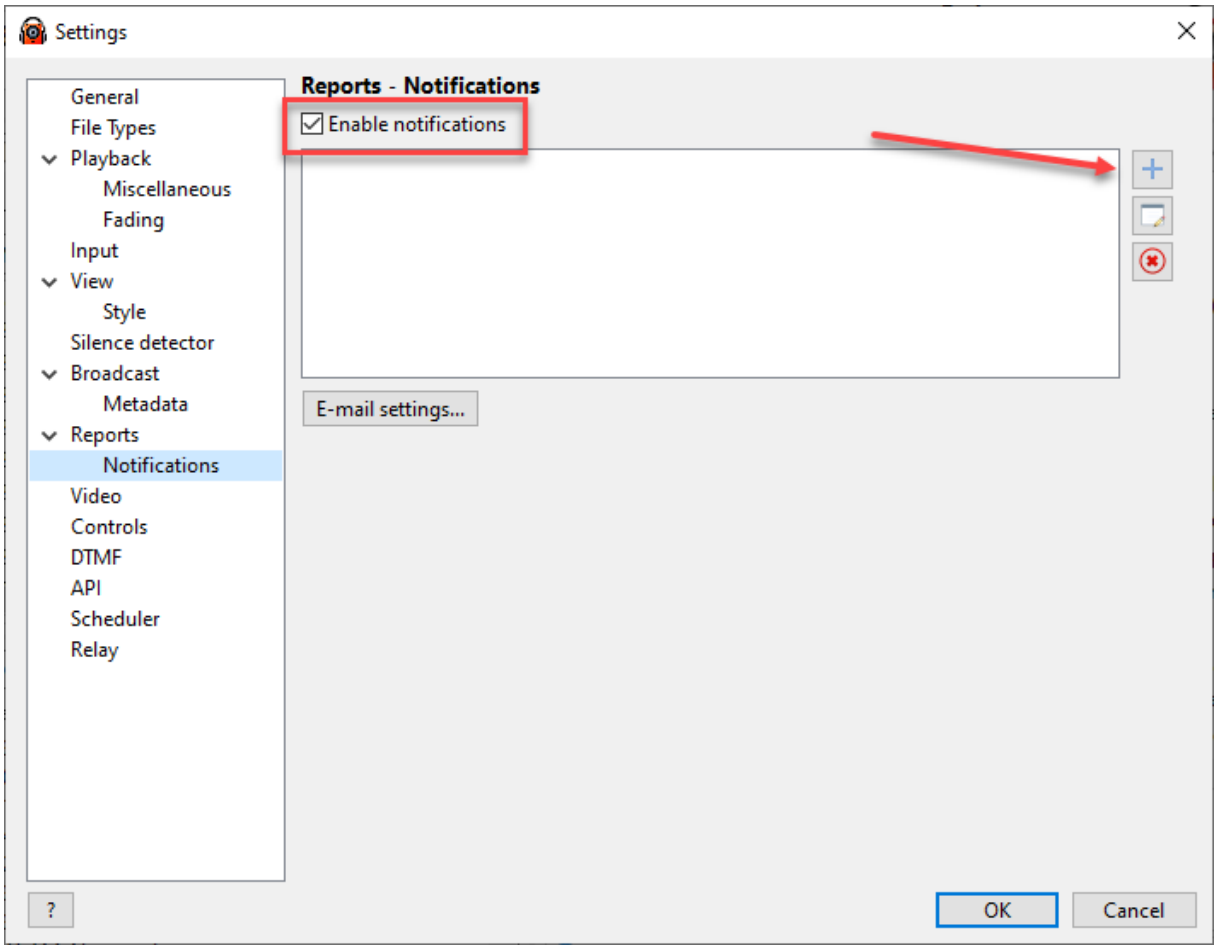
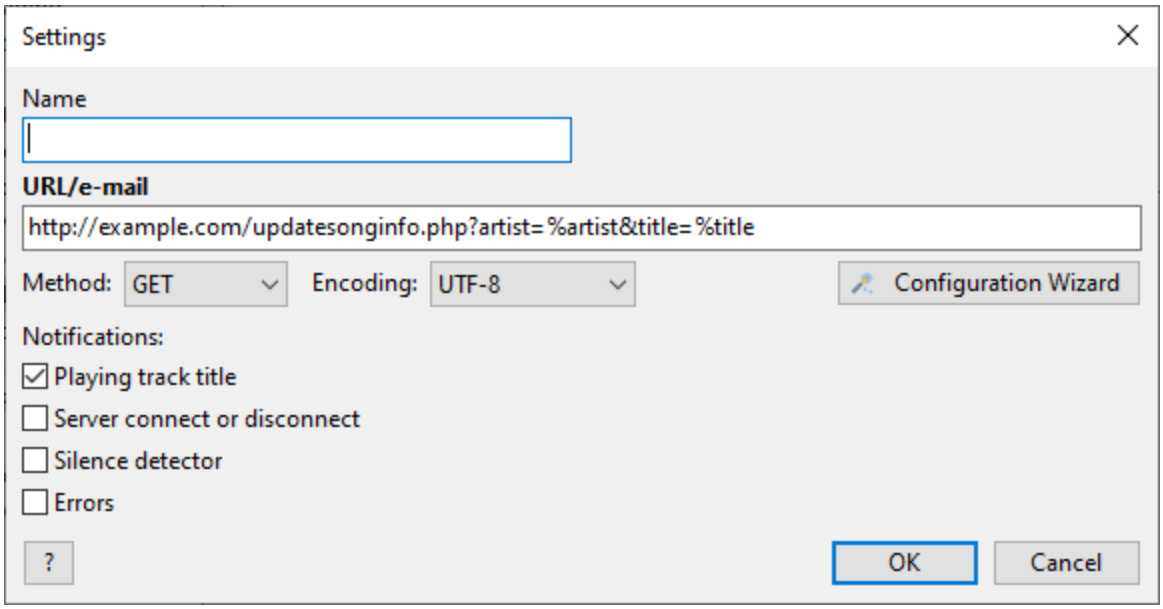


3. The notification window will appear:



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Enter a URL (http://) into the **URL/e-mail** field if you want to send a notification to a script.

HTTP notifications

For the "Playing track title" notifications, you should fill the URL with the required parameters, e.g.:
http://example.com/updatesonginfo.php?artist=**%artist**&title=**%title**
The Encoding depends on what your script accepts. UTF8 works in most cases and it doesn't have a problem with international characters.

Run a program

You can run a program when a track starts in RadioBOSS, enter the "run" keyword, followed by a command to execute.
For example: **run C:\Path\To\Program.exe "%casttitle"**

Variables

The values can be used in a request for a Playing Track Title notification: Title format variables

For other notification types, use these parameters:

%msgtype - message type: **server** for server connect/disconnect messages; **silence** for silence detector messages and **error** for error notifications
%msgtext - message text

E-mail notifications

To send notification to an e-mail address, enter the address in the **URL/e-mail** field. Multiple addresses can be specified, separated by a comma.

The **Configuration Wizard** button makes it easier to set up Tune In and Twitter integration.

5.9 Video

RadioBOSS can play not only audio tracks but also video. Video playback can be configured in the **Settings** dialog. Video playback is supported in RadioBOSS Advanced only.

To customize video playback settings:
On the top menu bar, select **Settings** -> **Options...**
Select **Video** category.

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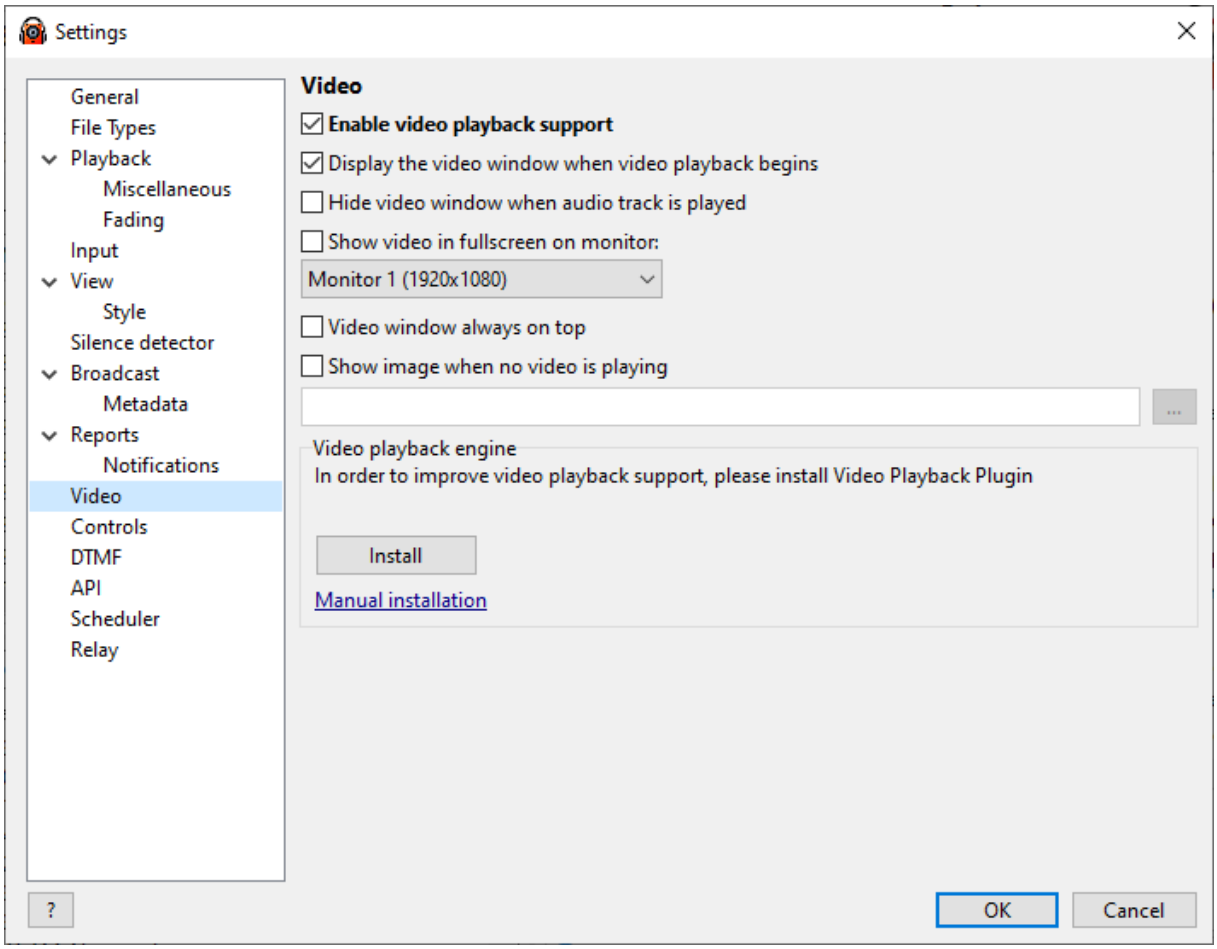

Display the video window when video playback begins - a screen with an image will appear when you play the video track. If you don't need it, disable this option.

Show video in fullscreen on monitor - the video will be displayed in fullscreen mode on the selected monitor. Press a key F4 to exit fullscreen mode.

5.10 Controls

This window allows to select play and mouse double-click function; hide unneeded buttons.

