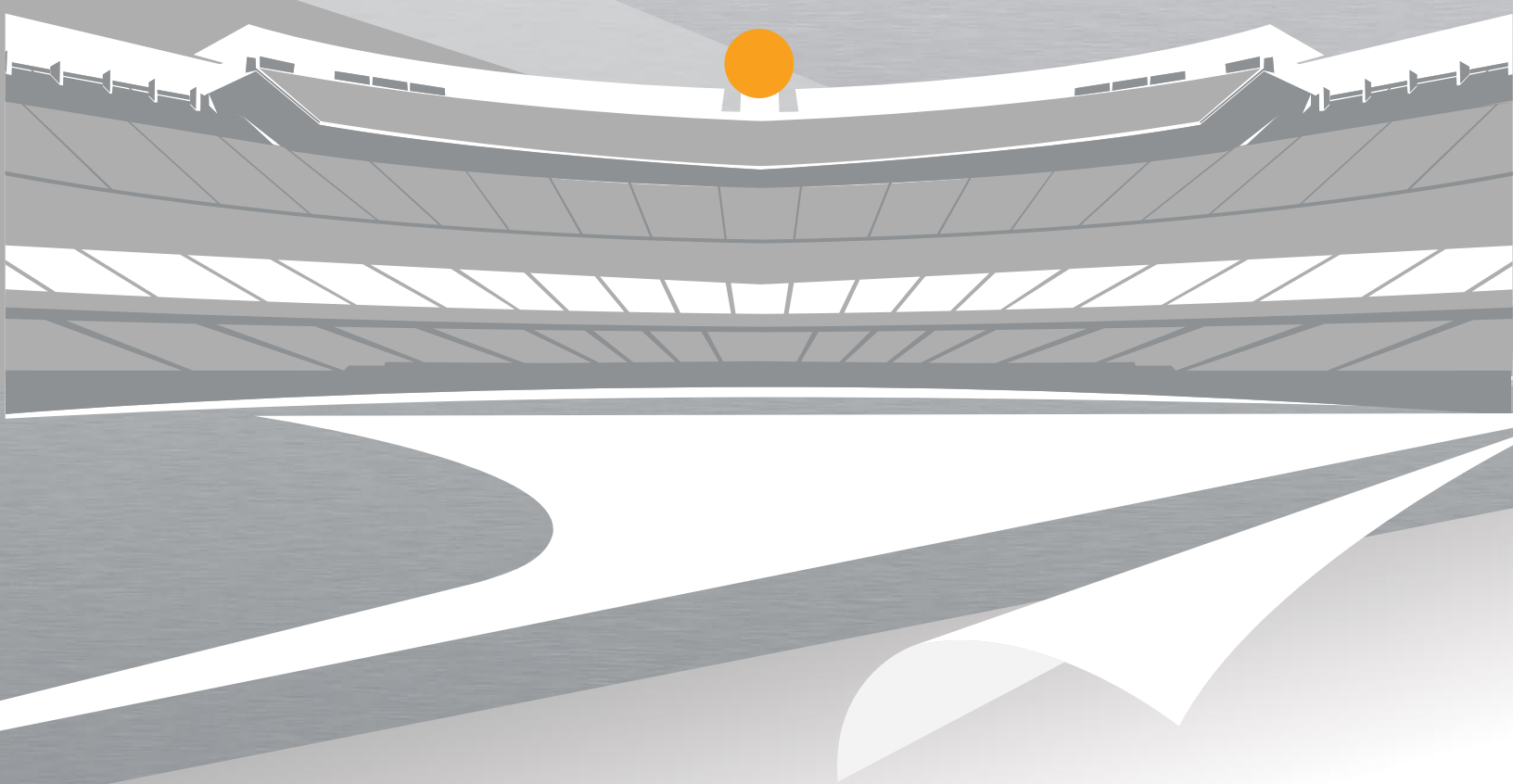


DESIGNING A FLEXIBLE WI-FI EXPERIENCE TO
ALIGN WITH AN INNOVATIVE LARGE VENUE

Problem. **Solved.**



Designing a Flexible Wi-Fi Experience to Align with an Innovative Large Venue

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Wi-Fi connectivity in sports and entertainment venues can be a deal breaker—it can determine whether a fan has a positive experience or not, even if their team wins or they see their favorite band. That’s why audiences demand high-speed Internet access in these venues. It’s an opportunity for them to engage on a deeper level and share their good times with friends and family. Providing seamless, reliable Wi-Fi throughout an entire venue is no longer a luxury. It’s essential. But the unique environment of the arena can pose several issues when it comes to Wi-Fi design and deployment.

BENEFITS FOR VENUE OWNERS AND MANAGERS

- Flexible access points for changing event types
- High quality connectivity
- Cost-effective design and engineering

The Problem: Dynamic Venue Layout Poses Wi-Fi Challenges

One of the benefits of the dynamic layout of a well-known arena in California, is the ability to configure seating for different types of events, such as hockey games, basketball games and concerts. Because the seating is customized for each event, placement of permanent access points would not provide adequate Wi-Fi connectivity for all visitors all the time. While temporary seats offer the best option for optimal views for many types of events, it’s critical to supply them with the same quality Wi-Fi as permanent seats.

In addition to customizing the seating for each event, the scoreboard is retractable since it’s not needed during concerts or other non-sporting events. However, this changeable positioning also created a unique challenge for the Wi-Fi access point design. It required access points to work in any position—at 35, 45, 50 or 90 feet from the venue floor, and to be located so that the signals don’t overlap with nearby permanent access points, such as those in the luxury boxes.

The ARRIS Solution: Designing Innovative and Flexible Access Points

The ARRIS team leveraged its vast experience in designing and engineering Wi-Fi networks to create a custom solution for the venue. The goal was to provide carrier grade Wi-Fi access to guests in any seat in the venue for every type of event.

The team engineered a system that meets the venue's configuration requirements, while using as much existing conduit and cabling routes as possible to reduce installation costs. They designed access points for the scoreboard that would ensure consistent Wi-Fi coverage that would not be impacted by signals from nearby permanent access points, and protected enclosures were built to contain access points directly under the temporary seats.

The Result:

Wi-Fi Connectivity for Every Seat in the House

ARRIS designed and engineered a best-in-class, carrier grade Wi-Fi solution with inherent flexibility that aligns with the dynamic layout created by the venue to provide the optimal experience for all of its guests. All the time. Now the venue can provide quality Wi-Fi coverage for thousands of visitors and fans throughout the entire arena, no matter where they sit. And fans are only too happy to be connected so they can share their excitement.

To learn more about the ARRIS Wi-Fi solution, please visit arris.com/globalservices

Arena Stats:

- Hockey capacity: 17,000
- Basketball capacity: 18,000
- Center stage capacity: 19,000
- Suites: 83
- Wi-Fi access points: 440
 - Indoor: 429
 - Outdoor: 11

