

INTEGRATED CONTROL FOR MULTIPLE MULTI-FUNCTIONAL SPACES

University of Southern Queensland

University of Southern Queensland Controls the Future with Q-SYS

📍 Australia

The mascot for the University of Southern Queensland (UniSQ) is a fitting one, a Bunya Pine - representing growth, strength and journeys. In just over fifty years, this ambitious university has similarly grown, elevating the education standard in regional locations within Australia as well as worldwide. To maintain this flurry of successes the UniSQ team remains committed to ongoing upgrades, this time focusing on establishing a cutting-edge control environment in their three campuses: Springfield, Toowoomba and Ipswich.



📷 Photos provided courtesy of University of Southern Queensland

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- Glen Gorton

Senior Technical Officer (AudioVisual) for the University of Southern Queensland

Challenges

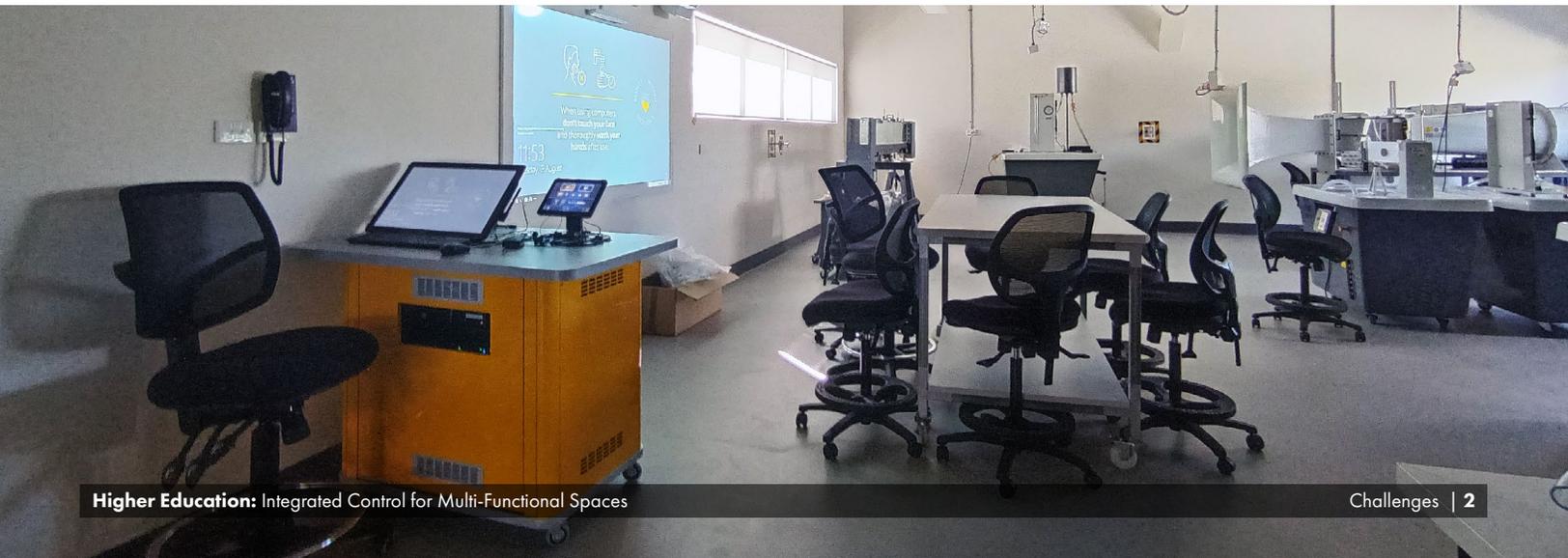
A Clear-Cut Vision

Across all campuses the University of Southern Queensland control requirements were clear cut, and anything but basic. The team required a solution that was robust enough to handle extensive third-party monitoring yet intuitive enough to enable their in-house team to learn and support their own systems. “We wanted to move away from the status-quo, and into a software-based system,” explains Glen Gorton, Senior Technical Officer (AudioVisual) for UniSQ. “We were thorough, trying out Q-SYS along with a number of competitors in a test environment. In the end, we were won over by the accessibility of the Q-SYS Platform and available training program, as well as the monitoring and management capabilities of Q-SYS Reflect Enterprise Manager.”



With the solution in place, the University of Southern Queensland team paired with [Technical Audio Group](#) (TAG) to design their system. The flagship space for new control design was the [F Block Engineering Lab](#) at the University of Southern Queensland’s Springfield Campus, along with multiple classrooms in Toowoomba and Ipswich. The typical classroom consists of a single projector, four ceiling microphones, a [Q-SYS I/O-8 Flex](#) ingesting microphone audio, a PTZ tracking camera and Android control panels. Nine classrooms in the Engineering Lab are controlled by a [Q-SYS Core 510i processor](#), with another Q-SYS Core 510i processor acting in redundancy. The remaining rooms are controlled using [Q-SYS Core 110f processors](#), a total of fifteen running an array of room types across the Toowoomba, Springfield and Ipswich campuses.

 Photos provided courtesy of University of Southern Queensland



Solutions

Third-Party Relationships

Room organization included an array of third-party manufacturers, all of which required control, monitoring and management via [Q-SYS Reflect Enterprise Manager](#). Fortunately, Q-SYS supports a robust array of third-party integrations through [Q-SYS Partners](#), all of which are Q-SYS-endorsed. The inclusion of third-party peripherals was a simple, user-friendly process, everything from displays and projectors to cameras and vision switching.

