

# Aviator Automation

Control Channels Anywhere

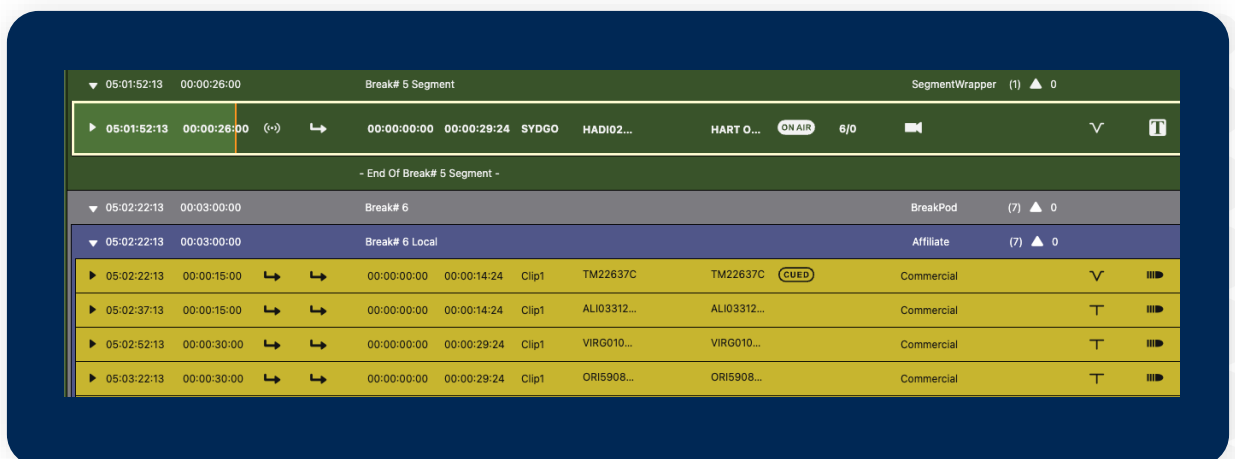
Aviator Automation is the distributed, real-time schedule execution engine responsible for playback—controlling clip playback, audio, graphics, and switching in real time.

It uses a distributed architecture, with each channel engine independently executing its scheduled playlist. Playlists are instantiated and removed dynamically, based on orchestration logic defined within the Aviator Orchestrator platform, which manages how engines are configured, created, started, and stopped.

Aviator Automation supports a range of use cases—from 24/7 linear broadcast channels to short-lived thematic, event-driven, or FAST channels. Its dynamic nature, combined with Aviator Orchestrator orchestration capabilities, makes it ideally suited for pop-up channels and rapid playout provisioning.

## Key Capabilities

- Automation tailored for modern dynamic media operations, solving today’s challenges
- Built on a new technology stack, compatible with both cloud and on-premise environments.
- Full integration with built in content management, ingest master control and redundancy within a single unified user experience
- Configurable web-based dashboard builder designed for master control operations for dynamic operational needs



## Why Aviator Automation



When you have a dynamic media facility you need an automation system that also provides the flexibility to adapt to changing environments. This means:

- Dynamic channels appear as they are created started and stopped from orchestrator,
- Redundancy which scales by demand
- Regional splits which come and go based on sales demand
- Cloud or on-prem - a single system, with single pane of glass for end-to-end operations
- Support for highly reactive live integration
- Intuitive workflow tools like advanced channel grouping, linked list and live panel
- Designed for high availability
- Built on modern architecture leveraging scalable IT toolsets

## Functional Modules



### Command & Control

- **Playout Automation** – modern, flexible playout automation optimized to operate linear channels high reactive linear channels.
- **Master Control** – single pane of glass for operation and monitoring, with customizable dashboards to manually interact with cloud channels and support live events.
- **As-Run Viewer**– rapid access to all the events that have been aired by all your channels.

### Redundancy

- **Channel Orchestration** – designed to manage channel redundancy stacks (1+1, N+1, N+M with shared backup pools), modifying configurations with simple drag & drop operations.

