

OpenBroadcaster



Installation

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BEFORE YOU BEGIN

This guide will assist in the initial setup of both OBPlayer and OBServer backend application infrastructure. Once these applications are setup and running, proceed to the **Quick Start** (<https://support.openbroadcaster.com/quick-start/>) for provisioning instructions.

Minimum System Requirements

OBServer

Item	Description
------	-------------

Processor	1GHz 64 bit CPU. ARM, Intel or Pi
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Memory	4GB of RAM
--------	------------

Storage	128GB
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Display	No display is required for the web server
---------	---

Framework	PHP, MySQL, Nginx and Gstreamer
-----------	---------------------------------

Recommended.	Should be a *nix system. Debian 10+, Raspberry PI OS or Ubuntu-Server/Desktop 22.04/24.04
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OBPlayer

Item	Description
------	-------------

Processor	1GHz 64 bit CPU. ARM, Intel or Pi
-----------	-----------------------------------

Memory	4GB RAM
--------	---------

Storage	128GB
---------	-------

Display	None required unless displaying Video or Images
---------	---

Audio	Analog Input\Output, USB Interfaces or Digital HDMI\DisplayPort
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Video	Minimum 640x480 screen resolution
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Framework	Python and Gstreamer
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Recommended.	Should be a *nix system. Debian 10+, Raspberry PI OS or Ubuntu-Server/Desktop 22.04/24.04
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Compatible Hardware (<https://support.openbroadcaster.com/accessories#supported-hardware>)

ALSA Supported Soundcards (<https://www.alsa-project.org/main/index.php/Matrix:Main>)

1. Install OBServer

OpenBroadcaster - Server Installation Instructions

Dependencies

A web server with a web environment available (e.g., Apache, Nginx)
PHP 8.2 or higher
MySQL or MariaDB database server
Composer (PHP dependency manager)
Node.js and npm (Node Package Manager)

Required PHP Modules

Make sure the following PHP modules are installed and enabled:

mysql (for MySQL database connectivity)
mbstring (for multi-byte string handling)
xml (for XML parsing)
gd (for image manipulation)
curl (for making HTTP requests)
imagick (for advanced image processing)

Required Packages

Install the following Ubuntu / Debian packages, or the equivalent for your operating system.

festival (for text-to-speech functionality)
imagemagick (for image manipulation)
ffmpeg (for audio/video processing)
libavcodec-extra (extra codecs for ffmpeg)
libavfilter-extra (extra filters for ffmpeg)
vorbis-tools (for Ogg Vorbis audio encoding)

Installation Steps

Copy the OpenBroadcaster Server files to your web server's document root directory.

Navigate to the cloned repository directory within the web document root and run the following command to install PHP and JavaScript dependencies.

```
composer install && npm install
```

Create a new MySQL or MariaDB database for OpenBroadcaster and import the db/clean.sql file to set up the initial database structure.

Copy the config.sample.php file to config.php and open it in a text editor. Set the required configuration items, such as database connection details and other settings specific to your environment.

Run the following command to validate your configuration file. Correct any errors displayed in red.

```
tools/cli/ob check
```

Run the following command to install database updates. This may take a few minutes to complete.

```
tools/cli/ob updates run all
```

Set the password for the default admin user by running the following command. Enter a secure password when prompted.

```
tools/cli/ob passwd admin
```

Set up a cron job to run the cron.php script regularly. This script is responsible for clearing old cache and unused upload files. The following is an example crontab entry.

```
*/30 * * * * /path/to/openbroadcaster/tools/cli/ob cron run
```

Source: [Install.txt \(https://github.com/openbroadcaster/observer/blob/v5.3.3/INSTALL.md\)](https://github.com/openbroadcaster/observer/blob/v5.3.3/INSTALL.md)

Web Updates

Command Line Tool

```
20210312  Clear and update show cache table.
20220704  Rename old schedules tables, add underscore for deprecated/old
           tables.
20221010  Rename old emergencies tables. Rename emergency broadcasts
           permission. Rename parent emergency field in players table.
20221026  Add table for user data storage.
20221028  Add uniqueness constraint to combined user ID and name for users
           storage.

11 installed    40 pending
obsuser@observer:/var/www/observer$ tools/cli/ob
OpenBroadcaster CLI Tool (alpha). Run ob <command>.
```

Commands:

check	check installation for errors
cron run	run scheduled tasks
updates list	list available updates
updates run	run available updates
passwd <username>	change password for user

```
obsuser@observer:/var/www/observer$ tools/cli/ob updates run

Update 20200208 installed.
Update 20200220 installed.
Update 20200622 installed.
```

CLI Running Updates

```
ob@observer:~/www$ php tools/cli/ob.php
OpenBroadcaster CLI Tool (alpha). Run ob.php <command>.

Commands:
check      check configuration for errors
ob@observer:~/www$ php tools/cli/ob.php check
PHP Version                  PHP v8.0.25 detected.
PHP MySQL extension          PHP MySQL extension detected.
PHP Extensions               Required PHP extensions found.
PHP Extensions               Optional PHP extensions found.
Program detection            Tool to detect dependencies (which) is available.
Text-to-Speech                Required components for text-to-speech found.
Audio & Video Support        AVConv found. Audio and video formats should be
                                supported. Make sure the supporting libraries are
                                installed (libavcodec-extra-53, libavdevice-extra-53,
                                libavfilter-extra-2, libavutil-extra-51,
                                libpostproc-extra-52, libswscale-extra-2 or similar
                                packages on Debian/Ubuntu).
Settings file                 Settings file (config.php) found. Will try to load
                                components.php and config.php now. If you see an
                                error below (or if output stops), check config.php
                                for errors.
Settings file (config.php) is valid.
Assets directory              Assets and assets/uploads directories exist and are
                                writable by the server.
Composer                      Vendor directory found. Run "composer install" to
                                ensure all required packages are installed.
Node Package Manager (NPM)    Node package directory found. Run "npm install" to
                                ensure all required packages are installed.
Database Privileges           Found all necessary privileges.
Database Version              Database version found: 20221028.

14 pass      0 warnings      0 errors
ob@observer:~/www$
```

CLI Check without errors

CHECK FOR UPDATES Prior to reporting issues to ensure the most current version is running

Advanced Configuration

Toubleshooting Guide (<https://support.openbroadcaster.com/troubleshooting#post-installation-observer-troubleshooting>)

Web Server

Assuming your DNS is configured, you should be able adjust ob.apache.conf to your system and copy it to the appropriate spot for your machine, restart apache, and browse to //Your_IP/ to access your server. Login in with username admin and the password you set for the Admin user.

2. Install OBPlayer

OBPlayer Installation Instructions

1. See dependencies.txt for player dependencies (Debian 10/Ubuntu 20.04 & above)
2. Run "bash obplayer_check" or "bash obplayer_loop" or "bash obplayer_check -h" for help
3. Config files settings.db generated on first run in ~/.openbroadcaster
4. Admin panel http://<IP_of_Player>:23233 default user = admin default password = admin
5. Configure tabbed menus
6. Restart the player

NOTE: User required to change login passwords on first login using the defaults.

Connect RJ45 to a network with a router handing out DHCP IP addresses.

For advanced instructions see <https://support.openbroadcaster.com/install>

Source: install.txt (<https://github.com/openbroadcaster/obplayer/blob/main/install.txt>)

Dependencies

```
ntp python3 python3-pycurl python3-openssl python3-apsw python3-magic python3-dateutil python3-requests python3-gi python3-gi-cairo gir1.2-gtk-3.0 gir1.2-gdkpixbuf-2.0 gir1.2-pango-1.0 python3-gst-1.0 gir1.2-gstreamer-1.0 gir1.2-gst-plugins-base-1.0 gir1.2-gst-rts-p-server-1.0 gstreamer1.0-tools gstreamer1.0-libav gstreamer1.0-alsa gstreamer1.0-pulseaudio gstreamer1.0-plugins-base gstreamer1.0-plugins-good gstreamer1.0-plugins-bad gstreamer1.0-plugins-ugly ffmpeg
```

Ubuntu

```
ubuntu-restricted-addons ubuntu-restricted-extras
```

Extras (not installed with Apt)

Needed for SSL dashboard

```
pip3 install passlib[bcrypt]
```

Needed in case it wasn't installed with Apt

```
pip3 install apsw
```

Recommended for CATV Video Playout

```
gstreamer1.0-vaapi mesa-vdpau-drivers
```

CAP Alerting onboard TTS

```
espeak mbrola mbrola-en1 mbrola-us1 mbrola-us2 mbrola-us3 mbrola-fr1 mbrola-fr4
```

POLLY AWS Voices in the alerts module

```
pip3 install boto3
```

RS-232 trigger option in the alerts module

```
python3-serial
```

Sharing multiple OBPlayers with a local media library

```
cifs-utils
```

Better

```
autofs
```

Command Line tool for PulseAudio

```
pip3 install pulsectl
```

Off-air audio log and SDR FM Receiver USB Dongle

```
pip3 install pyrtlsdr
```

Include if using the news feed override

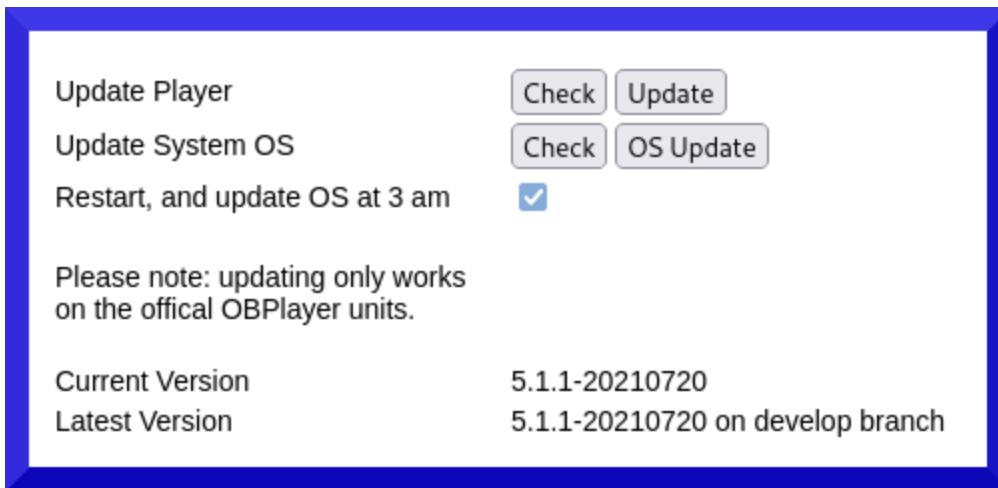
```
pip3 install inotify
```

Note: pip3 pkg not included in apt-get; must be installed using pip3

Web Updates

NOTE Utilities for displaying current version and updating the Player are on the Admin Page of the **Dashboard**.

Updating the software ensures the most current version of the application is running. To obtain and install updates, click the Update button in the dashboard Admin menu. After updating the Player, restart the Player to load changes to the Dashboard.



Player is up to date

Advanced Configuration

Toubleshooting Guide (<https://support.openbroadcaster.com/troubleshooting#post-installation-obplayer-troubleshooting>)

Example Installation

Open Terminal and from your home directory run:

```
mkdir /usr/share/obplayer
```

Then go to this directory

```
cd /usr/share/obplayer
```

In the empty target/installation directory run

```
sudo git clone https://github.com/openbroadcaster/obplayer.git ./
```

Defaults to Main Branch

Change Branch during install

```
sudo git clone -b develop https://github.com/openbroadcaster/obplayer.git ./
```

Example using -b (develop branch)

2FA (2 Factor Authentication)

You'll need to have a key setup on target machine and run

```
git clone git@github.com:openbroadcaster/obplayer.git
```

or

```
git clone -b develop git@github.com:openbroadcaster/obplayer.git
```

OBPlayer is now setup with latest code ready to use

Running OBPlayer for first time

From the install directory **EG** /usr/share/obplayer

```
bash obplayer_check
```

or

```
bash obplayer_loop -d
```

using -d (debug) displays useful start up info

TechTip Resetting Lost or Admin passwords cannot be retrieved easily. Config files containing user and machine settings are located in the hidden `~/.openbroadcaster` folder within the users home directory. To reset admin or lost passwords may be recovered by editing the sqlite DB file `settings.db` or simply deleting it and restarting obplayer. On restart obplayer will recreate this DB with default values and prompts for new passwords.

Feedback

Find a bug? Want to request a feature? Submit your issue to **OBServer** (<https://github.com/openbroadcaster/observer/issues/new>) or **OBPlayer** (<https://github.com/openbroadcaster/obplayer/issues/new>)

Have some Gstreamer, PHP or Python coding skills? Help **Contribute** (<https://github.com/openbroadcaster/.github/blob/main/docs/CONTRIBUTING.md>) and **Sponsor** (<https://github.com/sponsors/openbroadcaster>) to make the OpenBroadcaster community even better

We really appreciate your feedback!

OBServer Advisories

No OBServer Security Issues

OBPlayer Advisories

No OBPlayer Security Issues

Open Server Bugs

124 - Double clicking media item, show details or editing PL, loses the work in progress.

Open Player Bugs

147 - Live Assist playlist can cause dead air when no host intervenes

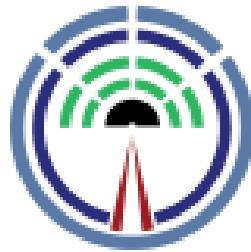
127 - LA Cannot Advance up, stuck at Break Point

126 - LA Missing > indicator after pressing Hot Button

16 - LA not switching to Fall Back Media

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[OpenBroadcaster \(https://support.openbroadcaster.com\)](https://support.openbroadcaster.com)

OpenBroadcaster



Quick Start Guide

- **Server**
 - **Upload Media**
 - **Create Default Playlist**
 - **Create The Player**
- **Player**
 - **Provision The Player**
 - **Sync the Player to Server**
- **Advanced**
 - **Search Media**
 - **Schedule a Show**

Preamble instructions

This quick start guide will help you get media playing on a OBPlayer box managed by a OBServer. For instructions on setting up the OBServer and OBPlayer see this **installation** (<https://support.openbroadcaster.com/install>) guide first.

Prerequisites

Updated OBServer and OBPlayer that can see each other on same machine or on network.

Server

Upload Media

1. On the bottom Navigation Bar is a `Media>New Media` .
2. Select the file you want to upload.
3. Fill in mandatory info for Artist and Title.
4. Save
5. You'll see the media you just added appear in the `Media Sidebar`

Create Default Playlist

If a Player cannot locate a schedule of media to be played, it will play the Default Playlist (DPL) in a loop to avoid dead air. Server will sync DPL with remote Player and play the contents of DPL.

Use `Playlist` menu to create a new playlist:

1. Select `Playlist>New`
2. Provide a `Name` and `Description` for the (DPL).
3. From the media sidebar tab, click hold to **drag and drop** selections to the DPL. As items are added to the list of Playlist Items, the `Total Duration` for all items on the Playlist is updated. Add items to the Playlist until the desired duration is achieved. See **Server Documentation** (</observer/#playlist>) for more details on creating Playlists.
4. Status select `visible`. This allows users to see your show, but not change it. `Private` makes your show invisible to others. `Public` shares media through public API (if enabled)
5. Save Data.

Create The Player

Player Manager

[New Player](#)

ID	Name	Description	Status
2	CFET 106.7 FM	Tagish	Version: 4.1.2-20160903 All: 2016-09-19 23:07:07 Schedule: 2016-09-19 23:07:07 Priority: 2016-09-19 23:05:36 <!> Media: 2016-09-19 17:08:26 Playlog: 2016-09-19 23:06:48

— Settings —

Name: CFET 106.7 FM

Description: Tagish

Parent Player: None ▾

IP Address:

Password: (enter new password to reset)

Media Types: Audio*

Images*

Video*

Line-In

* affects dynamic selections only

Timezone: (GMT-08:00) Pacific Time (US & Canada) ▾

Default Playlist: x The Griz Rocks!

Station IDs: x Angie - CFET & CJHJ Station ID
x Blues at the Junction - CFET BATJ

[account](#)

[media](#)

[playlists](#)

[schedules](#)

[admin](#)

[help](#)

Using the admin menu to access the player manager options:

1. Expand existing Player Settings for a defined **Player**, or create a New Player .
2. Provide a Name and Description for the **Player**.
3. Enter the password that will be required for the **Player** to establish a sync connection to the **Server**.
4. Leave IP blank.
5. Set the media types that will be available for the **Player**. Ensure the **Player** is configured properly to handle the assigned media types.
6. Set the Timezone that will be used for scheduling shows.
7. Drag the **Playlist** created in the previous step (DPL) from the Playlist sidebar tab to the **Default Playlist** drop zone (the area highlighted during the drag operation).
8. Save the Player.

