



PRIVATE CELLULAR NETWORKS

for Seamless Logistics Operations

The Challenge

High-density distribution centers and warehouses automate supply chains to meet stringent delivery requirements. Autonomous vehicles move cargo at ports, robots load delivery vans, IoT sensors track inventory flow, drones monitor facilities, and video analytics identify empty shelves: all require a high-bandwidth, ultra-responsive wireless network.

Network administrators must fulfill the diverse connectivity needs of warehouses, distribution centers, railway yards, ports, and truck loading stations. The use of multiple networks – wired, Wi-Fi, Push-to-Talk, and IoT – for various applications adds cost and complexity. Traditional Ethernet and Wi-Fi networks lack the propagation range for campus-wide communications, and public cellular networks limit agility and the ability to meet

Private Cellular Networks Enable Connected Supply Chain

Logistics operators can deploy indoor and outdoor private cellular networks with shared CBRS spectrum made available by the FCC for commercial use. Private networks are custom-designed for logistics needs, taking advantage of the reliability, quality, and security of 4G/LTE and 5G technologies. They have the propagation range to operate in a heavy-metal environment and meet digital supply chain applications' bandwidth and latency expectations.



UBIQUITOUS CONNECTIVITY

CTS designs radio-vendor agnostic private cellular networks to operate with licensed and unlicensed spectrum for coverage spanning the routes of logistics companies.



ROBUST SECURITY

Rapidly changing staff, contractors, and devices stress operators who refresh security each time. CTS ensures security with network slicing to separate each category of staff and device. You can effortlessly alter network policies for end user devices to meet shifting needs.



HIGH PERFORMANCE

CTS's LTE or 5G private network and on-premises multi-access edge computing ensures long propagation spans for large distribution centers and accommodates the high-bandwidth and low-latency needs of the most demanding applications like robotics, drones, and augmented reality.



DIFFERENTIATED QUALITY OF SERVICE

CTS prevents downtime with constant monitoring and applies network-wide policies to achieve your service quality goals. Our unique Total Traffic Manager differentiates the quality of network services, reserving higher bandwidth and priority for mission-critical applications.



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 cellular 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.