AppLogic NETWORKS

AppLogic Networks' Solution for Satellite Maritime Networks

KEY BENEFITS

- 360° Observability
- SLA/QoE Monitoring
- AI Assisted Troubleshooting
- Optimized Bandwidth
- Content Based Traffic Steering
- Traffic Management

SMARTER, MORE MANAGEABLE CONNECTIVITY AT SEA

Maritime operations increasingly depend on high-performance satellite connectivity to support crew welfare, vessel operations, navigation systems, safety services, and passenger wireless services. From commercial shipping and offshore energy to cruise lines and fishing fleets, reliable communications at sea is mission-critical.

As vessels adopt bandwidth-intensive applications such as video communications, cloud-based operations systems, remote monitoring, and passenger connectivity, maritime service providers face mounting pressure to deliver consistent Quality of Experience (QoE) over constrained and variable satellite links. AppLogic Networks enables maritime providers and vessel operators to move beyond best-effort connectivity and deliver optimized, secure, SLA-driven services at sea.

NETWORK OPERATION CHALLENGES

Maritime satellite networks present a distinct set of operational challenges driven by mobility, harsh environments, and limited spectrum availability. Maritime operators wanting to provide market-leading satellite broadband services must be able to address those challenges, such as:

- Gaining complete visibility into use and performance including fault isolation across the end-to-end system, all the way down to the client device
- Ensuring the network is meeting required Service Level Agreements (SLAs) for partners guaranteeing key performance metrics such as throughput, latency, packet loss, and jitter
- Maintaining network resilience so that bandwidth is properly allocated to critical operational applications even when resources are diminished
- Optimizing the use of available bandwidth to provide the best Quality of Experience (QoE)
- Blocking undesired traffic that goes against captain or company policy (e.g., gambling sites,...)
- Detecting and eliminating security threats including malware, unauthorized access, and misuse of crew or passenger internet services

Without intelligent traffic management and deep visibility, operators risk SLA violations, poor user experience, and heightened satellite costs. Many network operations teams do not have sufficient infrastructure to meet all these needs and require a solution to fill the gaps necessary to deliver best-in-class Maritime services.
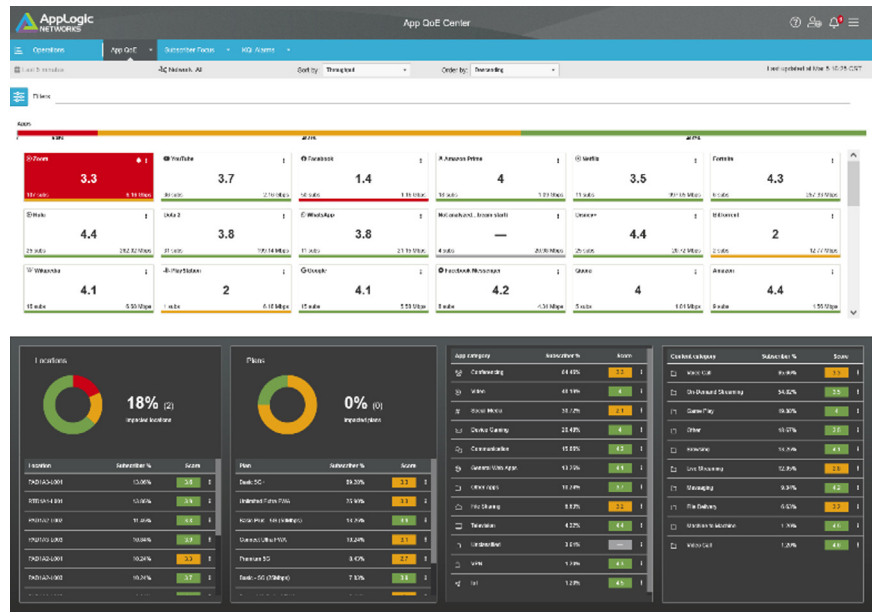
APPLOGIC NETWORKS' SOLUTION

AppLogic Networks provides the only software-based, single deployment solution on the market that gives Maritime Communication Providers what they need for a world-class offering enabling network observability, traffic management, security, and value-added services to drive incremental revenues. The solution ensures the network operates smoothly, efficiently and securely at all times —maximizing the value of every megabit of satellite capacity.

The underpinnings of the solution are driven by AppLogic Networks industry-leading application identification and classification, AppQoE network data, and real-time policy management technologies that have henhanced some of the largest networks in the world.

NETWORK OBSERVABILITY

AppLogic Networks comprehensive network observability provides the breadth and depth of analytics necessary to operate the end-to-end network and identify ways to optimize traffic. With the new AI AppAnalyst module, customers gain a powerful generative AI assistant that lets them explore traffic using natural language. AI AppAnalyst automatically analyzes data, detects anomalies, and provides clear, actionable explanations of what's happening across the network—and why.

NETWORK OPTIMIZATION

AppLogic Networks provides industry-leading traffic management capabilities for optimizing traffic to conserve bandwidth and help achieve SLAs, executes policies real-time, and is fully configurable to satisfy each partner's needs. Below are just a few examples of how Maritime network operators use these capabilities:

- Optimize bandwidth to reduce satellite link congestion (e.g., force Ultra-High Definition video down to Standard Definition)
- Prioritize and manage spikey, heavy traffic flow to/from devices
- Avoid satellite buffer bloat issues
- Mitigate application issues due to rapid LEO handoff and oscillating capacity
- Dynamically activate traffic management for heavy usage or out of control devices
- Block undesired content that violates captain or company policy
- Manage per device traffic according to content or application type
- Steer device traffic to a particular satellite orbit according to application or content type (e.g., latency tolerant applications such as on-demand video can use the GEO system while latency sensitive applications such as audio-conferencing need LEO)

NETWORK SECURITY

AppLogic Networks Security solution complements existing security infrastructure by providing additional threat detection and elimination coverage to close security gaps. The solution detects and eliminates threats within network traffic before they reach on-board devices to reduce your liability and exposure risk. With the network security solution you get:

- An integrated Cyber Threat Intelligence (CTI) Database with a continuously updated stream of high-confidence Indicators of Compromise (IoC).

- The identification and elimination of network threats that slip past firewalls (often in encrypted traffic) before they breach critical systems.

- Detailed forensic metadata to report and track malicious threats that can be integrated into SIEM infrastructure.

TRAFFIC PERSONALIZATION

The AppLogic Networks solution allows operators to offer personalized services to maritime crews and passengers, enabling desired applications, differentiated service-tiers, or usage limits per user.

AppLogic NETWORKS

USA	EUROPE	CANADA	ASIA
5800 Granite Parkway	Neptunigatan 1	410 Albert Street,	Arliga Ecoworld,
Suite 170	211 20, Malmö	Suite 201, Waterloo,	Building-1, Ground Floor,
Plano, TX 75024	Skåne	Ontario N2L 3V3,	East Wing Devarabeesanahalli,
USA	Sweden	Canada	Bellandur, Outer Ring Road,
	T. +46 340.48 38 00	T. +1 519.880.2600	Bangalore 560103, India
			T. +91 80677.43333