

Oceus® Intelligent Controller for AI-Driven Private 5G Network Management

The demand for mobile connectivity continues to accelerate at breakneck pace, enabling an always-connected world with people and businesses increasingly dependent on reliable communications. **Private 5G is advancing to create the connectivity foundation for mobile-reliant technology innovations and mass proliferation of mobile-centric use cases** that use AI/ML, IoT, AR/VR, digital twins, and robotics. Private 5G also leverages the availability of unlicensed or shared spectrum (known as CBRS in the US), allowing the private use of 5G cellular technology separate from public networks.

But cellular technology is vastly more complex than existing wired and wireless solutions, involving acquiring spectrum, planning, deployment, device provisioning, and interference. The **Oceus Intelligent Controller (OIC)** is a ground-breaking, end-to-end virtual network orchestration and management solution that turns days into minutes by automating planning, deployment and network management for critical, always-on connectivity. OIC leverages advanced AI to always ensure network availability and simplify the complexities of cellular network management to unleash the promise of private 5G networks.

OIC: Managing complex end-to-end network and application systems and environments

Simple
Extensible
Data-Driven



	Any Network Orchestration (Public & Private 5G, CBRS, Cloud)
	Plug and Play Architecture (IT, OT, MNO)
	Any-G Connectivity (4G, 5G, 6G)
	Endpoint Device Management (User Devices, IoT, Gateway)

OIC simplifies the complexities of cellular network management to unleash the promise of private 5G networks.

Oceus Intelligent Controller (OIC)



OIC SAVES TIME & MONEY AND REDUCES ERRORS

OIC is not just a tool. It's a necessity to manage today's complex networks.

- **Saves 75% in planning and deployment time and SME labor**
- **Network and system failure prediction reduces downtime by 80%**
- **Anomaly detection reduces network debugging time by 90%**
- **Reduces integration and deployment time by 85%**
- **Reduces initial troubleshooting by 75%**
- **Reduces initial customer acceptance by 95%**

• AI-Driven 5G: End-to-End Network Orchestration

The network learns, adapts, and self-heals, continually improving performance and reliability

• Cloud-to-Edge: End-to-End Network Visibility and Control

Single Pane of Glass Orchestration through the full E2E lifecycle

• Intelligent Provisioning with Zero-Touch Automation

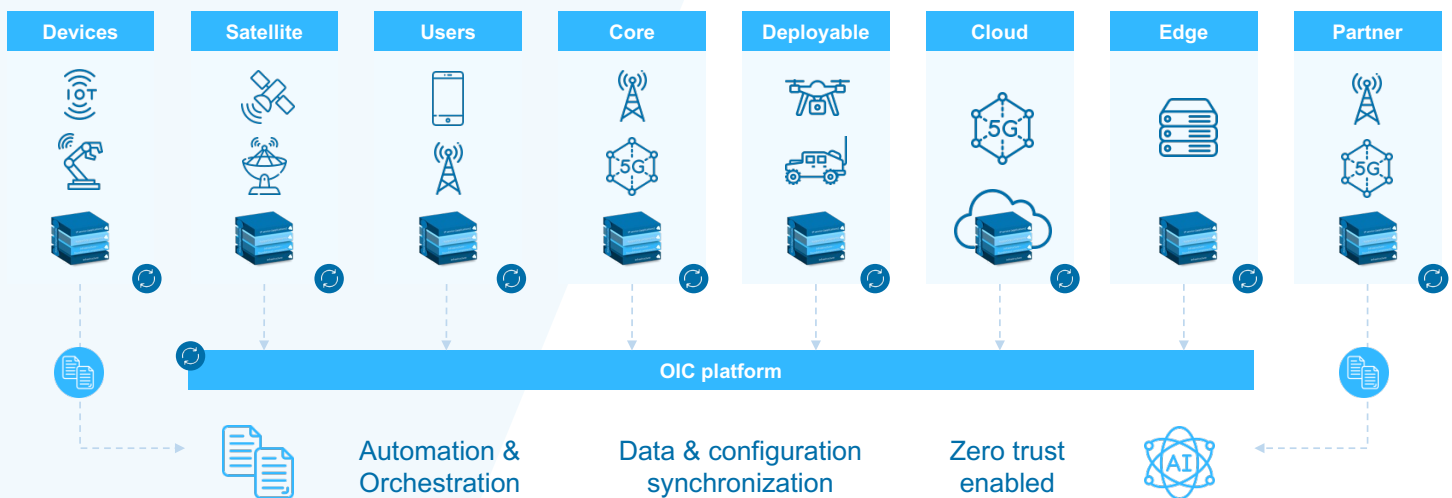
Automation of configuration, onboarding, and activation to keep pace with forward-facing demands

• Autonomous Cybersecurity with Real-Time Threat Detection and Mitigation

Zero-trust security enforcement integrated with enterprise security systems

• Predictive Analytics for Resource Allocation and Dynamic Capacity Management

Observe, learn, heal, alarm on network events quickly



With its AI-driven intelligence, OIC and Oceus Private 5G network solutions are the right choice for any operation where highly resilient, always-on, high-speed mobile connectivity is needed to achieve critical outcomes.

To learn more about Oceus Private 5G network solutions and industries served, visit 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.