



Case Study: Trinity Broadcast Network, Audio Production Upgrades

2 Control Rooms and Audio Booths

Challenge: Trinity Broadcast Network (TBN) is one of the largest television networks in the world. Their headquarters and main production studios are located in Tustin California. They knew the old analog Audio Systems needed upgrading to match their new HD Video System, so they hired the same design team that completed the HD Video project. The challenge was to keep the old system in place and functional while new Audio Control Rooms and Voice Over Booths were being constructed.

Solution: Working with TBN Chief Engineer Marv Vosper and Audio Production Manager Rick Maher, Craig and Gail designed 2 new Audio Control Rooms, 2 new Audio Booths and a ProTools Edit Suite. The heart of the system was based on state-of-the-art digital consoles and a MADI backbone for distribution. The Control Rooms interfaced with 4 existing television studios, a Front of House console and the Video Production Control Room.

The project, with an equipment budget of \$1.5 million, included analog and digital audio and video, network, fiber, control, reference and intercom signal types, and over 1,400 wires.

The Scope of Work included design, installation supervision, testing/commissioning and end-user training.

TBN has since hired PAC Engineering to engineer the redesign and oversee the installation of their major live-production studio.

Technologies:

- Solid State Logic C200 audio console with 4 “Stage Box” fiber interfaces, 64 Channel MADI I/F and 128 Inputs and Outputs
- Yamaha D2000 audio console with Analog, Digital and MADI interfaces
- Apple MacPro Edit Work Stations including Avid software and hardware
- RTS Intercom System
- Miranda Multi-Viewer and Signal Processing Systems
- Klein & Hummel, Yamaha, Meyers, Bogen, JBL and Genetec Speakers
- High Tech Industries Custom Console
- Cisco Network and HP Network Switches
- RME MADI Processing and Distribution
- Grass Valley Group Video and Audio Routers
- 360 System Audio Network Recorders
- Lexicon Reverb
- Linear Acoustic 5.1 Synthesizer
- Tascam CD Player/Recorder
- Sennheiser, Countryman, Neumann Microphones
- DBX Equalizer and Speaker Management System
- Avalon Microphone Pre-amplifiers



- Bittree Audio and Video Patchbays
- Aviom Personal Monitor System
- MOTU MIDI Interface
- Dolby Labs Multi-Channel Audio Processor
- Avocent KVM System
- Cedar Noise Reducer
- Crown Amplifiers
- Enco Music Record Server and Playback System
- Fostex 8 Track Recorder