GloboCast Live
And
GloboCast Fluid

User Guide 0.2
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Intended Audience

This manual is intended for the following users of GloboCast Live and GloboCast Fluid:

Channel operators

1. Introduction of GloboCast Live

GloboCast Live is a UHD ready, cloud-based live orchestration platform. It helps content creators and broadcasters spin-up live channels instantly and orchestrate broadcast-grade live content on the go. GloboCast Live can be deployed with ease and is capable of ingesting multi-source, multi-protocol content including NDI IP standard. The platform is all for flexibility and enables the operator to control break durations and slots, insert graphics in the live feed, extend live playout, switch between input sources and so on with live controls on the platform. Since GloboCast Live is completely cloud-based, it can be operated remotely from anywhere in the world, using a simple web dashboard with multiple operation modes.

A live event broadcast may playout as per plan, or may have disruptions because of unplanned delays or unforeseen issues. An operator or broadcaster may or may not be able to play the scheduled playlist as planned. The features described here will support the operator to take appropriate action during the live playout.

As an operator for a live event, you may encounter any of the following situations:
- Live source(s) not ready to stream due to technical issues
- Delay in the start of the event
- Event going beyond the planned duration
- Inability to play a planned break due to certain circumstances in the live event
- Input from the director / MCR to switch sources, introduce unscheduled breaks, repeat an already played promo or break etc

All these mandate that you be able to view the playlist, edit if needed and publish the updated playlist during the live playout. You can use the Live or GloboCast Fluid UI for this purpose.

GloboCast Live

Live is a 24x7 linear playout that has both file-based and live shows. It offers the ability to ingest content from multiple live sources and play out live streams while the Digital Video Effects (DVE) and advanced graphics make the experience even richer for the user.

GloboCast CLOUDPORT is the most versatile playout platform available today and can ingest all industry-preferred formats for audio, video, and subtitles. It can generate output in multiple formats such as HLS, RTMP, and HD-SDI, and can also be used for VOD delivery to vMVPD platforms.

Operators can use GloboCast Live to schedule a 24-hour playlist with live segments interspersed with file-based playouts. These live segments could be sports events, studio shows, news hours, live debates, award ceremonies, key addresses from heads of state, etc.

What can you do with GloboCast Live?

Live provides all aspects of live channel requirements like live controls for ad insertion, graphics, logos, cloud-based media asset management, scheduling and multi-feed playout monitoring. This is useful for broadcasters who want to mix live and file-based playout content in their channel.

GloboCast Fluid

Traditionally live events (e.g. sports, music concerts etc) are programmed and streamed as part of a TV Channel. The audience switches to a specific TV channel for viewing the live event as per the schedule. With OTT streaming gaining currency among the audience, there is a requirement to stream live events that are not associated with a TV channel.

GloboCast Fluid is an on-demand, live playout system that can be used to orchestrate a live event end-to-end. . Additionally, GloboCast Fluid allows multiple live events to be streamed in parallel. GloboCast Fluid enables operators to stream live content such as sporting events and matches, reality shows, and talent contests as standalone content for their OTT apps. .

Take the FIFA World Cup as an example, where several matches are sometimes scheduled at the same time . These matches can be fully managed and orchestrated

(with event and sponsor branding, logo, graphics, commercial breaks, and triggers) using GloboCast Fluid and distributed through OTT for viewers to consume.

Here are a few typical use cases for GloboCast Fluid:

- sporting events [e.g. European Premier League, University events, Formula One etc]
- news [e.g. presidential address, public rallies etc]
- enterprises [e.g. product launches, CEO address etc]
- entertainment [e.g. music concerts, dance shows etc]

What can you do with GloboCast Fluid?

- **Stream concurrent events simultaneously to OTT apps without needing separate channels for each live stream:** Unlike GloboCast Live, GloboCast Fluid allows you to live stream content independent of linear channels.
- **Stream Live content from one or more sources :** You can have upto 8 sources and choose between them.
- **On-demand:** GloboCast Fluid spins-up the live streaming infrastructure on-the-fly as per the live event schedule, thereby driving down the overall cost.
- **End-to-end orchestrated**: You can schedule your Live events, start streaming at the scheduled time, include breaks, graphics and ads and automatically wind down once the Live events conclude. All these are orchestrated GloboCast Fluidally in the cloud.