When newly player is created, it will be assigned a unique Device-ID and show up in Schedule

Player

Provision The Player

Access the **Player Dashboard**

(<https://support.openbroadcaster.com/obplayer/#administration>)

Go to Sync Media Tab

'Enable The Scheduler' so the player tries to check managing server

1. Device ID generated in Player Manager
2. Password with the password you enter in server
3. Sync URL

https://<IP_of_Server>/remote.php

For initial testing set Media Sync Mode to Remote

SCREEN SHOT Enable Scheduler

Sync the Player to Server

Status	Summary	Admin	Sync/Media	Sources	Outputs	Streaming	Emergency Alerts	Location Map	HTTP(S) Admin	Live Assist
<div style="display: flex; justify-content: space-between;"> <div style="width: 33%;"> <p>Show</p> <p>Current Time: 19:37:11 Uptime: up 1 week, 7 hours, 10 minutes Show Type: standard Show ID: 337 Show Name: Blast From The Past Show Description: Oldies Last Update: 13:36:58</p> </div> <div style="width: 33%;"> <p>Audio Stream</p> <p>Media Type: audio Order #: 23 Media ID: 22729 Media Artist: Stevie Wonder Media Title: Nothing's Too Good For My Baby Media Duration: 02:40 Scheduled End: 19:39:39</p>  </div> <div style="width: 33%;"> <p>Visual Stream</p> <p>Media Type: Order #: Media ID: Media Artist: Media Title: Media Duration: Scheduled End: </p> </div> </div>										
<p>Logs</p> <p>Log Level: <input style="border: 1px solid #ccc; padding: 2px 10px;" type="button" value="Normal"/> <input style="border: 1px solid #ccc; padding: 2px 10px;" type="button" value="Downloads"/></p> <pre>[Sep 20 2016 02:36:49 UTC] [module] loading module player [Sep 20 2016 02:36:49 UTC] [module] loading module httpadmin [Sep 20 2016 02:36:50 UTC] [module] loading module alerts [Sep 20 2016 02:36:50 UTC] [admin] serving http(s) on port 23233 [Sep 20 2016 02:36:50 UTC] [module] loading module fallback [Sep 20 2016 02:36:50 UTC] [module] loading module linein [Sep 20 2016 02:36:50 UTC] [module] loading module scheduler [Sep 20 2016 02:36:50 UTC] [data] restoring database from file [Sep 20 2016 02:36:50 UTC] [data] done restoring database [Sep 20 2016 02:36:50 UTC] [sync] sending player version to server: 4.1.2-20160903 [Sep 20 2016 02:36:50 UTC] [sync] fetching show data from server [Sep 20 2016 02:36:50 UTC] [module] loading module streamer [Sep 20 2016 02:36:51 UTC] [scheduler] loading show 2355 [Sep 20 2016 02:36:51 UTC] [scheduler] starting at track number 22 [Sep 20 2016 02:36:51 UTC] [player] now playing track 23: Marvin Gaye - Sexual Healing (id: 23182 file: 23182-Marvin_Gaye-Sexual_Healing.ogg) [Sep 20 2016 02:36:51 UTC] [player] resuming track at 232.49239659309387 seconds. [Sep 20 2016 02:36:53 UTC] [alerts] connected to alert broadcaster at streaming1.naad-adna.pelmorex.com:8080 [Sep 20 2016 02:36:54 UTC] [sync] writing data to database [Sep 20 2016 02:36:54 UTC] [data] backup database to disk [Sep 20 2016 02:36:54 UTC] [data] done backing up [Sep 20 2016 02:36:54 UTC] [warning] server did not report a version number [Sep 20 2016 02:36:59 UTC] [player] now playing track 24: Stevie Wonder - Nothing's Too Good For My Baby (id: 22729 file: 22729-Stevie_Wonder-Nothing's_Too_Good_for_My_Baby.ogg) [Sep 20 2016 02:36:59 UTC] [player] resuming track at 0.031098604202270508 seconds.</pre>										

Restart player with Admin>Delete DB and restart Forces schedule and media sync refresh and take you back to main Status page.

Observe sync connection messages. If no Red Errors then player is provisioned and is now run from server. You will see media being downloaded.

Once media is finished downloading, it will begin playing.

You will be able to hear audio coming out of Pulse Audio (used as default)

Advanced

Search Media

Your media is now in the database and can be searched

All searches are based on the parameters you include when you upload your tracks. Please be accurate as possible entering Metadata when uploading tracks.

Under the media tab you will find

- Simple Quick search. Start typing and search results will appear.
- Advanced Apply filters for: Artist, Title, Genre, Comments, Duration (in seconds).

Check out the drop down menus for all the options.

Click the Add button to apply the filter.

To get out of Advanced search click the Simple link.

Too many filters may not give you a result

Schedule a Show

Once the Player is provisioned and playing the DPL, go into Server and schedule a Playlist and Media

1. Open Schedule on the bottom navigation bar on server
2. Locate Playlist from sidebar and drag it into the schedule.
3. Enter the date and times parameters and show is set into the schedule.
4. Save

Media items and schedule information will automatically sync from server to player.

Initial show lock-in time will require at least 20 minutes of lead time before playout of a scheduled or default playlist, thus ensuring all required media are downloaded before a show begins.

For more details, go to **Trouble Shooting (/**troubleshooting**)**

Feedback

Find a bug? Want to request a feature? Submit your issue to **OBServer** (<https://github.com/openbroadcaster/observer/issues/new>) or **OBPlayer** (<https://github.com/openbroadcaster/obplayer/issues/new>)

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127 - LA Cannot Advance up, stuck at Break Point

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16 - LA not switching to Fall Back Media

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Media Player

- Using the Player
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 - Local Audio Streams
- Administration
 - Audio and Video Outputs
 - Audio and Video Sources
 - HTTP(s) Admin
 - Live Assist
 - Location Map
 - Summary Page
 - Sync/Media
- Streaming Media

- **Icecast Streaming**
- **STL (Studio Transmitter Link)**
- **RTP Livewire Multicast Streaming**
- **YouTube Live Channel**
- **CAP Emergency Alert Player**
 - **Heart Beats**
 - **Location Geocodes**
- **CAP Alerts Configuration Page**
 - **Initial Setup**
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 - **POLLY AI Voices**
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 - **Advanced Settings**
- **Injecting CAP Alerts into the broadcast chain**
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- **Test Alerts**
 - **Self Generated Test Alerts**
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 - **Ad Hoc LIVE testing**
- **Indigenous Alerts**
- **Experimental Features**

Using the Player

Player configuration and status monitoring is accomplished using a **Dashboard** interface. The Dashboard is available from any web browser, on default port 23233 of the Localhost IP address. For access to the Dashboard from outside the local area network, contact your network administrator to setup port forwarding on your router.

The **Admin** user can change configuration settings of the Player as required for activation in a broadcast setting as a standalone player. OBPlayer can also be managed by a OBServere reviewed **Quick Start (/quick-start)**.

Be sure to **Save** any changes on each Page, waiting for a green confirmation message then restarting with the **Quit** button to take effect. If audio or video hardware modes are changed, a reboot is recommended.

Dashboard access is for first time setup and advance troubleshooting. Once the Player is setup and configured it is typically entirely command and controlled from a managing OBServer.

Main Status

 **CFET Player Dashboard**

Status	Summary	Admin	Sync/Media	Sources	Outputs	Streaming	Emergency Alerts	Location Map	HTTP(S) Admin	Live Assist
Show Current Time: 14:35:43 Uptime: up 12 weeks, 13 hours, 19 minutes Show Type: standard Show ID: 300 Show Name: Canadian Show Show Description: All Canadian Music Last Update: 02:07:32	Audio Stream Media Type: audio Order #: 10 Media ID: 122125 Media Artist: Kelly Fraser Media Title: Taimanitut Media Duration: 03:42 Scheduled End: 14:38:17	Visual Stream Media Type: Order #: Media ID: Media Artist: Media Title: Media Duration: Scheduled End:	Open Audio Streams...							
Logs Log Level: Normal Downloads <pre>[Jun 16 2020 21:21:37 UTC] [player] now playing track 7: Wolf Parade - Killing Armies (id: 54693 title: 54693-Wolf_Parade-Killing_Armies.mp3 duration: 170.71s type: 'audio' source: [Jun 16 2020 21:21:37 UTC] [player] resuming track at 0.03687429428100586 seconds. [Jun 16 2020 21:22:19 UTC] [sync] fetching show data from server [Jun 16 2020 21:22:21 UTC] [sync] writing data to database [Jun 16 2020 21:22:21 UTC] [data] backup database to disk [Jun 16 2020 21:22:21 UTC] [data] done backing up [Jun 16 2020 21:22:22 UTC] [sync] copying 40554-Gary_Moore-Slip_Messin_Around.ogg from local [Jun 16 2020 21:22:22 UTC] [sync] copying 92435-Blue__yester_Cult-Screams.mp3 from local [Jun 16 2020 21:22:22 UTC] [sync] copying 40506-The_Rolling_Stones-Let_Around.ogg from local [Jun 16 2020 21:24:27 UTC] [player] now playing track 8: Sloan - On The Horizon (id: 56284 title: 56284-Sloan-On_The_Horizon.mp3 duration: 246.622s type: 'audio' source: scheduler) [Jun 16 2020 21:24:27 UTC] [player] resuming track at 0.05781960487365723 seconds. [Jun 16 2020 21:27:28 UTC] [sync] syncing playlog with server [Jun 16 2020 21:28:03 UTC] [sync] fetching priority broadcast data from server [Jun 16 2020 21:28:34 UTC] [player] now playing track 9: Aborigine_Dig_your_Roots_Hip_Hop - The Now (id: 34578 file: 34578-Aborigine_Dig_your_Roots_Hip_Hop_The_Now.ogg duration: 100.00s type: 'audio' source: scheduler) [Jun 16 2020 21:28:34 UTC] [player] resuming track at 0.11051011085510254 seconds. [Jun 16 2020 21:31:58 UTC] [player] now playing track 10: Nicole Edwards And The Joy Seekers - Red Shoes (id: 47640 file: 47640-Nicole_Edwards_And_The_Joy_Seekers-Red_Shoes.mp3 duration: 222.511s type: 'audio' source: scheduler) [Jun 16 2020 21:31:58 UTC] [player] resuming track at 0.05957651138305664 seconds. [Jun 16 2020 21:32:21 UTC] [sync] fetching show data from server [Jun 16 2020 21:32:22 UTC] [sync] writing data to database [Jun 16 2020 21:32:22 UTC] [data] backup database to disk [Jun 16 2020 21:32:22 UTC] [data] done backing up [Jun 16 2020 21:32:27 UTC] [sync] copying 102445-Faces-Last_Orders_Please.ogg from local [Jun 16 2020 21:32:27 UTC] [sync] copying 42305-Youngbloods-Reason_to_Believe.ogg from local [Jun 16 2020 21:32:27 UTC] [sync] copying 48891-Chicago-South_California_Purple.mp3 from local [Jun 16 2020 21:34:34 UTC] [player] now playing track 11: Kelly Fraser - Taimanitut (id: 122125 file: 122125.mp3 duration: 222.511s type: 'audio' source: scheduler) [Jun 16 2020 21:34:34 UTC] [player] resuming track at 0.11199736595153809 seconds.</pre>										

Displays real time information for the current state of the Player. If audio signal is present, a signal level indicator will respond to output from both audio channels. All system operations are displayed on a real time Log displayed on the [Status Page](#).

Log Level

Provides detailed logging by viewing the Debug log. The Debug log displays all CAP alert messages received by the Alert Player, before local filters have been applied. The status log will indicate status of connections to the NAAD server(s); only those alerts matching the SGC filters will actually be played

Log Colours

- Normal system operation Green Text.
- Player and Now playing Green Text.
- Schedule sync Teal
- Downloading Media Orange Text
- CAP XML Alerts received Lime Green Text (Only in Debug mode).
- CAP Alert playout and NAAD connection Magenta Text.
- Warning and advisory Olive Text
- Media DB sync Medium Blue Text
- Admin Modules and System Black Text
- Data Command and Control Dark Grey Text
- Network Error, Authentication failure and broken links Red Text

Downloads

Status Logs Text\CSV

- Daily Playlogs
- Daily Alerts Log

Audio Logs MP3

- On Board Audio Logs
- Off-air Audio Logs
- SDR Audio logs

Local Audio Streams

Mount points generated for Icecast monitoring enabled in the dashboard.

- Main Mount Point
- STL Mount Point
- Off-Air SDR
- Live OverRide

Administration

Advanced Settings

- Show Sync Tab
- Show Streaming Tab
- Show Alerts Tab
- Show Location Tab
- Show LiveAssist Tab
- AWS access key ID:
- AWS secret access key:
- AWS region name:

Experimental Settings

- Show Indigenous Alert settings
- Show Alert Lead-in settings
- Show Station Remote Override settings
- Show SSL settings
- Show SDR streaming/logging settings
- enable News feed override (file drop playback)

To ensure all Experimental features work, please make sure all dependencies are met.

[More info](#)

[Save](#)

Delete data.db and Restart [Restart](#)

Import Settings [Import](#) [Browse...](#) No file selected.

Export Settings [Export](#)

Export Alert log [Export](#)

Reset To Defaults and Restart [Restart](#)

Update Player [Check](#) [Update](#)

Current Version 5.0.0-20190926

Admin Menu is visible to the Admin user only.

Delete DB and Restore deletes the Player DB that contains schedules. Deleting this and restart forces a sync for new media and schedules. This doesn't delete the settings of player.

Export or Import settings to save or restore the configuration, if necessary. To create a backup of the configuration **export** the settings. To restore a configuration, **import** the settings file.

Configuration settings are output in plain text form, **excluding** passwords. This file should be kept in a secure location. Preconfigured installations may be deployed using settings files.

Settings file and passwords Passwords will not be exported or revealed. Restoring the settings file will reset the player dashboard passwords to default (admin) retaining the created user account. Once the player has been restored, simply login with the user and default password and change in the Admin page to your desired password.

Reset to Defaults will restore the default configuration. Current configuration parameters will be overwritten, but may be restored from the backup settings file.

Update Player allows the user to confirm the installed Player version, check for updates to the Player software, and if desired, retrieve and install the updates. Changes will not take effect until the Player is restarted.

Audio and Video Outputs

Audio Output Settings

Audio Output Mode: Pulse Audio

Enable Audio Visualization:

Gstreamer Init Callback:

Enable Audio Logging:

PulseAudio Sinks

python3 ('Free me' by 'Redding, Otis') Mute Built-in Audio Analog Stereo

Video Output Settings

Enable Video Output:

Video Output Mode: Auto Detect

Video Output Resolution: default

Video Overlay Settings

Enable Video Overlay:

LED Sign Settings

Enable LED Sign:

LED Device Filename: /dev/ttyS1

Enable LED Time:

LED Initialize Message:

Save

Audio Output Settings modes available to Select:

- Alsa
- ESound
- JACK
- OSS
- Pulse
- No Audio - good for players in studio that do not want onboard audio coming out of built in speakers

Enable Audio Logging records one hour files available via Admin>Downloads

Video Output Settings Enables Output Mode

- X11
- Xvideo
- OpenGL
- EGL/GLES
- Wayland
- Coloured ASCII - Set this mode on CATV for fundraising drives

- No Output

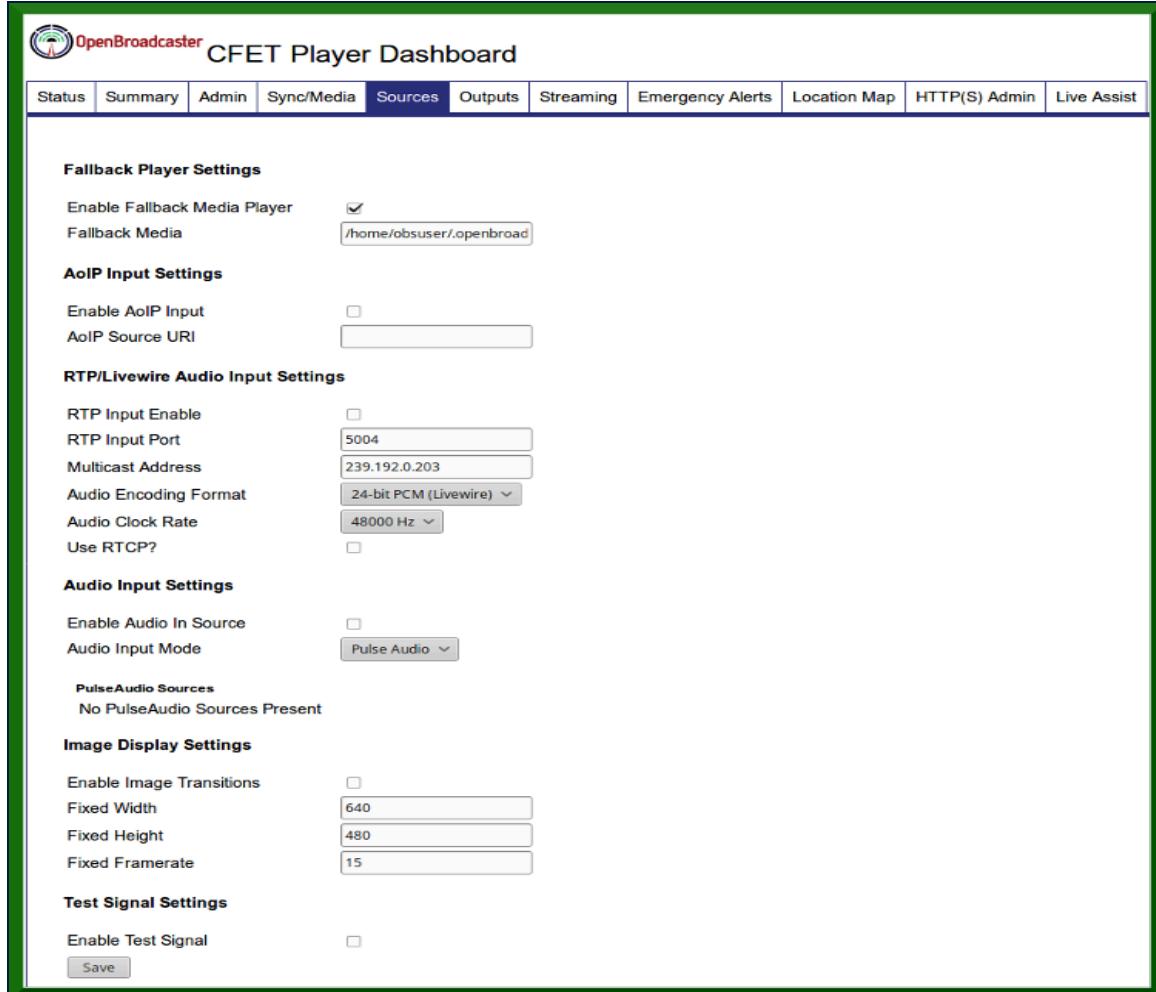
Video Overlay Settings Enables crawl of Alert messages across display

LED Sign Settings Configures serial LED signage

Enable Test Signal Turns on/off the 440Hz test signal

Video output Resolution is automatically detected and displays values when video mode is enabled after restart.

