

AUDIO, VIDEO AND CONTROL FOR GAMING INDUSTRY

# Thunder Valley Casino Resort

## Q-SYS Hits the Jackpot at Thunder Valley Casino Resort

📍 Sacramento, CA

Located just outside of Sacramento, California, [Thunder Valley Casino Resort](#) offers 250,000 square feet of gaming space, 14 restaurants and bars, a luxury 17-story hotel, an expansive outdoor pool and bar, and a 5,500 seat outdoor amphitheater. The casino's previous AV system consisted of disparate components that proved cumbersome and costly to support. To help solve this problem, the casino took a holistic approach to their needs and enlisted Q-SYS for audio, video and control.



“**Q-SYS is a truly exciting platform. From design through deployment, it was simple and intuitive to use, and the feature set is seemingly endless. We are absolutely thrilled with the results**”

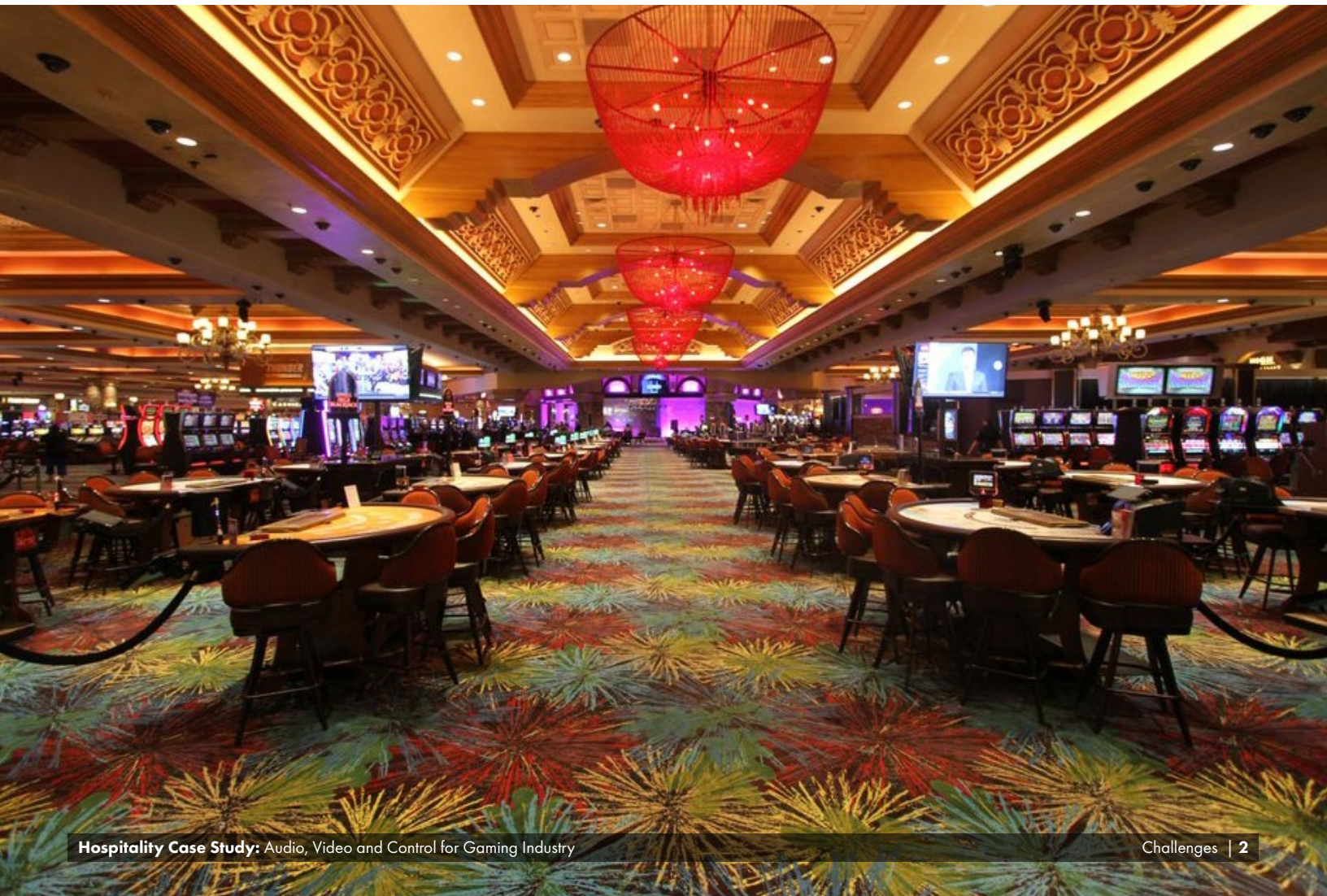
**Darren Scott**

Audio Video Manager at Thunder Valley Casino Resort

## Challenges

### Reducing Cost and Complexity

Redundant [Q-SYS Core 5200 enterprise cores](#) handle the audio, video and control throughout the venue. These Cores, utilizing standard DELL server hardware, allow the Casino to centralize all audio, video and control data processing in one location, while distributing network-based endpoints where needed. “Reducing the number of boxes on the network was critical for this upgrade,” explained Darren Scott, Audio Video Manager at Thunder Valley Casino Resort. “With Q-SYS, we didn’t need to deploy separate control processors or separate video processors. Combining all the processing, routing and control for over 100 network audio channels and dozens of native Q-SYS amplifiers, touchscreens and third-party peripherals into a single piece of processing hardware significantly reduces cost and complexity. And as large as the project is, we are only using about half of the available network channel capacity and only a fraction of our control processing capabilities, leaving plenty of headroom to continue scaling the system in the future.”





# Solutions

## Automated Audio Control

[Q-SYS AcousticDesign Series ceiling loudspeakers](#) are powered throughout the casino by CXD-Q Series network amplifiers provide. These native Q-SYS network amplifiers allow for full control and monitoring via [Touch Screen Controllers](#).

