



Allegiant Stadium is an technologically-advanced global events destination

CASE STUDY: ALLEGIANT STADIUM

JMA Wireless delivers a sustainable, future-proof connectivity solution at Allegiant Stadium

OVERVIEW

World-class stadium connectivity

Allegiant Stadium is the home to the Las Vegas Raiders and is conveniently located adjacent to the Las Vegas Strip. It is a fully enclosed and climate-controlled facility to accommodate 65,000 fans. The technologically advanced stadium hosts world-class entertainment, including concerts and special sporting events. Even before the construction, the management team realized that to offer a best-in-class fan experience, a seamless connectivity solution that could cover every inch of this facility was needed. Realizing

WiFi, though important, can't provide the fans with the best coverage and network capacity option, the management team decided to invest in a world-class DAS connectivity solution.

CHALLENGE

Not all DAS solutions are the same

Matt Pasco, VP of Information Technology for Las Vegas Raiders, went through a detailed list of all the important considerations to offer the best-connected experience for the fans while reducing buildout and operating costs for stadium owners and broadcasters.



1.8 million
sq. ft. facility



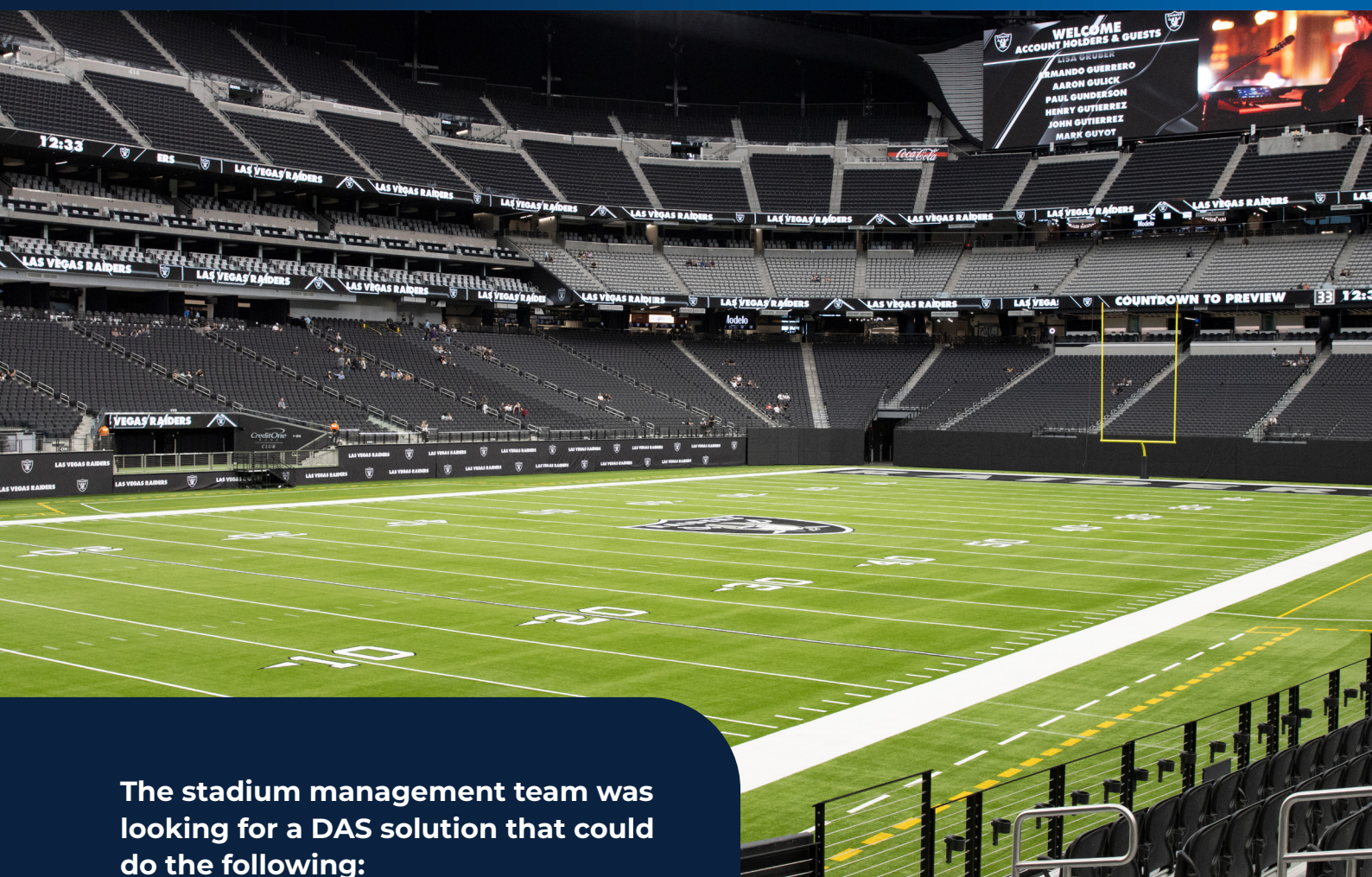
65,000
fans



10 event
spaces



425 trees
planted



The stadium management team was looking for a DAS solution that could do the following:



Offer the best fan experience for the **65,000 fans**.



Seamless connected experience across the entire **1.8 million sq. ft. facility**.



Flexibility to **grow with ease** without being ripped and replaced in the near future.



Streamline maintenance, improve profitability, and provide premium fan services.



Ensure teams, operations, security, and retail are **all connected** simultaneously.



Ensuring **all US carriers** with different spectrum bands are supported on a single neutral host.



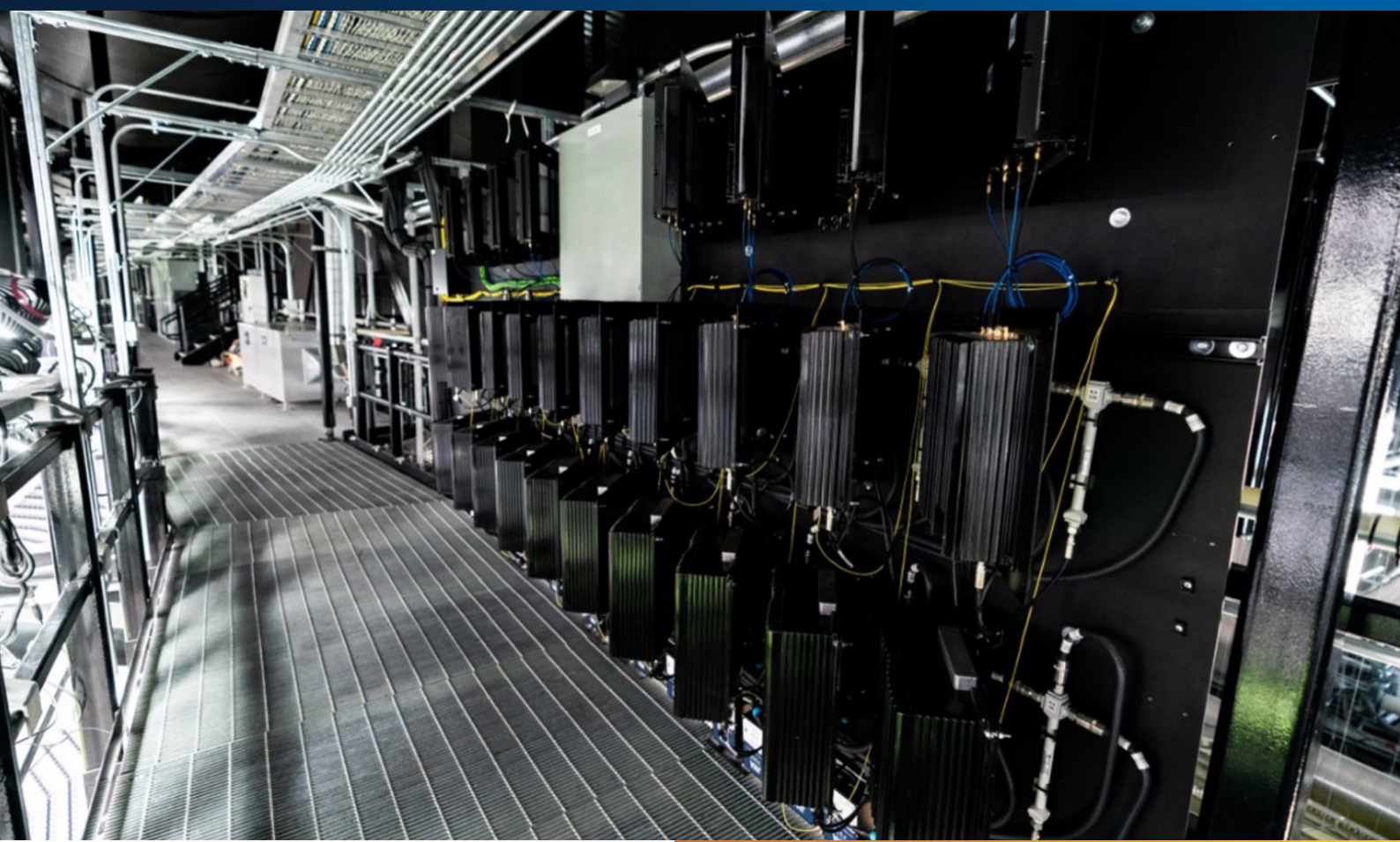
Space and power management for the DAS solution **must conform** to the build requirements and be integrated with the environment.