Audio and Video Sources



The screenshot shows the 'CFET Player Dashboard' interface with a green header bar. The main content area is divided into several sections:

- Fallback Player Settings:** Includes a checked checkbox for 'Enable Fallback Media Player' and a text input field for 'Fallback Media' containing the path '/home/obsuser/.openbroad'.
- AoIP Input Settings:** Includes an unchecked checkbox for 'Enable AoIP Input' and a text input field for 'AoIP Source URI'.
- RTP/Livewire Audio Input Settings:** Includes checkboxes for 'RTP Input Enable' and 'Use RTCP?', and dropdowns for 'RTP Input Port' (5004), 'Multicast Address' (239.192.0.203), 'Audio Encoding Format' (24-bit PCM (Livewire)), and 'Audio Clock Rate' (48000 Hz).
- Audio Input Settings:** Includes an unchecked checkbox for 'Enable Audio In Source' and a dropdown for 'Audio Input Mode' set to 'Pulse Audio'.
- PulseAudio Sources:** Displays the message 'No PulseAudio Sources Present'.
- Image Display Settings:** Includes checkboxes for 'Enable Image Transitions' and 'Fixed Framerate', and dropdowns for 'Fixed Width' (640), 'Fixed Height' (480), and 'Fixed Framerate' (15).
- Test Signal Settings:** Includes an unchecked checkbox for 'Enable Test Signal' and a 'Save' button.

Fallback Player Settings Enables and specifies file location of Fall Back Media. Fall back media directory and sub directory items are played at random, but all items will be played before any media items are played a second time. Default is 15 Seconds for image display.

AoIP Input Settings to specify AoIP Source URI

RTP/Livewire Audio Input Settings sets values for: RTP Input, RTP Input Port and Multicast Address

Select Audio Encoding Format: OPUS, 16-bit PCM or 24-bit PCM (Livewire)

Audio Clock Rate 48000 Hz or 41000 Hz

Enable RTCP Real-time Transport Control Protocol

Enable Audio Input Settings External Sources and enables pass-thru and capture of Line-In

Audio Input Mode

- Alsa
- ESound
- JACK
- OSS
- Pulse
- No Input

Disable When Silence Is Detected

Prioritize Above Scheduler When source is detected on Lin In, to play that. .

Silence/Signal Threshold (dB) When to trigger switch over for detecting line in

Time Before Enabling Input and Disabling Input(s) Time Before Enabling\ Disabling Input (s) after it detects silence before it enables\disables the input.

Enable Audio Input Logging Records one hour segments into ./openbroadcaster and accessible via Admin>Downloads

Image Display Settings Slideshow display of image media and overlay

HTTP(s) Admin



CFET Player Dashboard

Status	Summary	Admin	Sync/Media	Sources	Outputs	Streaming	Emergency Alerts	Location Map	HTTP(S) Admin	Live Assist
--------	---------	-------	------------	---------	---------	-----------	------------------	--------------	---------------	-------------

Language: English ▾

Enable SSL:

Dashboard Port: 23233

Admin Username: cfet

Admin Password:

Retype Admin Password:

Read-Only Username: user

Read-Only Password:

Allow Fullscreen/Restart for Read-Only User:

Dashboard Title: CFET Player Dashboard

Set Global language

Change Admin user password

Set up Read only user and password

Allow read only user to access restarting through dashboard

Set Text to display in browser Tab and Bookmarks Shortcut

Live Assist

OpenBroadcaster CFET Player Dashboard

Status	Summary	Admin	Sync/Media	Sources	Outputs	Streaming	Emergency Alerts	Location Map	HTTP(S) Admin	Live Assist
--------	---------	-------	------------	---------	---------	-----------	------------------	--------------	---------------	-------------

Enable Live Assist

Live Assist HTTP Port

Enable Live Assist Microphone

Microphone Output Settings

Microphone Output Mode

Monitor Input Settings

Monitor Input Mode

Enable Live Assist

Set HTTP(s) port (Default = 23456) to enable interactive touch screen interface

Specifying Microphone and Monitor sources

More info on using LIVE Assist **Here** (<https://support.openbroadcaster.com/live-assist>)

Location Map

OpenBroadcaster CFET Player Dashboard

Status Summary Admin Sync/Media Sources Outputs Streaming Emergency Alerts **Location Map** HTTP(S) Admin Live Assist

Enable Map Display

Device Location (use decimal degrees)

Longitude: -134.18537

Latitude: 60.27434

Save

Drag and drop marker to update coordinates.
Drag and drop map to pan.

Establishes geographic coordinates for an installation. Coordinates are reported back to an OpenBroadcaster Server, if Sync is enabled to display players and status on a geo map using the **Geo Mapping (/mapping)** Module.

Summary Page

 **OpenBroadcaster** CFET Player Dashboard

Status Summary Admin Sync/Media Sources Outputs Streaming Emergency Alerts Location Map HTTP(S) Admin Live Assist

Current Configuration

Version	v5.0.0-20180406
Local Time:	Fri Apr 6 16:42:25 2018
Device Coordinates	[-134.18537,60.27434]
Enable Scheduler/Sync	True
Device ID	40
Device Password	(hidden)
Sync URL	https://openbroadcaster.com/remote.php
Sync Amount (buffer)	24 hours
Remote Media Location	/home/obsuser/.openbroadcaster/media
Show Lock-In Time	20 minutes
Media Sync Frequency	5 minutes
Priority Alert Sync Frequency	5 minutes
Playlog Sync Frequency	10 minutes
Media Sync Mode	backup
Backup Downloaded Media	True
Local Media	/mnt/obdrive/obmedia
Enable Fallback Media Player	True
Fallback Media	/home/obsuser/.openbroadcaster/fallback_media
Enable AoIP Input	False
AoIP Source URI	
RTP Input Enable	False
RTP Input Port	5004
Multicast Address	239.192.0.203
Audio Encoding Format	L24
Audio Clock Rate	48000
Use RTCP?	False
Enable Audio In Source	False
Audio Input Mode	pulse
Disable When Silence Is Detected?	False
Prioritize Above Scheduler?	False
Enable Image Transitions	False
Fixed Image Size & Framerate	640 x 480 @ 15fps
Enable Test Signal	False

Displays all current configuration settings and additional info; Current Version\Branch, GPS Coordinates and Local Time .

Sync/Media

CFET Player Dashboard

Status | Summary | Admin | **Sync/Media** | Sources | Outputs | Streaming | Emergency Alerts | Location Map | HTTP(S) Admin | Live Assist

Enable Scheduler/Sync

Device ID: 40

Device Password: *****

Sync URL: [redacted]

Enable Playlog Sync

Media Sync Mode: backup

Backup Downloaded Media

Local Media: /mnt/obdrive/obmedia

Advanced Settings

Sync Amount (buffer): 24

Show Lock-In Time: 20

Media Sync Frequency: 5

Priority Alert Sync Frequency: 5

Playlog Sync Frequency: 10

Enable/Disable Scheduler Enabled

OpenBroadcaster Player is released under [Afferro GPL v3](#). Downloads and updates available at [support.openbroadcaster.com/obplayer-updates](#). Self-help instructions available at [wiki.openbroadcaster.com/obplayer](#).

Sync URL should be in the format `http://server_ip_address/remote.php` or `https://server_ip_address/remote.php`. Device ID and Password should match what was entered in server to provision player. These settings are ignored if Sync/Media settings are disabled such as configured for standalone alerting operation.

Media Sync Mode

- Remote stores media under `./openbroadcaster`
- Backup stores media locally or shared in a specified directory
- Local is used to access media library that is on the same machine as player

Backup Downloaded Media saves and caches a copy so it doesn't get downloaded reducing bandwidth.

Maintenace Mode toggles the scheduled material and puts player into lockdown mode with Fall Back Media to set audio levels.

Disables the scheduler's request queue, so the core player loop will ignore any requests from the scheduler. The next highest priority request generator will take over. If a higher priority request comes in from the alert module, it will play the alert request. The feature will only affect the scheduled content. It's not quite the same as disabling the scheduler module, since it will still sync media and attempt to schedule content, but it will be ignored by the core player as if the scheduler module was disabled.

Streaming Media

The screenshot shows the 'Streaming' tab selected in the CFET Player Dashboard. The configuration is as follows:

- Icecast Streaming:**
 - Enable Icecast Streaming:
 - Icecast Output Mode:
 - Icecast Output Bitrate:
 - Icecast IP: 127.0.0.1
 - Icecast Port: 8000
 - Icecast Mountpoint: CFET
 - Icecast Password:
 - Icecast Stream Name: CFET
 - Icecast Description: CFET Radio
 - Icecast URL:
 - Publicly List Icecast Stream:
 - Play Stream on Startup:
- RTSP Server:**
 - Enable RTSP Server:
 - RTSP Server Port: 8554
 - Audio Output Clock Rate: 48000 Hz
 - Allow RTSP Service Discovery:
- RTP/Livewire Streaming:**
 - Enable RTP Streaming:
 - RTP Output Port: 5004
 - Multicast Address: 239.192.0.201
 - Audio Encoding Format: 24-bit PCM (Livewire)
 - Audio Clock Rate: 48000 Hz
 - Use RTCP?:
- YouTube Streaming:**
 - Enable YouTube Live Streaming:
 - YouTube Streaming Key:
 - YouTube Output Mode: 240p

Save button is at the bottom left.

Icecast Streaming

Main streaming mount point

The screenshot shows the 'Streaming' configuration section of the Obplayer software. It includes settings for 'Icecast Streaming' and 'RTSP Server'.

Icecast Streaming Settings:

- Enable Streaming:
- Audio Input Mode: Intersink
- Enable Icecast Streaming:
- Icecast (One) Output Mode: Audio Only
- Icecast (One) Output Bitrate: Variable
- Icecast (One) IP: 192.168.1.10
- Icecast (One) Port: 8000
- Icecast (One) Mountpoint: CFET
- Icecast (One) Password: (redacted)
- Icecast (One) Stream Name: (redacted)
- Icecast (One) Description: (redacted)
- Icecast (One) URL: (redacted)
- Publicly List Icecast (One) Stream:
- Play Streams on Startup:

RTSP Server Settings:

- Enable RTSP Server:
- RTSP Server Port: 8554

Streaming of player output (audio and video) using Icecast

Audio Input Mode

- Intersink - Bypass processing and sends the source material direct to Icecast server
- Pulse Audio - Use this mode if you wish to fine tune input and output levels
- Alsa
- Jack
- OSS
- No Input

STL (Studio Transmitter Link)

Allows creating a separate feed at a different quality to be sent to a STL. ie Stream 1 sends to outside relay server at 128 KB while the STL Stream 2 sends to transmitter at 320K on internal network.

RTP Livewire Multicast Streaming

RTP/Livewire Streaming

Enable RTP Streaming	<input checked="" type="checkbox"/>
RTP Output Port	5004
Multicast Address	239.192.0.201
Audio Encoding Format	24-bit PCM (Livewire) <input type="button" value="▼"/>
Audio Clock Rate	24-bit PCM (Livewire)
Use RTCP?	16-bit PCM Opus MP3

Send and receive AoIP to RTP devices and AXIA Digital Consoles.

Enable RTP Streaming

Specify the multicast address

Select Encoding Format; 24-bit PCM Livewire, 16-bit PCM, Opus and Mp3

YouTube Live Channel

YouTube Streaming

Enable YouTube Live Streaming



YouTube Streaming Key

YouTube Output Mode



Save

Create LIVE YouTube channel

1. Enable YouTube streaming
2. Enter your secret YouTube key to authenticate
3. Output Mode supports encoding rates 240p - 720p

Restart player and begin streaming!

CAP Emergency Alert Player

Emergency messages issued from NAAD (Pelmorex) may be issued as a string of text, digital audio file and/or with an included graphic image. These will automatically be received and broadcast with our systems. In the event the attached alert is missing or corrupted, relayed from Environment Canada or issued using a text source, your system will play the audio using built in TTS(text-to-speech). For video installations it will also display a scroll along bottom of screen and/or a full screen red slide with descriptive text and accompanying audio alerts.

Alert messages will continue to broadcast at the *Alert Repeat Interval* until the Alert expiry time is reached or when the NAAD sends a command to terminate playing of message. Broadcast Intrusive alert messages are required to play at least once. To limit the number of repeats of an Alert message, it is possible to change this setting.

Please refer to the National Public Alerting System **Common Look and Feel Guidance Ver 2** (<https://www.publicsafety.gc.ca/cnt/mrgnc-mngmnt/mrgnc-prprdnnss/npas/clf-lng-20-en.aspx>) for more detail on specifications and recommended practices relating to public alerts.

Heart Beats

Active Alerts

Last Heartbeat Received: 00:14 min

Alerts Will Play In: 02:38 min

No Active Alerts

Cancel Alerts

Expired Alerts

No Expired Alerts

Pelmorex sends out keep alive heart beats that our player monitors to ensure connectivity to receive alerts. A stable internet connection must be available to receive heart beats and CAP alert messages.

Pro Tip In the Admin menu set Log Level to only show heart beats and alerts.

Location Geocodes

In Canada, a **Standard Geographical Classification**

(https://en.wikipedia.org/wiki/Standard_Geographical_Classification_code_%28Canada%29) uses a numeric code to identify discrete areas, based on census districts. Alerts will be filtered to include only those that match, contain, or are contained by the set Alerting District.

CAP Alerts Configuration Page

CFET Player Dashboard

Status | Summary | Admin | Sync/Media | Sources | Outputs | Streaming | **Emergency Alerts** | Location Map | HTTP(S) Admin | Live Assist

Enable Emergency Alerts

Location Geocode: 6001036

Primary Language: English

Primary Voice (for TTS): mb-en1

Secondary Language: French

Secondary Voice (for TTS): mb-fr1

Alert Repeat Interval (in minutes): 30

Plays Per Alert (0 = no limit): 0

Truncate Long Alert Messages

Play Moderately Severe Alerts

Advanced Settings

Purge Saved Alerts After 90 days

Trigger RS-232 DTR on Alerts

Trigger Icecast Stream on Alerts

Play Test Alerts

Lead-In Delay (in seconds): 1

Lead-Out Delay (in seconds): 1

NAAD Stream #1 URL: http://streaming1.naad-a

NAAD Stream #2 URL: http://streaming2.naad-a

NAAD Archive #1 URL: http://capcp1.naad-adna

NAAD Archive #2 URL: http://capcp2.naad-adna

Save

Alerting System Tests

Test Alerts: Simple Test

Active Alerts

Last Heartbeat Received: 00:31 min
Alerts Will Play In: 23:51 min

No Active Alerts

Expired Alerts

No Expired Alerts

Initial Setup

Emergency alerting dashboard is built into OBPlayer and configured in the dash board **Emergency Alerts**.