2. Understanding the UI

In GloboCast Live, you can view the live feed in the Playout page of the UI. The elements of this page are described below:

1. Currently Playing/Coming Up widget
2. Playlist that is on air
3. Playing Now asset preview window
4. Coming Up asset preview window
5. Missing Assets
6. Clocks of the configured channel locations
7. Menu to switch to different pages of the UI

3. Use cases

Going Live

Automatic Go Live as per Schedule

In this section you will learn how to **go live** as per schedule.

This use case is applicable for:

✔ GloboCast Live
✔ GloboCast Fluid

Need to schedule an automatic go live as per schedule

You can set a playlist to automatically go live as per a schedule when an event goes live at the same time every day [e.g. News hour] or any event that is scheduled at a particular time [e.g. sports events, award ceremony, music shows etc].

Who can schedule a playlist to go live as per schedule?
As a Scheduler or Operator, you may want to schedule a playlist to play live automatically at a specified time.

What you need to be aware of
You should configure a playlist with the necessary live segments and breaks.
You schedule the time based on channel broadcast time.

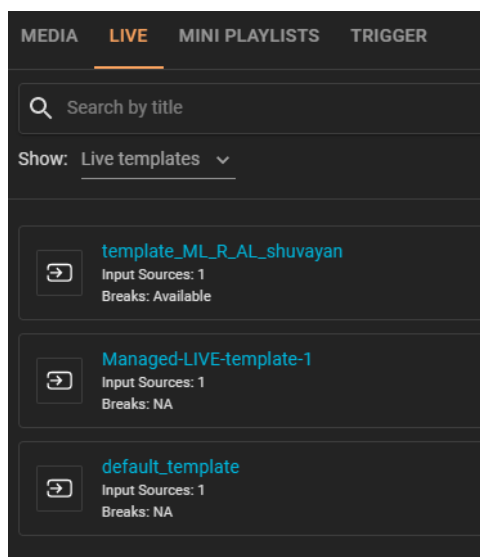**Status of the channel: Non-live**

See How to view the Status of the channel

How do you set the channel to go live as per schedule?

1. Create a playlist using one of the live templates.

2. Click on the template under the Asset information.

3. A dialog box with the event details is displayed.
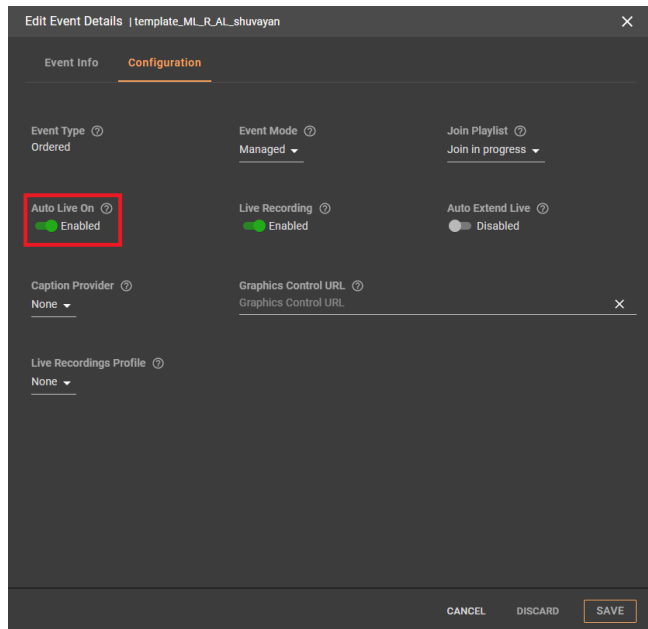
4. Go to the configuration tab. Enable **Auto Live On**.

What happens next?

When the playlist is published, it will automatically go live as per the channel broadcast time mentioned in the schedule.

The **AUTO Live ON** status is displayed on the top right hand side of GloboCast Fluid UI.

Troubleshooting Tips

Related Links

Manual Go Live as per Schedule

In this section you will learn how to manually go Live through a playlist and as per a schedule.

This use case is applicable for:

✔ GloboCast Live

Need to Go Live manually [scheduled]

You can switch from a scheduled playlist to go live manually when there is a live event but the exact start time is unknown at the time of creating the playlist. E.g. award ceremonies, presidential address etc

Who can switch from a scheduled playlist to unscheduled live manually?
As an operator, you can set up a playlist with the live event scheduled and go live manually when there is a live event.

What you need to be aware of
- You have a configured playlist with shows, live segments and breaks which are currently playing out.
- You know that you have to schedule the live event manually. At this time, you should decide what should happen **once the Live event concludes** - should the scheduled playlist continue based on the time? Or should you mark the playlist so that the playlist can play from that marker once the live event concludes?
- You schedule the time based on channel broadcast time.
- Confirm if the Live stream has been set up as an input source.

