

# VBOX Channel

## “Channel-in-a-Box” Playout Automation Platform

### Broadcast Playout Automation

EditShare's VBOX Channel is a turnkey, compact playout automation solution designed to fulfil the requirements of today's varied playout landscape. From a single channel regional station to modern broadcast playout centers, we provide a scalable solution to meet the demands of our customers. It's a comprehensive “Channel-in-a-Box” solution offering peace of mind to channel operators who require reliable playout without having to integrate disparate products from multiple vendors.

VBOX Channel is built for operator needs today and tomorrow with a wide variety of codec and input support, including baseband and IP playout along with HD and UHD formats. It's a 4K capable video playout solution with built-in on-air graphics, a full remote playlist and transfer management in an easy to use, cost-effective compact single server solution.

VBOX Channel can be used for standalone playout, or when paired with EditShare EFS Shared Storage and FLOW Asset Management, provides an entire end-to-end broadcast and production solution from ingest, shared editing, automated QC, through playout automation. VBOX automation is tightly integrated with EditShare's smart workflow tools such as FLOW as well as EFS shared storage for mission-critical playout. A versatile, purpose-built playout platform with the flexibility to meet the needs of every TV station.

### Flexible Multi-channel Configuration

A range of options are available to match your configuration, needs and budget, whether you're delivering SD, HD, or UHD TV Channels on SDI or IP. VBOX Channel supports all major broadcast video file containers and codecs. The latest generation of IP playout formats are supported including NDI, RTSP, SRT and SMPTE 2110.

### Edit While Capture, Play while Record

Fast access to ingest and edit live feeds against growing clips, with proxy streaming on all inputs, including Edit While Capture (EWC) with Flow Story and leading NLEs.

The moment that recording starts, clips are available to play. Operators do not have to wait until the clip closes, enabling fast turnaround and rapid replay. No more waiting for highlight packages. Go on air with fast turnaround of packages of the match or live event.

### Integrated Graphics Platform

Deliver your station's branded ID automatically with the integrated graphics platform that comes included. The platform generates a range of live graphics elements, including lower thirds and tickers, to enable full channel branding, eliminating the need for a dedicated graphics operator and graphics system. Integral use of XML for all metadata guarantees compatibility with any database or file system and enables the generation of automatic Program Guides and Now/Next graphics.



## Time Delay

Time delay enables you to stage material for time-based delivery to your viewers. Perfect for stations that deliver content across multiple time zones.

## Up/Down Conversion

For convenience and versatility, you can Mix HD and SD in your playlist and go on air. The system will scale up or down-convert the content on the fly.<sup>1</sup>

## Advanced Graphics Support

- Character Generator
- Secondary graphic events
- Multiple Tickers
- Picture In Picture/Squeeze Effects
- Graphics Animations
- Live event passthrough

## Fault-tolerant Operation

Our world-class hardware is built on rock-solid foundations. In the event that a playback or record channel is interrupted, the failover option ensures that continuous playback or recording is unaffected.

## Additional Features

- Scheduled Ingest Client
- Subclip Support (Clipping)
- Integration with Traffic Systems (XML)
- Watch Folder support

## Native Integration with EditShare EFS and FLOW Asset Management

Connecting various work groups in a TV station has its challenges and getting files to air quickly is crucial. FLOW alleviates the burden by acting as the station's asset handler, enabling departments and team-members to share, collaborate and deliver media to the playout scheduler. Station playout operators can easily find media that is tagged for playout by searching within their local client. A low-resolution copy of the programming content is quickly available for approval. Once approved, the operator can pull the file directly into the scheduler playout list and the system instantly links it to the high-res material. With FLOW's powerful Automation module, users can set up simple or complex workflows, increasing efficiency by removing mundane or labour-intensive tasks for the station's production and playout teams.