For initial setup, disconnect any USB audio device **before** powering up the unit, and use the internal green speaker/headphone jack to monitor audio output for testing. Do not setup and provision unit on air in a production environment until it is understood how it works.

Open the Dashboard to configure and ensure Emergency Alerts are enabled

Set Alerting Locale

A single **SGC Geocode** is required for your alerting locale. In the Location Geocode window, simply enter your region's name and a current list with the SGC code will display. Multiple region SGC geocodes may be used and separated by commas eg: "6001036,6001018" would play alerts for both Tagish AND Haines Junction. Entering "6001" would capture both districts, as well as any others in the immediate locale.

Set TTS (Text to Speech)

Select and configure Primary and Secondary Language options.

1. Onboard TTS - Mediocre quality at best (recommended to change on first setup)
2. ESpeak Mbrola Voices - Not much better quality as above, but an improvement. Select Language i.e. English then associate MB-en1 as primary language voice. Select French and primary voice of MB-fr1

POLLY AI Voices

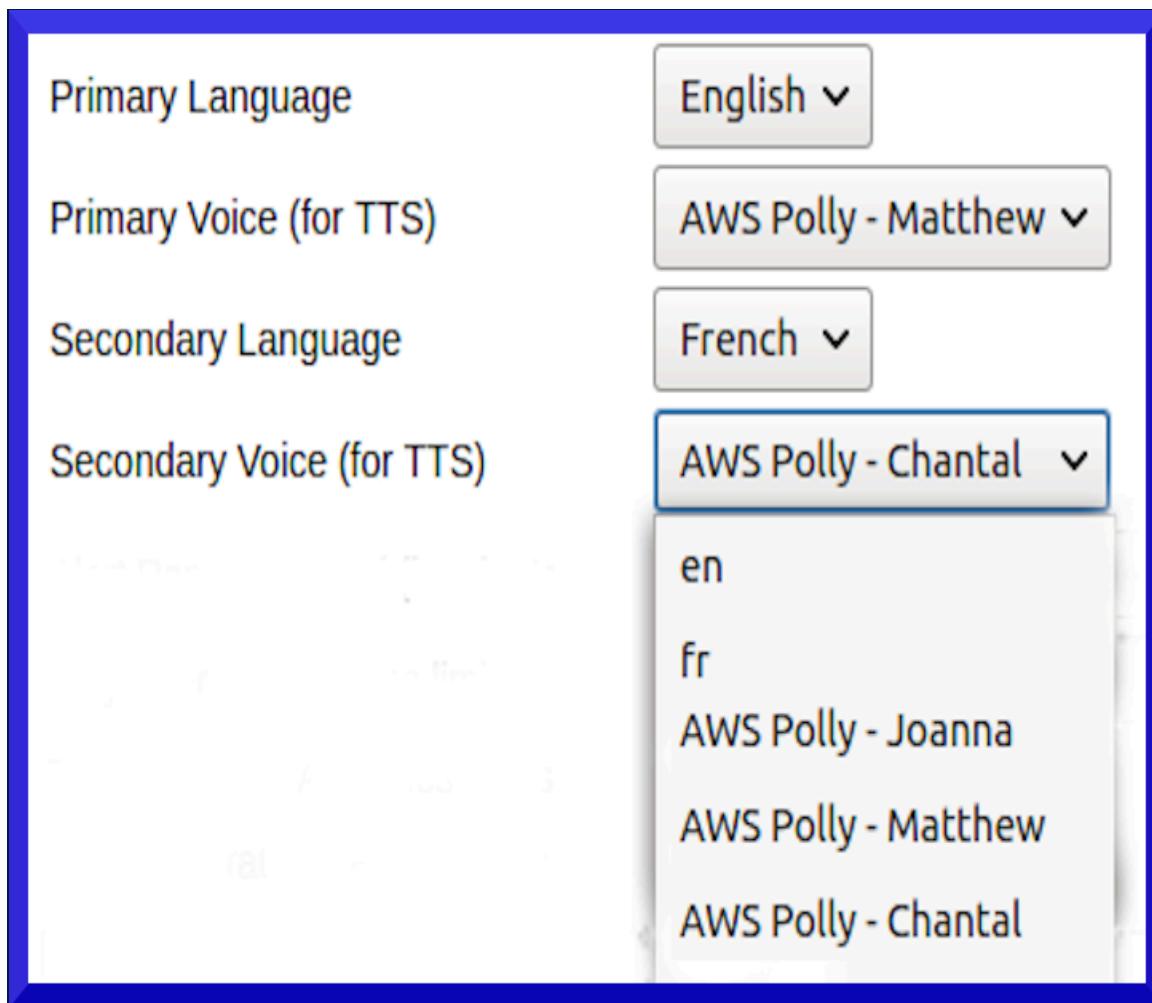
Best possible solution for TTS. Sounds very natural. Configured and enabled, when a valid CAP message is received, the text of this message is sent to AWS and produced as an mp3 file, sent back for airplay.

- 1) Select Enable AWS POLLY enter the API key into the advanced menu in Admin . Restart player.

Advanced Settings

Show Sync Tab	<input checked="" type="checkbox"/>
Show Streaming Tab	<input checked="" type="checkbox"/>
Show Alerts Tab	<input checked="" type="checkbox"/>
Show Location Tab	<input checked="" type="checkbox"/>
Show LiveAssist Tab	<input checked="" type="checkbox"/>
AWS access key ID
AWS secret access key
AWS region name	Oregon 

2) Emergency Tab now displays a selection of bilingual male and female voices to choose from: Joanna, Matthew and Chantal (more to come)



Obtaining AWS Polly Key

You'll need an API key from Amazon Web Services (AWS) using a free plan. If running a large network of POLLY devices, there is a very small fee to use this service, approx 4.00 USD for one million characters for thousands of hours of spoken word.

Register at **AWS POLLY** (<https://aws.amazon.com/>)

Go to Identity and Access Management (IAM)

Create User with Access type = Programmatic access

Attach existing policies directly by scrolling through list and selecting with a check box
AmazonPollyReadOnlyAccess

Add POLLY policy to user

Add user

1 2 3 4 5

Set permissions

Add user to group Copy permissions from existing user Attach existing policies directly

Create policy

Filter policies ▾ Search Showing 647 results

	Policy name ▾	Type	Used as
<input type="checkbox"/>	AmazonMSKReadOnlyAccess	AWS managed	None
<input type="checkbox"/>	AmazonPersonalizeFullAccess	AWS managed	None
<input type="checkbox"/>	AmazonPollyFullAccess	AWS managed	None
<input checked="" type="checkbox"/>	AmazonPollyReadOnlyAccess	AWS managed	Permissions policy (2)
<input type="checkbox"/>	AmazonPrometheusConsoleFullAccess	AWS managed	None
<input type="checkbox"/>	AmazonPrometheusFullAccess	AWS managed	None
<input type="checkbox"/>	AmazonPrometheusQueryAccess	AWS managed	None
<input type="checkbox"/>	AmazonPrometheusRemoteWriteAccess	AWS managed	None

View POLLY service attached to user

User ARN: arn:aws:iam::711856906569:user/cfet

Path: /

Creation time: 2021-02-15 17:41 MST

Permissions (1 policy applied)

Add permissions

Policy name: AmazonPollyReadOnlyAccess

View API Key. It has 3 parts

Export User Key

After creating user and attaching policy you will be able to generate the Key. A single use menu will appear allowing you to copy and paste the keys and/or download link a small csv file with credentials for backup. Download this file and stash securely. If AWS key is lost or cannot remember, simply generate a new one

AWS Region should be set to the data centre closest to player.

Once you enter the key and enable Polly, restarting player will populate the alerting voices with available voices.

Add user

1 2 3 4 5

Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://signin.aws.amazon.com/console>

[Download .csv](#)

	User	Access key ID	Secret access key
<input checked="" type="checkbox"/>	Demo-Site	XXXXXXXXXXXX	XXXXXXXXXXXX

[Hide](#)

Success

- Created user Demo-Site
- Attached policy AmazonPolReadOnlyAccess to user Demo-Site
- Created access key for user Demo-Site

Advanced Settings

Enable Emergency Alerts	<input checked="" type="checkbox"/>
Country to receive alerts for	<input type="text" value="Canada"/>
Enable AWS Polly voices	<input type="checkbox"/>
Location Geocode	<input type="text" value="6001036"/>
Primary Language	<input type="text" value="English"/>
Primary Voice (for TTS)	<input type="text" value="mb-en1"/>
Secondary Language	<input type="text" value="French"/>
Secondary Voice (for TTS)	<input type="text" value="mb-fr1"/>
Alert Repeat Interval (in minutes)	<input type="text" value="30"/>
Plays Per Alert (0 = no limit)	<input type="text" value="0"/>
Truncate Long Alert Messages	<input type="checkbox"/>
Play Moderately Severe Alerts	<input type="checkbox"/>
Advanced Settings	
Purge Saved Alerts After 90 days	<input checked="" type="checkbox"/>
Trigger RS-232 DTR on Alerts	<input type="checkbox"/>
Trigger Icecast Stream on Alerts	<input type="checkbox"/>
Play Test Alerts	<input type="checkbox"/>
Lead-In Delay (in seconds)	<input type="text" value="1"/>
Lead-Out Delay (in seconds)	<input type="text" value="1"/>
NAAD Stream #1 URL	<input type="text" value="http://streaming1.naad-adna"/>
NAAD Stream #2 URL	<input type="text" value="http://streaming2.naad-adna"/>
NAAD Archive #1 URL	<input type="text" value="http://capcp1.naad-adna.peli"/>
NAAD Archive #2 URL	<input type="text" value="http://capcp2.naad-adna.peli"/>
Total Broadcast Intrusive Alerts	<input type="text" value="0"/>
Total Advisory Alerts	<input type="text" value="0"/>
Total Self Generated Test Alerts	<input type="text" value="1"/>
<input type="button" value="Save"/>	

Adjust the Alert Repeat Interval time between repeated plays of queued alert messages. Setting this value to 0 will cause an alert message to play until the Expiry time stated within that message has passed

Use the Play Moderately Severe Alerts setting to enable optional, non-broadcast intrusive alert messages, if desired. Provides a setting to Truncate Long Alert Messages to shorten long alert messages to include only the first section To play the entire CAP alert, including the entire lengthy description, disable the Truncate Long Alert Messages setting .

Provides an override to Play Moderately Severe Alerts that do not have a Broadcast Immediate status

Trigger Icecast Stream on Alerts creates an on demand mountpoint

Lead in/out times used with a streaming service to allow entire message to not get cut off while buffering

Play Test Alerts These are not scheduled test of the alert systems, but internal system test not normally heard by public (Default = Off) Note: These alerts are not related to scheduled tests from Pelmorex.

Purge Saved Alerts after 90 days will free up your disk space, even more of a concern now with the large multimedia attachments being sent along with the CAP message.

GPIO Trigger to issue a DTR serial signal upon commencement of CAP-CP Alerts. When an alert cycle starts, the serial port will be opened and the DTR control signal (positive pin voltage) will be transmitted. After the alert cycle has completed, the DTR signal will drop (negative pin voltage).

Lead-in and Lead-out delay timings may be adjusted to prevent 'clipping' of messages.

Trigger Icecast Alerts is used to generate an on demand Icecast mountpoint.

Logging of Alerts shows the count of played alerts; broadcast intrusive, moderate advisories and self generated tests. This can also be downloaded from the Admin main menu.

Injecting CAP Alerts into the broadcast chain

Every station is setup different with several ways to inject audio and visual alerts into the broadcast chain. CAP alerts are received and authenticated by the standalone alert player and put into the broadcast chain each with their own merits, listed below in no particular order.

Audio

When an alert is received, audio is sent out for your systems to receive in several ways. Generally there is no audio present unless a message is being issued; either a valid CAP message, Pelmorex test message or when a internal test alert is issued.

- Onboard analog stereo 1/8" mini output using Realtek ALC888S codec. Audio present only when a valid CAP message is being broadcast.
- GPIO trigger reverses DTR voltage on pin 4 using RS232 DB9 when CAP message is played to switch an **External relay** ([/accessories#mechanical-rs232-switching-relay](#)).
- Using **BARIX exstreamer** ([/obplayer#cap-alerts-with-barix-exstreamer](#)) at transmitter to listen to a priority port of incoming stream of CAP message
- Configuring ICECAST server to detect new mount point of on demand stream
- Silence Detection using external third party hardware used to sense audio coming out of the Alert Player and mechanically switch a relay on your board.
- Windows playout machine may use free Silence Detection software from **Pira CZ Silence Detector** (<https://pira.cz/>) to switch broadcast audio source when CAP message is played.

- Integrating to AXIA Digital AOIP Consoles to sense an on demand Livewire stream of CAP message in conjunction with the Qor's GPIO to switch channels on the console while EAS is in progress and switch back.

CAP Alerts with Barix Exstreamer

OBPlayer creates an on demand IceCast mount point when an alert is present with a Barix Exstreamer receiver at transmitter to play CAP alerts. Stations normally will be supplying audio to Exstreamer at transmitter. Barix will be configured to detect and automatically switch to the generated alert mount point the new mount point stream, cut over and play alert, switch back to normal programming when alert stops.

Prerequisites

In order to make the priority streaming work, so that OBPlayer only outputs the alerts and nothing else; disable the scheduler, fallback player, audio in, and the test signal.

Configure OBPlayer

Streaming Page Create a mount point on local machine's IceCast server. Exstreamer will switch to the generated alert mount point and switch back when it stops. There is a minor delay in the switching with Barix Exstreamer. Set the lead-in delay to 1 second and the lead-out delay to 5 seconds to catch the whole alert cycle without having too much delay before and after.

Barix Configuration Set the first URL as priority for the alert stream. Second URL is set to the normal stream coming from the studio.

When a CAP message matches your region, a mount point will be temporarily created, overriding your studio. When the alert is finished playing, normal programming from your studio will resume.

GPIO Audio Relay

If using the GPIO switching Relay, connect a serial cable from the Player to the Switching Relay. On the Emergency Alerts tab, under Advanced Settings, enable the RS-232 DTR Alert signal.

Visual

Applicable for; over the air TV, Cable TV and digital signage applications. Normal visual content will be displayed. When there is a valid CAP alert, a red scrolling overlay will display the text of message with accompanying audio of the alert. Graphis sent as attachments will display full screen if present.

- Onboard local video with (HDMI\DP\DSUB) where an overlay will be displayed when a valid CAP message is being broadcast.
- GPIO trigger on pin 4 (high) using RS232 DB9 when CAP message is played to switch CATV channel on digital cable head end.

- Configuring ICECAST server to detect new mount point of on demand stream of CAP Alert

Test Alerts

We offer several ways to test and set levels.

Self Generated Test Alerts

To confirm that Alert messages are working correctly, select one of the four sample valid CAP messages:

1. Simple Test. Generates an internal CAP formated message and plays using TTS
2. Embedded Audio Test. Generates an internal CAP message and plays a supplied MP3 file instead of TTS.
3. External Audio Test. Generates an internal CAP alert message, fetches and plays a test MP3 file from Pelmorex.
4. Embedded Audio and Image Test. Generates an internal CAP test the displays a JPG image and plays audio recording.
5. Click `Inject` to add the message to the Active Alerts queue; a 20 second countdown begins. If another incoming message is received, the countdown timer is rest at 20 seconds. Once the countdown reaches 0 secs, queued messages will play through the active audio output and can be observed in real time on the player's main `Status Page` displaying the current state of the Player with live display of system events.

Pro Tip Try different text-to-speech voices when testing alerts, before placing on air.

Scheduled Testing

In Canada, national tests are done every 6 months. Contact **Alert Ready** (<https://www.alertready.ca/>) for more info on scheduled testing.

