

MCA

Osage CASINO HOTEL



Case Study | Osage Casino and Hotel

Enhancing Guest Connectivity: Tulsa's Premier Hospitality Complex Elevates Mobile Experience with a Comprehensive In-Building Wireless Solution

OVERVIEW

Osage Transforms Complex and Wireless Connectivity

Located in the vibrant heart of Tulsa, Oklahoma, the Osage Casino and Hotel recently unveiled its \$160 million expansion, adding 247,000 square feet of luxury. The 141-room hotel, adorned with custom artwork by Osage tribal artists, and a casino featuring high-stakes tables and modern electronic games, exemplify top-tier entertainment and comfort.

To ensure seamless connectivity integral to guest comfort, Osage Casino and Hotel engaged Longent LLC, now a proud member of the MCA family of companies since 2019.

In collaboration with JMA Wireless, a global leader in mobile wireless technology, Longent designed and implemented a state-of-the-art wireless system that enhances the overall guest experience throughout the complex.

This partnership was crucial for integrating the new system with the existing campus-wide network, aiming to create a seamless and unified communications infrastructure to support the center's diverse array of artistic and academic activities.

**Ensuring
Seamless
Integrated
Coverage for
Expanded
Facilities**

Deploying and
Integrating Existing DAS
Infrastructure within New
Infrastructure

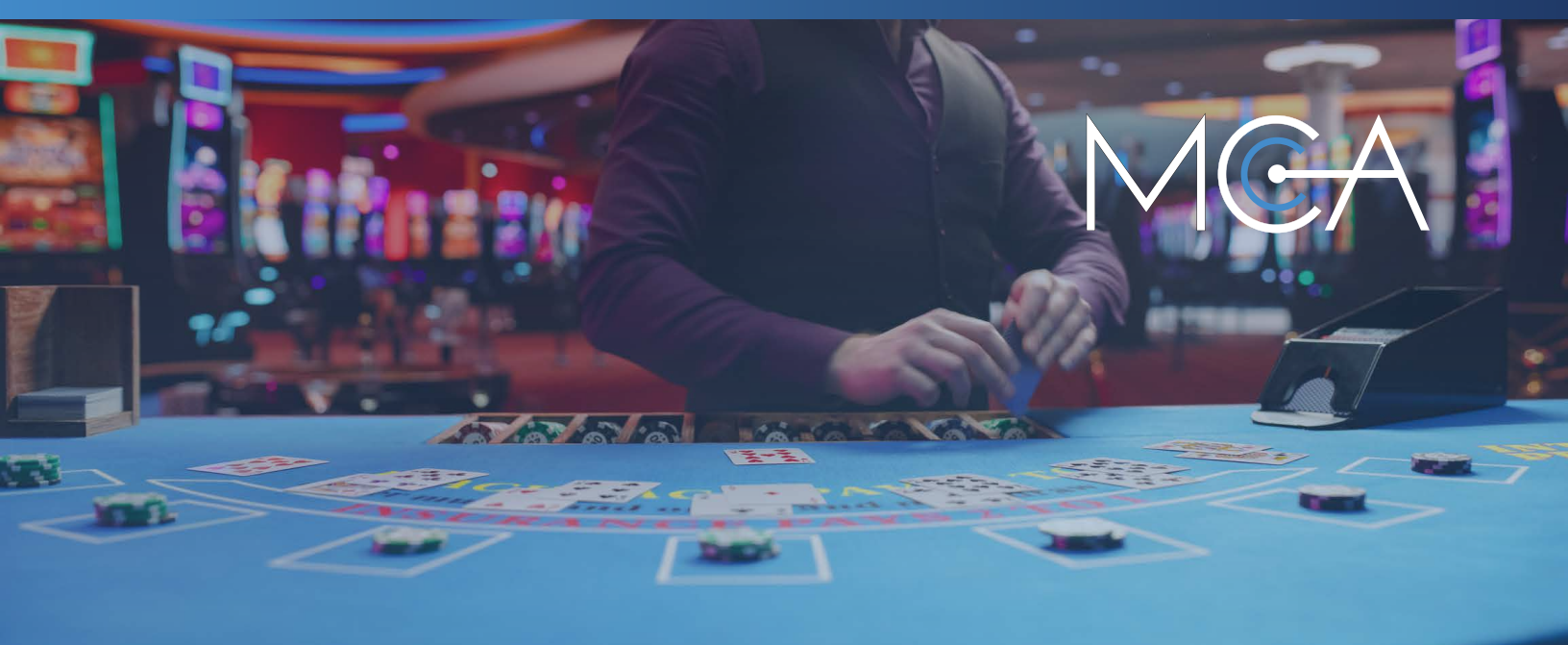
Superior Network
Performance

Enhanced Voice Clarity
and Cellular Coverage

Cost-Effective
Implementation

System Flexibility and
Scalability

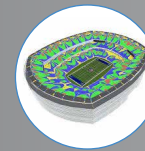
Compatibility Between
New and Existing
Solutions



Distributed Antenna System Integration



DAS Head-Ends and Remote Units



iBwave RF Engineering and Design Services

“The Osage Casino project is another effective example of how one of many MCA financial models accomplished the customer’s goal. Osage Casino and JMA Wireless were exemplary partners in this venture, and together we worked to accomplish a very successful project.” — Rick Youngbar, *Former MCA Vice President*

CHALLENGE

Dense Wireless Network Expansion for a Growing Entertainment Complex

The In-Building Wireless Solutions Team at MCA, formerly Longent, along with JMA Wireless, faced significant challenges in ensuring the Osage Casino and Hotel could deliver a seamless and engaging guest experience through enhanced mobile connectivity. Large entertainment venues like this one are constructed with materials that naturally block cellular signals.

