



OASYS VIRTUALIZED INTEGRATED PLAYOUT

Software-Defined Playout on Standard IT Infrastructure

UP TO
50+

Channels per systems

1

Vendor and support contract

N+M

Scalable redundancy

Modern playout operations shouldn't require a rack full of purpose-built hardware, six vendor support contracts, and a team of specialists to keep it running. BroadStream's virtualized playout runs on standard infrastructure. Boost your team's performance by giving them one system to operate, one vendor to call, and the operational agility to scale or adapt without a hardware procurement cycle.

OASYS Virtualized Integrated Playout delivers the complete OASYS feature set, including automation, media server, playout, live switching, graphics, captioning, and redundancy, as a fully virtualized software platform running on standard COTS (Commercial Off-The-Shelf) IT servers. No proprietary hardware. No purpose-built cards. No fragmented vendor relationships. One system, one support contract, running on your infrastructure your IT team already manages.

THE PROBLEM WITH TRADITIONAL MASTER CONTROL

- › **Fragmented hardware stack:** Encoders, video servers, graphics boxes, storage, and master control switches each a separate proprietary device from a different manufacturer.
- › **Multiple support contracts:** Every vendor has its own firmware cycle, EOL schedule, support number, and field engineer requirement.
- › **Incompatible control protocols:** Disparate scheduling software bridges hardware that wasn't designed to work together. Troubleshooting spans multiple systems.
- › **Physical footprint and power:** Purpose-built hardware demands dense rack space, dedicated cooling infrastructure, and continuous high-power draw.
- › **Hardware-locked upgrades:** Capability improvements require capital procurement cycles rather than software updates.

HOW OASYS VIRTUALIZED SOLVES IT

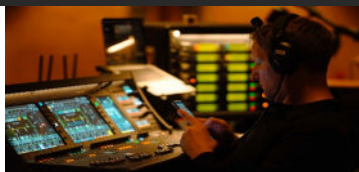
- › **Software replaces purpose-built hardware:** All playout functions run as software modules on standard IT servers Dell, HP, or Supermicro with no proprietary components.
- › **Single vendor, single contract:** Eliminate the multi-vendor maze. BroadStream is the one number you call.
- › **Consistent interface across all functions:** Media prep, scheduling, playout, captioning, graphics, and logging all operate within one unified system.
- › **Reduced hardware footprint:** Fewer servers, lower rack density, reduced HVAC and power requirements without sacrificing channel capacity.
- › **Software-driven upgrades:** Capability updates deploy as software patches, not hardware procurement events.

TRADITIONAL VS. OASYS VIRTUALIZED - WHAT CHANGES

CATEGORY	TRADITIONAL MASTER CONTROL	OASYS VIRTUALIZED
Hardware	Multiple purpose-built proprietary devices	Standard COTS IT servers, nothing proprietary
Support	Multiple vendor contracts and support numbers	Single BroadStream support contract
Upgrades	Hardware replacement on vendor EOL schedules	Software updates on your schedule
Redundancy	Complex, expensive hardware redundancy	Automated 1+1 to N+M software redundancy
Management	On-site only; requires specialist engineers	Web-based remote control from any browser
Footprint	Dense racks of dedicated equipment	Reduced rack density; lower HVAC and power
Signal	SDI only; IP requires additional hardware	Full IP, software selectable
Captioning	Separate downstream captioning hardware	VoCaption & Polistream integrated in software

WHAT IT MEANS FOR YOUR TEAM

Broadcast Engineers



- › Deploy and update via software, no hardware swaps
- › Run on any standard IT server hardware
- › Full IP
- › SCTE-35/104 and EAS
- › Redundancy Manager automates failover
- › Remote diagnostics via web interface

IT Administrators



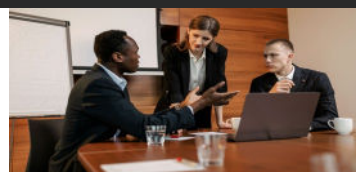
- › Standard servers managed with existing IT tools
- › No proprietary firmware or vendor-locked storage
- › VM-compatible runs on existing platforms
- › Single-vendor support simplifies incidents
- › Patching via standard software update workflows
- › SNMP traps and WatchDog for monitoring

Operators



- › Unified interface, no tool switching
- › Web-based multi-channel monitoring anywhere
- › Drag-and-drop scheduling, live playlist editing
- › Automated alerts before issues reach air
- › Supports unmanned and reduced-staff operations
- › Missing media find-and-replace, auto-purge

Management



- › Eliminate fragmented vendor relationships
- › One support number, one maintenance contract
- › Extend hardware refresh on your own schedule
- › Reduced rack footprint lowers HVAC and power
- › Unmanned hours with automated monitoring
- › Scale to 50+ channels on standard hardware

KEY TECHNICAL SPECIFICATIONS

Signal Formats	Full IP
Channel Density	Varies based on hardware specifications
System Scalability	Expandable to 50+ channels
Redundancy	1+1, N+1, N+M, automated or manual
Captioning	VoCaption, Polistream, DVB, SCTE
Ad Insertion	SCTE-35, SCTE-104 (VANC, software only)
Emergency Alerts	DASDEC EAS integration
Traffic / MAM	All major vendors; BXF, XML, MAM integration
Input Formats	NDI with PCM audio, SRT, UDP, H264, TS with AAC or MPEG audio
Output Formats	SRT, UDP, RTP, RTMP, H264 with AAC or MPEG audio
Graphics Engine	Multi-layer: logos, tickers, PiP, squeeze back
Audio	Dolby Atmos, 5.1, PCM, AAC, MPEG + Kantar watermark
Monitoring	Web-based multi-channel client, SNMP,
Deployment	On-premises, private cloud/VM, or hybrid

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Our purchase and installation of OASYS was in my opinion the single best thing that has happened to our Master Control area in over 15 years.

Director of Engineering · KTSF-TV

“

The platform has a smaller footprint, is less costly to operate and improves our flexibility, which helps operationally as we schedule more unmanned hours in Master Control.

General Manager & Director of Technology · KUAC-TV

“

The system can dynamically manage channel redundancy with 1:1, M:1 and M:N configurations. For us, this reliability and resilience were absolutely imperative.

VP Broadcast Operations & Engineering · PCCW / NOW-TV · KUAC-TV

ONE SYSTEM · ONE VENDOR · ONE SUPPORT CONTRACT

Media prep · Scheduling · Playout · Live switching · Graphics · Captioning · Logging · Redundancy

OPTIONAL SOFTWARE MODULES

› VoCaption, Live Captioning	› Polistream Subtitling
› Redundancy Manager	› Multi-Channel Web Client
› BroadStream Media Exchange	› Schedule Importer (Traffic)
› Complex Graphics Extension	› Global Media Library
› Archive & MAM Plug-ins	› SCTE-35 / SCTE-104
› EAS (DASDEC)	› Dolby Atmos / 5.1 / Dolby-E
› Kantar Audio Watermarking	› DVB Subtitle Processing
› Secondary Recording	› As-Run Logger / BXF Export

Contact your nearest BroadStream office or visit broadstream.com to arrange a demo.

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