Status of the channel: Live

See How to view the Status of the channel

How do you set the channel to Go Live manually?

1. Click on the Playout section of the dashboard.

2. When the live event is about to be scheduled, click on the **TAKE Live** button.

4. Choose the second option to go Live. Choose the date and time you want to schedule the live event.
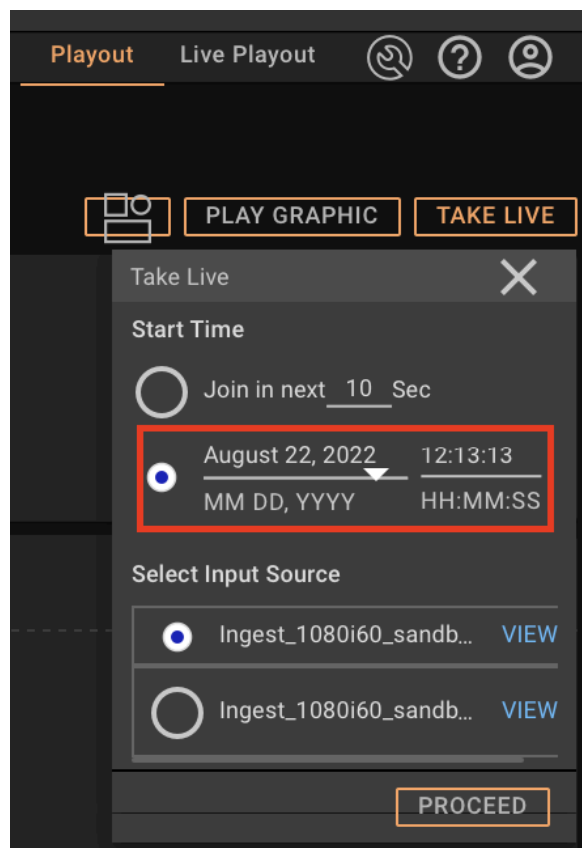
3. Choose the input source that you want to stream live.

4. Click on **PROCEED.**

What happens next?

While the playlist is being played and at the scheduled time, the live event will start streaming when you click on 'TAKE Live'.

Upon completion of the live event, the playlist will resume

    a. from the current time on the playlist or

    b. from a marker that may have been dropped on the playlist.

Troubleshooting Tips

Related Links

[How to add a marker to the playlist?](#)
[How can I preview the input source that is scheduled to be live?](#)
[How can I go live immediately?](#)
[How can I schedule a live event automatically?](#)

Immediate Go Live - Unscheduled

In this section you will learn how to **go live immediately**, even when there is no live event scheduled.

This use case is applicable for:

✔ GloboCast Live

Need to Go Live immediately [unscheduled]

You can switch from a scheduled playlist to live whenever there is any breaking news. This overrides ALL scheduled playlists.

Who can switch from a scheduled playlist to unscheduled live immediately?

As an operator, you can switch to **Go Live immediately** when certain external situations like breaking news occur.

What you need to be aware of
- You have a configured playlist with the necessary live segments and breaks which is currently playing out.
- You know that the channel has to go live immediately. At this time, you should decide what should happen **once the Go Live event concludes** - should the scheduled playlist continue based on the time? Or should you mark the playlist so that the playlist can play from that marker once the live event concludes?
- You schedule the time based on channel broadcast time.
- Confirm if the Live stream has been set up as an input source.

Status of the channel: Live

See How to view the Status of the channel

How do you set the channel to Go Live immediately?