To customize Controls settings:
On the top menu bar, select **Settings** > **Options...**
Select **Controls** category

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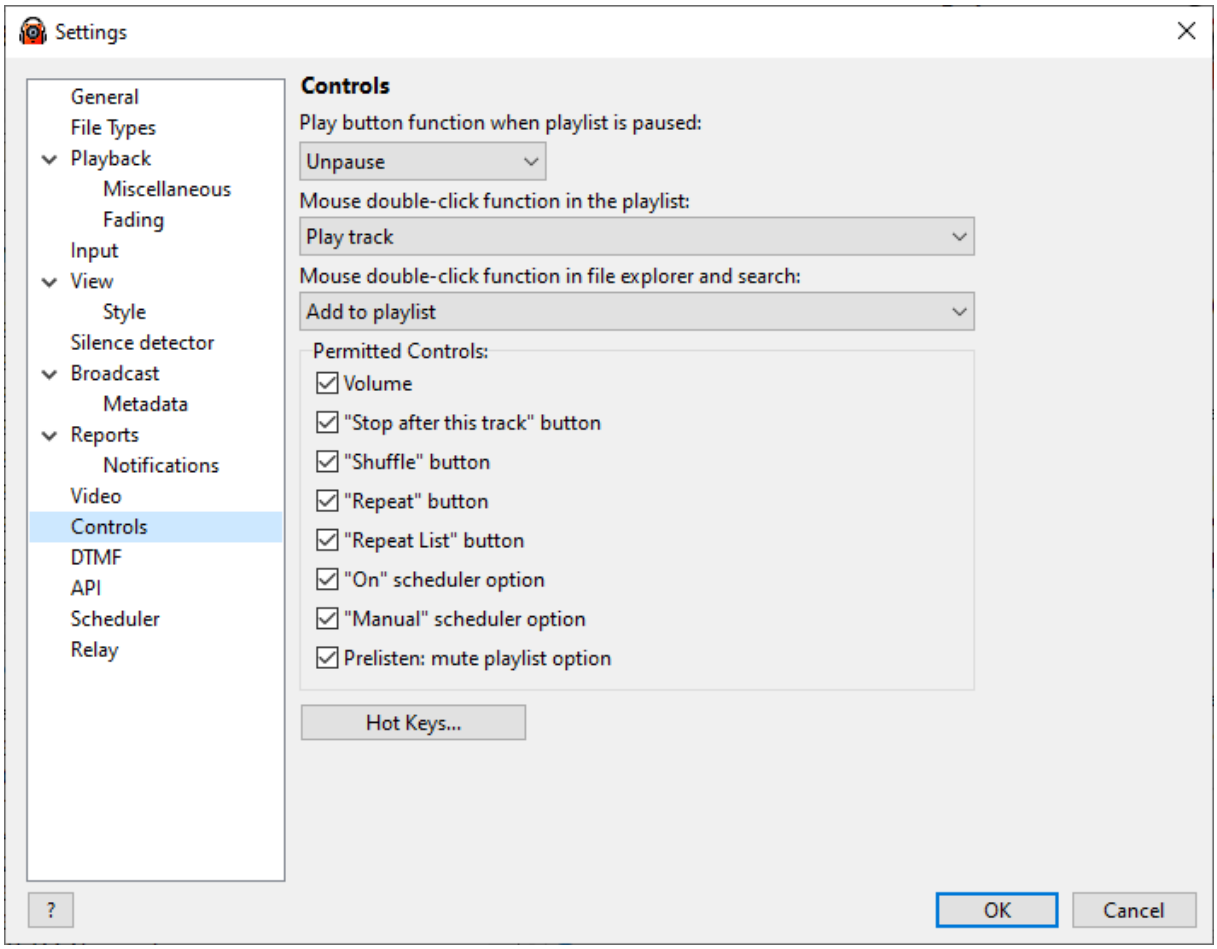

5.11 DTMF

To customize DTMF detector settings:
On the top menu bar, select **Settings** > **Options...**
Select **DTMF** category.

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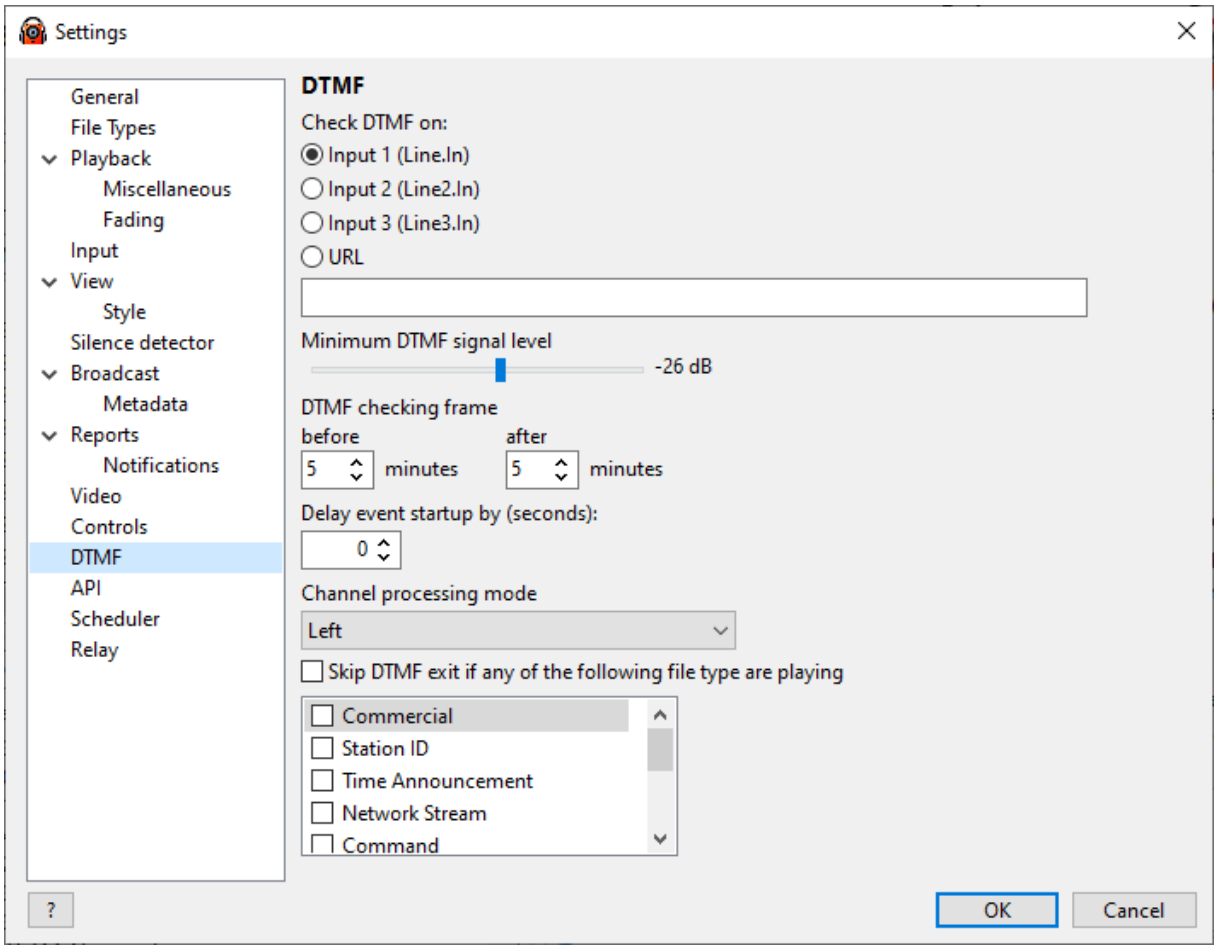

Check DTMF on	Select the source where DTMF signals will be checked - one of the linear inputs or network stream URL.
Minimum DTMF signal level	Specify the minimum threshold for DTMF signal.
DTMF checking frame	Specify the time frame during which RadioBOSS will look for DTMF tones. The "before" and "after" options are related to the event start time.
Delay event startup	Delay the event startup when DTMF is detected (seconds).
Skip DTMF exit if any of the following file type are playing	When DTMF Exit is detected, it will let selected file types continue playing (e.g. commercials) instead of interrupting the event. The rest of the items inserted by the same event will be removed from the playlist.

For more information on DTMF please refer to this topic: Starting events by DTMF signal

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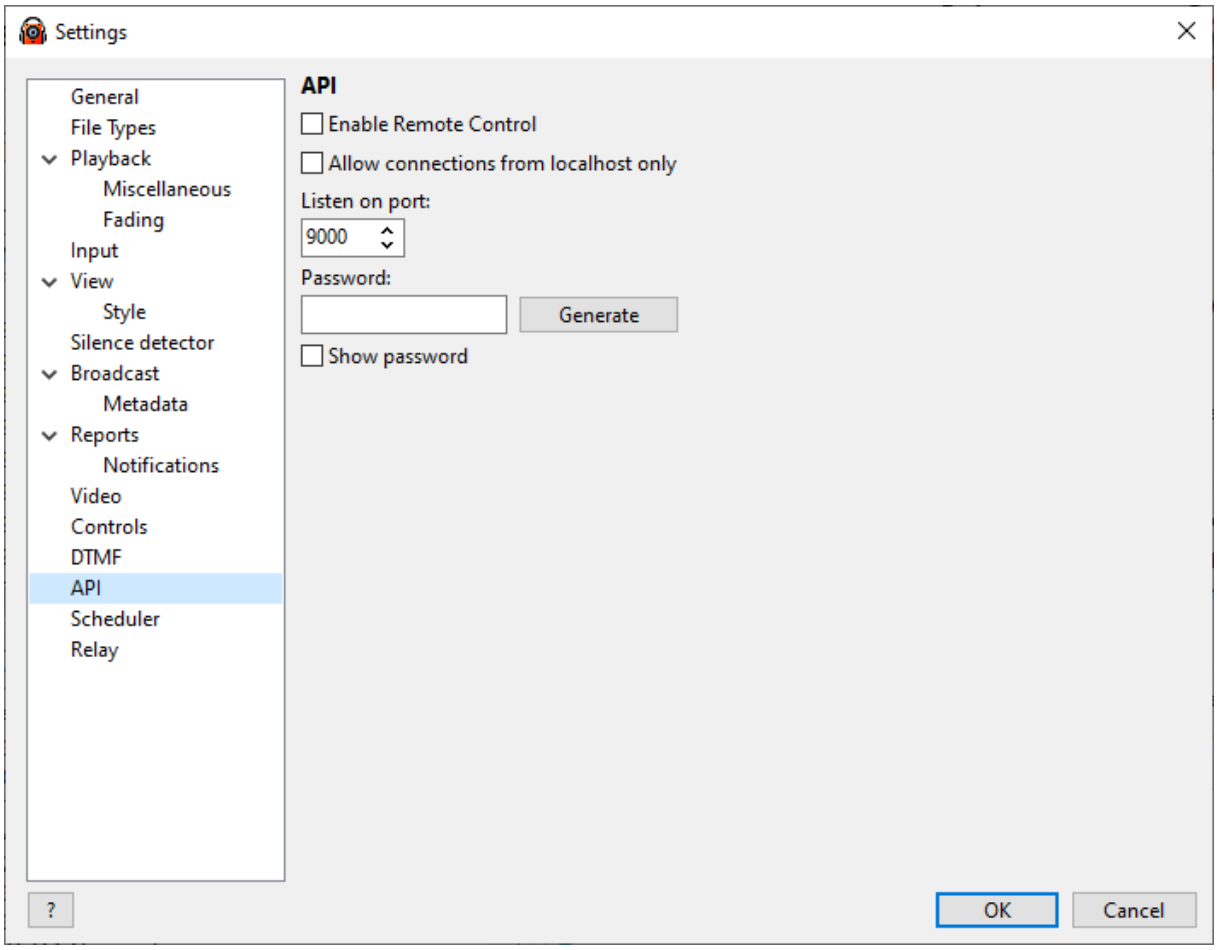
5.12 API

To customize Remote Control API settings:
On the top menu bar, select **Settings** > **Options...**
Select **API** category.



Enable Remote Control	Enable or disable remote control feature
Listen on port	Select the port where connections will be accepted
Allow connections for localhost only	Allow only connection from the same computer where RadioBOSS is installed. Enabled this is you don't need remote access.
Password	Specify password - only requests with the correct password will be executed. **Security notice**: choose a complex and impossible to guess password to prevent any unauthorized access.

