OpenSpace®

OpenSpace Platform for Satcom
Enable Scale, Automation and Zero Touch Operations

With ongoing innovations and growth in space, satellite operators and service providers are turning to dynamic satcom platforms to keep pace. The OpenSpace Platform is the first fully virtualized, software-defined and orchestrated ground system in the satellite industry.

OpenSpace is a cloud-native platform that leverages telecom standards such as Carrier Ethernet to enable highly scalable and zero-touch automated operations. This allows satellite operators and service providers to deploy carrier-grade connectivity services, interoperating seamlessly with terrestrial telecom networks. Satellite then becomes just like any other access technology communication service providers can use to deliver a standard portfolio of enterprise services.

MEF 3.0 CERTIFIED

OpenSpace is the satellite industry's first MEF 3.0 Carrier Ethernet Certified Platform, a standard widely deployed across the telecom industry for enterprise-scale service delivery.
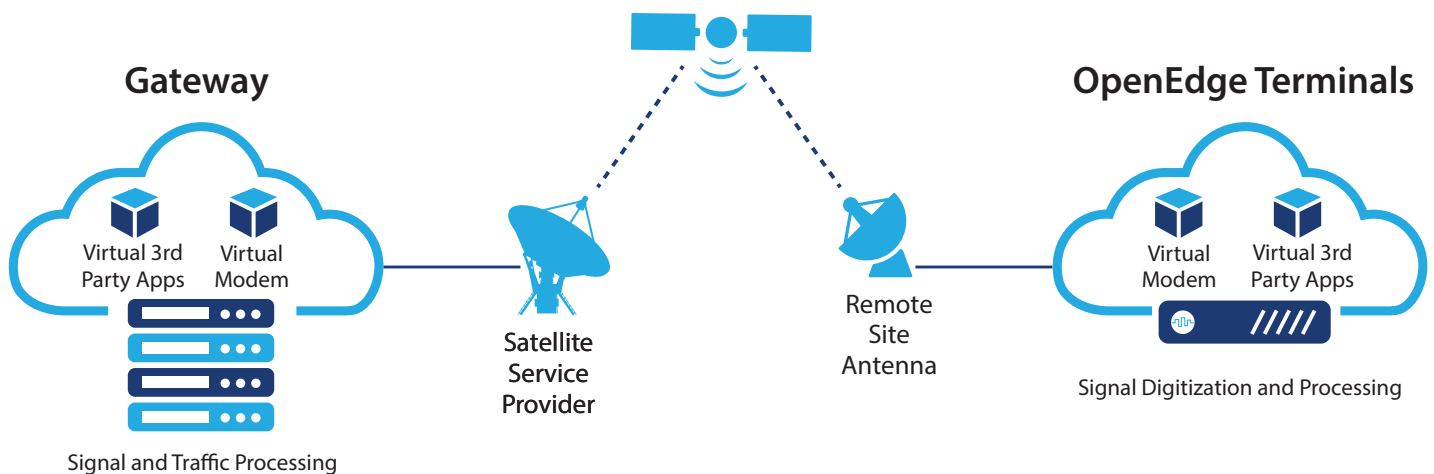
The OpenSpace Platform integrates seamlessly with the OpenEdge, a flexible software-defined terminal solution. The OpenEdge brings more power and flexibility to the network's edge by running multiple virtual modems and third-party applications on a single small form factor server that is optimized for performance, size, weight and power (SWaP) requirements.

OpenSpace – A Dynamic Satcom Platform that Keeps Pace with Space

The OpenSpace Platform enables dynamic operations from the gateway to the edge. At the gateway, the OpenSpace Platform runs on a small footprint of commercial-off-the-shelf servers. Based on telecom standards, it deploys satcom services in minutes by spinning up virtual modems and third-party software applications (SD-WAN, traffic optimization, encryption, etc.) at the gateway and the OpenEdge to enable fully orchestrated services.

Gateway

Virtual 3rd Party Apps   Virtual Modem

Signal and Traffic Processing

Satellite Service Provider

Remote Site Antenna

OpenEdge Terminals

Virtual Modem   Virtual 3rd Party Apps

Signal Digitization and Processing

The OpenSpace Platform is an end-to-end digital satcom system from the gateway to the OpenEdge remote.

