Acuitas®
Integrated Playout

Powered by AirBoss®

FS Florical Systems®

Powerful.
Robust.
Flexible.
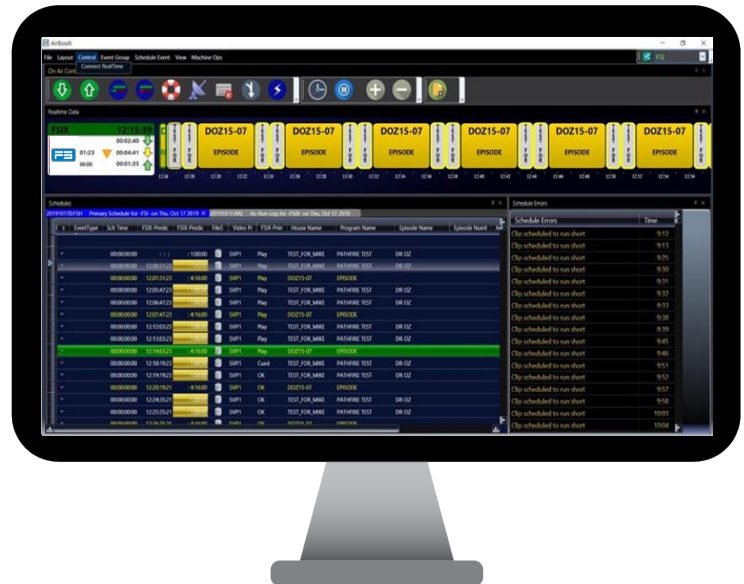
ACUITAS® is the world's most reliable, feature-rich and flexible integrated playout solution for broadcasters. The system provides powerful playout capabilities with support for a large variety of codecs and resolutions in both SDI and IP. Acuitas the need for external devices by offering built-in automation, graphics, effects, conversion, switching and much more. Whether you are a single station, network, or complex hub operation, Acuitas is powered by AirBoss a comprehensive automation software that allows you to streamline your operations by automating as much as you need. Acuitas utilizes state-of-the-art software technology to ensure your system is ready for industry changes including the transition to ATSC 3.0 and the support for HDR, UHD, and 4K. Even more than that, the Acuitas system is built using industry-leading hardware that includes HP servers and Matrox video cards which provide built-in redundancy and fail-safe mechanisms adding layers of protection to your revenues.

Key Features

- Integrated Playout
- HD/SD
- Up/Down/Cross Conversion - (live input and file based)
- Internal switching
- EAS device support

- Complete file-based workflow
- Integrated channel branding
- Join in Progress/Breaking news functionality
- Reliable "lights out" unattended automation
- Expandable from single channel to multichannel

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Scalability

Acuitas utilizes a modular system architecture that allows the system to be expanded and channels added without having to overhaul the core framework of the system. The scalability of Acuitas makes it an ideal solution for any size station and hub operations.

Enhanced Workflows & Automation

Acuitas is powered by Floricals AirBoss a comprehensive automation software that is designed to fit any size environment and control multiple channels from a single screen. AirBoss allows you to automate as much as you would like giving you the ability to control every step of your operation to optimize your workflow.

Technical Specification

Playback	• Up/Down/Cross Conversion (live input and file based) • HDV file playback • Analog blackburst reference input (tri-level or bi-level) • Automatic bypass during power loss • Supported video standards: 480i, 720p, 1080i, 1080p, HDR, UHD and 4K • Closed Captioning packet processing
Supported Video Codecs & Formats	• AVI file playback to 50 Mbps (Long-GOP) or 100Mbps (I-Frame), 4:2:2 or 4:2:0,MPEG-2 Program Stream and Transport Stream • MPEG-2 MXF, MPEG-2 GXF, MPEG-2 PS, and MPEG-2 TS • MXF (Op-1a) containing AVC-I, XDCAM, or DVCPro
Supported Audio Codecs	• PCM • MPEG 1
Audio Specification	• Embedded audio support • Audio-over w/internal playout of audio file • 16-in/32-out unbalanced AES/EBU audio channels • Up to 8 audio channels per SDI port (Stereo, 5.1, 7.1) • 48 kHz 24-bit audio
Graphics	• 2D DVE w/graphics behind and in DVE • Integrated graphics-two layers background, four layers foreground • Text crawls, school closings, EAS/Amber alert
Transitions	• Cut, Cut-Fade, Fade-Cut, Fade-Fade transitions
Traffic	• Traditional Traffic logs • BXF
3rd Party Device Support	• Acuitas supports a large number of external devices including but not limited to equipment from: Ross, Evertz, Utah Scientific, DasDek, BlackMagic, Baron and more. (Please contact us for more details)
Storage	• RAID 5 - 500 hours @ 35 Mbps standard, can be expanded up to 1000 hours @ 35 Mbps
Data	• SCTE 104 triggers • Ancillary data: VANC • Closed Captions: EIA-608, EIA-708