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Using the HTTPS protocol

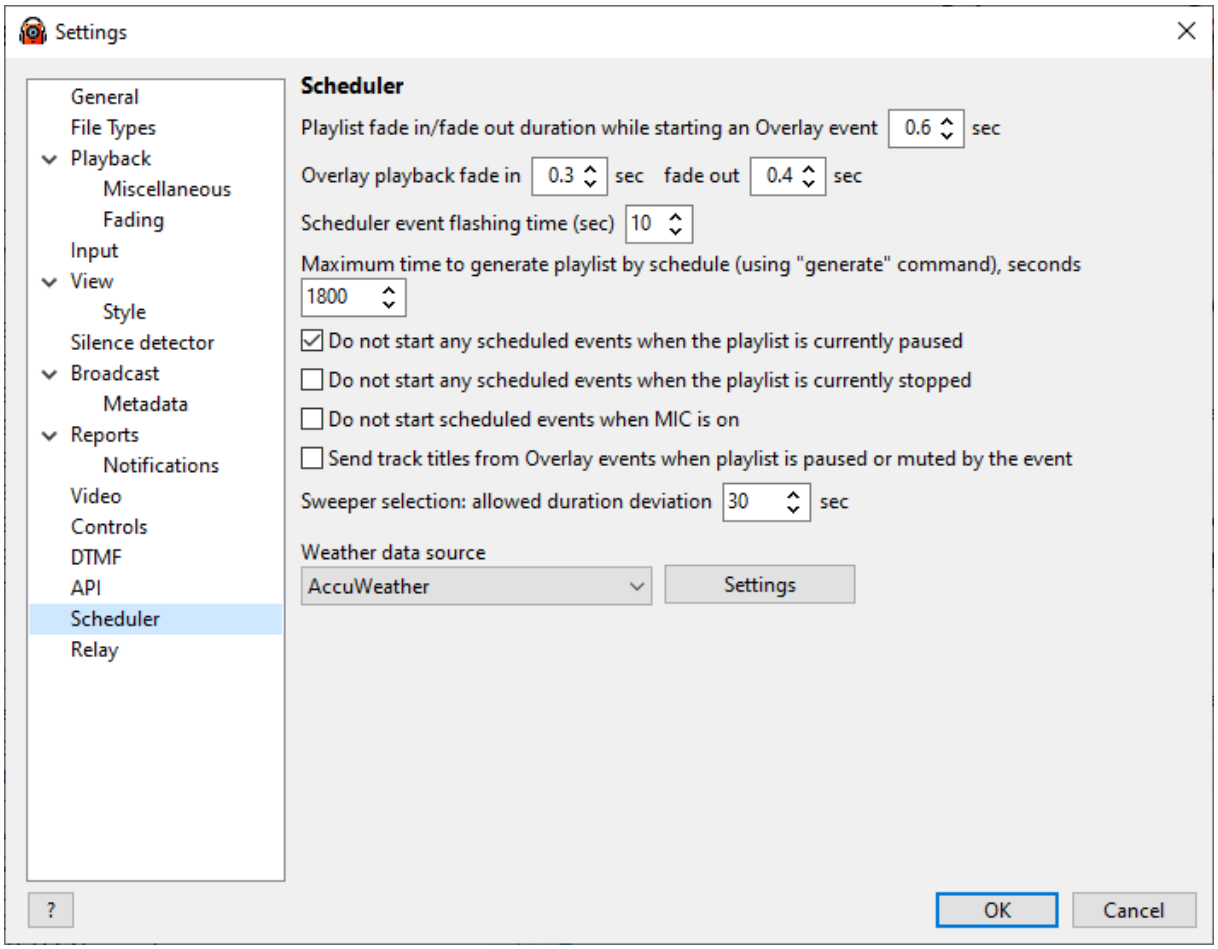
Remote API can be used over the https:// protocol (supports TLS 1, TLS 1.1, TLS 1.2). In order to activate it, please copy the certificate files to the RadioBOSS's settings folder (to open the folder, in the menu click Settings->Open Settings folder).
Certificate files must be in the PEM format. The files must be named as follows:

- cert.pem - the certificate
- cert.key - certificate key
- root.pem - root certificate chain (optional)

See this topic for more information on how to use Remote Control API: Remote Control API

5.13 Scheduler

To customize Scheduler settings:
On the top menu bar, select **Settings** > **Options...**
Select **Scheduler** category.



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Playlist fade in/fade out duration while starting an Overlay event - Set the fade type for scheduler events with Overlay Playback option or Jingles. This option controls how smooth the playlist volume change would be.

Scheduler event flashing time - Set the time for a scheduled task to flash in the **Coming Up Next** window before its playback starts.

Maximum time to generate playlist by schedule - Timeout when using the "Generate" command in the scheduler event. If a playlist is not generated within the specified timeout, the playlist generator is aborted. Usually 10 seconds is enough.

Do not start any scheduled events when the playlist is currently paused - If the playlist is currently paused, the event will not be started (*).

Do not start any scheduled events when the playlist is currently stopped - If the playlist is currently stopped, the event will not be started (*).

Do not start scheduled events when MIC is on - If the MIC is on, the event will not be started (*).

(*) - Events are still inserted into the playlist, but their playback will not start.

Send track titles from Overlay events - titles from events that are played as Overlay will be sent to the streaming server (in case when the playlist is paused or its volume is set to zero).

Sweeper selection: allowed duration deviation (sec) - When selecting sweepers before scheduled events, allow the sweeper duration to be larger by up to set amount.

Weather data source - select a service to get the data from: OpenWeatherMap or AccuWeather. **AccuWeather** is the default and does not require entering the API key. API key should be entered for OpenWeatherMap to avoid rate limitations.

More information
Automatic Weather Announcements

5.14 Relay

To customize Relay settings:
On the top menu bar, select **Settings** > **Options...**
Select **Relay** category.

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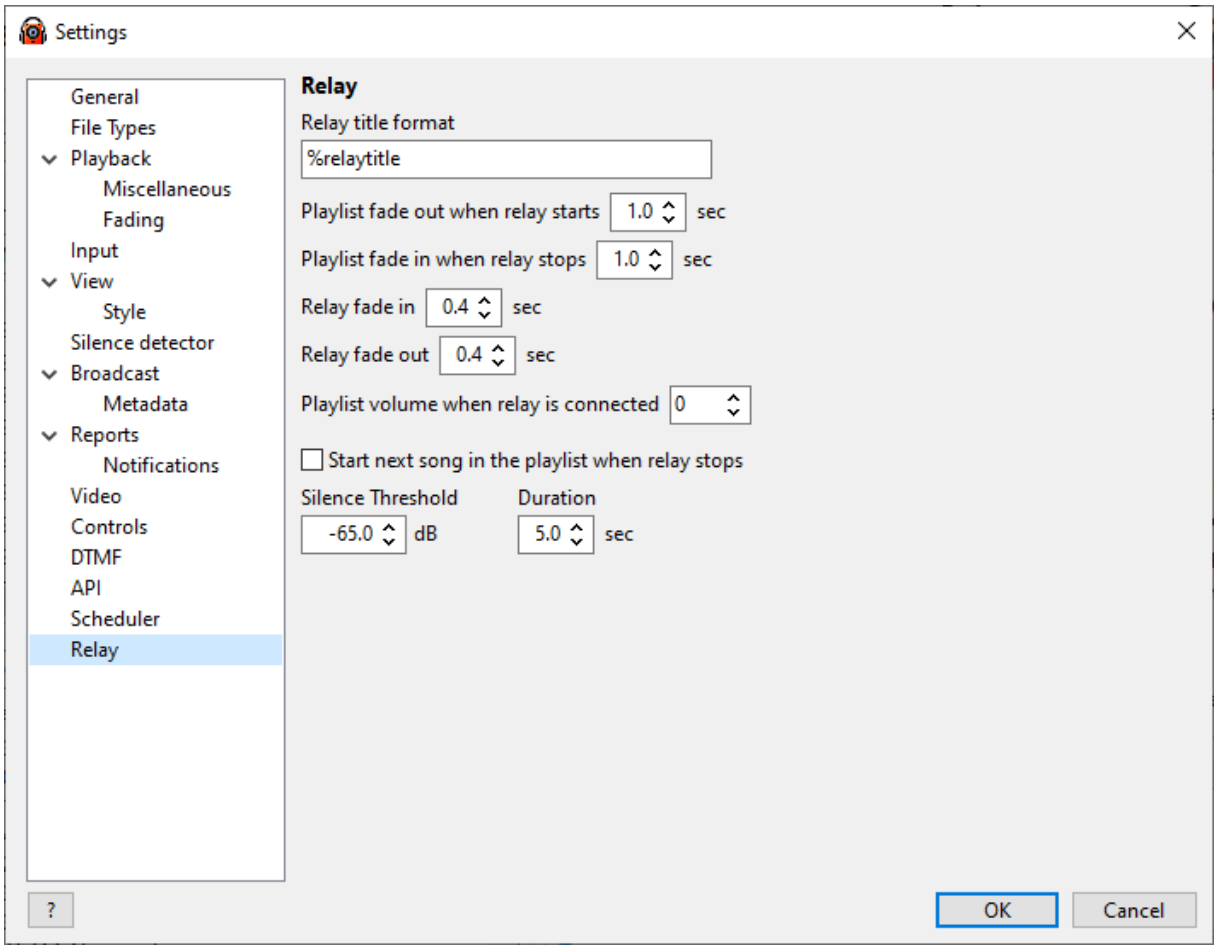

Wait for the current track to finish	When the relay stream becomes active, it will not be played immediately but wait for the current playing track to finish.
Max time to wait	Maximum time to wait for the current track to finish, when the time elapses, relay playback will start.
Relay title format	Title format when relay is active. Can include any custom text. The **%relaytitle** variable holds the title from the relayed stream.
Playlist fade out (fade in) when relay starts (stops)	Fading settings for smooth transition between playlist and relay.
Relay fade in	Fade in when relay starts
Playlist volume when relay is connected	Set the playlist voluime when relay is active and connected

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Start next song when the relay stops	Start the next song in the playlist when the relay stops
Silence Threshold **Silence Duration**	Silence detector settings when relay is considered inactive. Only applied when relaying linear input and not used when relaying network stream.

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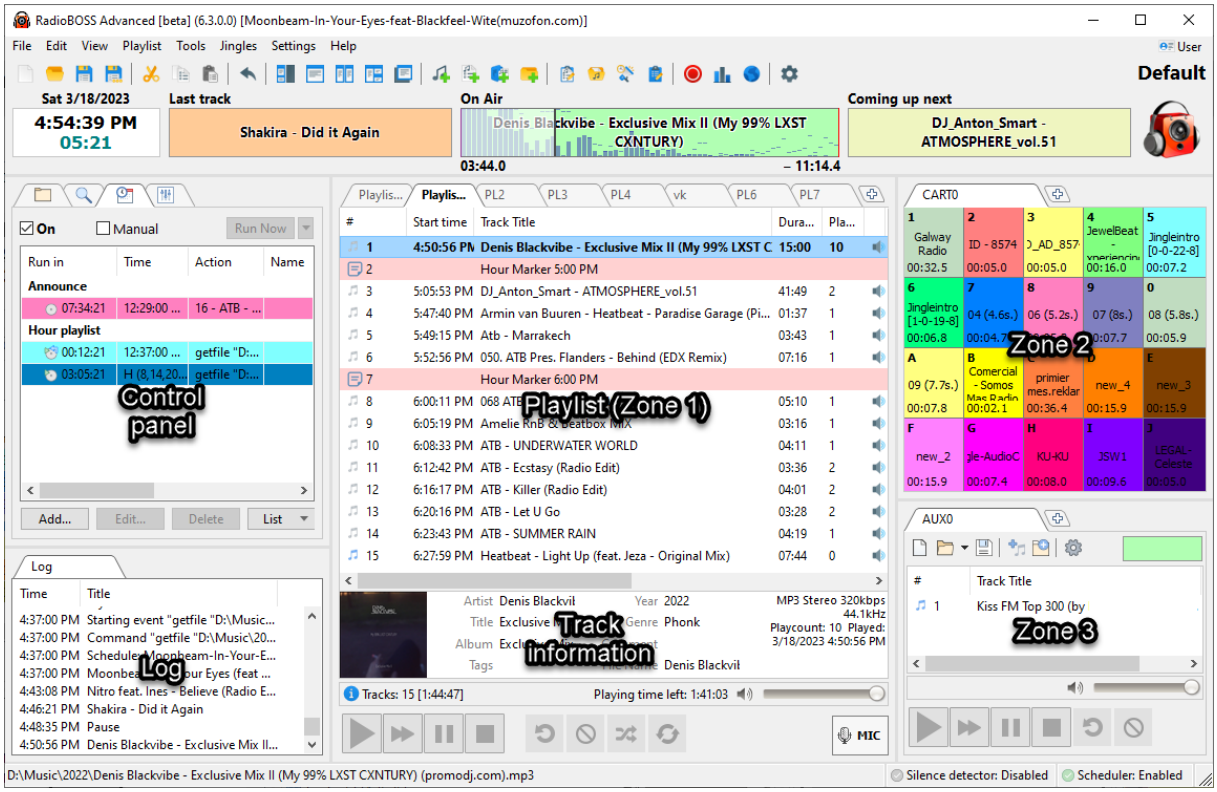
Part VI

6 User interface

RadioBOSS' **user interface** overview:



1. Top menus

Top menus provide quick access to most of the commands and options of the program.

For more information on the top menus, please refer to Top menus.

2. Toolbar

Toolbar provides a one-click access to all commands and options of the program which are presented as icons.

For more information please refer to Toolbar.

3. Control panel

Control panel allows users to switch between views and modes that are presented as tabs.

