OpenSpace Platform: Carrier Ethernet over Satellite for Cellular Backhaul

Deliver Carrier-Grade Services Faster and more Cost-Effectively at Scale

Demand for wireless connectivity and bandwidth in remote areas continues to grow rapidly. Today's Mobile Network Operators (MNOs) are looking for innovative satellite solutions to decrease time-to-market, streamline operations, increase revenue and maximize bandwidth.

Satellite has traditionally been viewed as the transport solution of last resort due to its siloed and proprietary nature. In response, the OpenSpace Platform was built with support for telecom standards from the ground-up, making satcom a seamless experience for wireless providers.

Improve service availability and quality with the OpenSpace Platform.

OpenSpace Platform for Cell Backhaul

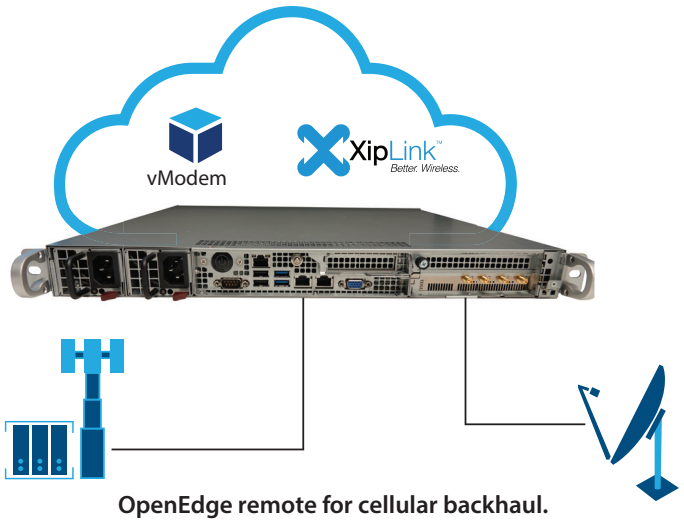
The OpenSpace Platform is the first digital, fully virtualized, and orchestrated ground system in the satellite industry. The OpenSpace Platform operates natively with the OpenEdge, a flexible software-defined terminal solution.

The OpenSpace Platform and OpenEdge remotes offer an IT based and telecom standards focused solution for cellular backhaul networks. Leveraging telecom grade Carrier Ethernet over Satellite capabilities, the OpenSpace Platform offers class-leading cellular backhaul performance.

In partnership with XipLink, the OpenSpace Platform provides an advanced cellular backhaul solution to deliver high bandwidth services faster and more cost-effectively.

Experience the Benefits of Advanced Cellular Backhaul

The OpenSpace cellular backhaul solution achieves a throughput of more than 95%, which is about 30% more than most competitive technologies. It also offers 30% plus faster response times – ensuring a better Quality of Experience (QoE) for customers.



OpenEdge remote for cellular backhaul.

Drastically Increase Bandwidth

- Combine existing GEO or microwave with lower cost, high-capacity LEO or MEO.

Ensure Service Diversity with Link Redundancy

- Automatic failover to selected or any available links.

Dramatically Improve Service Availability

- With automatic and seamless failover between links and pre-configured priority to improve availability.

Backhaul Cost Optimization

- Lower overall backhaul expenses by using low-cost services while ensuring high performance and consistent service.

Saturated Link offload to any Hybrid Link

- Offload traffic to any available link or prioritize link offload criteria to ensure continuous service.

Advanced Quality of Service (QoS)

- Prioritize important traffic with intelligent traffic shaping.

Improve Quality-of-Experience

- Faster page starts and loading times for browsing and video streaming.

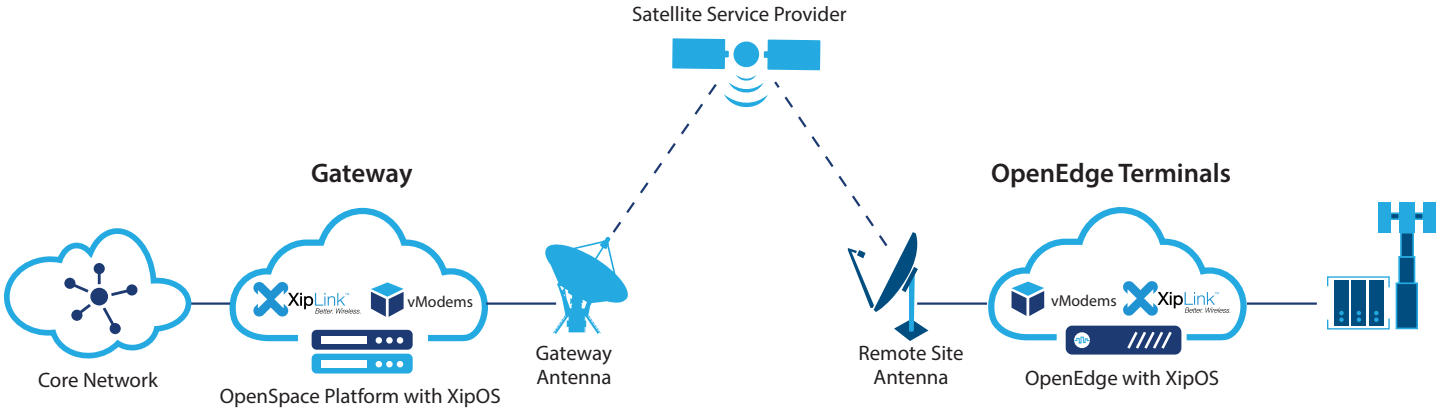
Optimal Utilization of Link capacity

- Leverage TCP acceleration based on standard SCPS-TP to eliminate round-trip delay impairments.

Deployment of Cellular Backhaul on the OpenSpace Platform

MNOs can leverage the OpenSpace Platform to deploy satcom services in minutes by spinning up virtual modems and XipLink software on the OpenSpace Platform at the gateway and the OpenEdge to enable fully orchestrated services. Bundling Xiplink's optimization solution together with the Kratos vModem on a single OpenEdge provides users with a compact and easy to deploy two-in-one backhaul solution.

Like the OpenSpace Platform, the OpenEdge uses standard Intel x86 CPUs in a small factor, with no FPGA or GPU acceleration required. The XipOS software is deployed as a virtual function and is remotely managed using a user-friendly Graphical User Interface or can be centrally managed via XipLink central management software (XMS).



OpenSpace Platform deployment with cellular backhaul capabilities.

For More Information

To learn more about the OpenSpace Platform please refer to these additional resources:
Website: www.KratosSpace.com
Videos: www.youtube.com/@DiscoverVirtualGround
Contact us: Space@KratosDefense.com

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