

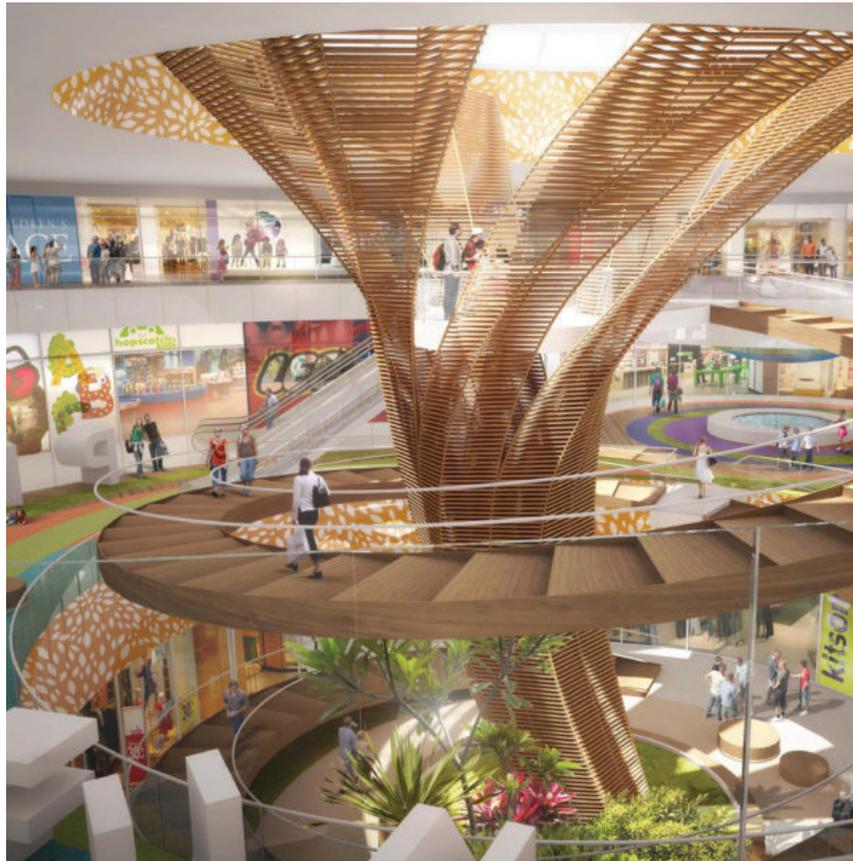
WIDE-AREA PAGING AND SOFTWARE-BASED CONTROL

# Oxigeno Human Playground

## Q-SYS Platform Enables Fun for All Ages at Oxigeno Human Playground

📍 Heredia, Costa Rica

In Heredia, Costa Rica, [Oxigeno Human Playground](#) is bringing its own unique take on “fun for all ages.” The venue offers shopping, entertainment, food, a huge variety of events and numerous activities for kids and adults who enter its doors. While planning for the brand new facility, it became clear that the AV solution would need to be flexible and future-ready. The venue deployed the [Q-SYS](#) Audio, Video and Control Platform, including Q-SYS loudspeakers and amplifiers.



“From the ease of installation to the experience working with Q-SYS, we are absolutely thrilled with the results.”

**Gustavo Segura**

General Manager, Oxigeno Human Playground

# Challenges



### Complete AV&C Ecosystem

Oxigeno was looking to deploy a single vendor AV&C solution that delivered on project requirements, but was prepared for future growth and change.



### Comprehensive User Control

The system needed to provide a simple, but robust user control interface (UCI) for day-to-day operations.



### Quality Sound Delivered

The venue was looking for a loudspeaker solution to round out the perfect AV experience.

Oxigeno was looking for an AV solution to support a number of venue-wide applications, such as background music and wide-area paging, while enabling a unique experience for each different area in the 1.2 million ft<sup>2</sup> venue. Construction deadlines also meant the venue needed an AV system that was quick to integrate without compromising on the overall vision. The venue worked with integrator [AV Gurus](#) to centralize their AV&C processing in a single location, while distributing the necessary I/O endpoints to each zone. This allowed for the flexibility in functionality while keeping the installation simple, as there was no need for additional processing hardware in any of the individual zones.