SOLUTION

Transforming stadium connectivity and performance

After careful consideration, JMA's DAS was selected, as it offered the best radio technology, supporting both 4G and upgrade path to 5G NR from day one. JMA DAS enabled carriers to deploy 5G low and mid-band technology without additional cost or changes to the DAS system. JMA DAS system covered all major licensed spectrums, from 600MHz to C-band, and was ready for the full 150MHz CBRS spectrum deployment, providing ubiquitous coverage over the entire stadium. JMA's DAS platform ensured the stadium was 5G ready, and it gave the IT team managing the stadium the ability to add a private wireless network easily to the existing venue infrastructure without a rip and replace.

During the deployment of the DAS, a custom installation solution was required due to space and power constraints. Again, JMA stepped up to deliver a solution that was secure, easy to mount, saved on footprint, and flexible.



RESULT

Elevating the fan experience

Allegiant's IT team deployed a sustainable connectivity solution throughout the stadium, utilizing an agile wireless infrastructure from JMA to support various untethered applications. A network that, in addition to offering an immersive fan experience, can also deliver future applications to enable the following:

Agile orchestration: Enabling field and media operations with deterministic latency and performance, enhanced control, and cost savings.

Enhanced security: Powering wireless sensors, monitoring equipment, gate entry, and parking security.

Media streaming: Creating broadcaster-ready venues that streamline setup time, lower video latency, and enable camera agility.

Enhanced athletics: Monitoring athletic performance to deliver better health, safety, and analytics that improve performance.

A world-class connectivity solution consisting of 75 high-band zones and 44 low-band zones in the main seating bowl, with a total of **117 high-band and 86 low-band zones** throughout the venue, was delivered.



Las Vegas has really become the capital of the world for large-scale sporting events, and to run those events effectively and provide a premium experience for our guests, we need the best wireless network in the world. Connectivity is like running water: It must be plentiful for everyone, it always needs to work, it must be seamless. JMA and their technology has performed extremely well in the building and across our campus. I'll put this building up against any in sports in terms of performance and reliability.”

MATT PASCO, VP OF TECHNOLOGY
LAS VEGAS RAIDERS

About JMA Wireless

JMA Wireless is the leading global innovator in mobile wireless connectivity solutions that ensure infrastructure reliability, streamline service operations, and maximize wireless performance. Employing powerful, patented innovations, their solutions portfolio is proven to lower the cost of operations while ensuring lifetime quality levels in equipment and unrivaled performance for coverage and high-speed mobile data.

JMA Wireless solutions cover macro infrastructure, outdoor and indoor distributed antenna systems, small cell solutions, and virtualized RAN software. JMA Wireless corporate headquarters are located in Liverpool, NY, with manufacturing, R&D, and sales operations in over 20 locations worldwide.

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