The screenshot shows the OpenBroadcaster CFET Player Dashboard. On the left, there are sections for 'Advanced Settings' (with a circled 'Total Broadcast Intrusive Alerts' set to 1), 'Alerting System Tests' (with a circled 'Total Self Generated Test Alerts' set to 1), and 'Active Alerts' (showing 'No Active Alerts'). On the right, a detailed alert message window is open for '8C3455C2-9CFF-8ECE-BD92-105F1257F2D4'. The message details are as follows:

- Identifier:** 8C3455C2-9CFF-8ECE-BD92-105F1257F2D4
- Sender:** YukonEmergencyMeasuresOrganization
- Sent:** 2020-11-25T13:55:49-07:00
- Codes:** profile:CAP-CP:0.4
- layer:SOREM:1.0**
- Status:** actual
- Message Type:** alert
- Scope:** public
- Language:** indigenous
- Event:** test message
- Urgency:** Immediate (circled)
- Severity:** Information
- Certainty:** Observed
- Expires:** 2020-11-25T14:15:00-07:00
- Sender Name:** Yukon Emergency Measures Organization
- Headline:** Test - this is a scheduled test of the Yukon Emergency Alerting System
- Description:** This is a TEST of the Yukon Emergency Alerting System, issued by Yukon EMO. If this had been an actual emergency, you would hear instructions that would assist you to protect you and your family. Visit www.yukon.ca and stay tuned to local media. This is ONLY a TEST.
- Instruction:** (none)
- Parameters:** layer:SOREM:1.0:Broadcast_Immediate: Yes
- layer:SOREM:1.0:Broadcast_Text:** This is a TEST of the Yukon Emergency Alerting System, issued by Yukon EMO. If this had been an actual emergency, you would hear instructions that would assist you to protect you and your family. Visit www.yukon.ca and stay tuned to local media. This is ONLY a TEST.
- layer:SOREM:2.0:WirelessText:** This is a TEST of the Yukon Emergency Alerting System, issued by Yukon EMO. If this had been an actual emergency, you would hear instructions that would assist you to protect you and your family. Visit www.yukon.ca and stay tuned to local media. This is ONLY a TEST.
- Event Codes:** profile:CAP-CP:Event:0.4: testMessage
- Attached Resources:**

Ad Hoc LIVE testing

It is possible to monitor and receive real alerts by entering high level SGC geocodes for provinces (Atlantic Canada=1; Quebec=2; Ontario=3; Prairies=4; British Columbia=5; Northern Canada=6) and test with moderate advisories.

Enable the Play Moderately Severe Alerts setting to receive and play additional warning messages.

Set your levels, testing and be sure to reset the Location Geocode back for your specific alerting locale before proceeding to **Production Operation**.

Pro Tip `Admin` Menu has a button to export a text log of all Broadcast Intrusive messages ever played on your alert player

Indigenous Alerts

Experimental Features

Advanced Settings	
Show Sync Tab	<input checked="" type="checkbox"/>
Show Streaming Tab	<input checked="" type="checkbox"/>
Show Alerts Tab	<input checked="" type="checkbox"/>
Show Location Tab	<input checked="" type="checkbox"/>
Show LiveAssist Tab	<input checked="" type="checkbox"/>
AWS access key ID	<input type="text"/>
AWS secret access key	<input type="text"/>
AWS region name	Oregon <input type="button" value="▼"/>
Experimental Settings	
Show Indigenous Alert settings	<input type="checkbox"/>
Show Alert Lead-in settings	<input type="checkbox"/>
Show Station Remote Override settings	<input type="checkbox"/>
Show SSL settings	<input type="checkbox"/>
Show SDR streaming/logging settings	<input type="checkbox"/>
enable News feed override (file drop playback)	<input type="checkbox"/>
<p>To ensure all Experimental features work, please make sure all dependencies are met.</p> <p>More info</p>	
<input type="button" value="Save"/>	

Use these at your own risk for experimenting with new features that are not recommended for production environments. Enable the feature from Admin advanced menu and restart player.

More info about experimental features is found [Here](#)

(<https://support.openbroadcaster.com/experimental>)

Feedback

Find a bug? Want to request a feature? Submit your issue to **OBServer** (<https://github.com/openbroadcaster/observer/issues/new>) or **OBPlayer** (<https://github.com/openbroadcaster/obplayer/issues/new>)

Have some Gstreamer, PHP or Python coding skills? Help **Contribute** (<https://github.com/openbroadcaster/.github/blob/main/docs/CONTRIBUTING.md>) and **Sponsor** (<https://github.com/sponsors/openbroadcaster>) to make the OpenBroadcaster community even better

We really appreciate your feedback!

OBServer Advisories

No OBServer Security Issues

OBPlayer Advisories

No OBPlayer Security Issues

Open Server Bugs

124 - Double clicking media item, show details or editing PL, loses the work in progress.

Open Player Bugs

147 - Live Assist playlist can cause dead air when no host intervenes

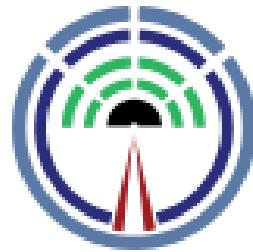
127 - LA Cannot Advance up, stuck at Break Point

126 - LA Missing > indicator after pressing Hot Button

16 - LA not switching to Fall Back Media

Made by Openbroadcaster.

With ❤ from Friends of Cake

[OpenBroadcaster \(https://support.openbroadcaster.com\)](https://support.openbroadcaster.com)

OpenBroadcaster



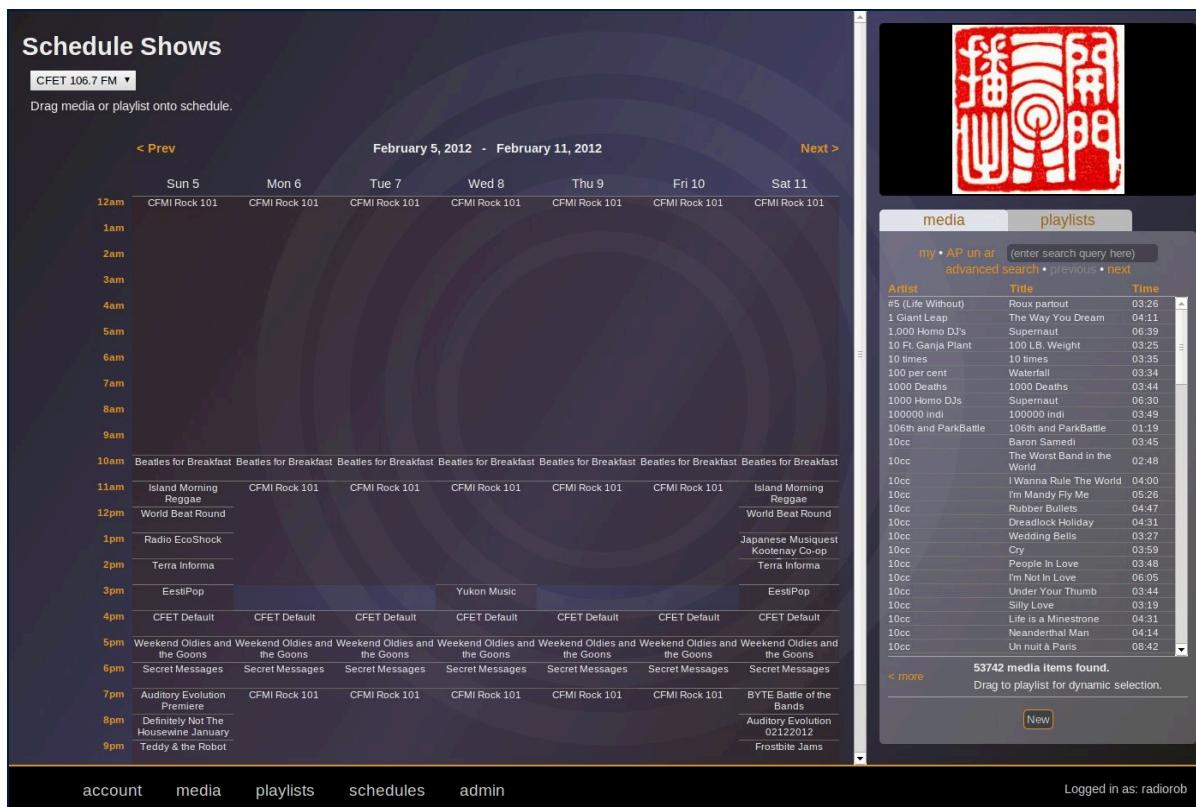
Media and Management Server

- Getting Around
 - Profile and Account
 - Language
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 - Media Formats
 - Metadata
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 - **Cloning Playout Devices as Parent and Child**
- **Logging and Monitoring**
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- **Client Settings**

Getting Around

The main screen comprises three areas: a center ‘work’ area, media sidebar, and a menu panel.



The screenshot shows the OpenBroadcaster software interface. The main area displays a 'Schedule Shows' grid for the week from February 5 to February 11, 2012. The grid shows various radio stations and programs listed by hour. To the right of the schedule is a 'media' sidebar. The sidebar features a large red square icon with a stylized logo. Below the icon are tabs for 'media' and 'playlists'. A search bar contains the text 'my AP un ar'. Below the search bar is a list of media items with columns for 'Artist', 'Title', and 'Time'. The list includes numerous tracks from artists like '1 Giant Leap', '1000 Homo DJs', and '10 Ft. Ganja Plant'. At the bottom of the sidebar, it says '53742 media items found.' and 'Drag to playlist for dynamic selection.'

The **centre work area** is the main window workspace. This is where users can create play lists, add and edit media, schedule shows, update system settings, install modules and manage users. In the example above, a *Schedule* is loaded into the main window workspace.

To the right of the center 'work' area is the **sidebar**, comprising two tabs, **Media** and **Playlists**, as well as a **Preview** window. Users can toggle between tabs and perform dynamic searches to filter a list of items based on a metadata query. One or more items from the list may be selected. Actions triggered by clicking on buttons below the list operate on selected items. Additional functions are available by right clicking on items in the list. To preview items (any supported media including audio, image or video), simply drag and drop any media into the **Preview** window above the sidebar tabs. At the bottom of the sidebar, the number of items in the (filtered) list is shown.

Along the bottom of the screen is the **menu panel**. Depending on user permissions some menus will remain hidden.

Profile and Account

Account Settings

Edit the following account settings as needed. Only enter a password if you wish to change your password.

— Account

Username: radiorob

Name:

Display Name:

New Password:

New Password (again):

Email:

— User Interface

Search Results Per Load:

Language:

Theme:

Dyslexia-Friendly Font:

Sidebar Display:

Save

Login to the [OpenBroadcaster Server] application as the `admin` user (default password is 'admin')

Here you are able to custom tailor your session. Using the `account` menu to access the `admin` account settings. Some of the things you can change on a per user basis.

1. Change your display name
2. Update password
3. Set Email
4. Set the number of search results to display in media sidebar
5. Select a Theme
6. Enable Dyslexic Font making it easier to read and comprehend for some users
7. Sidebar Display to appear from Left or Right

Language

User menus, form fields and system messages are displayed in English by default. Available language options are displayed in a dropdown menu. These settings are **not** system-wide. Each user may choose their own language settings. Select the desired language of menus, help and tool tips.

Save and refresh browser.

Accessibility Themes

Background/foreground color and font options are designed to enhance accessibility of the interface using bright/dark contrast settings or using dyslexia friendly fonts. These settings are **not** system-wide. Each user may choose their own theme and font settings.

Select desired Themes ranging from high contrast, light\dark backgrounds. Tanzanite is the Default theme.

Save and refresh refresh your browser to take effect.

Media

OpenBroadcaster allows media of different types (audio, video, images) to be managed within a single catalogue or media library. Using radio buttons admins can select which formats the system will accept and recognize. If media is tried to be uploaded that isn't supported, then it will not be allowed to be added to the library. Files are screened a number of ways for authenticity including MD5 checksum. Renaming a text file to *.mp3 will not be accepted.

The **MY** button when selected filters to only show media created and uploaded by user.

Media Formats

Compatible media codecs and containers are listed below:

Format	Description	File extension
Audio Formats		
FLAC	Free lossless audio codec	.flac
MP3	MPEG-1 Layer-3 Audio ☀	.mp3
MP4	MPEG-4 Audio ☀	.mp4
Ogg Vorbis	Ogg Container Format	.ogg
WAV	Waveform Audio	.wav
Video Formats		
AVI	Audio Video Interleave, Container Format	.avi
MOV	Apple Quicktime ☀	.mov
MPEG	Moving Picture Experts Group ☀	.mpg

Format	Description	File extension
Ogg Video	Ogg Container Format	.ogv
WMV	Windows Media Video ☀	.wmv

Image Formats

JPEG	Joint Photographic Experts Group	.jpg
PNG	Portable Network Graphics	.png
SVG	Scalable Vector Graphics	.svg

☀ Non-Free Proprietary - Licence Required

The System Administrator may choose to restrict uploads to a subset of the compatible formats.



Global default media fields and behaviour.

Media Field Settings

Artist: Required Enabled Disabled

Album: Required Enabled Disabled

Year: Required Enabled Disabled

Category/Genre: Required Enabled Disabled

Country: Required Enabled Disabled

Language: Required Enabled Disabled

Comments: Required Enabled Disabled

Dynamic Selections: Yes (Default) No (Default) Hidden

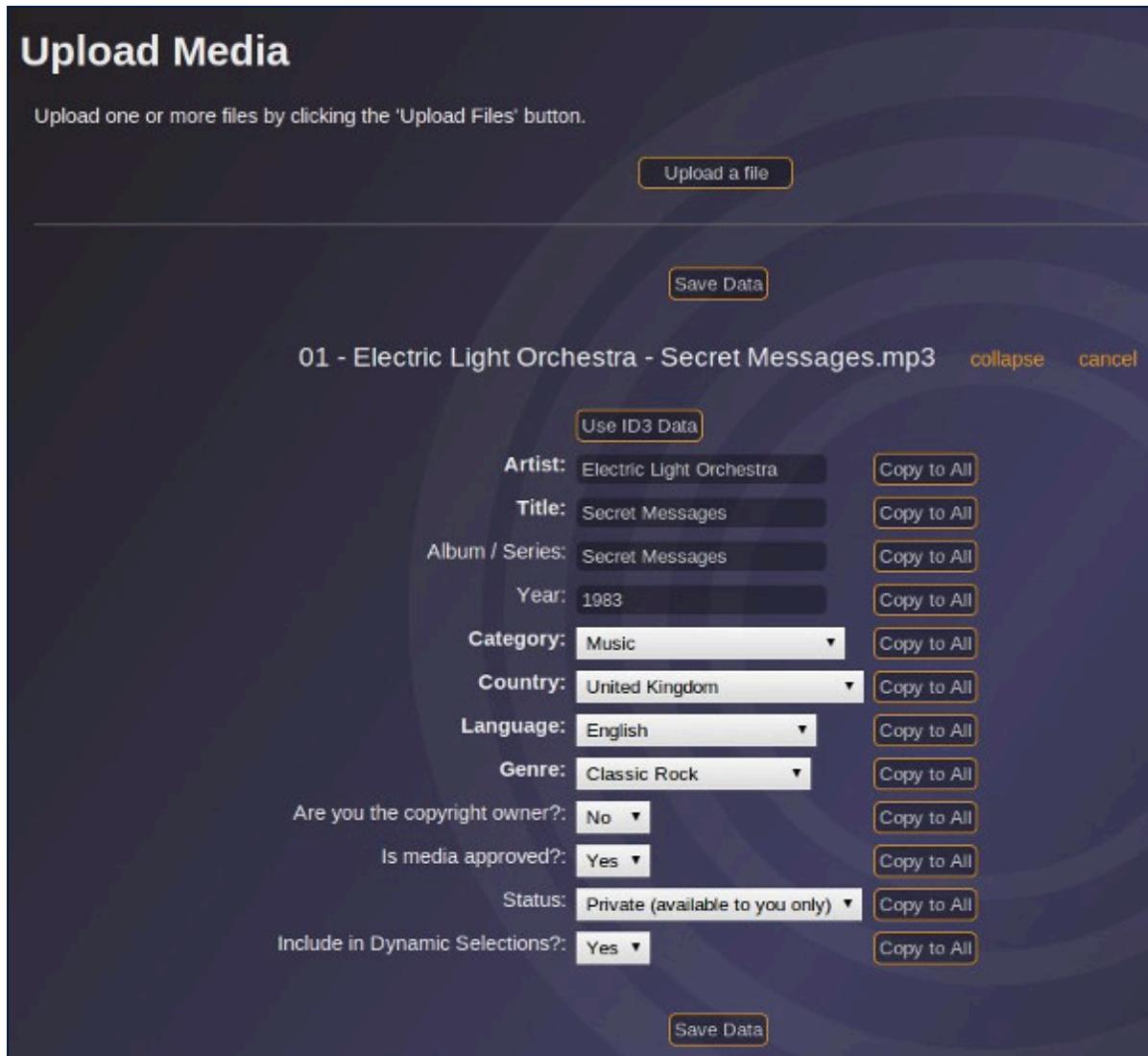
Save

Complete list of Codecs and Containers

Audio

Video

Metadata



Upload one or more files by clicking the 'Upload Files' button.

