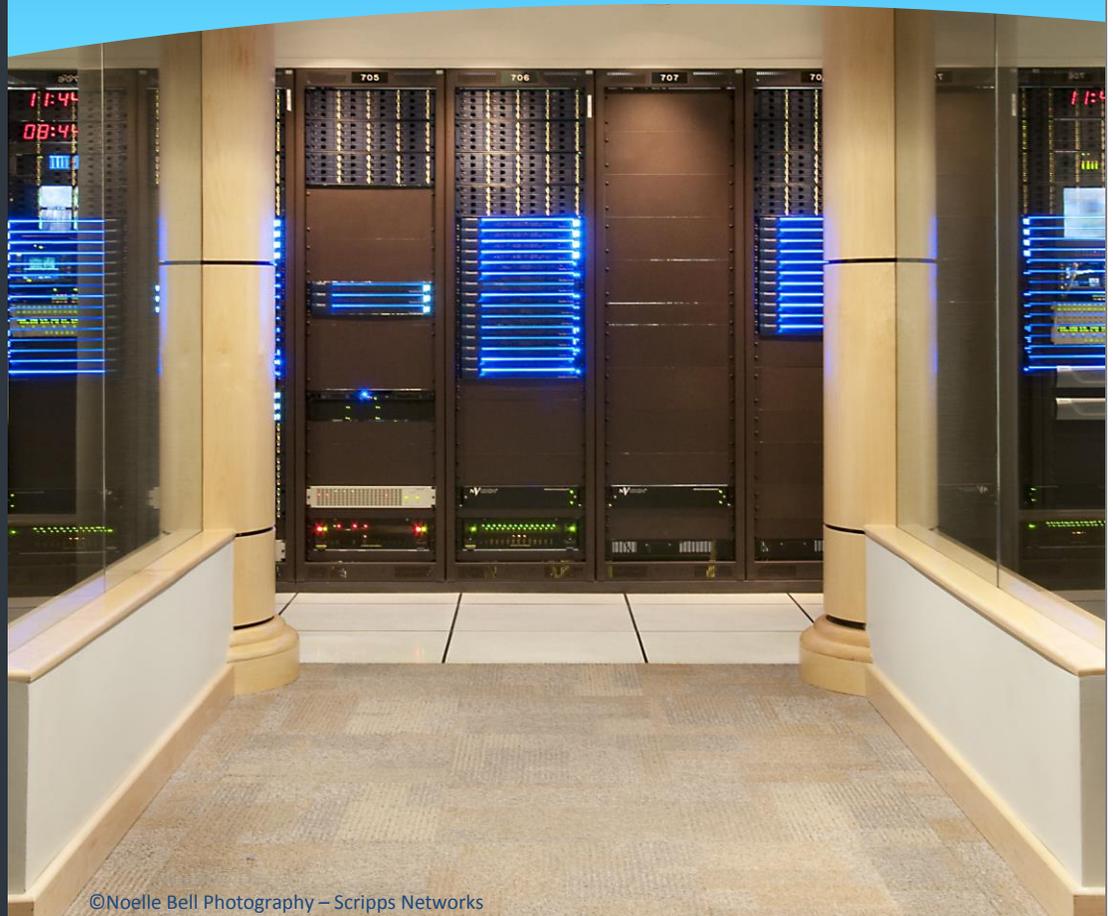


## Scope of Work

- Expand Broadcast Operations Center to accommodate future services
- Design and install system to upgrade Scripps BOC and BOC duplication area
- Procure equipment and material
- Expand existing server ports and storage
- Expand Omnibus automation systems
- Install outbound redundant path
- Upgrade Thomson/GV router from 64 x 64 to 128 x 128
- Replace control system for path with switchers master GPI panel
- Upgrade Omneon server, install new drives between playout A & B servers
- Upgrade QC station, Tektronix rasterizer with Dolby E
- Re-arrange 12 X 1 switchers
- Add three GPIO Buffer boxes, install five GPOs



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*“Our decision to award our Broadcast Operations expansion to Azzurro Systems Integrators was based on their team’s historical and extensive integration successes and our 16- year relationship. As projected, the Azzurro team completed our project on time, on budget and without a technical or operational disruption.”*

*- SVP, Broadcast Operations & Media Logistics, Scripps Networks*

## The Challenge

- Design and install a fully redundant HD/SD signal paths
- Fabricate infrastructure for program streams that run in parallel with existing playout systems
- Facilitate seamless switchover without disruption to on-air content

## The Technology

- Omneon Spectrum MediaDirector
- Omnibus Colossus Automation
- Evertz Terminal equipment
- Miranda Vertigo Character Generator
- Thomson/GVG Router
- Norpak Closed Caption/ V-Chip Inserter
- Teranex Format Conversion

## The Project

Azzurro Systems Integration completed a multiphase engineering project to enable High Definition playout direct from the server for two existing services, DIY Network and Fine Living Network, and future Scripps Networks programming services at the company's Knoxville, TN playout facility. In addition to DIY and Fine Living, the popular content channels include the Food Network, HGTV, Great American Country and Travel Channel.

Azzurro designed and installed fully redundant HD signal paths for each of the existing networks – plus future HD/SD program streams, some of which are to be used for the Travel Channel playout – in parallel with the existing playout systems. In addition, new Miranda Vertigo branding, Evertz master control switchers, fiber cards, SCTE 104 data embedders and signal processing were integrated into the workflow. The facility's Grass Valley router capacity was upgraded from 128x128 to 256x256, and the Omneon video server system was given increased storage capacity and supplementary HD playout ports. Additional Omnibus Colossus playout channels were added to support the new infrastructure.

The project also included the design and installation of a new fail over control system using the DNF GTP-32 solution. This allowed either of the two master control rooms to control the changeover of any of the 17 playout paths. The entire project upgrade was accomplished seamlessly and with no disruption to any on-air content.

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