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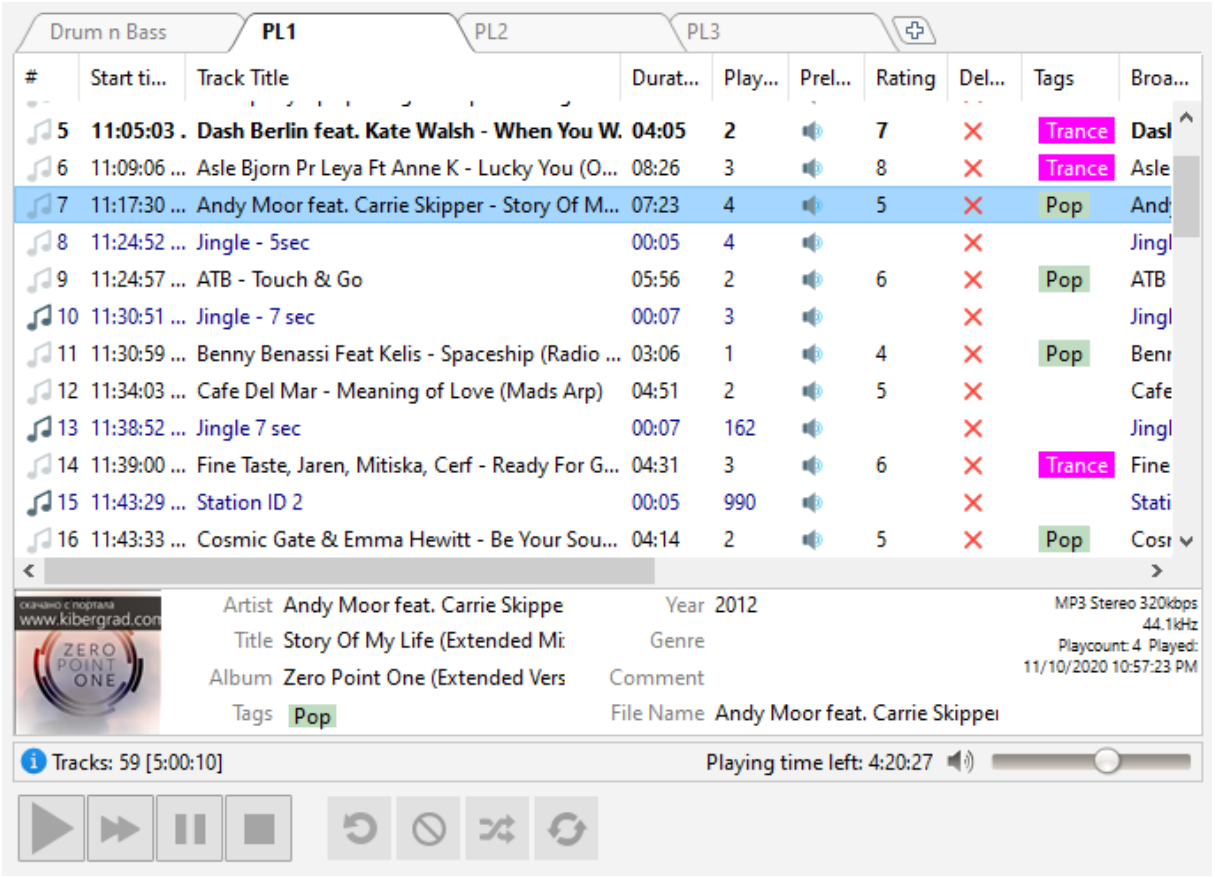
For more information, please refer to the Control panel.

4. Playlist window (Zone 1)
Playlist window lists all the tracks in a current playlist along with track information.



For more information on playlists, please refer to the Playlist window.

5. Zones 2 and 3

Additional zones can be activated from the menu: **View** -> **Work Zones**
Zones 2 and 3 can host Cart Wall, AUX Player, Web browser, Search, Notepad and File Explorer.

An additional work zone is placed in a separate window and can be used on a different monitor, for example.

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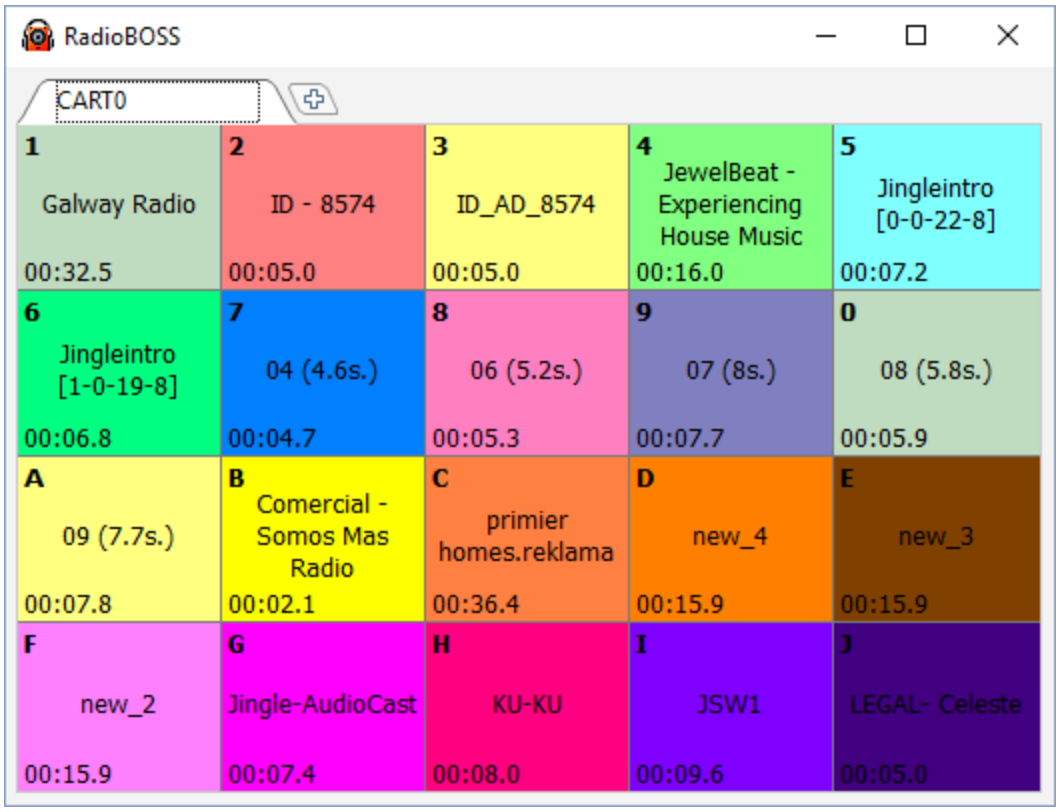

6. Player

The player allows users to play a track from a playlist and provides additional options to control playback.

For more information on the top menus, please refer to the Player.
The style of the playback buttons can be changed in Settings->View, Playback button style.

You can change your radio station's logo. Just right-click on the icon in the upper right-hand corner. A window will open in which you can select a new logo. There is a **Default** caption above the logo - this is the name of the current profile. You can change it by saving the profile under a different name: press **Settings** -> **Save Profile As**.

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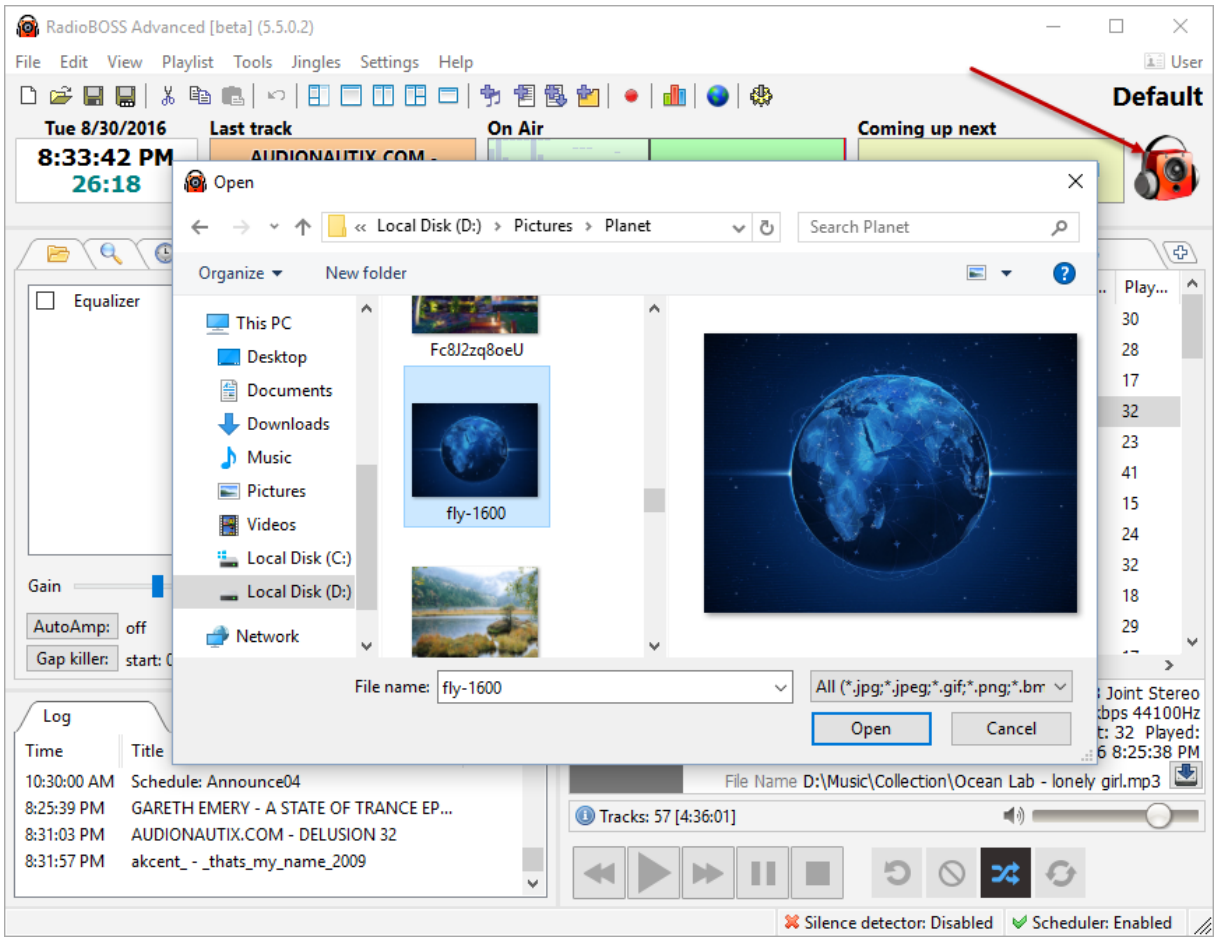

More information:
Top menus
Toolbar
Control panel
Playlist window
Player

6.1 Top menus

RadioBOSS offers top menus that provide access to all the commands and options.

File Edit View Playlist Tools Jingles Settings Help

Description of menus:

File	Create, open, save, print a playlist
Edit	Operations with playlist

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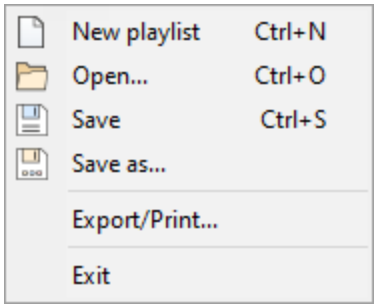
View	Viewing and control panel options
Playlist	Add music and other items to a playlist, record voice tracks and more
Tools	Tools: Music Library, Report Generator, Ads Scheduler, Stream Archive
Jingles	Configure quick access jingles
Settings	Settings and operations with a profile
Help	Help, registration, program credits
User	User access control

6.1.1 File

The **File** menu allows users to create, open and save a playlist.



Description of menu entries:

New	Create a new playlist
Open...	Open a playlist
Save	Save a playlist
Save as...	Save a playlist as...
Export/Print...	Print a playlist
Exit	Exit the program

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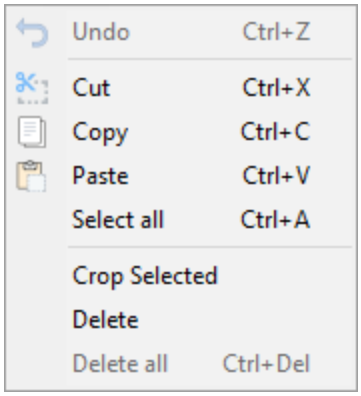
6.1.2 Edit

The **Edit** menu allows users to edit a playlist, such as cut, copy, paste and delete playlist items.



Description of menu entries:

Undo	Undo a recent operation
Cut	Cut a selected file to clipboard
Copy	Copy a selected file to clipboard
Paste	Paste a file from clipboard
Select all	Select all files
Crop selected	Crop selected files
Delete	Delete a selected file
Delete all	Delete all files

6.1.3 View

The **View** menu allows users to switch to different viewing modes, such as File explorer, Search, Information, FX, Broadcasting statistics, etc.