Upload a file

Save Data

01 - Electric Light Orchestra - Secret Messages.mp3 collapse cancel

Use ID3 Data

Artist: Electric Light Orchestra

Title: Secret Messages

Album / Series: Secret Messages

Year: 1983

Category: Music

Country: United Kingdom

Language: English

Genre: Classic Rock

Are you the copyright owner?: No

Is media approved?: Yes

Status: Private (available to you only)

Include in Dynamic Selections?: Yes

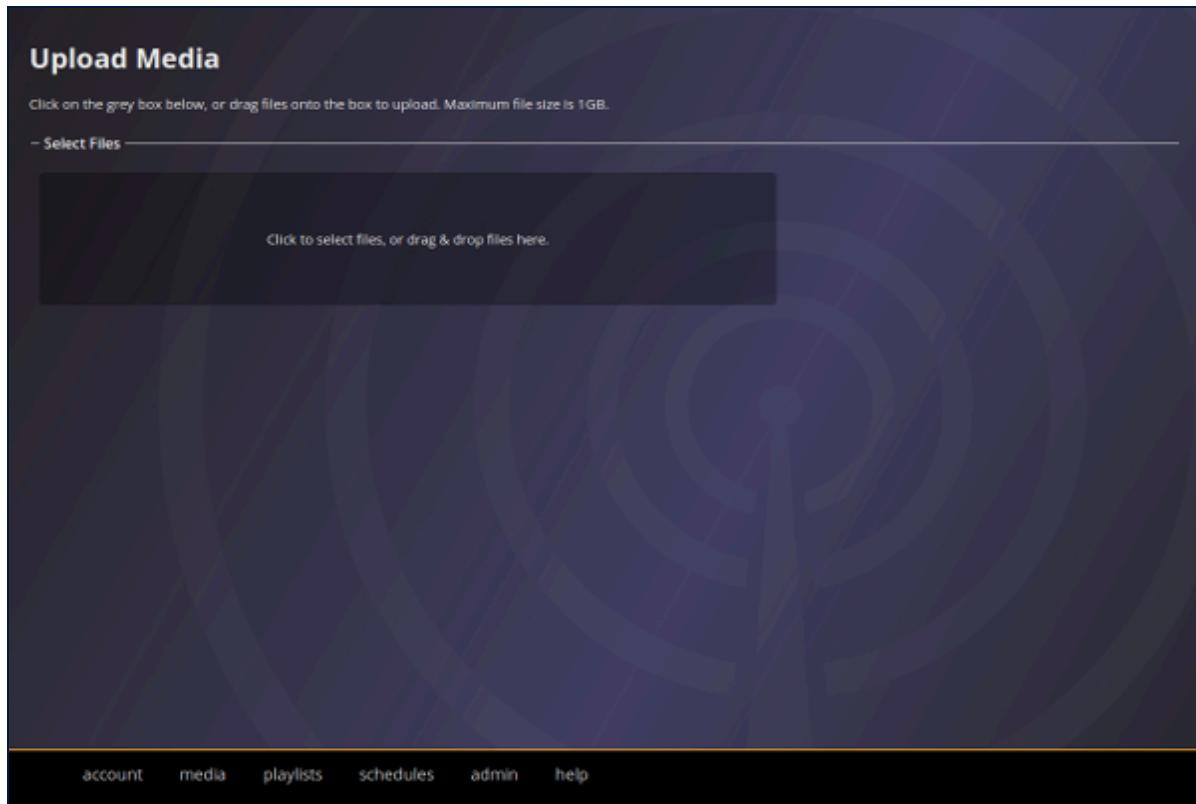
Save Data

If available, ID3 data are automatically entered into the upload form, otherwise, enter the **Artist**, **Title**, along with other known metadata for each file. For metadata common to all items, the **Copy to All** button may be used to facilitate data entry. Use the **Category** item to facilitate use of Station ID or Priority Broadcasts messages in **Playlists**.

Depending on permissions, user may or may not be able to set the *is media approved* flag. If not then the media will remain in an 'awaiting approval' queue until the Moderator approves it for inclusion in the music library. A *Status* of 'Public' will allow others to include the selection in their own Playlists. Private media will not be available for other users to browse. *Dynamic Selection* should be enabled for media such as music and station IDs, so that these items are accessible as Dynamic Playlist selections.

Once metadata have been entered, Save the items in the queue to add them the library. Incompatible file formats are flagged, and will not be processed in the upload queue.

Uploading



New Media may be added to the library using the media uploader, accessed from the **media** menu.

Drag and drop one or more media files to the uploader, or click within the shaded box to open a file selection window. Each file is uploaded in sequence, and added to a queue. Progress of the current upload is displayed alongside the filename.

Pro Tip Max Limit set to 1GB _(may be increased)

Edit and Update

Select media from sidebar. Either click `Edit` or right click `Edit` Media info may be edited.

Bulk Edit

Batch Processing

1. Selecting multiple Media items (CTRL + Click, Click + Shift) and Click
2. Click `Edit` from media sidebar. Opens all selected media.
3. Use `Copy All` icon beside the field you wish to copy to all.

Media Settings

Categories and Genres

Media Categories & Genres

Click on a category name to show the genres within that category.

[Add a Category](#) [Add a Genre](#)

- Change Me	Edit
- Images	Edit
- Music	Edit
Acoustic	Acoustic
Adult Contemporary	Easy listening
Alternative	Alternative
Alternative Country	Alternative Country
Alternative Folk	Energetic folk with an edge
Alternative Rock	Alternative Rock
Ambient	Ambient and Soft Electronic
Asian-Pop	Asian Pop
Bluegrass	American roots music
Blues	Blues Music
Buddha Bar	Buddha-Bar
Canadien Francais	Canadien Francais
Celtic	Celtic and Irish

Edit Genre

Name:

Description:

Category:

[Save](#) [Delete](#) [Cancel](#)

Create and edit unlimited categories and associated genres of media. e.g. Audio-Inuktitut, Images-Unicorns, Video-28mmPathe

Each category and genre can be specified as default

View Details

Media Details

Download
Edit
Delete
Versions

— Details —

ID: 123945
 Artist: Radio Ecoshock
 Title: The Third Rail: Radical Climate Change During It All June 10, 2020
 Album:
 Year: 2020
 Category: Shows - Complete
 Country: Canada
 Language: English
 Genre: Complete Shows
 Comments:
 Uploader: Bill Polonsky
 Created: 2020-06-14 10:39:53
 Last Updated: 2020-06-14 10:39:53
 Copyright: No
 Approval: Approved
 Status: Public
 Dynamic Selections: Yes

— Where is this media used? —

- Playlist: [What on Earth is Going on?](#)
- *dynamic playlist: [Metallica](#)
- *dynamic playlist: [The Dollar Bin](#)
- *dynamic playlist: [CFET\CJHJ DPL](#)

* Indicates possible dynamic selection.

From the Media Sidebar , hightlight, right click (double click) and select Details to find out where the PL is used, who created it and when it was last modified.

Displays info This is where the

- Who uploaded and when
- Media ID can be found including usage of media
- Where it is being used

View Versions

Update media by adding a new version.



Language and Country

Use drop down menus to select applicable Language and Country

Media Field Settings

Media Field Settings

Artist: Required Enabled Disabled

Album: Required Enabled Disabled

Year: Required Enabled Disabled

Category/Genre: Required Enabled Disabled

Country: Required Enabled Disabled

Language: Required Enabled Disabled

Comments: Required Enabled Disabled

Dynamic Selections: Yes (Default) No (Default) Hidden

Save

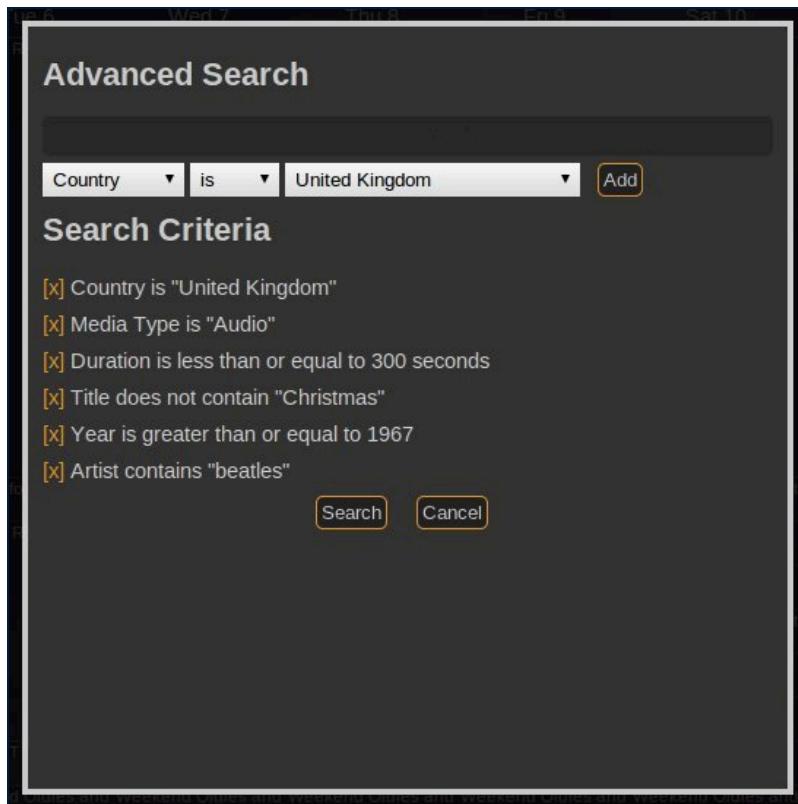
Default Settings and mandatory fields can be applied globally

Search

Sidebar tabs used to search the media library or Playlist catalogue. Items are filtered to displayed only items to which the current user has permission, those which are marked as approved(ap), or further restricted to include only those media owned(my) by that user. With additional privileges, searches may also be conducted on archived(ar) or unapproved(un) media. Deleted media items go into a special directory called Archive. Authorized users are able to go into this archive, purge delete the actual media from the file system, or restore the media back to the library. The active filter is indicated by the use of uppercase notation (e.g. AP).

Simple search mode, users enter terms (i.e. a word or phrase) in the query window, application returns all media with title or artist containing those terms, or PlayLists with matching name/description. Click simple to clear or clear test and press enter

Advanced Searches

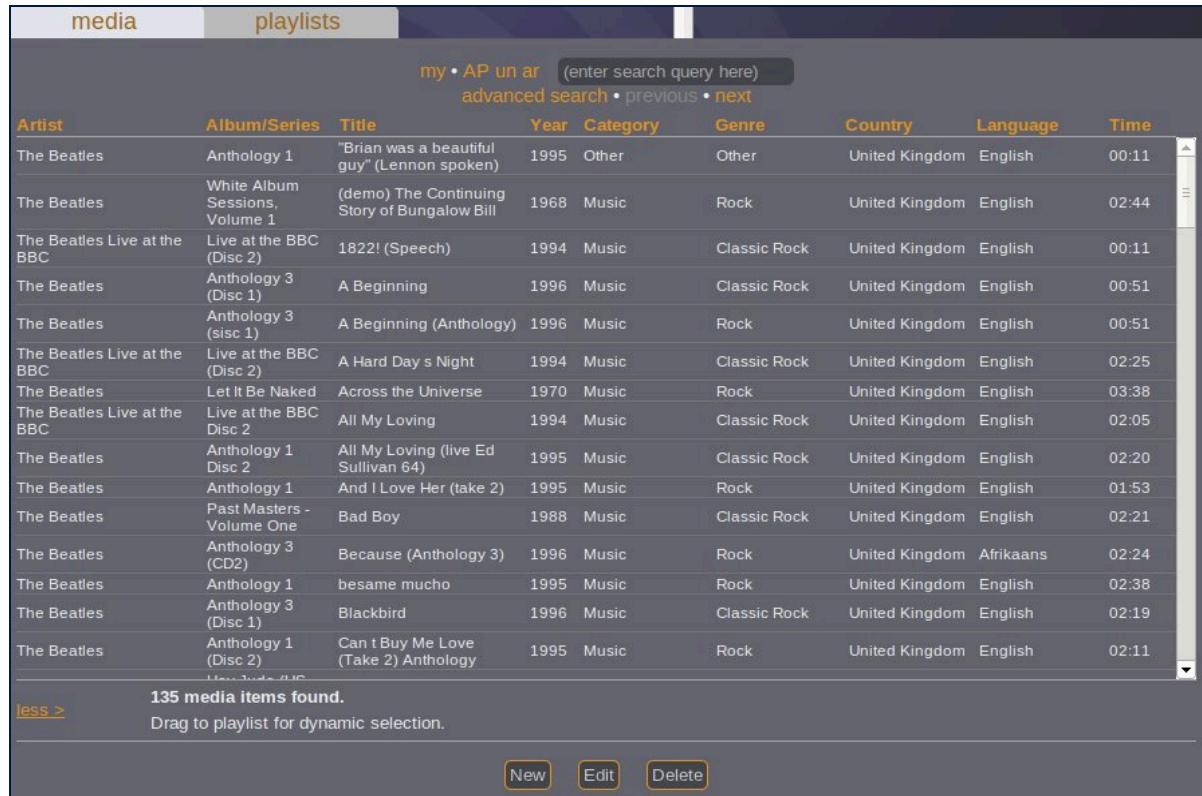


The screenshot shows the 'Advanced Search' interface. At the top, there is a dropdown menu set to 'Country' with an 'Add' button. Below it, a search bar contains the text 'United Kingdom'. The main area is titled 'Search Criteria' and lists several search terms with checkboxes:

- [x] Country is "United Kingdom"
- [x] Media Type is "Audio"
- [x] Duration is less than or equal to 300 seconds
- [x] Title does not contain "Christmas"
- [x] Year is greater than or equal to 1967
- [x] Artist contains "beatles"

 At the bottom are 'Search' and 'Cancel' buttons.

Advanced search mode, users combine search criteria to query and filter large libraries. Query fields and search terms may be specified and added to a list of search criteria.



The screenshot shows the 'media' library interface. At the top, there are tabs for 'media' and 'playlists'. Below the tabs is a search bar with the placeholder '(enter search query here)' and a dropdown menu showing 'my • AP un ar'. Below the search bar are buttons for 'advanced search', 'previous', and 'next'. The main area is a table with the following columns: Artist, Album/Series, Title, Year, Category, Genre, Country, Language, and Time. The table lists 135 items, mostly by The Beatles, including various albums, singles, and tracks. At the bottom of the table, it says '135 media items found.' and 'Drag to playlist for dynamic selection.' Below the table are buttons for 'New', 'Edit', and 'Delete'.

Once a search is conducted, items matching all listed criteria will be returned and the number of results is displayed at the bottom of the search tab. Further sorting or returns can be done by clicking on the headers of columns on the list to display in “Ascending\Descending” order. To clear the search results, clear the search window and press enter. Use the previous and next buttons to display the next page of results. The number of results to display per page may be set in the user profile settings. Select and reload previous search results using my searches.

Saved Searches

The screenshot shows the 'Edit Media' page on the left and the 'Media Player' interface on the right. The 'Edit Media' page has a sidebar for 'Saved Searches' with a context menu open over the 'Artist contains "Electric"' item. The 'Media Player' interface shows a list of media items with columns for 'Artist', 'Title', and 'Time'.

Media Player List:

Artist	Title	Time
Electric Light Orchestra	Shine A Little Love Unreleased version	0:00
Electric Light Orchestra	Shangri La Extended main recording mix	0:58
Electric Light Orchestra	Wish You Were Here	4:01
Electric Light Orchestra	Secret Messages	0:00
Electric Light Orchestra	Dialogue	11:35
Electric Light Orchestra	The Bioneer Years track 2002	23:14
Electric Light Orchestra	When Time Stood Still bonus track 2002	2:00
Electric Light Orchestra	Julie Don't Lose Your Bonus track 2002	2:43

Search history results are recalled and used edited again for personalized results.

Default Search View

May be saved and one can be set as default. When a default search is set, results will be displayed when logging into your profile.

Pro Tip Remembers the last search result queries to be modified or save

Playlists

A **Playlist** groups selections from the media library for scheduled or recurring broadcast and may contain individual media selections or combinations of media may be combined in PlayLists.

Buttons along bottom Add Dynamic Selection and Station ID add functionality.

The **MY** button when selected filters to only show Play Lists created and managed by user.

Types of PlayLists

Standard Playlist



The screenshot shows a 'Standard Playlist' interface. At the top, a header reads '– Playlist Items –'. Below this is a descriptive text: 'Drag media and playlists to the area below. Double-click items to set properties. Click to select, then delete/backspace to remove, up/down keys to move. You can also click-drag to reorder.' A list of tracks follows, each with a duration in parentheses:

Robert Vallee - Killing Time	05:18
Robert Vallee - Thanatos	04:34
Robert Vallee - The Lord Is Watching	04:50
Robert Vallee - Dionysus	05:02
Robert Vallee - Levitation	05:22
Robert Vallee - Apollo	05:35
Robert Vallee - Soul Gravity	05:35
Robert Vallee - The Core	04:44
Robert Vallee - Sequence Activated	05:37
Robert Vallee - Motion and Madness	05:43

At the bottom of the list, 'Total Duration: 52:20' is displayed. Below the list are four buttons: 'Add Dynamic Selection' (gray), 'Add Station ID' (gray), 'Clear' (yellow), and 'Save' (green).

