



Private 5G Solutions for Transportation & Logistics

Where Secure End-to-End Communications Delivers Global Visibility

Transportation and logistics companies are at the center of economic growth, thanks to strong consumer spending and the global supply chain. As customer demands increase for faster shipments, greater transparency into the location of goods in transit, and reliable arrival times, many transportation and logistics companies have adopted advancements in mobile communications, digital technology, and Industrial Internet of Things (IIoT) to gain a competitive advantage.

With real-time end-to-end visibility and lower costs, private 5G networks keep transportation and logistics companies' global operations, cargo, and mobile personnel continuously connected anywhere in the world.

Oceus private 5G solutions deliver the necessary networking infrastructure for real-time mobility for any size transportation and logistics organization, from small and local to large and global.

OCEUS PRIVATE 5G ADVANTAGES

With an advanced network infrastructure focused on mobility, security, and performance, Oceus private 5G network solutions transform transportation and logistics operations with:

- **Deterministic Performance:** Secure and scalable network infrastructure to reliably connect IIoT sensors with monitoring, analytics, and operational tools.

- **Universal Mobility:** Integrates spectrum-agnostic solutions and our mobile network operator relationships to expand connectivity indoor, outdoor, and on-the-go.
- **Intelligent Orchestration:** AI/ML engines dynamically adjust network performance to ensure peak customer experience.

IMPENETRABLE CONNECTIVITY AND SECURITY

Oceus private 5G networks provide a flexible and secure mobile connectivity infrastructure delivering real-time end-to-end visibility.

- **Real-Time Cargo Tracking** - Ensures situational awareness for timely deliveries and to streamline operations
- **Intelligent Risk Mitigation** - Network integrity to prevent theft, accidents, supply chain disruptions, and climate fluctuations
- **Seamless Synchronizing** - Anywhere connectivity for communication between warehouses, highways, ports, waterways, and air transportation, across the global supply chain

REAL-TIME INTELLIGENCE WITH AI-DRIVEN PERFORMANCE

Oceus private 5G solutions leverage real-time intelligence for transportation and logistics providers to maximize resources, prioritize resilience, mitigate risks, illuminate delays, curtail costs, and streamline operations.

Private 5G Solutions for Transportation & Logistics



- **Smart Inventory Management** – For situational awareness to track availability of resources and manage materials and cargo levels
- **Predictive Analytics** – Global connectivity to anticipate traffic fluctuations, seasonal capacity, and fleet maintenance
- **Aggregated Data** – High network capacity to pinpoint variances from diverse and complex sources, to correct before problems occur

FLEXIBLE & SELF-HEALING NETWORK COVERAGE

Oceus private 5G networks underpin a critical component of autonomous operations: reliable always-on connectivity with millisecond precision.

- **Autonomous Movement of Cargo** – Robotics and AGVs from shipper to warehouses and transportation hubs to last-mile
- **Continuous Monitoring of Fleet Functions** – To flag and preempt issues in vehicles and remote fuel and charging stations

- **Autonomous Inspections and Surveillance** – Through drones and AGVs, in challenging indoor and outdoor environments such as ports and airports

DEPLOYING OCEUS PRIVATE 5G SOLUTIONS

Private 5G operates in low, medium, and high-band frequencies across any spectrum, supporting broader sets of use cases than are available with Wi-Fi.

Oceus private 5G solutions are spectrum agnostic, running on licensed, unlicensed, or shared CBRS license spectrum, to meet any deployment and configuration requirements of facilities. Oceus has strategic partnerships with global mobile network operators that can get 5G mobile devices up and running today on a private network.

Oceus has designed its patented private 5G solutions to meet unique and challenging requirements as a secure and mission-critical communications solution that keeps vehicles, goods, and personnel seamlessly connected while on the move, anywhere in the world.



To discover more about Oceus private 5G solutions, visit us at [Oceus.io](https://oceus.io).

About Oceus

Oceus empowers government and commercial enterprise with intelligent private 5G communications for uninterrupted critical operations in challenging environments where deterministic delivery of data in a wireless environment is critical: in-building, campus-wide, and on-the-move.

Oceus delivers advanced wireless network infrastructure with the mobility, security, and performance needed for seamless connectivity. Our edge computing capabilities provide low latency, ultra-high reliability, and enhanced security for wireless IoT devices and applications. The Oceus Intelligent Controller provides software-defined network orchestration using AI/ML to automate the management of 5G enterprise systems and applications for military operations, border security, disaster response, smart cities, logistics, transportation, manufacturing, healthcare, education, utilities, and energy.

Oceus is headquartered in Herndon, VA, with Oceus Technologies, our R&D lab, and our Integration and Operations Center both located in The Colony, TX.