### Content Management

- **Content Portal** – a lightweight media asset management tool that tracks assets and stores additional metadata, making sure they are transmission ready before they can be used in automation playlists.

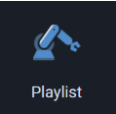
### Ingest Management

- **Ingest Scheduler** – an integrated ingest control application for scheduled recordings and crash records. It is designed to optimize resources by controlling pools of recording ports in Nexio SDI and Versio™ Ingest 2110 servers

## Key Benefits

- Common HTML5 UI's for on-prem and cloud**  
 Geo-dispersed architecture that provides unified channel interface for control of either on-premise or cloud hosted payout
- Minimal config**  
 Dynamic channel registration with Aviator Orchestrator
- Configurable SCTE-104/35 rules**  
 Enables the ability to drive downstream Digital Ad Insertion (DAI) workflows.
- Integration with traffic**  
 Real-time exchange (BXF) of schedule data and as-run logs with traffic systems.
- Integrated Access Control**  
 Built-in user role-based access authentication
- Standards Based Integration**  
 Built on widely adopted IT tools and frameworks, augmented with API's to drive integration with traffic, content management and playlists.
- Operational Observability**  
 Integrated dashboards provides system status to reduce errors and accelerate issue resolution.
- Channel Orchestration**  
 Flexible redundancy options for each logical channel including 1+1, N+1 and N+M (using shared backup pools) models
- Self Contained and Secure**  
 Designed to operate in closed, air-gapped, or access-controlled environments—ensuring secure deployments without the need for external connectivity

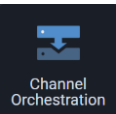
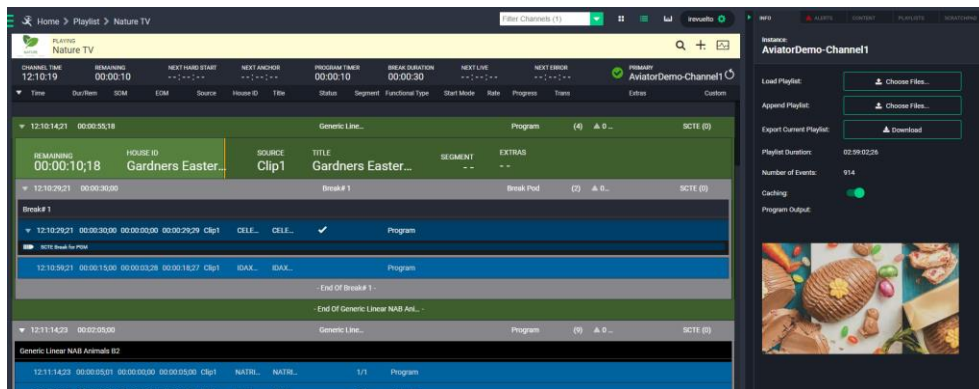




## Playlist

Aviator’s Playlist is a multichannel playout automation designed for distributed architectures, ready to operate linear channels with ease, with intuitive controls and multiple views to accommodate operational preferences.

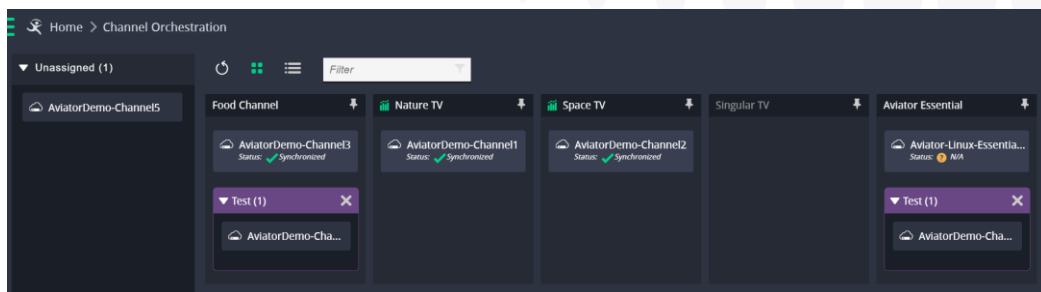
- Automate and control linear channels
- Manage and modify playlists, multiple list versions, advanced synchronization rules
- Control frame accurately clips, graphics, master control elements, subtitles
- Drive downstream ad insertion workflows with advanced SCTE-104/35 rules
- Integrate with Traffic systems exchanging schedule data and as-run logs in real time
- Operate new channels right after they have been created (no extra configuration steps)