Experience the Benefits of the OpenSpace Platform

The OpenSpace Platform allows satellite operators and service providers to:

- Deploy Services Much Faster.
- Scale on demand with Customer Growth.
- Virtualize, Save Space and Reduce Costs.
- Deliver High Throughput.
- Enable Fully Automated Satcom Links.
- Support for Cloud-Centric Operations.
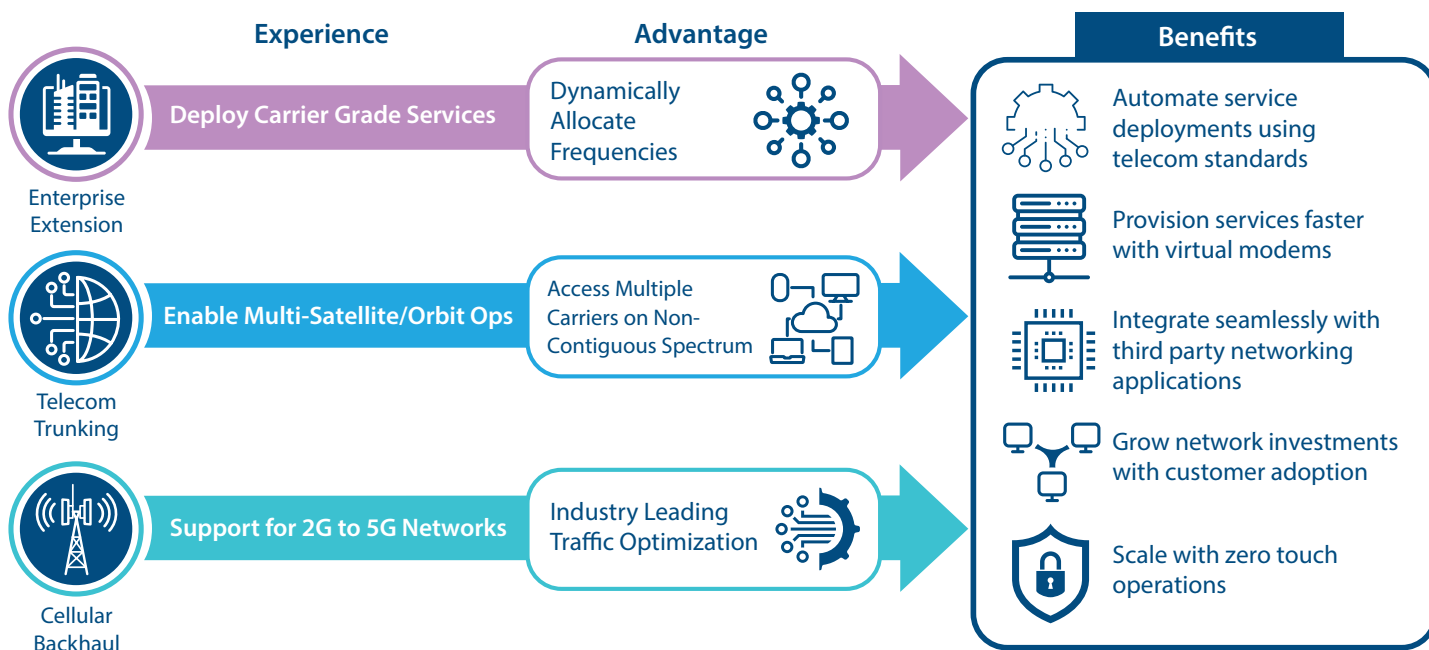- Seamlessly Integrate with Carrier Networks.
- Enable Zero Touch Operations.

OpenSpace – A Powerful Platform that Supports Multiple Satcom Applications

The OpenSpace Platform brings the strengths of satellite to applications including enterprise network extension, cellular backhaul and telecom trunking. Beyond Carrier Ethernet grade service delivery and third-party applications, the OpenSpace Platform provides key advantages for each satcom application.

For enterprise network extensions, frequency allocation can be done automatically minimizing time-consuming and manual processes. Telecom trunking becomes more seamless by leveraging link-bonding to provide high data rates on fragmented spectrum. In addition, industry-leading traffic optimization is used to support cellular backhaul operations.

Experience	Advantage	Benefits
Enterprise Extension — Deploy Carrier Grade Services	Dynamically Allocate Frequencies	Automate service deployments using telecom standards
Telecom Trunking — Enable Multi-Satellite/Orbit Ops	Access Multiple Carriers on Non-Contiguous Spectrum	Provision services faster with virtual modems
Cellular Backhaul — Support for 2G to 5G Networks	Industry Leading Traffic Optimization	Integrate seamlessly with third party networking applications
		Grow network investments with customer adoption
		Scale with zero touch operations

The OpenSpace Platform powers key satcom applications.