Thunder Valley took full advantage of the software-based features offered by Q-SYS. Paired alongside ambient sensing microphones, the [Continuous Ambient Compensator](#) component, within Q-SYS, measures ambient noise throughout the casino floor and automatically adjusts audio levels based on occupancy. This ensures comfortable audio levels at all times and removes the need for manual volume adjustments. Additionally, Q-SYS paging capabilities enable both live and pre-scheduled announcements. When an announcement plays, the volume of the background music automatically ducks so that the message is heard clearly.

## Simplified Software-Based Control

“We were really impressed by Q-SYS control capabilities,” said Darren Scott. “The tools available made it incredibly simple to deploy unique user experiences throughout the casino.” [Q-SYS UCI Deployment](#) features drag-and-drop control programming, which allowed the team to build UCIs specific to different locations without typing a line of code. For example, bartenders have specified zone control over TV channel, volume and source along with background music, while the executive management team can control their personal TV (channel and volume) in each of their offices.

The [Q-SYS Scripting Engine](#) gave the team access to a library of pre-built, third-party control plugins that enabled seamless integration of [Attero Tech Bluetooth audio interfaces](#) into Q-SYS.

This allows guests in the spa to connect their mobile devices in the treatment room and adjust audio via Q-SYS Touch Screen Controllers.

## Jackpot for Audio, Video and Control

Standardizing on a single-vendor audio, video and control solution brings on a number of benefits. Unlike with the previous system, integrators took full advantage of native Q-SYS devices, removing the need to program as much interconnection between devices, which resulted in expedited design and deployment. Further, it streamlines management and support of the AV system over time. “Q-SYS is a truly exciting platform,” said Darren Scott. “From design through deployment, it was simple and intuitive to use, and the feature set is seemingly endless. We are absolutely thrilled with the results.”



Q-SYS is a globally recognized manufacturer of audio, video and control (AV&C) solutions for huddle rooms to stadiums—and everything in between. Our systems make it easy for your team to design and integrate flexible, scalable solutions and deliver the native IT integration and standards-based technology your customers expect.

[qsys.com](http://qsys.com)

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