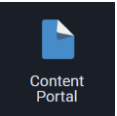
## Channel Orchestration

Aviator’s Channel Orchestrator is an application designed to manage channel redundancy stacks, modifying configurations with simple drag & drop operations.

- Configure different redundancy options for each channel (1+1, N+1, N+M with shared backup pools)
- Failover seamlessly to protection streams, manually or automatically
- Link new engines to existing stacks, up to 5 channels per stack
- Monitor schedule synchronization

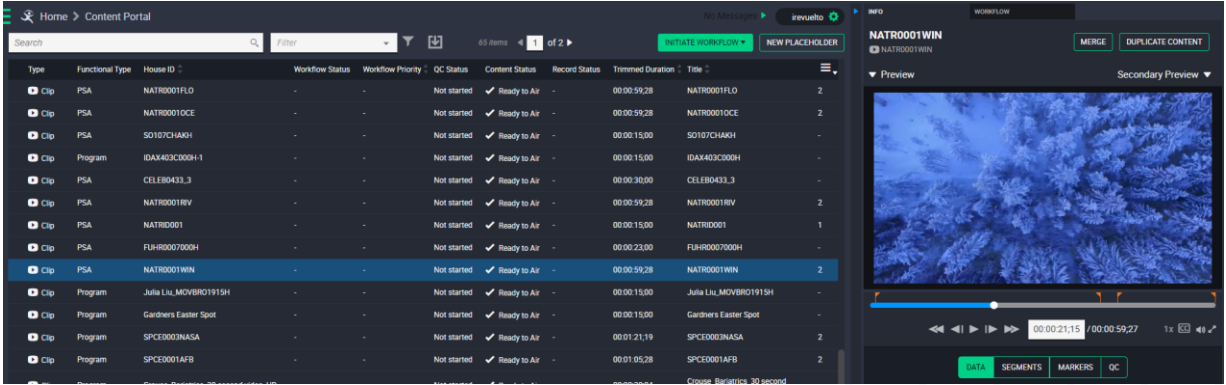


## Content Portal

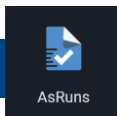


Aviator’s Content Portal is a lightweight media asset management tool that tracks assets and stores additional metadata, making sure they are ready before they can be used in automation playlists.

- Browse content inventory from multiple endpoints
- Make advanced search and filtering
- Use low-res files for content preview
- Prepare content: segmentation, trimming, transcoding, packaging
- Create content groups and restrict access
- Enable QC human tasks and markers
- Launch and monitor workflows for media import/export
- Use extensible metadata with custom properties

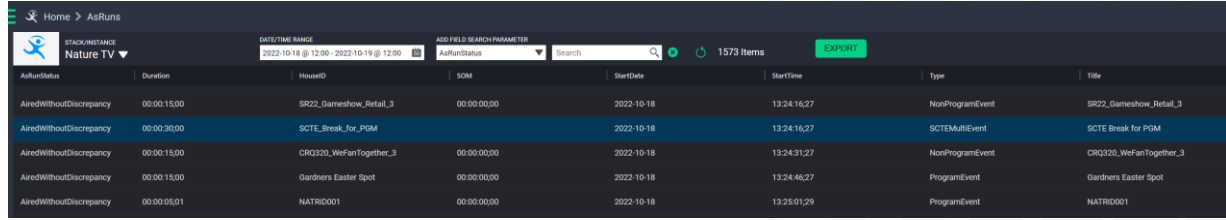


## AsRuns

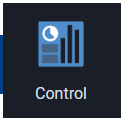


Aviator’s AsRuns application provides a rapid access to all the events that have been aired by all your channels.

