

# Radio broadcast and automation system



## ✓ KEY FEATURES

- multi-studios, multi-transmitters & multi-stations
- support for multiple parallel schedules
- audio over IP broadcast or classical analog output
- any type of sounds: ad breaks, sponsorships, news...
- fully redundant solution to ensure broadcast continuity
- several triggering capabilities: manual, time-based, GPIO,...
- general monitoring via a dedicated Control-Center
- virtually unlimited output channels (128+ per server)
- Ember+ implementation for third party matrix control

**CastLan** is a professional audio broadcast solution based on redundant modules which aims to ensure the broadcast of multi-channel playlists, from one or more studios to several dynamically configurable destinations, while providing users with complete and effective control in real time.

The purpose of this multi-station solution is the **broadcast of a predefined content** continuously supplied — by third party systems like **DigiPlan** — in the form of time-based playlists.

Originally dedicated to advertisements, **CastLan** is now designed to air any type of sound, **from ad breaks to local news or any other sequence**.

**Multiple schedules** can be broadcast **in parallel on different logical broad-**

**cast channels** of one station or across multiple stations.

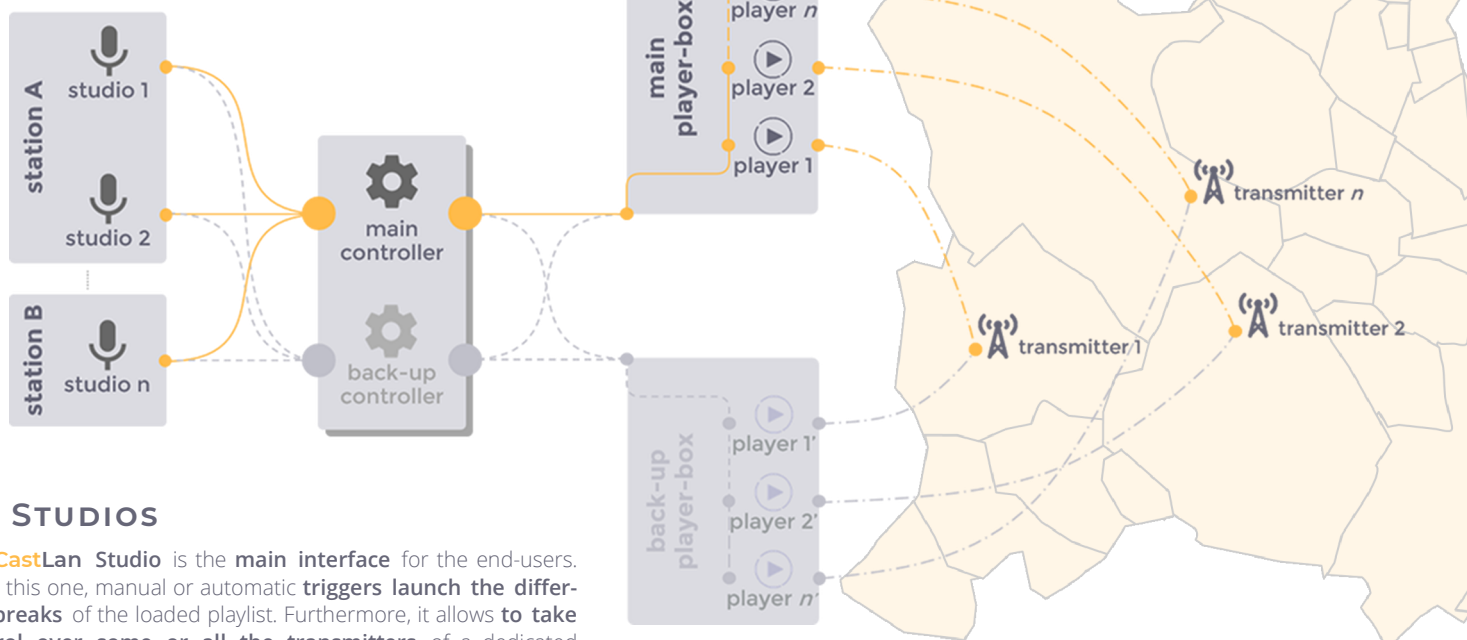
The solution makes it possible to launch broadcasts at the explicit request of either a user, a trigger from an external system or even automatically, depending on the chosen configuration.

The internal modules communicate with each other continuously and interact with multiple external elements making **CastLan** an **integrated solution**.

## CastLan TECHNOLOGY WORKFLOW

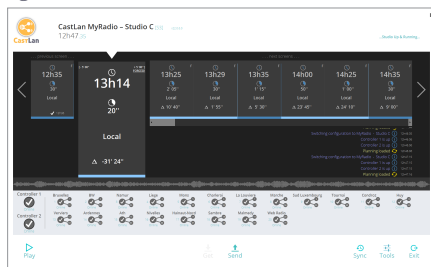


## CASTLAN TECHNOLOGY OVERVIEW



### STUDIOS

The **CastLan Studio** is the **main interface** for the end-users. From this one, manual or automatic **triggers launch the different breaks** of the loaded playlist. Furthermore, it allows **to take control over some or all the transmitters** of a dedicated station, such that they are linked to the appropriate studio at the right time.



The main display shows the **schedule of upcoming broadcasts**, with a bunch of useful information concerning the delays, the duration or even the nature of the screens.

### CONTROLLERS

Each radio is represented by a **pair of CastLan Controllers**. To provide redundancy, these two Controllers centralize communications between all the modules in the system and **ensure continuous consistency and stability of the solution**.

At any time, the second Controller knows the entire system status and is ready to take over if necessary. The other modules never directly communicate with each other, so that each information systematically passes through both Controllers. Similarly, **only the Controllers access the database** containing all the configuration information.

### PLAYERS

At the end of the broadcast chain, the **CastLan Player's role is to broadcast the complete content of a scheduled playlist**, triggered by one of the Controllers the Player is constantly connected to.

For redundancy, it is essential that **each physical transmitter is represented by at least two Players** that will each broadcast the same content in perfect synchronization. Another independent, redundant and dedicated service ensures that the sounds files to be broadcast and the planning information files are always available and up-to-date.

### CONTROL CENTER

This more **technical interface** is dedicated to the administrators to provide at any time a **total control of the CastLan modules**.

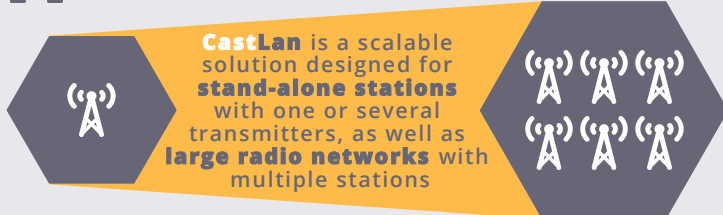
In addition to the main interface showing a **multi-radios dashboard** and the overall status of system processes, they can consult detailed schedules and logs. They can also **force the shutdown or the restart of processes and services remotely**, force the reload of the schedules or even the last-minute replacement of sound files and of course adapt on the fly the various configurations.

### INTEGRATION

Integration into any radio station is facilitated in many ways, as we provide many tools and options like a comprehensive **web service**, an open **SQL database**, the support of **GPIO's**, **triggers via serial ports or via TCP-IP** customizable signals, maintenance of **AsRun** files, as well as a **complete log** of all internal and external events.

### SOME OF OUR REFERENCES:

### SCALABILITY



BelRTL, NRJ, Radio Contact, Nostalgie, Cherie,...

**CastLan**, a member of the SoundNodes product family

**PLAN. BROADCAST. MONITOR. ANALYZE.**