A basic Playlist that you can add media , dynamic segments and station IDs Playlist(s) may be searched, saved and edited later.

Advanced Playlist

The screenshot shows the 'Observer' interface for 'OpenBroadcaster'. At the top, there are four input fields: 'Name' (Example #2), 'Description' (Advanced Playlist Example), 'Status' (Public (available to everyone)), and 'Type' (Advanced). Below these is a section titled 'Playlist Items' with a note: 'Drag media to the area below. Double-click items to set properties. Click to select item, then delete/backspace to remove, up/down keys to move.' A 'Zoom In' and 'Zoom Out' button are available. The main area displays a timeline from 00:00 to 05:00. On the left, a large blue box represents a media item titled 'Robert Vallee - Dionysus'. To its right is a list of 24 audio tracks, each with a small red thumbnail. At the bottom are 'Clear' and 'Save' buttons.

Time	Media Item	Tracks
00:00	Robert Vallee - Dionysus	Robert Vallee - Vallee10
00:30		Robert Vallee - Vallee02
01:00		Robert Vallee - Vallee05
01:30		Robert Vallee - Vallee15
02:00		Robert Vallee - Vallee03
02:30		Robert Vallee - Vallee14
03:00		Robert Vallee - Vallee15
03:30		Robert Vallee - Vallee16
04:00		Robert Vallee - Vallee17
04:30		Robert Vallee - Vallee18
05:00		Robert Vallee - Vallee19
		Robert Vallee - Vallee20
		Robert Vallee - Vallee21
		Robert Vallee - Vallee22
		Robert Vallee - Vallee23
		OpenBroadcaster - Logo

Mixes Image slide show with accompanying Audio. Cuts into Video section. Audio and image data may be played simultaneously. Image media will be added to the list on the right of the Playlist items, audio tracks on the left. zoom in/zoom out on the schedule of Playlist items to increase the resolution of the time scale. To create an Advanced Playlist containing Dynamic Selections , first create a **Standard** Playlist containing Dynamic Selections, then add that Playlist to the Advanced Playlist.

LIVE Assist Playlist

Edit Playlist

Edit the following playlist as required.

Playlist Data

Name: Robs LA Playlist
 Description: LA Playlist
 Status: Private (available to you only)
 Type: LiveAssist

Playlist Items

Drag media and playlists to the area below. Double-click items to set properties. Click to select, then delete/backspace to remove, up/down keys to move. You can also click-drag to reorder.

Station ID

Kraftwerk - Metal Abzug Metal (A Mash Mix) 02:21

Kraftwerk - Tour De France (La Grande Boucle Mix) 04:12

Kraftwerk - Expo 2000 (Virus 13 Mix) 07:14

Breakpoint

Kraftwerk - Radioactivity (Half-Life Mix) 07:26

Kraftwerk - Pocket Calculator (Black Sand Mix) 06:09

Station ID

Breakpoint

Kraftwerk - The Hall Of Mirrors (Black Sand 7" Edit) 04:05

Kraftwerk/Kraftwerk - Home Computer (Disc Error Remix) 04:59

Breakpoint

Kraftwerk - Aero Dynamik (The Portal Mix) 07:07

Breakpoint

Total Duration: *44:02 (estimated due to variable length content)

Add Dynamic Selection Add Station ID Add Breakpoint Clear Save

LiveAssist Buttons

Drag playlists to this area to program the LiveAssist button area. Each playlist will be a column of buttons, with one button per playlist item.

LA SFX - SFX Buttons
 Movie Bits - Movie Bits
 Halloween - Halloween

Clear Save

account media playlists schedules admin help

Used with LA Touch screen interface and hot button Player. Special Playlist that contains break points and button player. Accepts incoming live RTP Streams

Runs on a touch screen computer for LIVE Radio operation accepting incoming audio streams.

See **LIVE Assist QuickStart (/live-assist)**

Create Playlist

Using the `playlist->new playlist` menu option:

1. Provide a Name and Description for the Playlist so it can be easily identified.
2. Give your Playlist a Status of **public** so other users can use your Playlist in their PlayLists and schedules (private PlayLists are only available to their owners).
3. Drag items from the media sidebar search results for media to the drop zone in the **centre work area**
4. Click Save

Edit Playlist

To Edit, Select Playlist and click **Edit** or right click, **Edit**

Dynamic Segment

Description: ELO Forever, mix of SFX, CFET and...

Status: Public (available to everyone)

Type: Standard

- Playlist Items -

Drag media and playlists to the area below. Double-click items to set properties then delete/backspace to remove, up/down keys to move. You can also click on

Station ID

Electric Light Orchestra - Secret Messages BACKWARDS

Dynamic Selection: CONET

Dynamic Selection: kate bush

Station ID

John Lennon - Son of Beatles ELO comment

Dynamic Selection: Moody Blues

Dynamic Selection: The Move

Station ID

Dynamic Selection: Electric Light Orchestra

Dynamic Selection:

- Dynamic Item Properties -

Selection Name: Electric Light Orchestra

Number of items: 3

Image Duration: 15 (in seconds)

Save Cancel

- Description -

The dynamic selection is based on your last media search.

Type: Advanced Search

Query: + Artist contains 'Electric Light Orchestra'

Total Duration: 0:29:18 (estimated due to variable length content)

Add Dynamic Selection Add Station ID Clear Save

Media Player

media playlists programs

my AP user (advanced mode)

advanced simple my searches

Artist	Title	Time
Electric Light Orchestra	Show & Listen Love	0:00:00
Electric Light Orchestra	Unreleased extended version	0:00:00
Electric Light Orchestra	Shangra La Crandell	0:00:00
Electric Light Orchestra	main title mix	0:00:00
Electric Light Orchestra	Wild West Hero	0:00:00
Electric Light Orchestra	Secret Messages	0:00:00
Electric Light Orchestra	Dialogue	0:00:00
Electric Light Orchestra	The Power (bonus track 1981)	0:00:00
Electric Light Orchestra	When Times Blew	0:00:00
Electric Light Orchestra	big bonus track 1981	0:00:00
Electric Light Orchestra	you Don't Live Here (bonus track 1981)	0:00:00

previous next

254 media items found

New

Plays a specified number of media as a segment. Once a dynamic section is setup, additional media items added later that match the search filters will automatically be included as items to play.

1. Use a search to generate dynamic selections for a specified time segment. eg. Filter media on the right to show **The Beatles**
2. Edit or create new Playlist.
3. At bottom of PL, click Add Dynamic Segments
4. Set number of Dynamic Selections to be drawn from the last search of the media library.

In image below we have set 3 items to play out of a search results of 254 items. Automatically estimates the time of this segment.

Station ID Button adds a special segment that automatically inserts Station IDs assigned to the specific player. This will play a Station ID into the Play List when it plays in a different station. EG CFET Station IDs will play on CFET and the same Play List will play CJHJ Station IDs when it plays on CJHJ. Split Feed programming.

Default Play List (DPL)

This Playlist is assigned to the Player to fill in when there is nothing scheduled.

View Details

Playlist Details

— Items —

Description	Duration
Station ID	00:15 (estimated)
Dynamic Selection: HJ Community Event	00:00 (estimated)
Dynamic Selection: Reagge	21:52 (estimated)
Station ID	00:15 (estimated)
Dynamic Selection: Reagge	18:13 (estimated)
Station ID	00:15 (estimated)
Dynamic Selection: Reagge	21:52 (estimated)
Total Duration:	1:02:43 (estimated)

— Details —

ID: 80
Name: Island Morning Reggae
Description: Reggae and Island
Owner: radiorob
Created: 2010-01-01 01:04:43
Last Updated: 2016-09-06 10:33:32
Status: Public

— Where is this playlist used? —

- recurring schedule for player: CFET 106.7 FM

From the Playlist sidebar, right click and select Details to find out where the PL is used, who created it and when it was last modified.

Schedules

The image shows two side-by-side screenshots of the OpenBroadcaster software interface. The left screenshot displays a 'Schedule Shows' grid for the week of March 4-10, 2012. The grid shows various program blocks with titles like 'CPFM Rock 301', 'Beaches for Breakfast', and 'Island Morning Reggae'. The right screenshot shows a 'media' search interface with a list of songs by 'St. El' Machine, including 'Yours Truly', 'I Should've Known', and 'Photographs'. The search bar at the top contains the query 'St. El'.

Server schedule grid portrays a week of programming, with shaded, titled blocks indicating the content spanning those dedicated timeslots. Hover the cursor over a program block to view a summary of the scheduled show. Double-clicking a block accesses Show editor, if the current user's permissions allow this.

Media and Shows

Schedule a single piece of media or a Playlist (Show) or External Line IN Audio source.

Duration is automatically calculated for individual media tracks and estimated for dynamic segments .

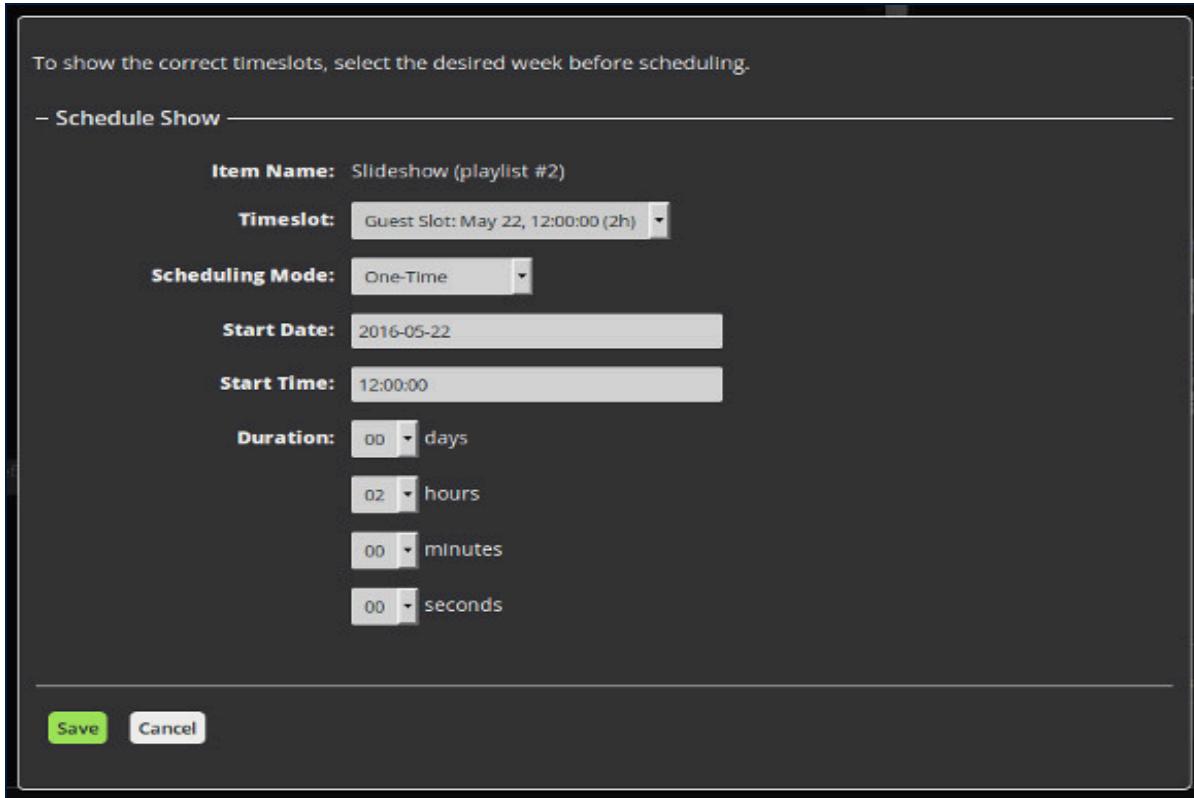
DPL (Default Play List) assigned to that Player automatically starts to avoid dead air filling gaps with dynamic music segments. eg. 60 minute slot containing 50 minutes of programming, DPL will fill to top of the hour for next Time slot.

Flexible methods to schedule media and shows listed in ease of task.

1. Create and assign a DPL to player
2. Upload media. Drag to schedule and set to play in a time slot.
3. Select uploaded media and drag into an existing scheduled Playlist.

Note _CAP Emergency Alerts automatically override all schedules, currently playing media and internal Priority Announcements._

The date/time of timeslots available for scheduling by any user are based on group permissions associated with that user's profile. Permissions are managed by the `Administrator` group, although this may be delegated to another group. Only one Player may be scheduled at a time, although a Player may act as `Parent` to one or more players for scheduling. See **Advanced Scheduling**.



Open the schedule grid using the `schedules->schedule shows` menu option:

1. Select the Player you have permission to schedule for.
2. Move the schedule grid to the desired week, using `<Prev` and `Next>` navigation aids.
3. Display the Playlist Tab in the sidebar.
4. Drag a Playlist from the sidebar onto the schedule.
5. Select from the available timeslots. Start time/date and duration are fixed to the time slot.
6. **Save** .

If the new show conflicts with any scheduled show, an error will be displayed and the new show will not be saved. Review the schedule. Look for an open time slot, advancing to the following week(s) if necessary.

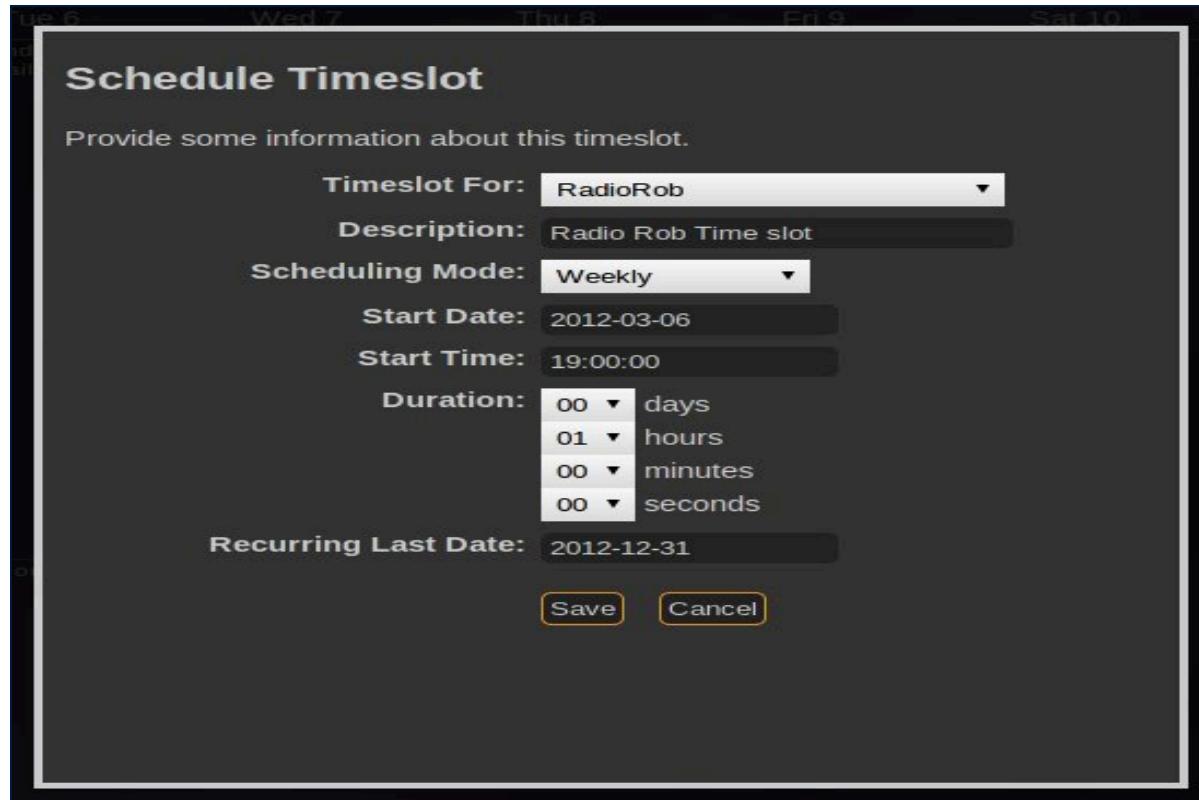
Shows must be scheduled with adequate lead-time in order to be synchronized with a Player for broadcast. Allow at least **30 minutes lead time** to ensure scheduled media can be uploaded to the Player before show time. Sufficient lead time is required to account for `Show Lockout Time` on the destination Player.

Scheduling Permissions

User with advance permissions can drag Media, Playlist or a Program and override basic users time-slots. If a slot is already scheduled, advanced user can remove or edit spots they are trying to program.