1. Click on the Playout section of the dashboard.

2. When you need to go live, click on the **TAKE Live** button.

3. Choose the first option to go Live. This is the first radio button 'Join in next ___ sec'.

4. Set the number of seconds within which you want to go Live. The minimum number of seconds to go Live is 10 seconds.
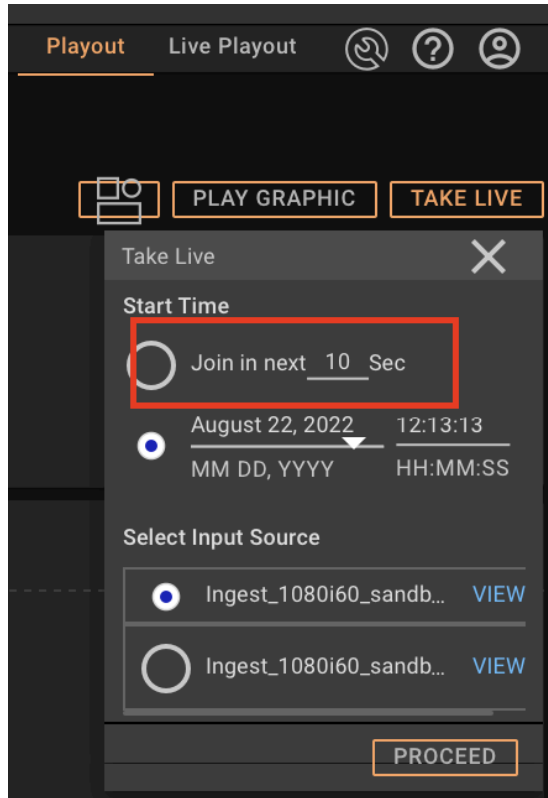
6. Choose the input source that you want to stream live.

7. Click on **PROCEED**.

What happens next?

The current playlist will be interrupted and the live event will start streaming.

Upon completion of the live event, the playlist will resume

    a. from the current time on the playlist or

    b. from a marker that may have been dropped on the playlist.

Troubleshooting Tips

Related Links

[How to add a marker to the playlist?](#)

[How can I preview the input source that is going live?](#)

[How can I schedule a live event manually?](#)

[How can I schedule a live event automatically?](#)

Glossary of Terms

Asset

An Asset is any audio/video/graphic stored in the media library. It could be a program series, promo, commercials, or live feed. This information is used for configuring automation for logo, graphics, identifying commercial breaks or scheduling DTMF/SCTE.

Auto Live On

Refers to a parameter setting for a channel, wherein the user can choose to go Live at a scheduled time in an automatic manner.

Channel Broadcast Time

Channel broadcast time refers to the time at which broadcast begins for a channel. It is a parameter set during channel configuration.

Currently Playing

Currently Playing refers to the widget on the screen which shows a perspective of the currently playing asset from the playlist.

Dependent Graphic

A graphic asset which is played at an offset to another asset is a dependent graphic.

Disable Asset

Disable asset is part of the Button Bank controls on the screen. It is used to stop the asset from playing.

GloboCast Fluid Parameters

Refers to the set of parameters used in graphics settings.

Graphics

Graphics are assets such as logos, lower third banners, promos, GloboCast Fluid graphics, tickers, countdowns or full screen cards.

Independent graphic

Graphics for which the start time on the playlist, is not dependent on the asset prior to it.

Live Event

Live event is an event which is a currently happening occurrence of a show. For example:- sports matches, awards or a ceremony.

Live/ Non Live

Refer to the status of the system. System is in live state when the playout is happening. System is in a non live state when a live show or event is not being broadcast.

Live Playout

Refers to the menu in GloboCast Fluid used for monitoring a playout.

Live Segment

Refers to the live feed as an item of the playlist, which is segmented (made into chunks) to play interspersed with breaks. Segmentation of files is done for faster playout and ease of handling.

Live Stream

Live stream refers to the Live coverage of an event over the internet.

Missing Assets

Assets that are not available on the cloud storage or downloaded on the player are missing assets.

Play Asset

Refers to the button bank control available to the user for playing a particular asset. It is present at each item level in a playlist.

Playlist

Playlist is a list of assets arranged to play in a linear manner. It consists of a combination of Live segments, Pre-recorded videos, commercials, promos and graphics.

Scheduled Duration
Scheduled Duration is the time interval for which a playlist item is scheduled to play for. It is specified in HH:MM:SS:F format, which stands for Hours:Minutes:Seconds:Number of Frames.

Scheduled Start Time
Scheduled Start Time is an attribute of an item of the playlist, which could be a Live segment or a break. It is editable and is in the format HH:MM:SS which stands for Hours:Minutes:Seconds. It indicates the time at which an asset is programmed to start.

SCTE
Refers to the industry broadcast standard for inserting cue tones in a transmitting stream. SCTE(Society of Cable Telecommunications Engineers), is an industry broadcast standard for inserting cue tones in a transmitting stream. Cue tones are sent for local advertisement insertion.

Take Live

Refers to the menu by which a user can start a Live stream in an immediate manner.

Timers
Timers constitute the display widgets on the screen, which present a countdown to milepost events of the playlist.

Triggers

Refer to the activation mechanism of a SCTE break. This menu tab is available under the media library widget.

Video Asset
Refers to the media which is a pre-recorded content.