# Solutions

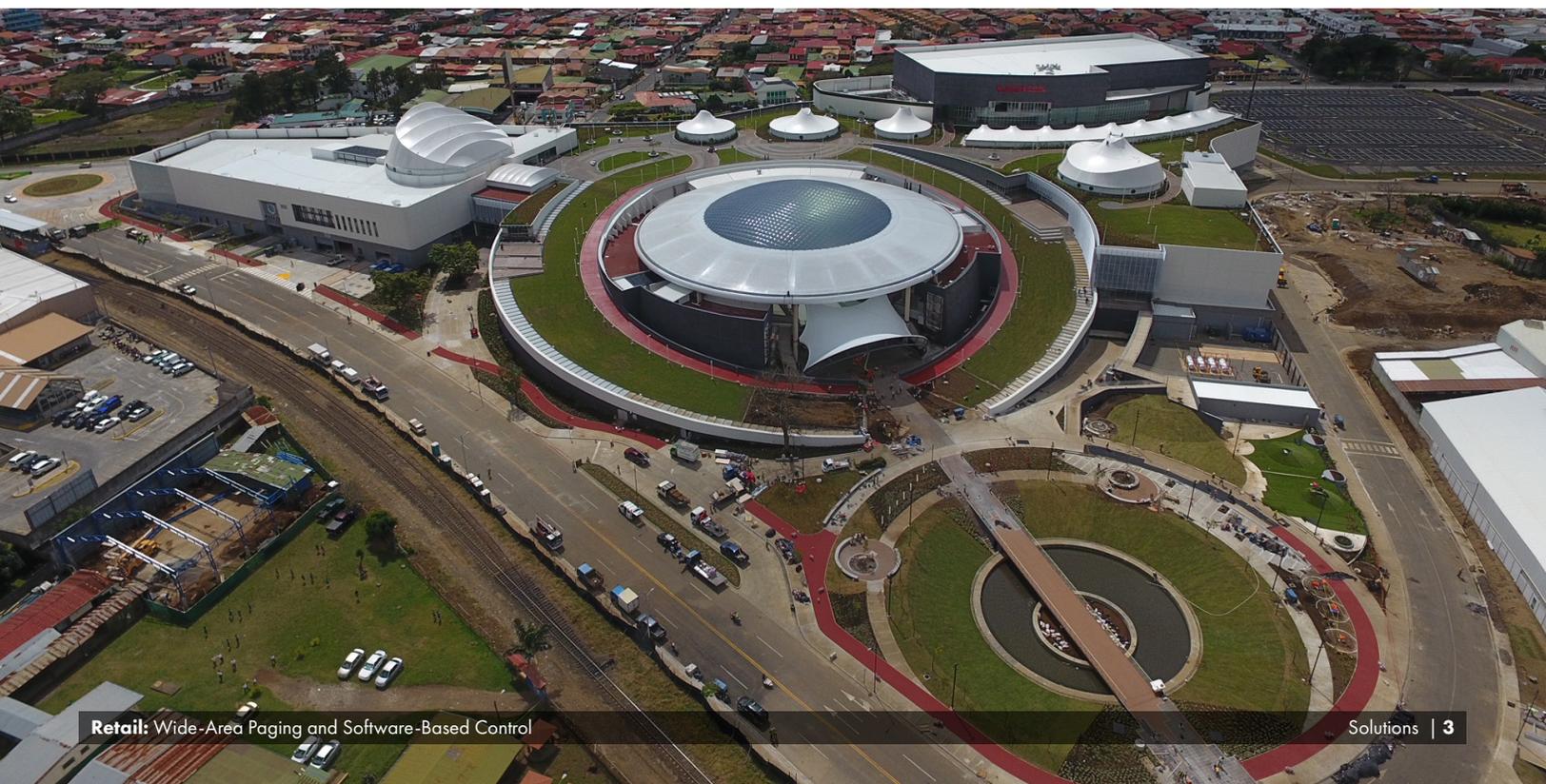
## Software-based AV&C

The Q-SYS Core 510i processor (now available as the updated [Q-SYS Core 610](#)) sits at the heart of the system, routing and processing all audio, video and control elements of the system. By choosing Q-SYS, Oxigeno deployed a fully integrated, software-based audio, video and control solution that delivers the right features and functionality without the need for extraneous, cumbersome hardware that a traditional AV system would require.