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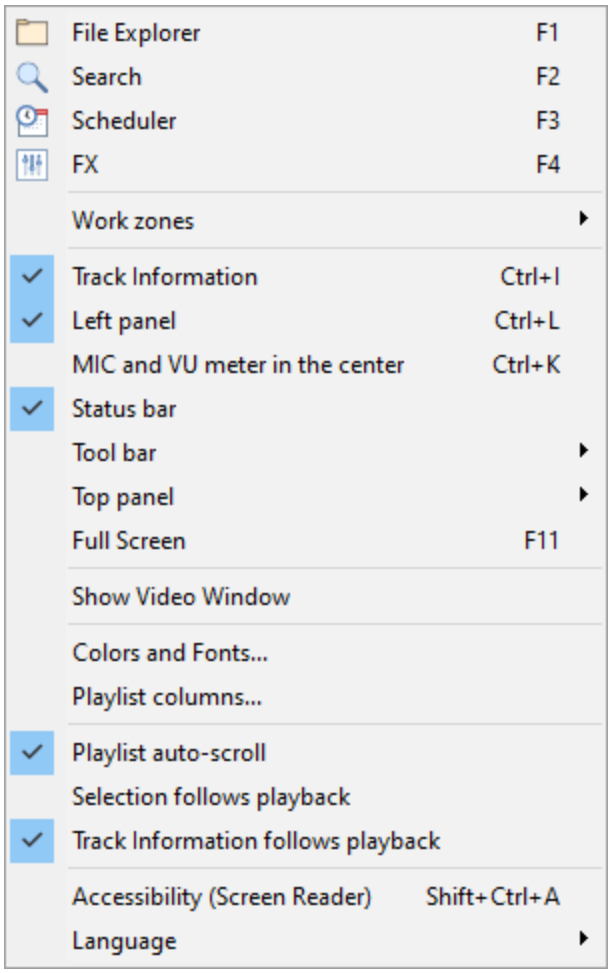

Description of menu entries:

File explorer	Open a file explorer window
Search	Open a search window
Schedule	Open a scheduler
FX	Open an FX control panel
Work Zones	Configure the number of work zones. Second and third work zone will appear at the right and can host File explorer, Search, Cart wall, AUX Player and Web browser
Track Information	Turn on/off Track Information panel under the playlist

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Left panel	Show/hide left panel
MIC and VU meter in the centre	Show/hide MIC and VU meter in the centre
Status bar	Show/hide status bar
Tool bar	Show/hide toolbar
Top panel	Full/Minimal/Hide top panel
Full Screen	Switch to full-screen mode
Colors and Fonts...	Change playlist colors and fonts
Playlist columns...	Configure playlist columns
Playlist auto-scroll	Automatically scroll playlist to the playing track
Selection follows playback	When checked, currently playing track will be selected automatically
Track information follows playback	Update the Track Information tab with current track information
Accessibility (Screen Reader)	Turn on/off accessibility mode - improve UI accessibility for Screen Reader users
Language	Select a language for the user interface

6.1.4 Playlist

The **Playlist** menu allows users to perform operations on a playlist.

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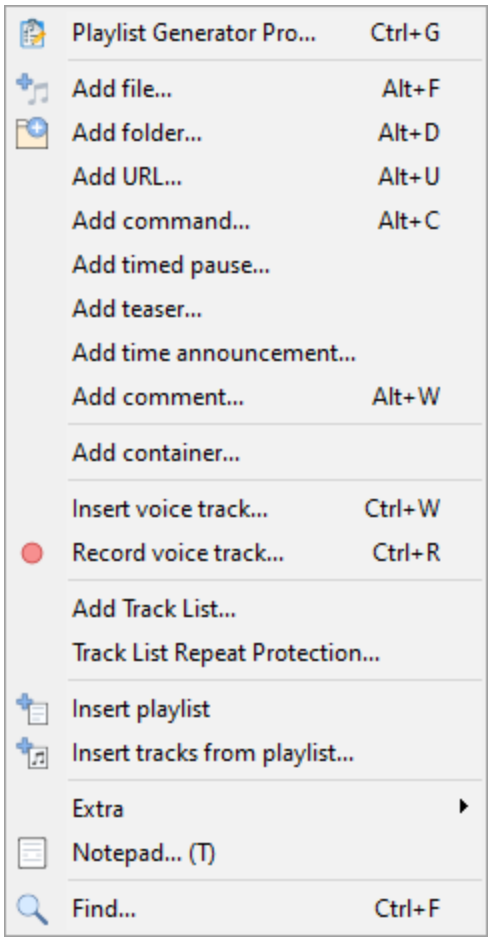

Description of menu entries:

Playlist Generator Pro...	Open Playlist Generator Pro
Add file...	Add a file to the playlist
Add folder...	Add all tracks from a specified folder to the playlist
Add URL...	Add an URL address to the playlist to play a network stream or podcast
Add command...	Add a command to the playlist
Add timed pause...	Add timed pause (a window will open where you can set the duration)
Add teaser...	Add Teaser

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Add time announcement...	Add automatic time announcement
Add comment...	Add comment to the playlist. Comments are for the convenience only, they are not played.
Add Line Input...	Add a line input to the playlist. This menu item will be hidden if no device is selected for Line.In in Settings
Insert playlist	Insert a playlist to the current playlist - the playlist will appear as one track and will be opened up on playback
Add tracks from playlist...	Add tracks from a playlist to the current playlist
Insert voice track...	Insert voice track into playlist, voice tracks are recorded using Voice Track recording tool
Record voice track...	Open Voice Track recording tool
Add Track List...	Add Track List
Track List Repeat Protection...	Configure no-repeat rules for Track List feature
Extra	
Add Text-to-Speech...	Read custom text.
Add DTMF tone generator	Add DTMF tone generator.
Show Duplicates	Show duplicate tracks in the playlist. Option
Show nonexistent files	Mark non-existent files in the playlist
Shuffle	Shuffle tracks in the playlist
Reload tracks information	Force reloading tags and additional information for all tracks in the playlist.
Copy to folder...	Copy selected files to a folder. If all tracks in a playlist are selected, copied tracks will have a number (track number) in the file name. This way, you can keep the same track order in the folder as in the playlist.

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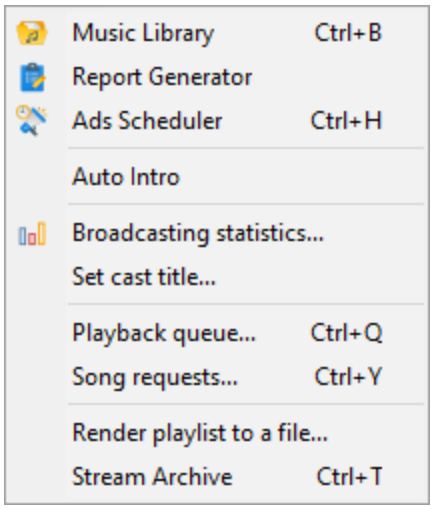
Delete files from disk	Delete selected files from disk. Use with care
Playlist Generator...	(deprecated) Open old Playlist Generator
Reset played state	Reset "played" state for tracks in the playlist window
Sweeper repeat protection	Repeat protection for scheduler Sweepers
Notepad...(T)	Open Notepad to add note to the track. The note will pop up every time the track is played. Right-click the notepad window to change its mode of operation (per-track note or sticky note).
Find...	Search in playlist

More information:
Generating a playlist
Using microphone
Working with linear input
Using Track list
Voice Tracking

6.1.5 Tools



Menu entries:

Music Library	Open Music Library
Report Generator	Open Report Generator

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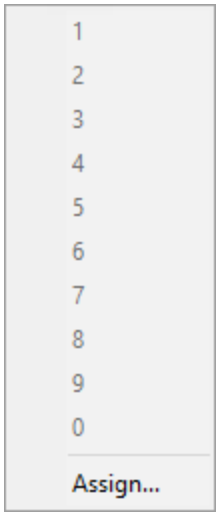
Ads Scheduler	Open Ads Scheduler
Auto Intro	Open Auto Intro settings
Broadcasting statistics...	Open a window with information on broadcasting output channels (number of listeners, status)
Playback queue...	Open a window with Playback queue
Song requests...	Open a window with Song requests
Stream Archive	Configure Stream Archive feature to record broadcasts

6.1.6 Jingles

The **Jingles** menu lists current jingles (1-0) and allows users to define new ones.

Jinlges may be quickly played using the numeric 1..0 keys on keyboard or using the 1..0 buttons on the toolbar. All playing jingles can be stopped by pressing the "minus" button.



Description of menu entries:

1-0	List of assigned jingles
Assign...	Assign jingles

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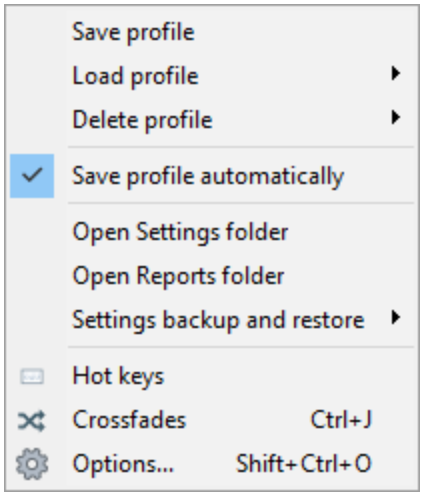
6.1.7 Settings

The **Settings** menu allows users to save and load settings profiles, customize hot keys and preferences.



Description of menu entries:

Save profile	Save a current settings profile
Load profile	Load a settings profile
Delete profile	Delete a settings profile
Save profile automatically	Save profile automatically
Open Settings folder	Opens the folder where RadioBOSS stores its settings and other data
Open Reports folder	Opens the folder with reports. Report is a .csv file that stores the log of program operation: what tracks were played, when, which scheduled tasks were started and other events
Settings backup and restore	Create a backup copy of settings: profile, playlists, scheduled events and other settings in a single file
Hot keys	Customize hot keys
Crossfades	Configure crossfades
Options...	Open the Settings dialog

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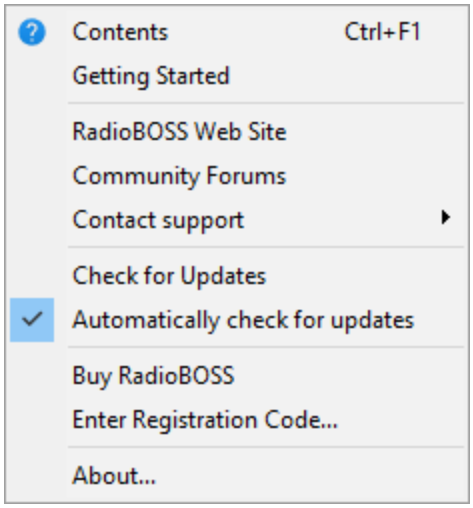
More information:
RadioBOSS. Quick start

6.1.8 Help

The **Help** menu allows users to open Help, visit RadioBOSS website, report a bug, register the program and view credits.



Description of menu entries:

Contents	Open Help system
Getting Started	Open RadioBOSS Quick start chapter
RadioBOSS Web Site	Open the RadioBOSS website
Community Forums	Opens RadioBOSS Community Forums
Contact support...	Open the Report a bug form, contact support
Check for Updates	Check if a new RadioBOSS version is available
Automatically check for updates	Check if a new RadioBOSS version is available automatically
Buy RadioBOSS	Open the RadioBOSS purchase page

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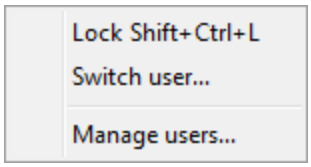
Enter Registration Code...	Open Enter registration key dialog
About...	Open About RadioBOSS dialog

More information:
How to register

6.1.9 User



User Account Management. Please see this topic for more information.

6.2 Control panel

Description of icons:

	File explorer - Browse through the file system to add tracks to the playlist (Read more...)
	Search - Find a track instantly by searching for a specific keyword in title, artist, album, etc (Read more...)
	Scheduler - Events Scheduler (Read more...)
	FX - Configure the equalizer, tempo, ... (Read more...)

6.2.1 File explorer

File explorer allows users to browse through folders and add files to the playlist.

