



Case Study

**A leading North American  
Tier 1 CSP delivered 80  
sites at 18 casinos at the  
Las Vegas Grand Prix**

## The challenges

**In preparation for this major event, this CSP identified the need to deploy a total of 80 sites with 397 sectors across 18 casinos and 20 small cells. For this to occur, they needed to ensure seamless coordination between four key vendors. While other entities handled the construction of transport, hubs and sites/nodes, Amdocs assumed responsibility for the full system design, scripting, RAN integration, DAS commissioning support, call testing/data testing, performance KPI monitoring, and troubleshooting with DAS vendors for the final handover.**

Yet, complications arose – including pre-integration construction delays, backhaul readiness issues at multiple sites, as well as faulty hardware requiring troubleshooting and replacements – resulting in delays both during and post-integration. To overcome these challenges, Amdocs worked closely with construction/DAS vendors, resulting in successful on-time delivery within a month. All sites featured LTE and 5G carriers in AWS, PCS and NR 2500 bands.

## Amdocs' role

Amdocs provided design, RAN integration (field & remote support), call testing/data testing, DAS commissioning support, alarm clearing and troubleshooting support for the deployment of a total of 80 sites, comprising 397 sectors at 18 casinos and 20 small cells. To achieve this, they assigned engineers, a project management team, RAN integration engineers and subject matter experts, who collaborated with the civil vendor, construction teams and the CSP, to design and implement an innovative integration approach.

Amdocs also designed the complete solution from end-to-end, including preparing the scripts and integrating all sites after construction was completed and the transport was ready. Post-integration, Amdocs conducted Gold Standard parameter alignment, and worked with the turf vendor responsible for site construction. This included ensuring radio connectivity, clearing alarms and performing functional tests to ensure issue-free traffic handling.

## The solution

Amdocs' end-to-end project management services spanned design, scripting, integration, RAN commissioning and launch, as well as aligning all four parties. Together, they delivered **80 sites with 397 5G sectors at 18 casinos and 20 small cells, and launched LTE and 5G carriers in AWS, PCS and NR 2500 bands**. To mitigate delays, a **24x7 War Room** was established for service providers and turf vendors, to diligently monitor and address issues as they arose.



## Results achieved

The deployment enabled the CSP to deliver an amazing network experience to approximately 170,000 Grand Prix fans, driven by Amdocs' flawless delivery and execution of RAN integration services and alarm clearing support.

Furthermore, 5G connectivity surpassed expectations, delivering users an average speed of 2Gbps and above. This was due to The CSP's higher throughput, reflecting an overall increase in total 5G traffic compared to the previous year and a rise in the 5G device penetration rate. There was also growth in 5G device subscription plans compared to the previous year.

Below are snapshots of speed tests conducted at various sites prior to project handover.





Amdocs helps those who build the future to make it amazing. With our market-leading portfolio of software products and services, we unlock our customers' innovative potential, empowering them to provide next-generation communication and media experiences for both the individual end user and large enterprise customers. Our approximately 30,000 employees around the globe are here to accelerate service providers' migration to the cloud, enable them to differentiate in the 5G era, and digitalize and automate their operations.

Listed on the NASDAQ Global Select Market, Amdocs had revenue of \$4.89 billion in fiscal 2023.

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