Advance users can have access to many options including, start and stop of time and date, duration. Scheduling Mode is available with options for daily, weekly, monthly as well as every x, day, week month

User Time Slots



The screenshot shows a 'Schedule Timeslot' dialog box. At the top, there is a header with days of the week: Tue 6, Wed 7, Thu 8, Fri 9, Sat 10. The main title is 'Schedule Timeslot'. Below the title, a sub-instruction says 'Provide some information about this timeslot.' The form fields are as follows:

- Timeslot For:** RadioRob
- Description:** Radio Rob Time slot
- Scheduling Mode:** Weekly
- Start Date:** 2012-03-06
- Start Time:** 19:00:00
- Duration:** 00 days, 01 hours, 00 minutes, 00 seconds
- Recurring Last Date:** 2012-12-31

At the bottom are 'Save' and 'Cancel' buttons.

Create Time Slots and Assign Users

1. Double click on screen and a menu will pop up
2. Select user to assign from the drop down menu. This will display a list of all registered and active users.
3. Select the event mode; Single, Daily, Weekly, Monthly or every x, day, week or month
4. Select the start day (default is current date) and the time(s) when user can program a content time slot
5. Set duration. In this example the time-slot is one hour and it can be any duration. Time Slot cannot conflict with an existing time-slot.

In the event that a user is assigned a time-slot that is not utilized or does not contain any media or Play list containing media the DPL (Default Play List) assigned to that Player will automatically start to avoid dead air

Priority Announcements

The screenshot shows the OBPlayer Dashboard with the following components:

- Priority Broadcast:** A modal window titled "Priority Broadcast" is open. It displays the media item "YG-EMO - ShakeOut Drill Broadcast English" and its details:
 - Name: ShakeOut Drill
 - Play Every: 7300 seconds
 - Start Date: 2016-10-20
 - Start Time: 10:00:00
 - Stop Date: 2016-10-20
 - Stop Time: 18:00:00
 There are "Save" and "Cancel" buttons at the bottom.
- Media Player:** A separate window titled "Media Player" shows a list of media items:

Artist	Title	Time
YG-EMO	ShakeOut Drill Broadcast English	00:58

 The search bar shows "yg-emo". Buttons for "New", "Edit", and "Delete" are at the bottom.
- Navigation:** At the bottom left are links for "account", "media", "playlists", "schedules", "admin", and "help". At the bottom right is the text "Logged in as: radiorob".

Priority Announcements will start with minimal delay as specified in OBPlayer Dashboard how often to sync for priority messages. Priority Announcement function to play every N seconds. Set start and stop dates. Use sparingly. Only 1 Priority Announcement may run simultaneous per player. Selecting the default time of 00:00:00 for 3PM will start the broadcast immediately. In order to access this feature the user must have the required permissions and time must be authorized for the media to arrive at the Player in order to play.

1. Begin by selecting the Player where the Priority Announcement is to be scheduled. Drag and drop a single media from the media window. A menu will pop up asking for information.
2. Give the Priority Announcement a name.
3. Enter in the frequency of the broadcast in seconds

eg 600 sec = 5 minutes.

1. Enter in start/stop times and date range with pop up calendar
2. Click Save

Scheduling Line In

When enabled in Player Manager a Line-In button appears in top right of scheduler. Drag Schedule Line-In onto schedule. What ever is plugged into the Line-in of local machine running OBPlayer will be passed through. Example source is a satellite audio receiver.

CAP Emergency messaging will over ride this source, play the announcement and resume normal programming.

User Management

New User Sign up

New Account

Fill out the following form to create a new account. A random password will be emailed to you.

Name:

Username:

Email:

[Return to login window.](#)

Running version 4.1.1-20160502.
Browser support Firefox 36+, Chrome 41+, Safari 7+, IE 11+.

OpenBroadcaster is released under Afferro GPL v3 and may be downloaded at [openbroadcaster.com](#). View [license](#).

Users may create an account from a link on the Welcome page. This may also be disable if you do not want public to sign up for new accounts in User Admin .

Only one registration is allowed at any given email address. Users are notified of a new, random password by email, upon registration or when a password reminder is requested. Once a user has registered, a notice is sent to the **Administrator** . Until a user is assigned to a group, they are limited to read only browse/preview of the media library.

The admin user has access to all media, playlists and schedules. As new users are added, they are assigned to a group with the appropriate set of permissions. For example, a guest user may browse, but not add/edit/delete items in the media library.

Admin can disable new user sign up.

User List

User Management				
Display Name	Email	Created	Last Access	Groups
Admin	admin@example.com		2016-05-27 12:35:00	Administrator Edit
Bob	TheMan@example.com	2016-05-27 12:35:00		Managers, Producers Edit
guest	guest@example.com	2016-02-24 17:01:06	2016-05-27 10:10:05	Guest Edit

The user management menu provides a list of user accounts, indicating group membership and most recent access. Sort by name, last login and creation date.

— User —

Name: Producer

Username: TheMan

Display Name: Bob

Email: TheMan@example.com

Password: *

Password (confirm): *

Status:

Groups: Administrator
 Managers
 Producers
 Guest

* Enter password only if you wish to change the password.

[Save](#) [Delete](#) [Cancel](#)

Add or Edit User account settings.

1. Change Display\User Name
2. Specify email address for reset and notifications
3. Assign user to permissions group(s)
4. Enable\Disable User Status

Permissions

User Management

[Add a User](#)

Display Name	Email	Created	Last Access
radiorob	radiorob@	2016-11-17 23:37:31	
API_USER	APIU	2015-07-09 23:24:11	2016-11-17 23:00:28
Bill Polonsky	polonsk		2016-11-17 19:47:26
onetonmetal	blaker		2016-11-16 19:29:01
Volunteer Yukon	info@		2016-11-15 11:14:25
ColinS	colin	2015-12-10 14:45:58	2016-11-14 20:27:36
Dieter Gade	gade	2012-11-10 13:45:26	2016-11-13 13:32:55
ChangeTruth	carchri	2016-06-10 13:12:13	2016-11-13 11:32:25
justdance	stephen	2016-09-08 14:38:26	2016-11-11 19:10:42
Ha-leeena	helena	2015-09-22 18:41:29	2016-11-11 16:02:53

- User -

Name:

Username:

Display Name:

Email:

Password:

Password (confirm):

Status:

Groups:

- Administrator
- Basic Volunteer
- Manager

* Enter password only if you wish to change the password.

[Save](#) [Delete](#) [Cancel](#)

The permission menu accesses a grid for fine-grained control over access to media, Playlist and scheduling functions, on a Player by Player basis. Users in the **Administrator** group may assign or revoke permissions to other user groups. Additional groups may be created for granting users' permission to upload and/or download media, schedule PlayLists, or view playlogs. For example, approval for media and allocation of time slots could be delegated to a group that grants permissions on only one Player device, and has no other administrative privileges. **Advanced Admin** functions establish hooks for remote Player connections.

Create Group

Group Name: Managers

administration

- manage media settings:
- manage players:
- manage groups and permissions:
- view player playlogs:
- create, edit, and delete users:
- manage client/interface settings:
- install and uninstall modules:

player: CJUC 92.5 FM

- view map:
- edit map defaults:

player: CFET 106.7 FM

- view map:
- edit map defaults:

player: CJHJ 99.9 FM

- view map:
- edit map defaults:

account media playlists schedules

1. Name of new group
2. Select Tasks and Resources this group should have access.
3. Save

Player Management

Players can be a physical playout device or virtual process located on the same hardware as the player or located in another location.

New Player

1. Begin by giving the Player a unique name, This name will be displayed when, scheduling, emergency broadcasts and generating reports.
2. Give a description of the Player.
3. Enter in the stream URL
4. Enter a password that matched with the one that was entered when setting up the Player.
See below
5. Using the radio buttons select the types of media that the Player will be supporting
6. Set time zone where the Player is located. This is also required for the creating of Play logs which are all done in GMT

7. From the Play List window, drag and drop the DPL (Default Play List) that will be associated with this Player. If the Player cannot locate a schedule of media to be played, it will play the DPL in a loop to avoid dead air.
8. Drag and drop station ID that you wish to associate with this Player.
9. Save Player

Note Leave *IP address* field empty

The Player ID is automatically generated and the assigned password will be needed when configuring the remote OBPlayer playout device. See **Player Sync Settings** (<https://support.openbroadcaster.com/obplayer/#syncmedia>)

Connection Messages

Connection Messages for Players connect back to the server at predetermined times as set in the Player dashboard. The “last Connect” info is continuously being updated and a graphic icon of a green check mark indicates that all connections are current and the device is in operation and communicating properly. Displays to right of newly created player showing times when last connected. Top line shows status of Priority, Media and Playlog sync last connections time to server. “!” icon if there is no heartbeat.

Displays the Version of connected player, GPS Coordinates and Last known external IP

Pro Tip Connection info is also displayed with Station Icon status using Mapping Module

Cloning Playout Devices as Parent and Child

Player Manager

ID	Name	Description	Status
40	CFET		Version: 5.0.0-26199926 Last IP: 207.189.247.225
29	CFET Clone		
42	CJCC		
41	CJHJ		
1	CJUC	92.5 FM "The Juice" Whitehorse	Version: 5.0.0-26199926 Last IP: 207.189.244.40 Alt: 2020-06-16 13:10:20 Scheduler: 2020-06-16 13:07:29 Priority: 2020-06-16 13:07:58 Media: 2020-06-16 13:03:12 Playlog: 2020-06-16 13:10:13

Player Settings

CFET Clone

Description: Live Assist Player for CFET Clone

Parent Device: CFET

Use parent schedule
 Use parent dynamic selections
 Use parent station IDs
 Use parent default playlist
 Use parent priority broadcasts

IP Address:

Password:

Media Types: Line-In
* affects dynamic selections only

Timezone: (GMT-08:00) Pacific Time (US & Canada)

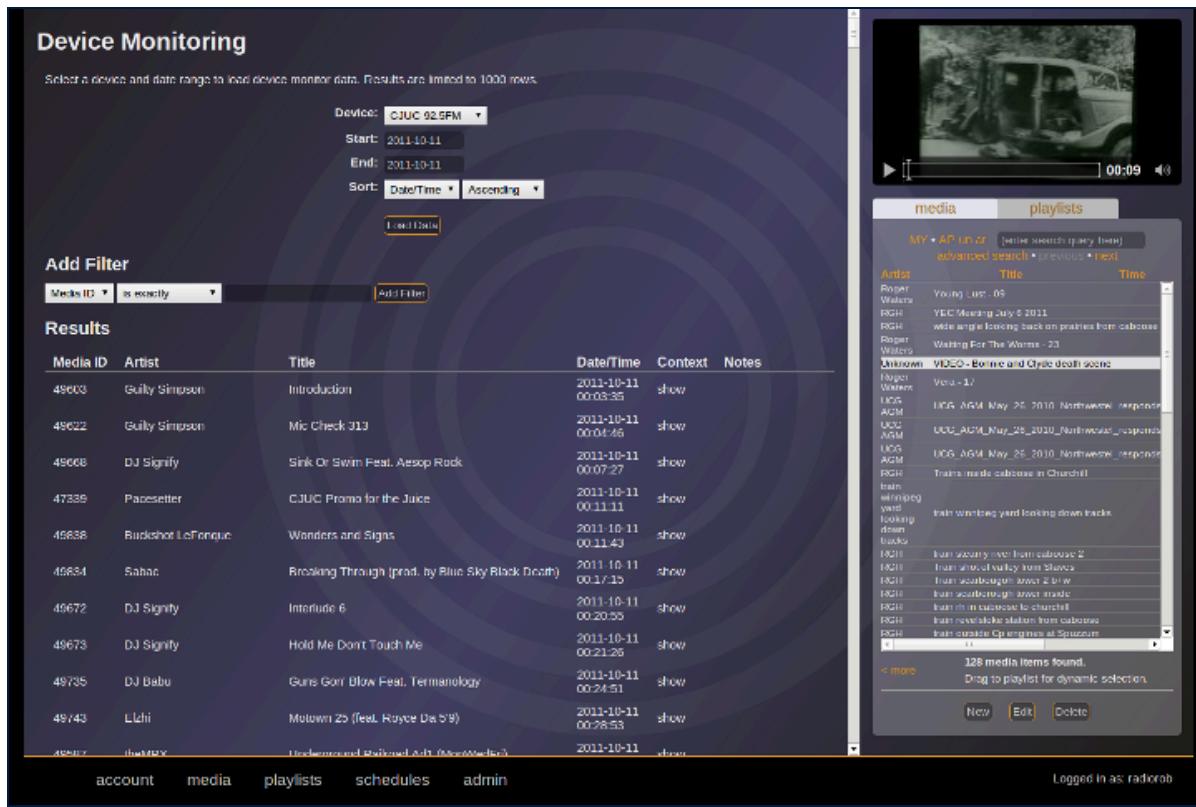
Buttons: Save, Close, Delete

Share a common schedule among a network of players.

Customize the roles of each individual player, fine tuning Parent characteristics and controls.

- Schedules - Dynamic Selections - Station IDs - Default Play Lists - Priority Broadcasts

Logging and Monitoring



The screenshot displays the OpenBroadcaster Software interface. On the left, the 'Device Monitoring' section allows users to select a device (CJUC 92.5FM), date range (Start: 2011-10-11, End: 2011-10-11), and sort order (DateTime, Ascending). It includes a 'Live Data' button and an 'Add Filter' section with a dropdown for Media ID (Is exactly). The 'Results' table lists media items with columns for Media ID, Artist, Title, Date/Time, Context, and Notes. On the right, the 'media' section shows a video player with a thumbnail of a car, a timer at 00:09, and a progress bar. Below the player is a list of media items with columns for Artist, Title, and Time. The list includes various clips from the 'Young Lass' and 'YEC Meeting July 5 2011' events, as well as clips from 'Waiting For The Warms' and 'VLOG 2 - Bonnie and Clyde death scene'. The interface also features a search bar, an 'advanced search' link, and buttons for 'New', 'Edit', and 'Delete'.

Play logs are generated from the Player and sent back to OBServer via TCP/IP according to the frequency specified in the Player Dashboard settings. Reports may be generated using filters for a combination of parameters including:

- Player
- Time and Date range
- Artist
- Title
- Media ID

Modules

Installed Modules		
The following modules are installed:		
Name	Description	Uninstall
Bulk Import v0.1	Imports bulk media items from predetermined folders.	Uninstall
Data & Statistics v1.0	Provide stats for media, playlists, and other OpenBroadcaster Server data.	Uninstall
Now Playing v1.0	Provide "now playing" information on page at <IP_of_Server>/modules/now_playing/now_playing.php?i=deviceID	Uninstall
OB-2-OB v0.2	Transfer media to another installation of OpenBroadcaster.	Uninstall
OB Ad Manager	Manage ads by moving them between "enabled" and "disabled" categories.	Uninstall
Payments	Add eCommerce functionality, providing monetary incentive to users to complete media creation and management tasks. Integrates with Task Tracker module.	Uninstall
Server Status v1.0	Server status information including disk usage, uptime, etc.	Uninstall
SX Reporting v1.0	Reporting module for SoundExchange.	Uninstall
Task Tracker v0.1	Tracks tasks with assigned playlists and media items.	Uninstall
Translations	Add multi-language support to OpenBroadcaster.	Uninstall
Tutorial v1.0	Provide a quick tutorial running through the basics of OpenBroadcaster.	Uninstall
Available Modules		
The following modules are available to install:		
Name	Description	Install
Logger v1.0	Log all controller functions.	Install
Terms of Use	OpenBroadcaster Terms of Use	Install

We include a couple of sample modules; Logger, Tutorial and Now Playing. There are dozens of modules available to provide added features and functionality.

Additional features may be introduced into the OB environment by third-party developers.

Check for updated list of **Modules** (<https://github.com/openbroadcaster>)

Client Settings

Login Message of the Day and a default Welcome page displayed on the initial log in screen using an inline editor.

Feedback

Find a bug? Want to request a feature? Submit your issue to **OBServer** (<https://github.com/openbroadcaster/observer/issues/new>) or **OBPlayer** (<https://github.com/openbroadcaster/obplayer/issues/new>)

Have some Gstreamer, PHP or Python coding skills? Help **Contribute** (<https://github.com/openbroadcaster/.github/blob/main/docs/CONTRIBUTING.md>) and **Sponsor** (<https://github.com/sponsors/openbroadcaster>) to make the OpenBroadcaster community even better

We really appreciate your feedback!

OBServer Advisories

No OBServer Security Issues

OBPlayer Advisories

No OBPlayer Security Issues

Open Server Bugs

124 - Double clicking media item, show details or editing PL, loses the work in progress.

Open Player Bugs

147 - Live Assist playlist can cause dead air when no host intervenes

127 - LA Cannot Advance up, stuck at Break Point

126 - LA Missing > indicator after pressing Hot Button

16 - LA not switching to Fall Back Media

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