Moreover, the expansive layout of the Osage complex, which attracts thousands of guests to its casino, convention spaces, restaurants, bars, and brewery, posed a densification challenge. This term refers to areas where a high concentration of mobile users creates a substantial demand for cellular service.

The primary hurdle was implementing the system in a still-under-construction venue and ensuring it was fully operational in time for the grand opening. This required precise coordination to integrate advanced wireless solutions that could overcome structural impediments and support high traffic volumes effectively.

SOLUTION

Wireless Equipment Delivers with Smallest Industry Footprint

MCA's In-Building Wireless Solutions Team selected the JMA Wireless TEKO DAS—a compact, rack-based distributed antenna system known for its minimal industry footprint, 30 to 70 percent smaller than similar products.

This efficient design currently supports two carriers across the 1900 MHz and 2100 MHz bands, with scalable options to incorporate additional carriers in the future.

This scalability ensures the system's longevity, enabling the casino and hotel to expand their capabilities using existing infrastructure to include new carriers or technologies as they emerge.

The phased deployment of the JMA two-sector solution was completed in just fourteen weeks, timed perfectly with the construction phases of the new events center to ensure a seamless installation process coordinated with the facility's general contractor.

RESULTS

Strong Partnership Yields Project Success

The Osage Casino and Hotel now enjoys premium wireless communications, facilitated by JMA Wireless technology. Guests experience uninterrupted coverage throughout the complex, enhancing their ability to share their exciting moments on social media seamlessly.

MCA's In-Building Wireless Solutions Team played a critical role in this success, collaborating closely with the casino's executive and operational teams to overcome challenges and ensure the project remained on schedule and within budget.

JMA Wireless provided robust support throughout the project, from design assistance and cutting-edge technology to ongoing support during the installation process. This strong partnership between JMA Wireless and MCA's IWS Team led to exceptional results and a highly satisfied client.

OUR TEAM

20+ Years of Experience with 10,000 +Successful DAS Deployments

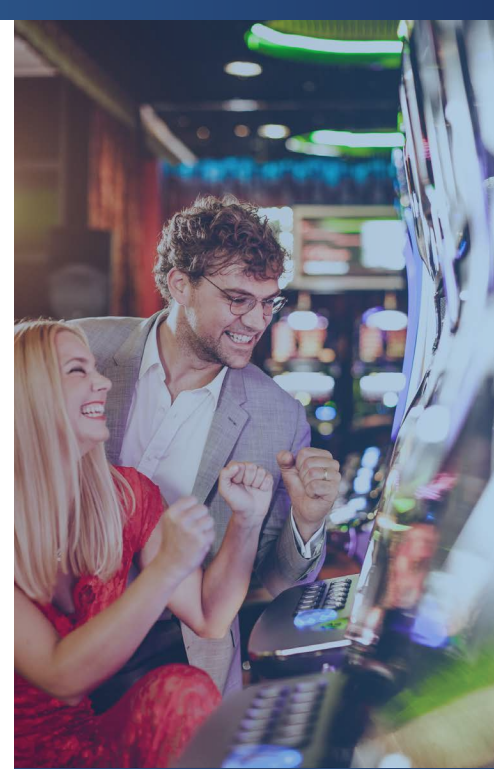
At MCA, our In-Building Wireless Solutions (IWS) team excels as a top-tier integrator of in-building and expansive campus wireless solutions.

We offer unparalleled engineering design, project management, implementation, commissioning, and maintenance services. Our expertise encompasses engineering and installing Commercial Distributed Antenna Systems (DAS), Private LTE/5G systems, Public Safety ERRCs, Wi-Fi, and both multi- and single-operator systems within diverse public and private venues.

Our team's deep knowledge and innovative approach empower us to design customized, future-ready solutions that effectively address our clients' wireless coverage and capacity requirements. Leveraging a carrier-neutral strategy, we deliver cutting-edge, multi-operator DAS networks for corporate offices, hospitals, universities, airports, shopping centers, and more throughout the United States.

OUR PROJECT PARTNER

Headquartered in Syracuse, NY, JMA Wireless (JMA) is an American company accelerating revolutionary changes in mobile connectivity with cutting-edge products that enable faster, more reliable, and more secure networks for consumers and businesses. JMA delivers software-driven, carrier-grade solutions designed specifically for in-building and outdoor use, offering superior performance, coverage, and stability for the most advanced and highly dense networks worldwide.



"We are confident our choice of the JMA/TEKO solution and MCA as the integrator provides our guests with outstanding cellular coverage."

Joe Roybal
Chief Information Officer
Osage Casino and Hotel

JMA WIRELESS

The logo for JMA Wireless is displayed in white text against a dark blue background. The background image is a close-up of a roulette table, showing the green felt, the roulette wheel, and a roulette ball. The lighting is dramatic, with blue and green tones.

About MCA

MCA is one of the largest and most trusted technology integrators in the United States, offering world-class voice, data, and security solutions that enhance the quality, safety, and productivity of customers, operations, and lives.

More than 65,000 customers trust MCA to provide carefully researched solutions for a safe, secure, and more efficient workplace. As your trusted advisor, we reduce the time and effort needed to research, install, and maintain the right solutions to make your workplace better.

Our team of certified professionals across the United States deliver a full suite of reliable technologies with a service-first approach. The MCA advantage is our extensive service portfolio to support the solution life-cycle from start to finish.

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The MCA logo is displayed in white on a dark blue background. The letters 'M', 'C', and 'A' are in a clean, sans-serif font. The letter 'C' is stylized with a blue circular graphic element inside it, resembling a signal or a network node.