



# PRIVATE CELLULAR NETWORKS

## for Immersive Fan Experience

### The Challenge

Digital traffic at sports stadiums, convention centers, amusement parks, and arenas are exceeding the capacity of networks. Interactive, data-intensive videos have changed the way sports are coached. Contactless orders are growing at concession stands. Theme parks are adopting video surveillance and IoT for mission-critical operations and public safety.

Legacy wired and best-effort Wi-Fi networks fall short as they do not have the propagation range for campus-wide communications and encounter quality issues due to network congestion. To ensure a high-quality experience, venues must supplement their Wi-Fi with 4G or 5G cellular networks and edge computing. However, public cellular networks lack the agility and control to meet the dynamic demands of connected venues.

### Private Cellular Networks Ensure Uninterrupted Experiences

Venues can deploy private cellular networks with shared CBRS spectrum made available by the FCC for commercial use. Private networks are custom-designed for venues' indoor and outdoor needs, taking advantage of the reliability, quality, and security of 4G/LTE and 5G technologies. They offer high-bandwidth, low-latency connectivity for venue owners to automate their operations and provide the best digital experience to their guests and partners.



#### CONSISTENT CONNECTIVITY

CTS integrates complex indoor and outdoor radio-vendor agnostic wireless networks and manages them with real-time data for high-performance with an optimal mix of licensed and unlicensed spectrum choices.



#### HIGH PERFORMANCE

CTS's LTE or 5G private networks and on-premises multi-access edge computing ensure high performance for bandwidth-rich applications, data security, and privacy. You can leverage video analytics to monitor foot traffic around concessions and stream live events confidently.



#### DIFFERENTIATED QUALITY OF SERVICE

CTS's network slicing capability and unique Total Traffic Manager differentiate network services' quality, reserving higher priority for business-critical applications.



#### REAL-TIME ANALYTICS

CTS collects granular real-time data on the interaction of devices, applications, and people with the network and foot traffic. Event planners can use the data to optimize their venues and network deployment.

## A CTS Private Cellular Network Operates at Peak Performance

**Best-in-class network Design Center:** The CTS Design Center offers best-in-class RF and 3D modeling for multi-operator and multi-technology solutions. Our team will create a custom design based on your exact needs.

**Comprehensive network construction services:** CTS has completed 12,000 wireless projects nationwide ranging from arenas, airports, universities, hospitals, commercial real estate, outdoor solutions, and more.

**Flexible deployment options:** CTS offers options for cloud-hosted networks that are quick to deploy, and options for a variety of on-premises networks for greater security and higher performance.

**Ongoing monitoring and management services:** CTS offers 24-hour monitoring, uptime analysis, firmware upgrades, remote troubleshooting, and emergency dispatch from our Network Operations Center (NOC).

CTS offers enterprises comprehensive private cellular network solutions that leverage LTE and 5G technologies. Our networks provide secure communications to process growing traffic volumes from bandwidth-hungry and time-sensitive applications. CTS services are available as a complete end-to-end solution so that you can get all the benefits of a private wireless network without the complexities of installation and ongoing maintenance.

## Your Network. Your Data. Your Rules.



Delivering Mission-Critical Communications



### WHY CTS

CTS provides custom, carrier-grade, in-building and campus connectivity solutions for enterprises and mobile network operators, solving and managing the most complex networking challenges. Leveraging our advanced design and network operations centers, CTS provides our customers with industry-leading customer service. Our ability to design, build, run and support connectivity solutions that power our customers' mission-critical applications is unmatched. CTS only provides one solution: the one that's right for the customer. CTS is vendor agnostic, allowing customer requirements to drive the right design, using the right equipment, to fit each customer's specifications, anywhere across the country. From conception to construction to operations, CTS is the trusted connectivity partner.