- Select channels or channel groups
- View all the played events, primary and secondary
- Select date or time ranges
- Export in multiple formats: BXF, TXT, CSV
- Filter using multiple attributes

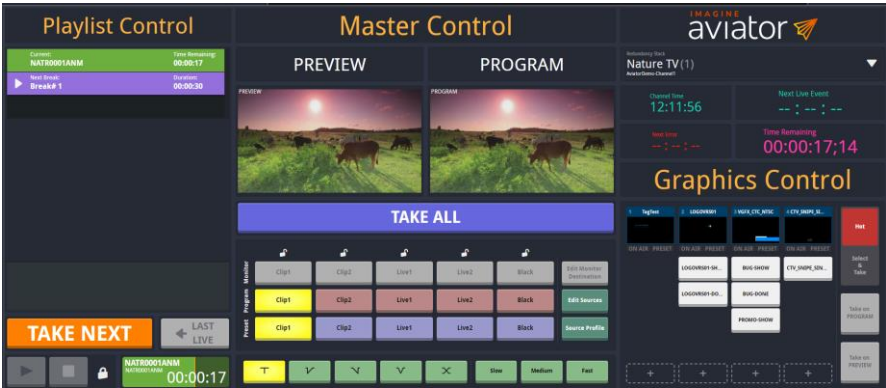


## Control

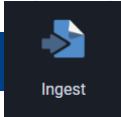


Aviator’s Control allows you to build and operate control panels in a web browser. It is highly customizable and intuitive, with a collection of widgets that you can combine to create exactly the dashboard required by any operator or supervisor.

- Operate like in a traditional master control environment
- Override channel control and manually command video mixer, audio mixer, graphics and automation playlists
- Control live events, quickly transitioning to commercial breaks
- Customize smart dashboards for every user
- Monitor channel performance and status
- Receive real-time telemetry and notification of failure states

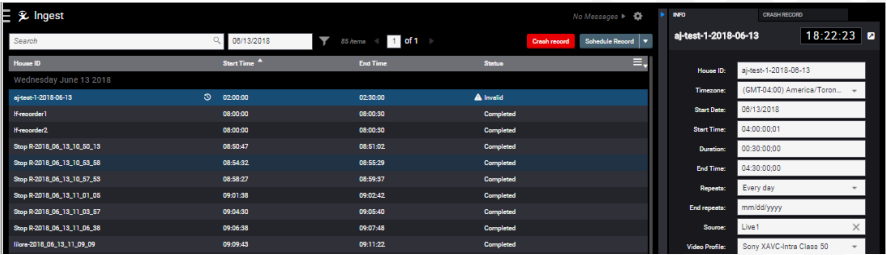


## Ingest Management



Ingest Scheduler is an integrated ingest control application for scheduled recordings and crash records. It is designed to optimize resources by controlling pools of recording ports in Nexio SDI and Versio™ Ingest 2110 servers.

- Priority-based bookings allow for scheduling or emergency manual records even when the system is 100% utilized.
- Preview while recording via a web user interface, using a live growing proxy.
- Prioritize bookings or crash records by dropping lower-priority or redundant ones to accommodate higher-priority requests.
- Intelligent port assignment that automatically deconflicts and ripples ingest schedules as necessary to accomplish booking tasks.