Oxigeno took full advantage of the software-based architecture, deploying comprehensive zone paging throughout the venue. They deployed both [Q-SYS network page stations](#) (hardware-based) and Virtual Page Station components (software-based). System operators have the option of live paging for emergency announcements and notifications, or creating pre-recorded messages to be scheduled or manually played in any of the zones. By utilizing Virtual Page Stations, operators also have access to prerecorded messages and zone distribution from any touchscreen in the venue, greatly simplifying day-to-day operations.

The installers added the software-enabled multitrack audio player (feature license) to locally store audio tracks for the venue's background music (BGM). Similar to the paging layout, the team setup 12 different BGM zones that can playback from any of five software-based Audio Players.

They also combined message scheduling capabilities with [Q-SYS BGM](#) and paging/ducking capabilities. Oxigeno offers potential advertisers the opportunity for tailor-made audio advertisements that are relevant to specific zone/location that they are played in, schedule their deployments and automatically duck the BGM in and out during this process.



## Solutions

### Go Native

CXD-Q Series network amplifiers (consider the [CX-Q Series](#) network amplifiers) power a selection of over 450 [Q-SYS AcousticDesign Series](#) loudspeakers throughout the venue. The CXD-Q Series network amplifiers are native to the Q-SYS Platform, allowing for quick integration along with full control and monitoring via Q-SYS.

Furthermore, pairing Q-SYS amplifiers with QSC loudspeakers allowed park installers to enlist Intrinsic Correction™, a QSC technology that provides custom QSC loudspeaker voicings that optimize sonic performance and reduce installation time by removing the need for installers to tune the loudspeaker and instead allowing them to concentrate on tuning the zone.

With ceiling heights varying throughout, the team needed to deploy a mix of ceiling-mount, pendant-mount and surfacemount loudspeakers. This was no issue with the mix & match capabilities of the AcousticDesign Series, which maintain consistent sonic characteristics across the portfolio's various enclosure types. This ensures that Oxigeno visitors won't experience any level of audio transition as they move between audio zones.

### Third-Party Integration

There are also a number of ancillary areas, including a number of outdoor gardens, which can play host to events and parties. Since these areas don't require permanently installed audio gear, the team added [Q-SYS Attero Tech wall plate I/O wall plates](#), which can give them quick access to Q-SYS audio feeds for BGM support. If there is a DJ or other performer in one of these areas, the wall plates can act as on-ramps into the Q-SYS Platform, which can be fed to any of the BGM zones inside the venue.



Retail: Wide-Area Paging and Software-Based Control



# Solutions

## Bringing It All Together

Utilizing the [Q-SYS UCI Editor](#) feature license, AV Gurus created a custom, simple user control interface (UCI), deployed on [Q-SYS Touch Screen Controllers](#). The UCI gives system operators full control of BGM (playlist selection, routing, volume level) and paging (live and pre-recorded). It also includes an amplifier status page. In the event of a fault, operators will see an LED notification with an indication of where the amplifier is, enabling the support team to minimize AV system downtime.