TAG even leveraged the power of [Q-SYS Open](#), a collection of open standards and published developer tools to enable third-party development within Q-SYS. With these tools, they created their own plugin that enables Q-SYS Reflect Enterprise Manager to gather deeper usage statistics not included the already existing [Zoom Room](#) plugin, such as adding the IP address to the status screen for all user components, as well as additional Zoom API commands. An example of this being the assurance that Presentation Mode is active for local sharing and would effectively switch to Meeting Mode while still sharing local content.

A Touch of Freedom

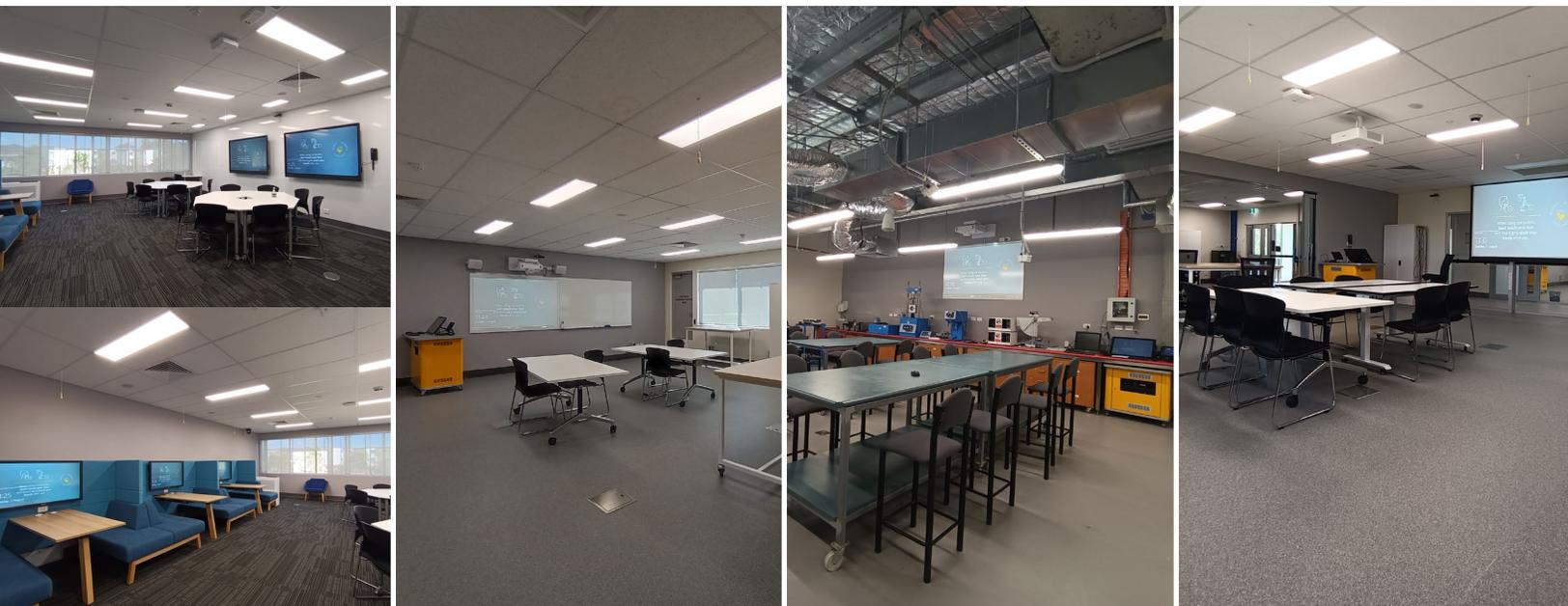
Another priority of the design was to maintain freedom from a particular manufacturer touch screen or iOS device. They focused the bulk of their efforts on Android touch screens, and developed an HTML based user control interface which runs on an Android tablet.

TAG was also able to incorporate official UniSQ style guidelines into the user control interface using CSS. “With Q-SYS there’s always a way,” explains Nathan Ashmore, Solutions Architect – Education of TAG. “It’s developer friendly, and between already existing resources and Q-SYS Open there’s an easy solution to virtually every situation. And with Q-SYS Reflect Enterprise Manager, we’re notified instantly if anything is amiss, no matter what campus the issue originates.”

The Future is in Control

With the University of Southern Queensland in-house team up and running, the Q-SYS promise has been fulfilled: offer a solution that allows implementers to go as deep as the installation requires, yet still be accessible enough to encompass a wide variety of potential users. With their software-based approach now well underway, Q-SYS has no doubt that this university is primed to meet the future head on.

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Q-SYS Equipment List

Model	Pcs Used	Description	Image
Core 510i	2	Q-SYS Audio, Visual and Control Processor Configurable onboard I/O via 8 open Q-SYS IO Cards slots Networked Channel Capacity: 256 × 256	
Core 110f	15	Q-SYS Audio, Visual and Control Processor Networked I/O: 128 x 128 Local I/O: 24	
I/O-8 Flex	10	Q-SYS Channel Expander 8 Software Definable Flex Channels Mic/line Input or Line Output Configuration Capable	
Q-SYS Scripting Engine	17	Q-SYS feature license Third-Party Control Plugins/Scripts Full Featured Scripting Component	
UCI Deployment License	17	Q-SYS software feature license Create and deploy custom UCI onto available control devices	
Q-SYS Reflect Enterprise Manager License	1	Q-SYS monitoring license Centralized Management Integrate AV Assets with IT Systems	



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.

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