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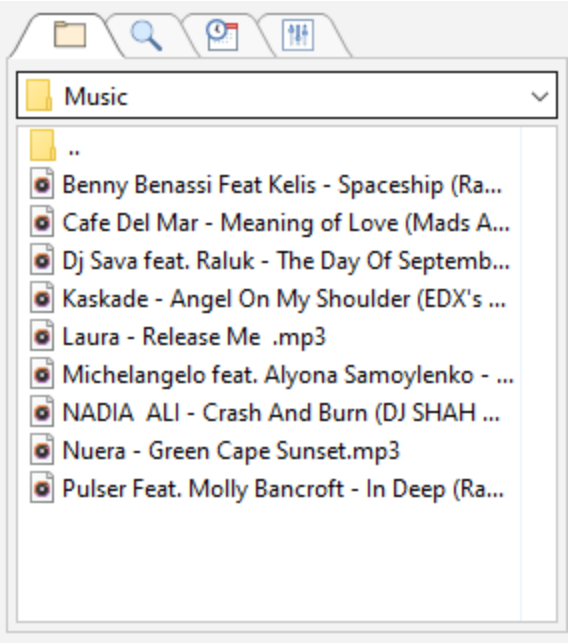
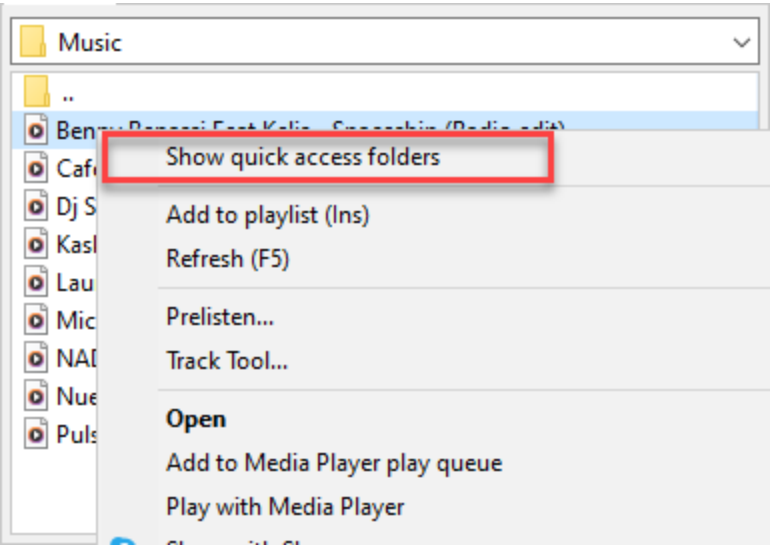


To add a track to the playlist, drag a file from File explorer and drop it to the Playlist window. Alternatively, you can press the Insert key.

List can be manually updated by pressing the F5 key.

Right-click any item in the file list to enable "Quick access folders" feature.



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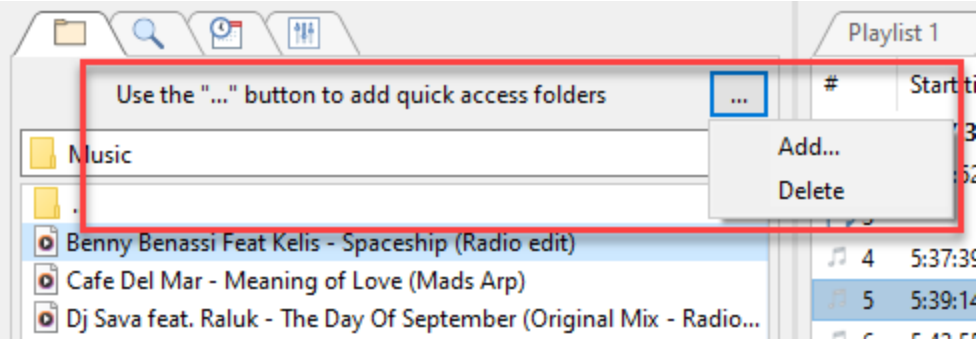
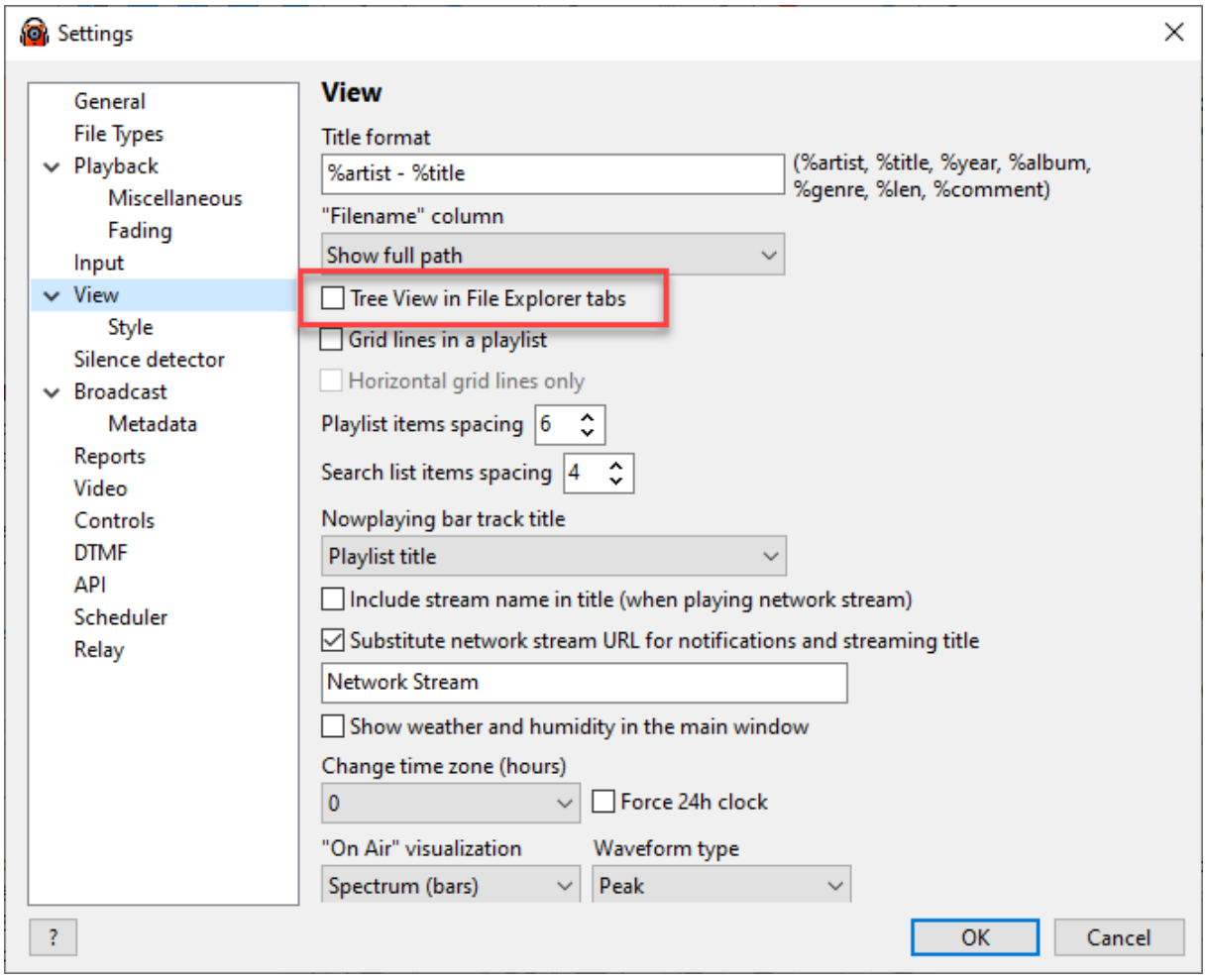


You can enable tree view of the files list from the View settings.



6.2.2 Search

Search allows users to find a track in the Music library or folder.

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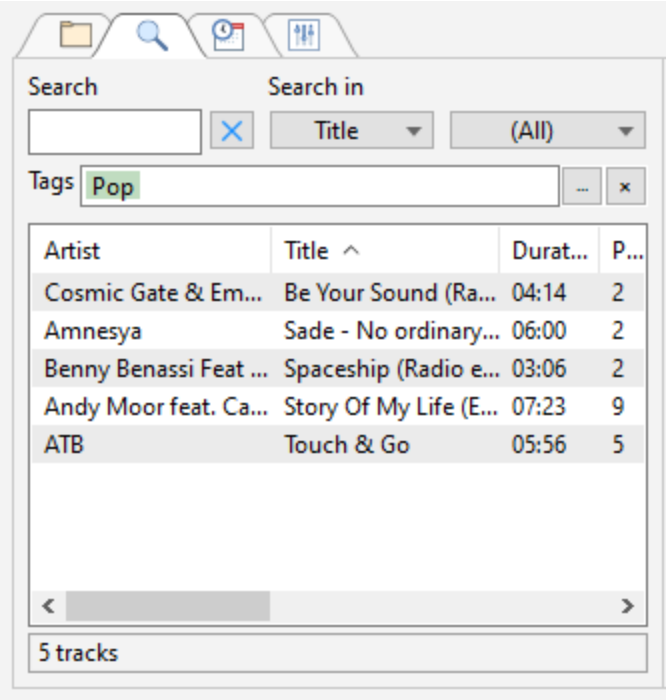

Click the **Select...** button (on the right) to select the the search source: one of the music libraries or a folder. Search in a folder covers the folder itself and its subfolders.

To search for a file, enter a keyword into the **Find** field.

As the first letters of a keyword are being entered, the program automatically queries its database and lists all the tracks that match the query. The results narrow down as the user keeps on entering letters. Users can search for a keyword in title, artist, album, year, genre, comment, etc.

To add files to playlist you may use drag-n-drop, right-click menu or hot keys:
Num+ or Insert add after playing file
Num- add to the end of playlist

Right-click the **Stop** button to show the contents of the whole library in the search result.

You can prelisten a track. To do this, hold down **Alt** and click on the track (or press **Alt+R**).

More information:
Creating a music library

6.2.3 Scheduler

Scheduler allows users to schedule a track, playlist, or command for automatic playback at a predefined time.
Right-click the list header to select visible columns.

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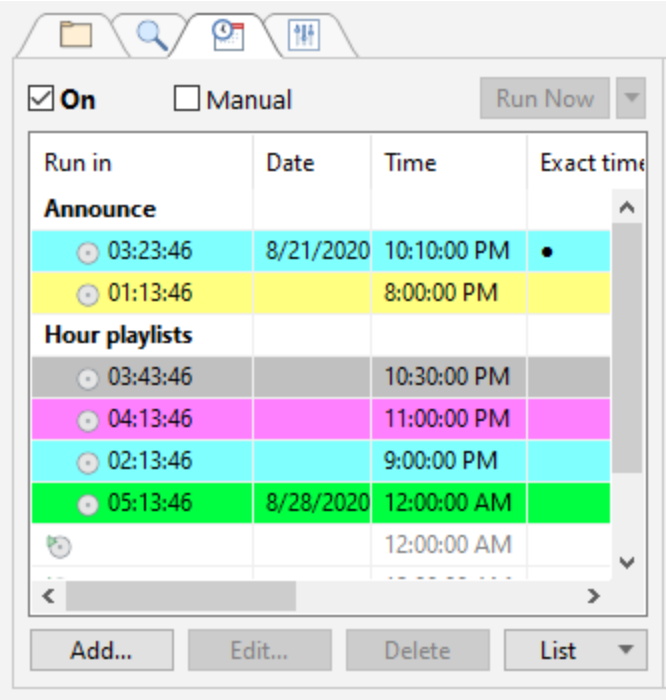

Description of scheduler buttons:

On	Enable/disable the scheduler. Button will be grayed out when the scheduler is suspended by the "scheduler off" command.
Manual	The event won't start automatically. Instead, the program will only notify when event is supposed to be started. To start the event use "Run Now" button.
Run Now	Run selected scheduler event manually
Add...	Add a new scheduled event
Edit...	Edit a scheduled event
Delete	Delete a scheduled task
List ?	Submenu with list edit commands
Save	Save a list of scheduled tracks to a file (.sdl)
Load	Load a list of scheduled tracks from a file (.sdl)
Print	Print scheduled events

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Import	Adds events from .sdl files to a list
Clear	Clear event list

Description of column headers:

Run in	Time left before a scheduled start of a task
Date	Date for a scheduled event to run (if used)
Time	Time of scheduled start
Imm	Status of the **Launch immediately** option ("+" - enabled, "-" - disabled)
A	Status of the **Play above the air** option ("+" - enabled, "-" - track will be included into the main playlist)
Mute level	Playlist volume level when "Play above the air" task is being played
Filename	Filename and path to a file in the file/command name
Name	Event title

More information:
Scheduling playback

6.2.4 FX

FX allows users to configure various effects.