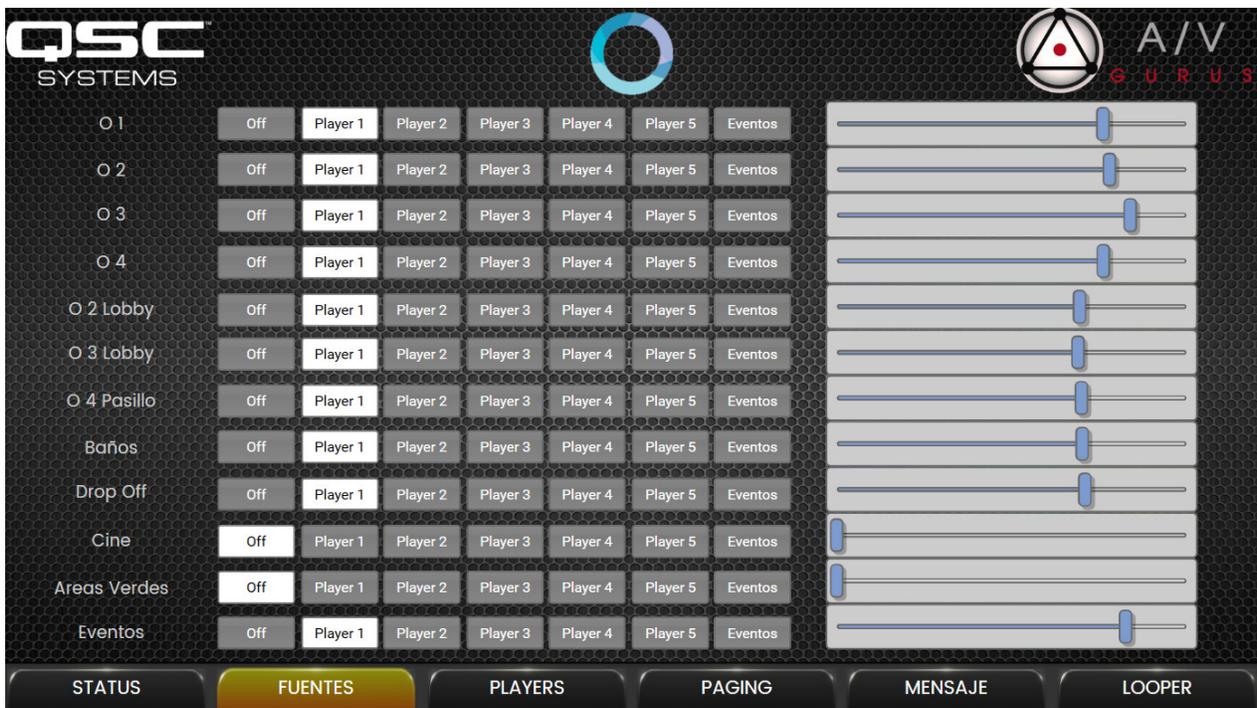


Zone Paging UCI

## End-To-End Q-SYS Solution

Choosing the Q-SYS Platform helped in all facets of the project, while also preparing Oxigeno for the future. Its software-based architecture, native devices and drag-and-drop control programming enabled simpler and faster installation, reducing overall costs. As the system needs grow and evolve, Oxigeno will be able to scale the system without the need for additional control processing hardware or complex programming.

“Our AV requirements for this project were very specific, and Q-SYS has delivered beyond our expectations,” explained Gustavo Segura, General Manager of Oxigeno Human Playground. “From the ease of installation to the experience working with Q-SYS, we are absolutely thrilled with the results”.



Background Music UCI

# Q-SYS Equipment List

Model	Pcs Used	Description	Image
Core 510i (now available as the updated <a href="#">Q-SYS Core 610</a> )	2	Q-SYS Integrated Core Audio, Video & Control processor Network I/O: 128 x 128 8x I/O audio card slots	
<a href="#">COL4</a>	2	Network I/O Card Analog Line Output	
<a href="#">CIML4</a>	3	Network I/O Card Mic/Line Analog Input	
<a href="#">CXD4.3Q</a>	8	CXD-Q Series Networked Amplifiers Four-channel Q-SYS network amplifier with 4 mic/line inputs 1400 W/ch at 8 Ω	
<a href="#">CXD4.5Q</a>	2	CXD-Q Series Networked Amplifiers Four-channel Q-SYS network amplifier with 4 mic/line inputs 2000 W/ch at 8 Ω	
<a href="#">CXD8.4Q</a>	1	CXD-Q Series Networked Amplifiers Eight-channel Q-SYS network amplifier with 8 mic/line inputs 500 W/ch at 8 Ω	
<a href="#">CXD8.8Q</a>	5	CXD-Q Series Networked Amplifiers Eight-channel Q-SYS network amplifier with 8 mic/line inputs 1000 W/ch at 8 Ω	
<a href="#">AD-P6T</a>	43	AcousticDesign Series pendant-mount loudspeaker, 6.5 in	
<a href="#">AD-C6T-LP</a>	34	AcousticDesign Series ceiling-mount loudspeaker, 6.5 in	
<a href="#">AD-C6T</a>	298	AcousticDesign Series ceiling-mount loudspeaker, 6.5 in	
<a href="#">AD-C4T</a>	54	AcousticDesign Series ceiling-mount loudspeaker 4.5 in	

# Q-SYS Equipment List

Model	Pcs Used	Description	Image
<a href="#">AD-S4T</a>	43	AcousticDesign Series surface-mount loudspeaker 4.5 in woofer / 0.75 in tweeter	
<a href="#">TSC-7w</a>	2	Q-SYS Touch Screen Controller (wallmount) 7 in (178 mm) screen dimension 800 x 480 resolution	
<a href="#">PS-1600G</a>	2	Network Page Station Gooseneck Microphone Capacitive touch, programmable keypad	



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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