



AppLogic Networks' Solution for Commercial Aviation Networks



KEY BENEFITS

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

SMARTER, MORE MANAGEABLE IN-FLIGHT CONNECTIVITY

Commercial airlines depend on high-performance satellite connectivity to support flight operations, crew communications, safety systems and passenger Wi-Fi services. As airlines expand inflight connectivity offerings and adopt data-driven operational models, satellite networks have become a mission-critical extension of the aircraft itself.

With crews and passengers increasingly demanding connectivity everywhere, service providers face mounting pressure to deliver consistent Quality of Experience (QoE) over constrained and variable satellite links. AppLogic Networks enables aviation broadband providers to move beyond best-effort connectivity and deliver optimized, secure, SLA-driven broadband services to the aviation industry—maximizing passenger satisfaction while ensuring operational systems always take priority.

NETWORK OPERATION CHALLENGES

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

- 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 commercial aviation policy (e.g., adult content, conferencing, phone calls,...)
- 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 Aviation services.

APPLOGIC NETWORKS' SOLUTION

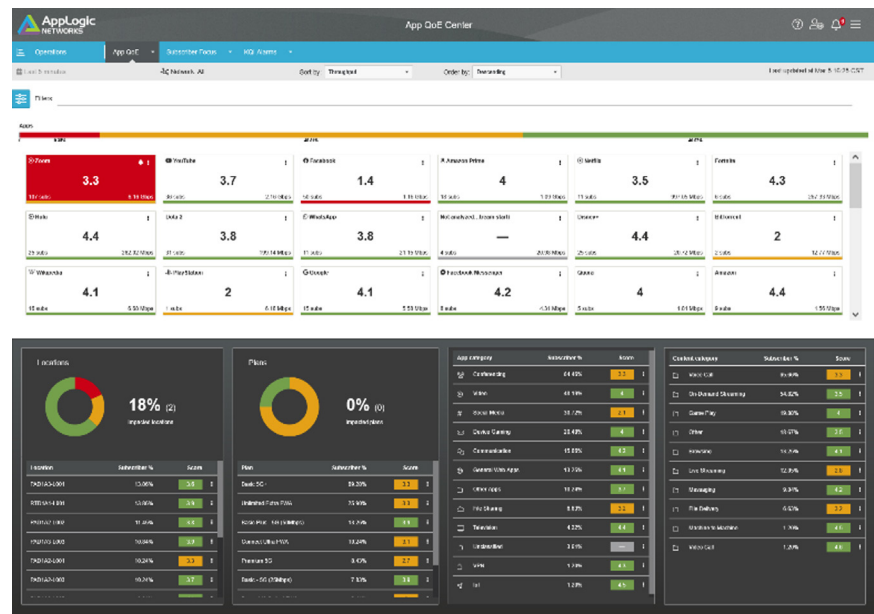
AppLogic Networks provides the only software-based, single deployment solution on the market that gives Aviation Communication Providers what they need for a world-class offering providing network observability, traffic management, security, and value-added services to drive incremental revenues. The 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, AppQoS network data, and real-time policy management technologies that have enhanced 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 Aviation network operators use these capabilities:

- Optimize bandwidth to reduce satellite link congestion (e.g., force Ultra-High Definition video down to Standard Definition video to conserve bandwidth while still providing an excellent quality of experience for small screen devices)
- 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 valuable aviation devices to reduce your 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 aviation crews and passengers, enabling desired applications, differentiated service-tiers, or usage limits per user.

ABOUT APPLOGIC NETWORKS

AppLogic Networks' cloud-based App QoE portfolio helps customers deliver high quality, optimized experiences to consumers and enterprises. Customers use our solutions to analyze, optimize, and monetize application experiences using contextual machine learning-based insights and real-time actions. Market-leading classification of more than 95% of traffic across mobile and fixed networks by user, application, device, and location creates uniquely rich, real-time data that significantly enhances interactions between users and applications and drives revenues. For more information visit <https://www.applogicnetworks.com> or follow AppLogic Networks on X @AppLogic Networks.



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