

Connecting Possibilities, Everywhere

Speedcast SIGMA Ecosystem brings you higher capacity, lower cost, reliable end-to-end connectivity and the flexibility to adapt automatically to change, no matter where business takes you. This is made possible through enterprise-grade SD-WAN technology that converges multiple networks – from GEO, MEO and LEO satellite to fiber, microwave and cellular – into a single, high-performance WAN.

SIGMA extends from terminals and devices at remote sites to connectivity across multiple paths and orbits. Powered by cloud-based applications, it enables one-touch activation and management, geolocation, advanced virtual functions and the ability to run on-network applications, connecting to possibilities everywhere.

Revolutionizing the way businesses experience 'always on'



Network Flexibility

Using the scalability of enterprise-grade SD-WAN, SIGMA enables networks to scale with demand, adapt to changing availability and real-world events, and extend customer applications worldwide, ensuring continuous data flow, business continuity, and uninterrupted operations.

Performance Control

Optimize performance using a customizable dashboard and prioritize data usage for critical applications over staff welfare or other remote site requirements.

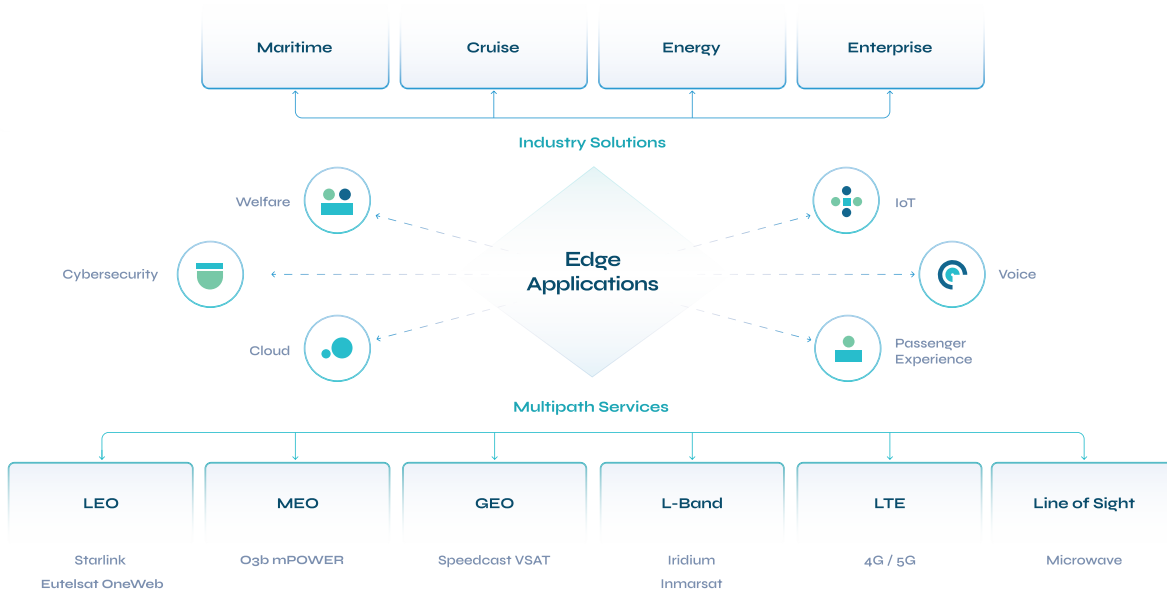
Operational Excellence

Additional resources from advanced cybersecurity to virtual machines help drive business growth, while delivering efficiencies that save time and money.

Innovate for Tomorrow

Embrace the rapidly changing telecommunications environment and innovate using Cloud, AWS, IoT Greengrass, AI/ML and other emerging technologies.

A Fully Integrated Ecosystem Designed for Every Industry



Maximizing Capacity with Next-Generation Technologies

A single, integrated platform optimized for satellite use in LEO and MEO constellations. It seamlessly blends global VSAT and cellular 4G/5G satellite backhaul and L-band transmission paths, and efficiently manages multiple secured WAN links. With scalability and a modular architecture, SIGMA swiftly adapts to remote operations.

- ✓ NGSO & Future LEO Ready
- ✓ Core Communication
- ✓ SD-WAN Toolkit
- ✓ Scalable hardware



Optimized to Operate at the Edge & Accelerate Customer Operations

Plug-and-play SIGMA seamlessly integrates with existing architecture, empowering customers to optimize network resources, deploy applications, and enhance productivity.

- ✓ SIGMA-build server
- ✓ Application layering
- ✓ Software Defined Platform
- ✓ Application options



Wide Range of Features Catering to Diverse Business Needs

SIGMA's secure virtualized environment maximizes resource utilization, scalability, and customization to meet network requirements. Its flexible hardware seamlessly integrates with existing infrastructure, reducing costs and leveraging current investments. Configurable SD-WAN options enhance network performance and agility through intelligent routing and centralized control.

- ✓ Core service options
- ✓ Virtualized Infrastructure
- ✓ Hardware Platform Options
- ✓ Network Function Products
- ✓ Highly-configurable SD-WAN



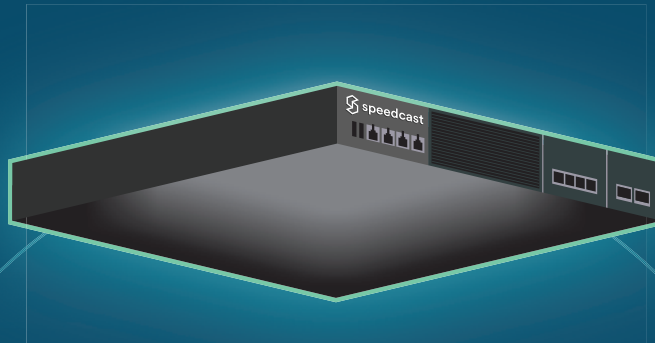
Safeguard Access and Information with Stronger Protection

SIGMA ensures data protection, defends against cyber threats, and maintains a secure communication infrastructure without extra hardware requirements.

