EPTV

Nonlinear news editing system offers regional broadcaster the right blend of format support, connectivity and flexibility

CUSTOMER:

Empresa Paulista de Televisão (EPTV), a 30-year-old Brazilian regional broadcaster and subsidiary of Rede Globo, Brazil.

Audience: 10.8 million

eptv.globo.com

APPLICATION:

EPTV operates three TV stations covering the Brazilian state of São Paulo and one TV station reaching the southern population of the state of Minas Gerais. The group produces much of its own programming in the way of news, series, and documentaries. Local news production is its hallmark, as EPTV provides a great deal of hard news coverage, for daytime broadcasts and archived (online) playback.

BACKGROUND

Like most television stations making the move to digital in 2007, EPTV was cautious. With studio and field cameras from multiple vendors, EPTV realized it needed a flexible news editing system that would address different acquisition and storage formats. EPTV also wanted a system that could be upgraded, in time, from SD to HD.

Fitting easily into an analog, SD, or HD workflow, the Grass Valley™ EDIUS® editing system made the grade. EDIUS also edits XDCAM and P2-based materials in HD and SD—seamlessly.

In 2007, EPTV began producing one its landmark shows, "Terra da Gente" ("Land of the People"), in high definition. That same year, the station group also began using EDIUS as its standard for news editing.

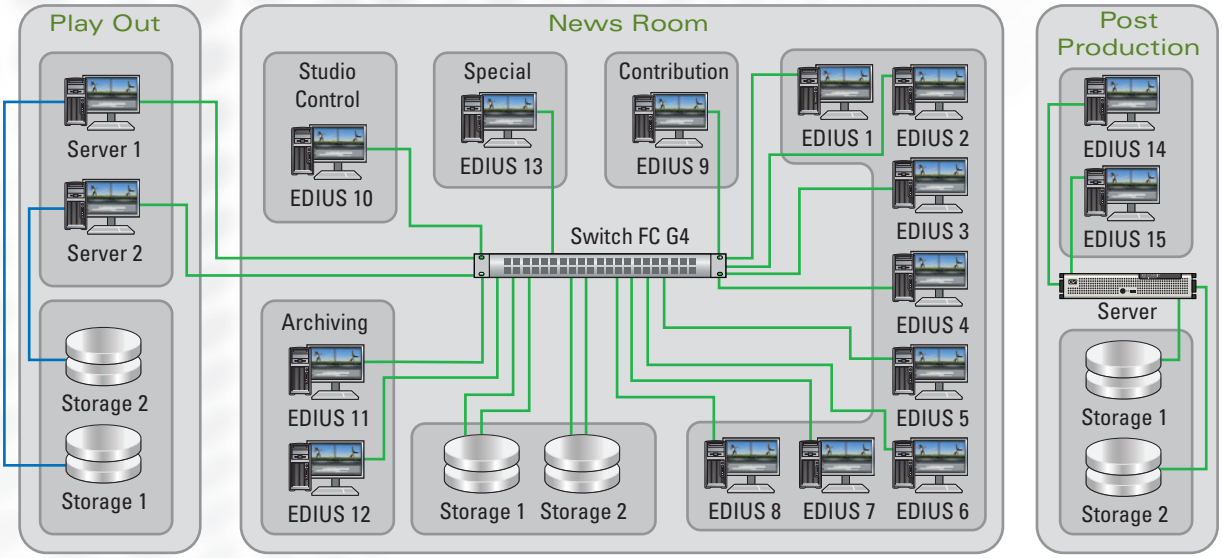
EPTV first implemented EDIUS at its São Carlos (state of São Paulo) broadcast center. There, EPTV uses 11 EDIUS work stations: six for hard news editing, one for generating and receiving contribution material, two for archiving, one for editing special editions, and one to capture and edit material generated in the studio. The system was originally designed for standard-definition work and communicates over a Gigabit Ethernet network. The 11 EDIUS stations, two ingest stations, a central server, the playout servers, and network-attached storage (NAS) all run efficiently over this network.

In 2008, EPTV upgraded its existing nonlinear news system in Campinas, replacing its previous one, which had been in operation since 2000. For the new installation, EPTV acquired 15 Grass Valley EDIUS HD editing stations each configured with an HDBX-1000 multi-I/O processor board. The newsroom makes use of 13 of the new EDIUS stations, with eight stations dedicated to hard news editing, one to recording material generated from the studio, one to editing special material, one to contribution, and two to archiving. The remaining two editing stations are used for TV program post production. The Campinas installation is a complete HD system backed up with a SAN. All editing stations are connected to the storage system via a 4 GB/s Fibre Channel network.

In December 2008, EPTV Campinas started transmitting its first digital TV signal, making it an all-digital facility.

This year, the Riberão Preto facility updated its news production operation to EDIUS. The editing suites at Riberão Preto followed the same configuration as in Campinas with the same number of EDIUS editing stations.

> "We chose EDIUS as a standard for our news editing because it offers perfect integration with the XDCAM HD format, our chosen capture format. EDIUS expertly manipulates this format, using direct MXF XDCAM without the need to de-encapsulate. This is true with all the format specs, and it really saves time during production."
>
> **Claudio Ghiorzi**
> Development Manager, EPTV



Later this year, EPTV plans to put a new editing facility into service in the Varginha (state of Minas Gerais) broadcast center with another 11 Grass Valley EDIUS stations. This would follow the same configuration as the São Carlos center but with full-HD production capabilities.

By the end of 2010 EPTV will have over 50 Grass Valley EDIUS news editing and playout stations.

NETWORK+STORAGE = FAST EDITING

At every EPTV broadcast center, all the EDIUS stations work with centralized storage. A dedicated ingest system uploads raw material to the storage system. The first data to be transferred to disk for storage are the proxies, and this is a very quick process. Having proxy material allows EPTV's news editors to immediately start cutting their stories, while the high-resolution material is being transferred to disk in the background. Once the high-resolution material is transferred to the server, EDIUS automatically substitutes it for the proxies.

ABOUT EDIUS HD

The EDIUS HDBX-1000 multi-I/O processor (MIP) design includes SDI and analog video, AES/EBU digital audio and balanced analog audio support, RS-422 device control, and SD and HD component outputs. It is also ideal for editing XDCAM and P2-based materials in HD and SD. The MIP is housed in a 3 RU rack-mountable chassis and can perform real-time up/down conversion. This ability makes it possible to simultaneously output SD and HD from the EDIUS HD system, directly from the EDIUS timeline.

The EDIUS HD Series uses EDIUS software to deliver true real-time editing and full-quality, full-resolution output of standard- and high-definition (SD and HD) materials as well as multi-track, mixed-format editing, compositing, chroma keying, titling, and timeline output capabilities.

The EDIUS HD system supports all popular SD and HD formats, including HQ, lossless, DV, DVCAM, HDV, MPEG-2, and uncompressed video. It also supports DVCPRO, P2, VariCam, XDCAM, XDCAM EX, and GFCam video, as well as DV and HDV cameras and decks.

"We've come to appreciate the great local customer service and technical support we receive from Grass Valley. This partnership has lasted because Grass Valley has provided the most flexible tools and technology we have required to remain one of the highest rated networks in Brazil. Our newest HD news editing facilities being installed in São Paulo will serve us for many years to come."

José Francisco Valencia, Director of Engineering, EPTV

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SUPPORT

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