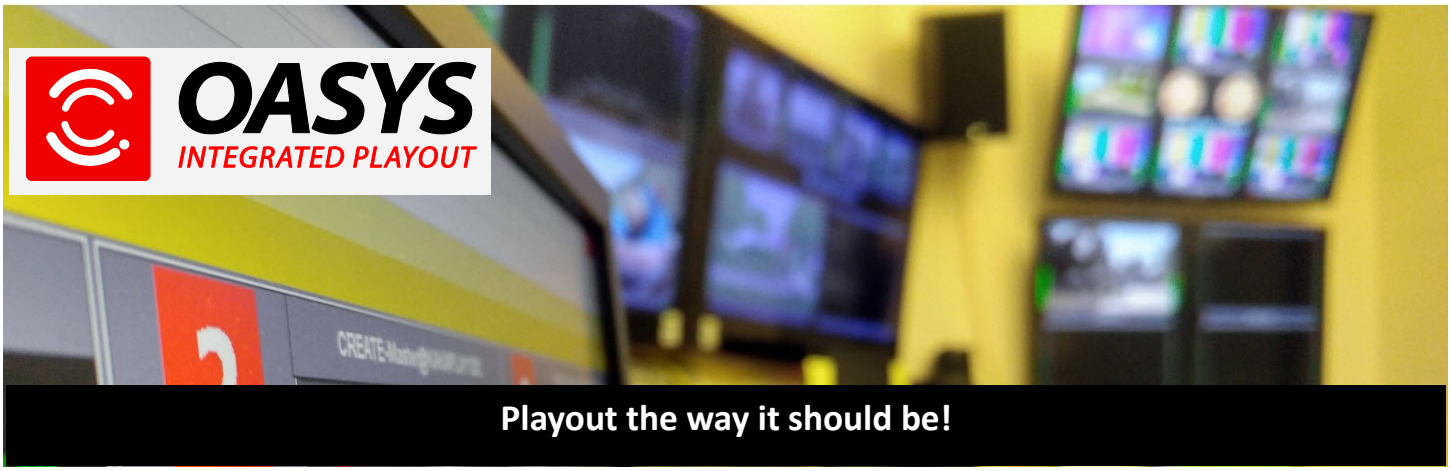
BroadStream SOLUTIONS



OASYS Integrated Playout, a robust, playout platform designed to improve reliability and increase efficiency with comprehensive automation and tailored workflows that are customized, flexible, scalable and easy to use.

Industry Leading Features

The OASYS unified architecture combines:

- Ingest; Preparation with Trim In/Out
- Live & file-based Captioning & Subtitling
- Playout with Automated Graphics Engine
- Network Media Management
- Switching & Mixing

OASYS delivers integrated and seamless playout from a single server, yet easily expands to multiple server configurations to provide a network independent solution that is agile and fully scalable, with redundancy options, to meet the most demanding broadcast and channel requirements.

- OASYS supports playout of video files and live sources in a mix of resolutions and formats.
- Multiple sources can be processed simultaneously with automatic scaling and aspect ratio conversion.
- Create Secondary Recordings of live events with multiple graphic layers and replayed with updated graphics.
- Multi-format codec support reduces transcoding and file re-wrapping.
- Time-Shift and Delay Processing.

Flexibility & Adaptability

- Redundancy Manager monitors playout system health and provides intuitive, automatic decision-making for channel failover and re-routing to put the back-up channel on air.
- Multiple redundancy options including 1+1, N+1, 1+N and N+M architectures.
- Automatically synchronize playlist changes on multiple systems
- Join-in-Progress automatically adjusts timings and preserves commercial revenue.
- Automated Hot Starts add more schedule time.
- Integrated time delays, delay incoming live feeds in the playout channel and avoid up-cutting programs.
- Multiple software module options, enable you to tailor the system to your specific needs and budget.
- Easily add new software modules for future expansion or system modification.
- Gain dramatic improvements in both time and efficiency with streamlined workflows and our automated File QC process.