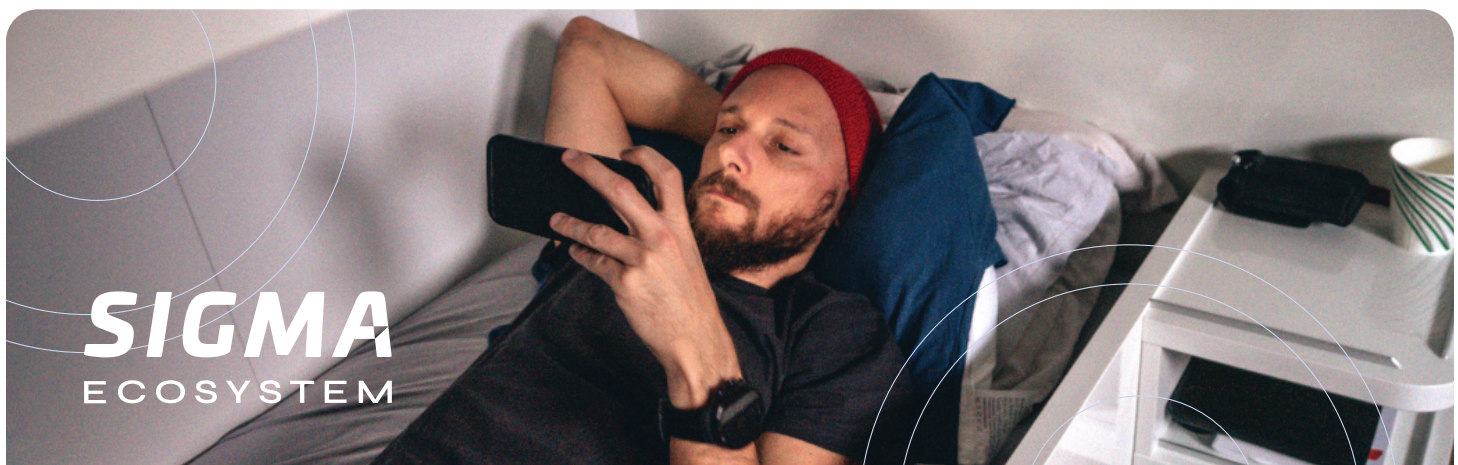
- ✓ Latest Operating Systems & Technologies
- ✓ VPN Management
- ✓ Encrypted Drive
- ✓ Next-Generation Firewall

Options That Fit Your Business

Our powerful network management device provides three distinct levels of automated and efficient administration of multiple WAN links, cybersecurity and virtual private networking (VPN) between the vessel and shore or the remote site and headquarters.



	SIGMA ESSENTIAL ›	SIGMA ENTERPRISE ›	SIGMA ELITE ›
	Essential network tools and applications for simple set-ups.	Comprehensive network tools and applications for enterprise-grade ecosystems.	Our most powerful network tools and applications for advanced virtualized environments.
WAN Support	Up to 200Mbps	Up to 1Gbps	>1Gbps
SD-WAN	Multi-path link switching	Full SD-WAN Services	Custom
Firewall	✓	✓	Custom
Telephony	✓	✓	Custom
Crew Experience	✓	✓	Custom
Dashboard	✓	✓	✓



Achieving 100% Uptime

How multi-path connectivity and cloud technologies reduce risk and safety-related events at sea

Customer Success Story

Customer Needs

As a leading independent owner-operator of liquefied natural gas (LNG) vessels, with ownership interests in over 90 vessels, ensuring the safety of their people and billion-dollar assets is paramount. Their specialized LNG carrier, designed with stringent safety standards, has the capability to transport over 160,000 cubic meters of liquid gas across the Atlantic Ocean in a single voyage. Equipped with multiple safety systems and features, it prioritizes accident prevention and risk mitigation. One crucial element for its successful operations is uninterrupted connectivity.

"The ability to have a fully-connected voyage puts us ahead of the curve and creates value-added results."

VP Operations

Speedcast Solutions

The operator commissioned Speedcast to provide a fully-managed solution, including Speedcast Ku GEO connectivity service, Starlink and LTE, as well as equipment, 24x7 network monitoring and support. Speedcast also deployed the intelligent network management system, SIGMA, with enterprise-grade SD-WAN to optimize and seamlessly manage the vessel's connectivity.

Results

Over a 60-day period, the site has maintained 100% availability, thanks to intelligent network management from Speedcast SIGMA and enterprise-grade SD-WAN.



Speedcast SIGMA dynamically took advantage of each connectivity path's network performance when availability was strong, and automatically rebalanced traffic to other paths when needed. The solution brought the best of both worlds – the speed, bandwidth, and low latency of Starlink's new LEO best-effort connectivity, with the guarantee of GEO-based VSAT service, critical when safety, security, human welfare, and the operation of billion-dollar assets are on the line.

One of the key advantages of SIGMA's built-in SD-WAN is that the full solution is hosted on Amazon Web Services' cloud, which simplifies cloud-enabled networking and security. Its automated dynamic routing provides the vessel with higher performance, reliability, resiliency, and redundancy. When network traffic and WAN selection are based on Quality of Service (QoS), the performance of critical applications can be prioritized according to the vessel's business needs.