## Aviator Automation Specifications

Features	Included
Redundancy Manager (N+N, N+1)	✓
BXF Integration	✓
Rules based traffic Translation (Schedule Integration)	✓
Graphics Layer Assignment (Z ordering)	✓
Secondary Event Support (Graphics, Clip, Live, Record)	✓
Secondary Manual Start	✓
Secondary Offset from End	✓
Dynamic GFX Countdown Timers	✓
Graphics Realtime Text	✓
Graphics Dynamic Now, Next Later	✓
Soft Segmented Playback	✓
Hard Parted File Playback	✓
Live Program Turnaround (Dynamic Segmentation)	✓
Link List	✓
Program Interrupt	✓
Universal Macro Driver (Configurable TCP/REST)	✓
Group Control/Roll	✓
Audio Shuffle Control from Schedule	✓
SCTE-35 Receive (Skip Next)	✓
SCTE-104 Insertion (Automated & Manual)	✓
GPO Secondary (Pulse or Latch)	✓
Dynamic or Fixed Pretake	✓
Manual End / Up Count events	✓
Event Hard Start	✓
Fixed Time	✓
AFD Insertion From Schedule	✓
XDS/VCHIP Insertion From Schedule	✓
Playlist Proxy Browser	✓
Event and Break Containers	✓
Master Control Thumbnail Low Latency Preview (WebRTC)	✓
Realtime As-run Viewer	✓
As-run export (CSV, BXF, TXT)	✓
UMD Multiviewer Support Countdown and Metadata (TSL, ImageVideo)	✓
Elastic Events (Custom Hooks / Dynamic Playlist Rules)	✓
Master Control Dashboard	✓
Live Event Panel	✓
Offline Playlists (Schedule Creation)	✓



## Aviator Automation Media Management Specifications

Features	Included
Content Search & Management	✓
Workflow Engine	✓
Low-Res Browse	✓
Low-Res Caption Preview (DASH Only)	✓
Soft Segmentation	✓
Clip Trimming	✓
Metadata Markers (Markers / QC)	✓
BXF Integration (Run Sheet / Side Car Generation)	✓
Metadata Scripting	✓
Custom Metadata Fields	✓
Content Registration	✓
Low-Res Creation	✓
Missing Content Request	✓
High Watermark Automatic Purge	✓
Metadata Attachments	✓
Integrated QC Ready Status	✓
Custom Functional Types	✓
Manual Workflow Invocation & Monitoring	✓
Workflows Human Task Invocation	✓
API Control	✓
Custom workflows	Option
3rd Party Storage & Archive (Supports SGL, Active Circle, DIVA, K2, Avid Interplay)	Option
3rd Party QC Integration & Processing (Supports: AmberFin, Telestream Vantage & FlipFactory, Tektronix (Digimetrics) Aurora, Baton, Signiant FIMS, Harmonic WFS)	Option
3rd Party Delivery Accelerator (Signiant)	Option





## Aviator Automation Specifications

	Included
<b>Mater Control &amp; Monitoring</b>	
Customized dashboard builder	✓
Prometheus, Grafana, Alert manager monitoring stack	✓
Loki Centralized Logging	✓
Aviator SW services monitoring	✓
Monitor playout channels status and playlists	✓
Alerting: custom queries, reports, trigger alarms	✓
Notify by web UI, mail, pager duty, Slack, Microsoft Teams, and more	✓
Integration with 3rd party monitoring systems	✓
<b>User Rights Management</b>	
Manage user permissions for Aviator applications	✓
Authentication: log-on before connecting to the different applications	✓
Assign users to different groups: operators, supervisors, administrators	✓
User Registration.	✓
Single Sign-On across all Aviator applications	✓

### Ordering Information – Aviator Automation\*

SOFTWARE	
AA-PLAY-CH	AVIATOR AUTOMATION PLOUT COMMAND AND CONTROL LICENSE PER CHANNEL ENGINE
AA-ING-CH	AVIATOR AUTOMATION INGEST LICENSE PER CHANNEL ENGINE
AA-PLAY-AMAGI-CH	AVIATOR AUTOMATION COMMAND AND CONTROL LICENSE PER AMAGI CLOUDPORT CHANNEL