When we were looking for a new automation system one of the items on our “wish-list” was the ability to program all our channels and not necessarily use pass through services. This did not look like a possibility until we found BroadStream, their system design and economical “off the shelf hardware model” gave KMOS a versatility not normally found at a small station. With Worldview being our third channel, we did not need all that ability as it was a fully packaged service. When MHZ made the announcement that Worldview would be shutting down, thanks to its BroadStream system, KMOS was able to treat the situation as an opportunity and not a challenge.

Josh Tomlinson, Director of Broadcasting Services and General Manager, KMOS-TV

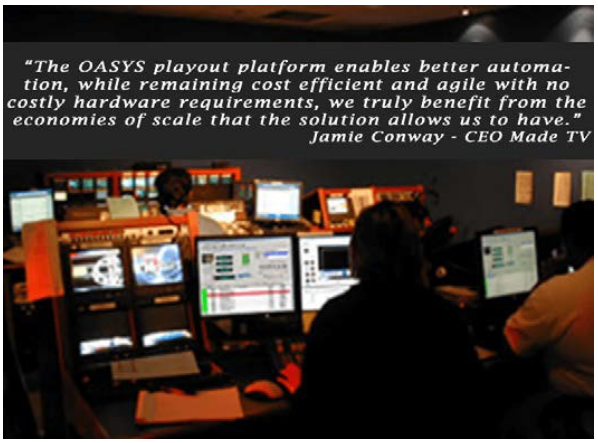


Specialized Features

- High performance XML architecture eliminates the SQL database, slow response and database rebuilds.
- Seamlessly edit on-air events to change graphics, modify audio mapping or other metadata.
- On-air fixes do not interrupt playout.
- Multi-channel Web Client for remote, browser access for monitoring and control of multiple channels.
- Optional Polistream Caption & Subtitling Encoder in software or hardware.
- Live and file-based Automated Captioning & Subtitling options.
- Advanced Graphics capabilities:
    - Template-based; Metadata driven
    - Channel branding, logos, lower thirds
    - Scrolls, squeeze backs, picture-in-picture
    - Program listings
    - Now/Next/Later animations
    - School closings and emergency alerts
    - Traffic reports; Election coverage
    - News, sports and weather tickers
    - Include real-time data from RSS, XML feeds and UDP overlays from 3rd parties
- Up/Down/Cross conversion with dynamic aspect ratio control for 1080i and 720p.
- SCTE 104/35 markers for advanced ad applications.
- Time delay options with adjustable or fixed delays.
- Automatic loudness management for file-based content using XML sidecar metadata.
- Secondary recording makes it easy to record and segment shows for airing later.
- NextGen file support for:
    - Avid DNxHD, Apple ProRes, AVC, MP4, H264

Standards Compliant

- C.O.T.S. architecture provides IT savings from off-the-shelf hardware to reduce capital expense.
- Eliminates expensive, proprietary hardware and multiple service contracts.
- Support for BXF and all major traffic vendors.
- Native file playback of PitchBlue and Pathfire content streamlines workflow by eliminating transcoding.
- CompuSat control for both scheduled and manual satellite recordings.
- Integration with multiple 3rd party MAM systems.
- Support for multiple audio languages, subtitles and true Unicode support.
- Open, Teletext, OP-47, DVB, EIA 608 & 708 captions.
- Supports multiple audio tracks for tagging, shuffling and mixing.
- Emergency Alert for US & Canada.



New OASYS Features

- Loudness normalization on the fly for live and file based content.
- Kill dates for asset control.
- Improved graphics with masking, scaling, stretch and all graphics changes can be previewed live.
- Improved soft segmentation (EDL) support using cue sheets so the same assets can be playout out on different channels.
- Support for pass-through and decode of Dolby E for SDI and IP outputs.
- Automatic Aspect Ration Control based on AFT information in anc data.
- Improve SCTE-35 triggers allowing separate targeting of downstream evens.