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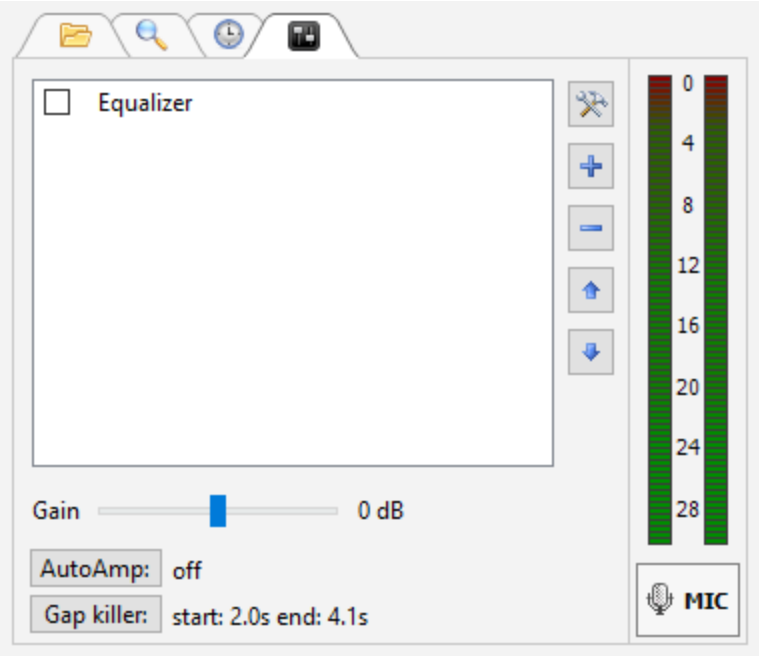

On this tab you'll see the current output level and control it using Gain slider. You can also add, remove turn on and off DSP's.
To add DSP: click "+" button; click "-" to remove and tool button to configure.
You can use built-in DSP's such as **Equalizer** and **Compressor**; you can also use VST and Winamp DSP plugins.

Right-click the **Level Meter** to change its signal source and set its mode of operation.

	Information on status of AutoAmp (Automatic Gain Control) and Gap killer. Click buttons to access settings of those features.

To change Gap Killer or AutoAmp settings, click the corresponding button.

More information:
Using the microphone
DSP Plugins

6.3 Work zones

Work zones can host File explorer, Search, Cart wall, AUX Player, broadcasting statistics, notepad and Web browser. To configure work zones use the menu command: View -> **Work Zones**.
Work zones are marked Zone 1, Zone 2 and Zone 3 on the screenshot. Additional work zone in a separate window and on the left side of the main window can also be used.

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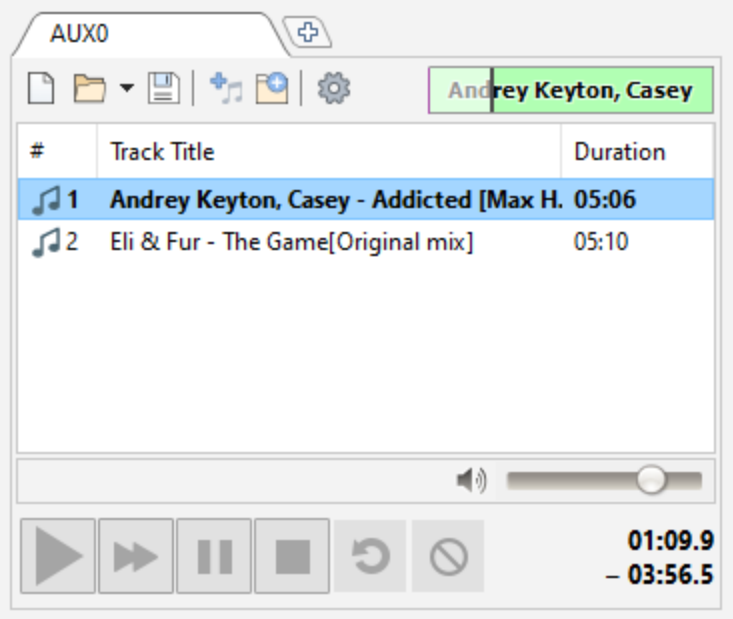
6.3.1 AUX Players

AUX players are mini playlists with simple playback and edit features. Those players can be used for various purposes: save and edit playlists, play tracks, jingles or announcements.
AUX players can only be added in Zone 2 or Zone 3. In order to activate those zones use the menu command: View->Work Zones->2 (or 3).



It's possible to drag-n-drop tracks between regular and AUX playlists: just start dragging a track by its icon (please see the Playlist page for details).

By default, AUX players play tracks on the Main sound device. It's also possible to use other devices. Click the **Settings** button to configure AUX player. If an AUX1 or AUX2 device is selected for the playback, make sure those devices are correctly configured in the Playback settings.

6.3.2 Cart wall

Cart wall is used for instant on-demand playback of various audio files.

6.4 Toolbar

RadioBOSS offers a toolbar that provides quick access to the main commands and options.

Description of icons:

	Create a new playlist

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	Open a playlist
	Save a playlist
	Save a playlist as...
	Cut to clipboard
	Copy to clipboard
	Paste from clipboard
	Undo a recent operation
	Hide or show left panel
	Work zones: 1
	Work zones: 2
	Work zones: 3
	Work zones: Additional
	Add track
	Insert a playlist - playlist will be added as one item in the program's playlist and will open up on playback
	Insert tracks from playlist
	Add tracks from folder
	Playlist generator
	Music library
	Ads Scheduler

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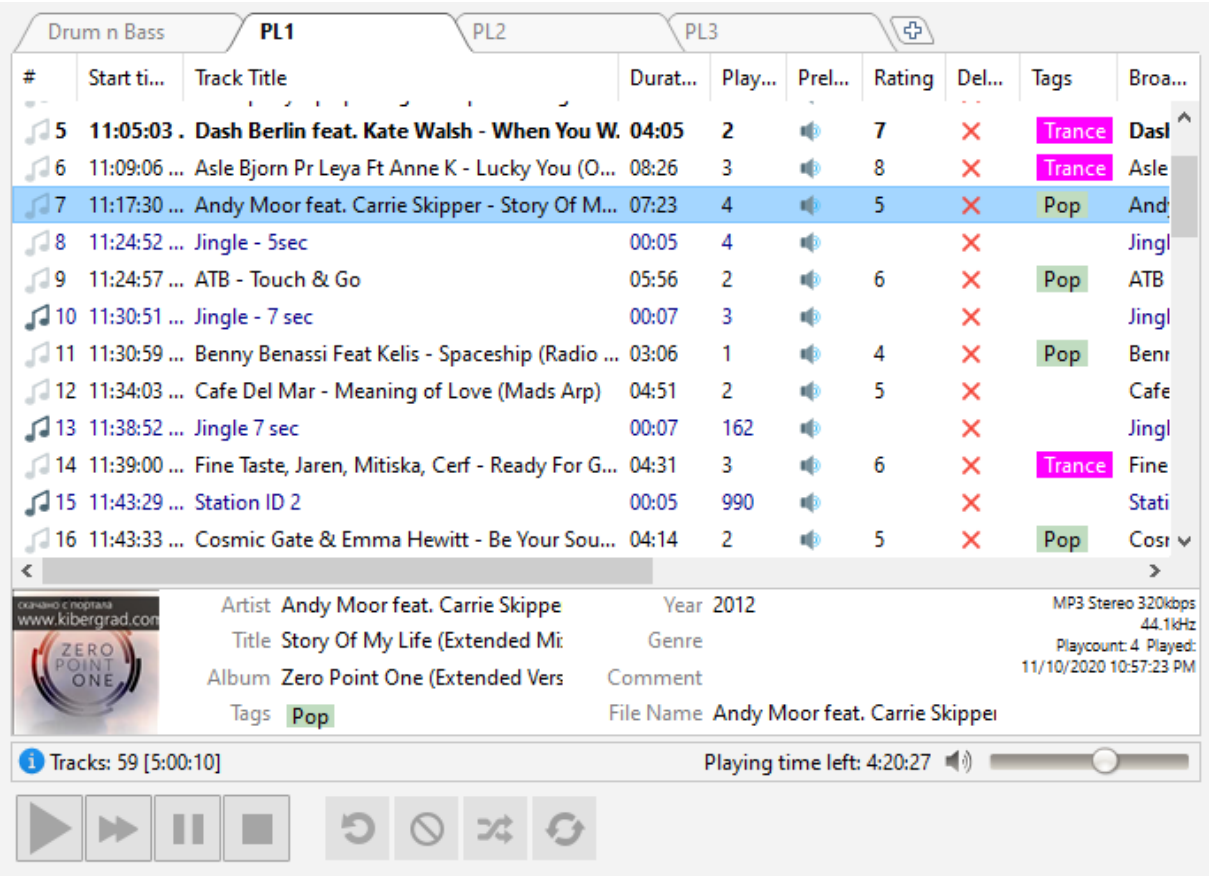
	Report Generator
	Record the broadcast
	Broadcasting statistics
	Turn broadcasting on/off (hot key can also be used: Ctrl+E)
	Open the Settings dialog

6.5 Playlist window

Playlist window lists all of the tracks in a current playlist along with the track information.



Playlist columns are configurable from the menu: **View** -> **Playlist columns** (alternatively, you can right-click a column header).

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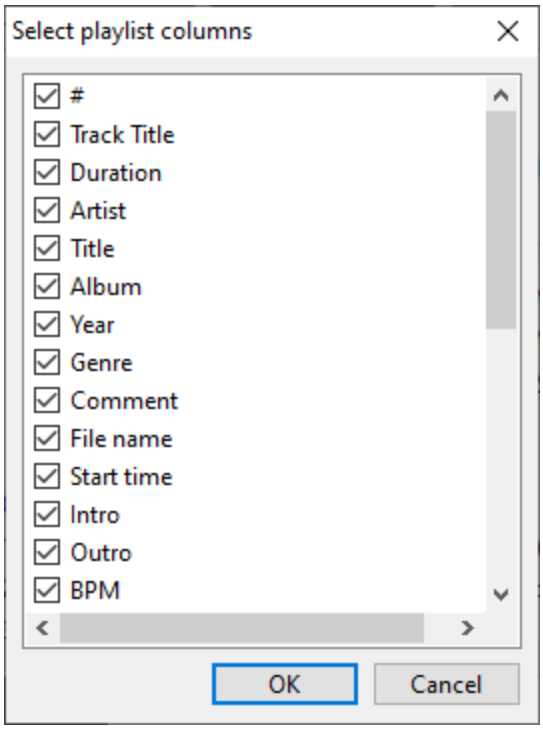


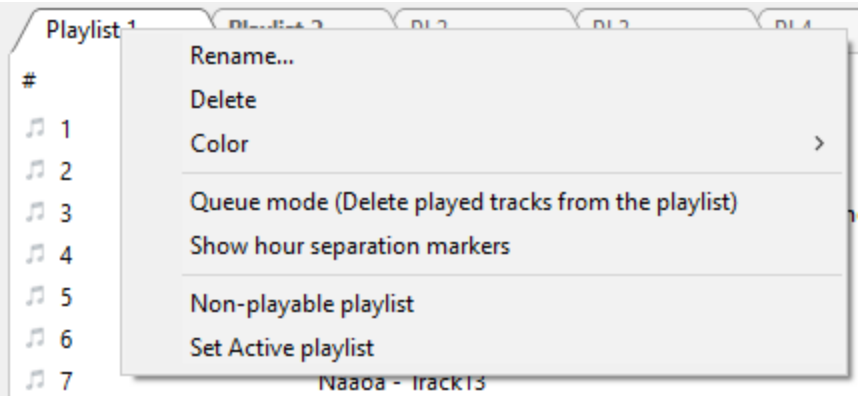
You can perform different actions with tracks by clicking the corresponding icon in the playlist:

	Prelisten a track
	Remove a track
	Play a track
	Add a Stop command after a track

The **Listeners** columns shows the current number of listeners and changes from the previous track.

By default, there are two playlist tabs. You can create as many playlists as you need, just click the "**+**" button on the right.

Right-click on a playlist tab to rename, delete it, or set additional options:



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Queue mode - when enabled, the tracks will be deleted from the playlist after playback. The tracks will not be deleted if either **Repeat Track** or **Repeat List** options are enabled.

Show hour separation markers - enable automatic hour markers.