## Enterprise EditShare EFS Filesystem or Local Playout Storage

The latest playout platform comes fully equipped to play high-resolution media directly from highly available EFS Shared Storage systems, enabling content to get to air quickly and reliably. Sequences being completed directly from editorial programs such as Avid Media Composer or Adobe Premiere Pro can be on air in a matter of seconds. Additionally, VBOX Channel systems can support local playout storage, or both local and network storage for failover operation.

<sup>1</sup> XL Models only

The screenshot displays the EditShare playout control interface. The left pane shows a channel playlist for Channel3 (1000410101) at 13:33:10. The playlist includes various programs such as 'ANCHORMAN IN AUSTRALIA', 'HADRAN'S WALL', 'SKYFALL WORLD PREMIERE', and 'MOUNTAIN BIRDS'. The right pane shows a detailed view of a program segment, including the content name 'HADRAN'S WALL', duration, and a list of sub-clips (e.g., HADRAN'S WALL\_PART1, HADRAN'S WALL\_PART2, etc.). The interface also shows network status and control buttons like 'STOP', 'NEXT', and 'HOLD'.



## Server Models

Name	SKU	Channel Configuration
VBOX Channel LT LITE	VBOX-CHANNEL-HD-LT-LITE-2	1 HD Record Input 1 HD Playlist Output (H.265 rec/playback only)
VBOX Channel LT	VBOX-CHANNEL-HD-LT-4	1 HD Record Input 1 HD Playlist Output 1 Preview Output (Upgradable to 2 Full Playlist Outputs)
VBOX Channel XL	VBOX-CHANNEL-HD-XL-4	1 HD Record Input 1 HD Playlist Output 1 Preview Output (Upgradable to 2 Full Playlist Outputs)
VBOX Channel XL 4K	VBOX-CHANNEL-4K-XL-2	1 UHD Playlist Output 1 UHD Record Input or 1 UHD Preview Output
VBOX Channel XL IP 2110	VBOX-CHANNEL-HD-IP2110-4	1 ST2110 HD Record Input 1 ST2110 HD Playlist Output 1 ST2110 Preview Output (Upgradable to 2 Full Playlist Outputs)
Playlist Upgrade	VBOX-CHANNEL-1PL-UP	Add one additional playlist output channel to VBOX-Channel platforms, where hardware I/O is available. Converts Preview channel to full channel output with graphics and MCR automation playlist.

## Technical Specifications

### Hardware Specifications

- 2 RU rackmount server
- Intel platform CPU
- Mirrored SSD OS drives, hot-swappable, rear-accessible
- Windows 10 Professional
- Dual Port 10 GbE Network Card

*Additional local storage options are available<sup>1</sup>*

### Control Protocols

- VDCP, VTR machine control, and router control over IP (available external interface option for RS-422 to IP conversion)
- GPI for clip playback control (available external interface option)

### Popular Broadcast Codecs Supported

#### SD

- DV/DVCPRO25/50 (MOV, MXF OP1a, GXF, LXF)
- IMX 30/40/50 (MXF OP1a)
- MPEG2 I-Frame & Long GOP (MXF OP1a, MOV)

#### HD

- XDCAM HD, XDCAM EX, XDCAM 422 (MXF OP1a)
- DVCPRO HD (MOV, MXF OP1a)
- DNxHD (MXF OP1a)
- H.264/AVC (MP4, MOV)
- MPEG2 I-Frame & Long GOP (MXF OP1a, MOV)
- ProRes 422HQ, 422LT, 422, 422 PROXY (AVI, MOV, MXF OP1a)
- XL Models: AVC-Intra 50/100 (MXF Op1a)

#### UHD

*VBOX Channel XL 4K model:*

- H.264/AVC (MP4)
- H.265/HEVC (MP4)
- XAVC/AVC Ultra (MXF Op1a)
- DNxHR HQX, HQ, SQ, LB (MXF Op1a)
- ProRes 422HQ, 422LT, 422, 422 Proxy (MOV)

<sup>1</sup> All VBOX Servers with internal storage include RAID 6. Usable Storage is 75% of raw storage.