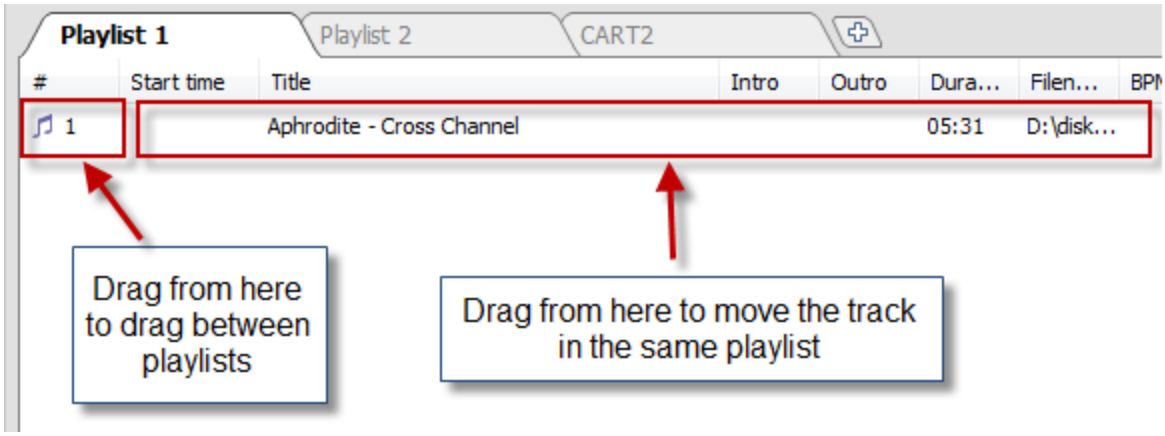
If you would like to make a playlist non-playable, right-click its tab and check the **Non-playable playlist** option.

Set Active playlist - marks playlist as active playlist. Scheduled events are inserted into the active playlist.

Tracks in the playlist are marked with a blue note icon. Tracks which have already been played have a grayed out icon. Scheduled tracks in addition have the small "clock" icon.

Various file types (commercials, station IDs, jingles, ...) can be marked with color.

You can drag files inside a playlist using a mouse or using keyboard: Ctrl+Down arrow, Ctrl+Up arrow. You can drag files between different playlists (eg. to an AUX playlist).



You can add tracks to the playback queue. Just right-click on a track and select **Add to playback queue**. The track's number in the queue will be displayed next to the track.

Below the playlist, there is an area for information about tracks. You can editing tags in that area.

To prelisten a track: hold down **Alt** and click on the track.

You can set a **rating** and a **file type** for each track. To do it, right-click the playlist and select the "**Tools**" item. **Rating** can also be set using a hot key: **Ctrl+Shift+Number (0-9)**

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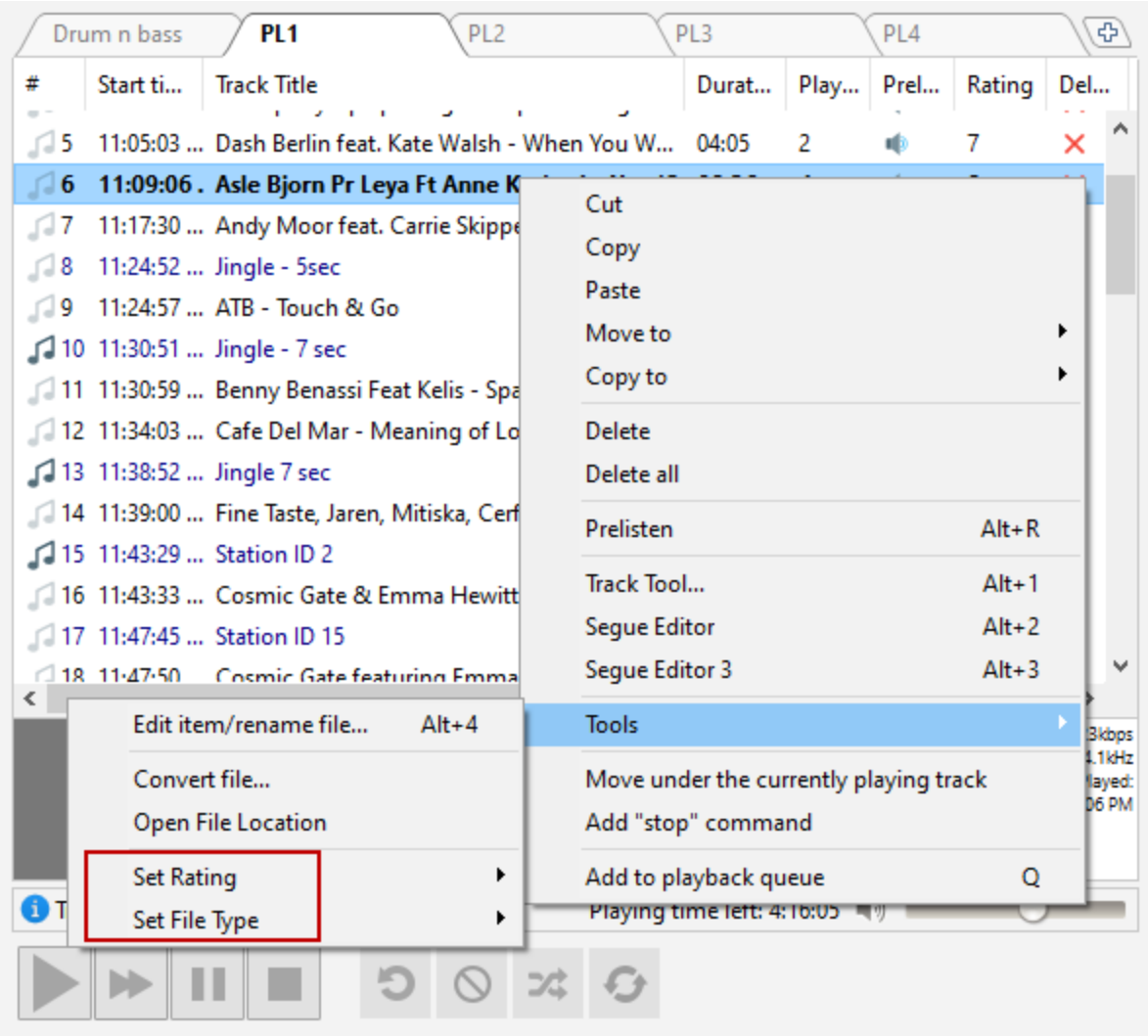

You can also set a file type via the music library: select one or more tracks, right-click a track in the music database, and select "Track Properties..."

A cover art for the selected track is shown in the information area. For tracks without pictures, you can put an image file named **nocover.png** into the settings folder: this picture will be shown in the Track information field for tracks without cover art. To open the settings folder, select **Settings** –> **Open Settings folder** in the menu.

More information:
Cart wall
File types

6.6 Playback control

Control playlist playback.

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The button style can be changed in the View section of the settings page.

Seeking: the track playback position can be changed by right-clicking on the "On air" window.

Color indication in the OnAir window: red vertical line shows Mix point, blue bars at the beginning and end - fade in/fade out, pink bars - intro and outro.

Description of player controls:

	Previous track
	Play the selected track
	Next track
	Pause playback
	Stop playback
	Repeat the current track. **Right-click this button for additional options.**
	Stop playback after the current track. **Right-click this button for additional options.**
	Shuffle playback order. Attention! If your playlist contains tracks from the scheduler, random playback order won't work: tracks will be played in order!
	Repeat the playlist
	Volume control.

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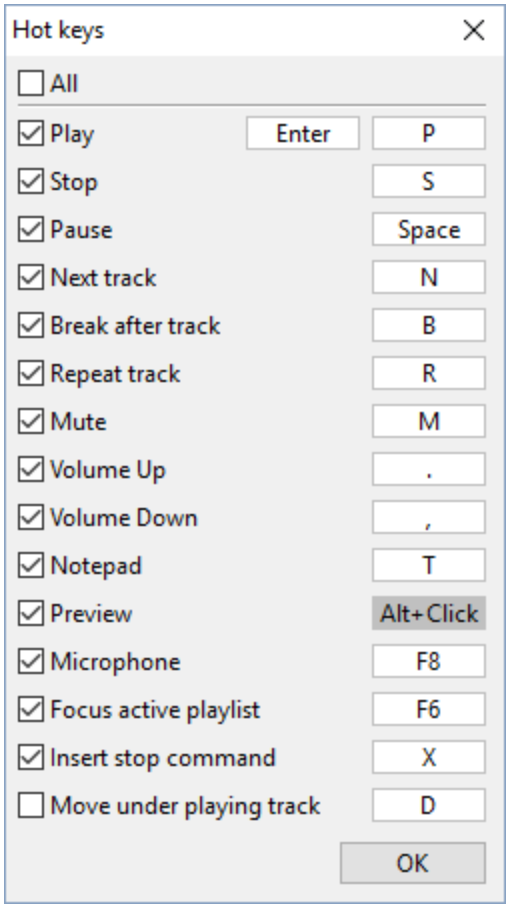
More information:
Generating a playlist
Playback queue

6.7 Hot Keys

To open settings hot keys click **Settings** -> **Hot keys**.



If you want to change any of the hot keys, click on the image of the key and select the characters you would like to use.

Additional hot keys:
Ctrl+E start or stop broadcasting.

Ctrl+NumPad(0..9) - set track rating (1-9 - set rating 1 to 9 respectively, 0 - set rating 10, Ctrl+NumMinus - reset rating).

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Part VII

7 License agreement

End-User License Agreement ("Agreement")

Last updated: November 22, 2020

Please read this End-User License Agreement carefully before checking the "I accept" checkbox, downloading or using RadioBOSS.

Interpretation and Definitions
==========

Interpretation

The words of which the initial letter is capitalized have meanings defined under the following conditions. The following definitions shall have the same meaning regardless of whether they appear in singular or in plural.

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* Company (referred to as either "the Company", "We", "Us" or "Our" in this Agreement) refers to Dmitry Vladimirovich Kuzmitsky (INN 344813500018).

* Content refers to content such as text, images, or other information that can be posted, uploaded, linked to or otherwise made available by You, regardless of the form of that content.

* Country refers to: Russia

* Device means any device that can access the Application such as a computer, a cellphone or a digital tablet.

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==========

Notwithstanding any damages that You might incur, the entire liability of the Company and any of its suppliers under any provision of this Agreement and your exclusive remedy for all of the foregoing shall be limited to the amount actually paid by You for the Application or through the Application.

To the maximum extent permitted by applicable law, in no event shall the Company or its suppliers be liable for any special, incidental, indirect, or consequential damages whatsoever (including, but not limited to, damages for loss of profits, loss of data or other information, for business interruption, for personal injury, loss of privacy arising out of or in any way related to the use of or inability to use the Application, third-party software and/or third-party hardware used with the Application, or otherwise in connection with any provision of this Agreement), even if the Company or any supplier has been advised of the possibility of such damages and even if the remedy fails of its essential purpose.

Some states/jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to You.

Severability and Waiver
==========

Severability

If any provision of this Agreement is held to be unenforceable or invalid, such provision will be changed and interpreted to accomplish the objectives of such provision to the greatest extent possible under applicable law and the remaining provisions will continue in full force and effect.

Waiver

Except as provided herein, the failure to exercise a right or to require performance of an obligation under this Agreement shall not effect a party's ability to exercise such right or require such performance at any time thereafter nor shall be the waiver of a breach constitute a waiver of any subsequent breach.

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Product Claims
==========

The Company does not make any warranties concerning the Application.

United States Legal Compliance
==========

You represent and warrant that (i) You are not located in a country that is subject to the United States government embargo, or that has been designated by the United States government as a "terrorist supporting" country, and (ii) You are not listed on any United States government list of prohibited or restricted parties.

Changes to this Agreement
==========

The Company reserves the right, at its sole discretion, to modify or replace this Agreement at any time. If a revision is material we will provide at least 30 days' notice prior to any new terms taking effect. What constitutes a material change will be determined at the sole discretion of the Company.

By continuing to access or use the Application after any revisions become effective, You agree to be bound by the revised terms. If You do not agree to the new terms, You are no longer authorized to use the Application.

Governing Law
==========

The laws of the Country, excluding its conflicts of law rules, shall govern this Agreement and your use of the Application. Your use of the Application may also be subject to other local, state, national, or international laws.

Entire Agreement
==========

The Agreement constitutes the entire agreement between You and the Company regarding your use of the Application and supersedes all prior and contemporaneous written or oral agreements between You and the Company.

You may be subject to additional terms and conditions that apply when You use or purchase other Company's services, which the Company will provide to You at the time of such use or purchase.

Contact Us
==========

If you have any questions about this Agreement, You can contact Us by email: support@djsoft.net

More information:

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How to register

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Part

8 Contacts

If you have questions about RadioBOSS, suggestions on how to improve the software, or you found a bug, please visit our support page: http://www.djsoft.net/enu/support.htm or forums: http://www.djsoft.net/smf/

The latest version of the program can be downloaded from http://www.djsoft.net

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