



AppLogic Networks Solution for IoT Networks

SMARTER, MORE MANAGEABLE IOT NETWORKS

SOLUTION BENEFITS:

- Walled garden to protect IoT endpoints
- 360° Observability
- SLA Monitoring
- AI Assisted Troubleshooting
- Smart Bandwidth Allocation
- Device Management

Communication Service Providers have been proactively seeking new revenue streams to complement and expand beyond traditional connectivity. IoT services (a.k.a. M2M) represent a compelling growth opportunity, enabling CSPs to extend their networks into high-value verticals for smart cities, industrial automation, energy, healthcare, and transportation. By evolving from basic connectivity to differentiated, value-added offerings—including device management, security, fraud detection, analytics, and assured service levels—operators are using AppLogic Networks to unlock new revenues, strengthen partnerships, and establish themselves as critical enablers of digital transformation rather than commodity connectivity providers.

NETWORK OPERATION CHALLENGES

Providing secure, reliable connectivity for IoT devices is a multi-step process that requires device onboarding, traffic optimization, SLA management and SIM-level end-to-end analytics. CSPs wanting to provide market-leading IoT services must be able to address multiple challenges, including:

- Gaining complete visibility into use and performance of IoT devices including fault isolation across the end-to-end system, all the way down to the SIM level.
- Ensuring the network is optimized and meeting required Service Level Agreements (SLAs) for IoT partners guaranteeing key performance metrics such as throughput, latency, packet loss, and jitter.
- Detecting IoT fraud such as: has an IoT SIM card been put into a non-contracted device or is the IoT device accessing apps that were not contracted (e.g., Netflix)?
- Maintaining network resilience so that bandwidth is properly allocated to critical operational applications even when resources are diminished.
- Properly allocating and dedicating bandwidth to the heavy volumes of data from IoT or sensor network and de-prioritizing non-essential apps.
- Enabling rapid on-boarding of new IoT customers with unique requirements and SLAs.

Many network operations teams do not have sufficient infrastructure to meet all these needs and require a solution to fill all the gaps necessary to deliver best-in-class IoT services.

APPLIC NETWORKS' SOLUTION

AppLogic Networks provides the only software-based, single deployment solution on the market that gives CSPs what they need for a world-class IoT offering providing network observability, traffic management, security, device management, traffic personalization and fraud detection. The solution ensures the network operates smoothly, efficiently and securely at all times.

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 helped provide visibility into and optimize some of the largest networks in the world.

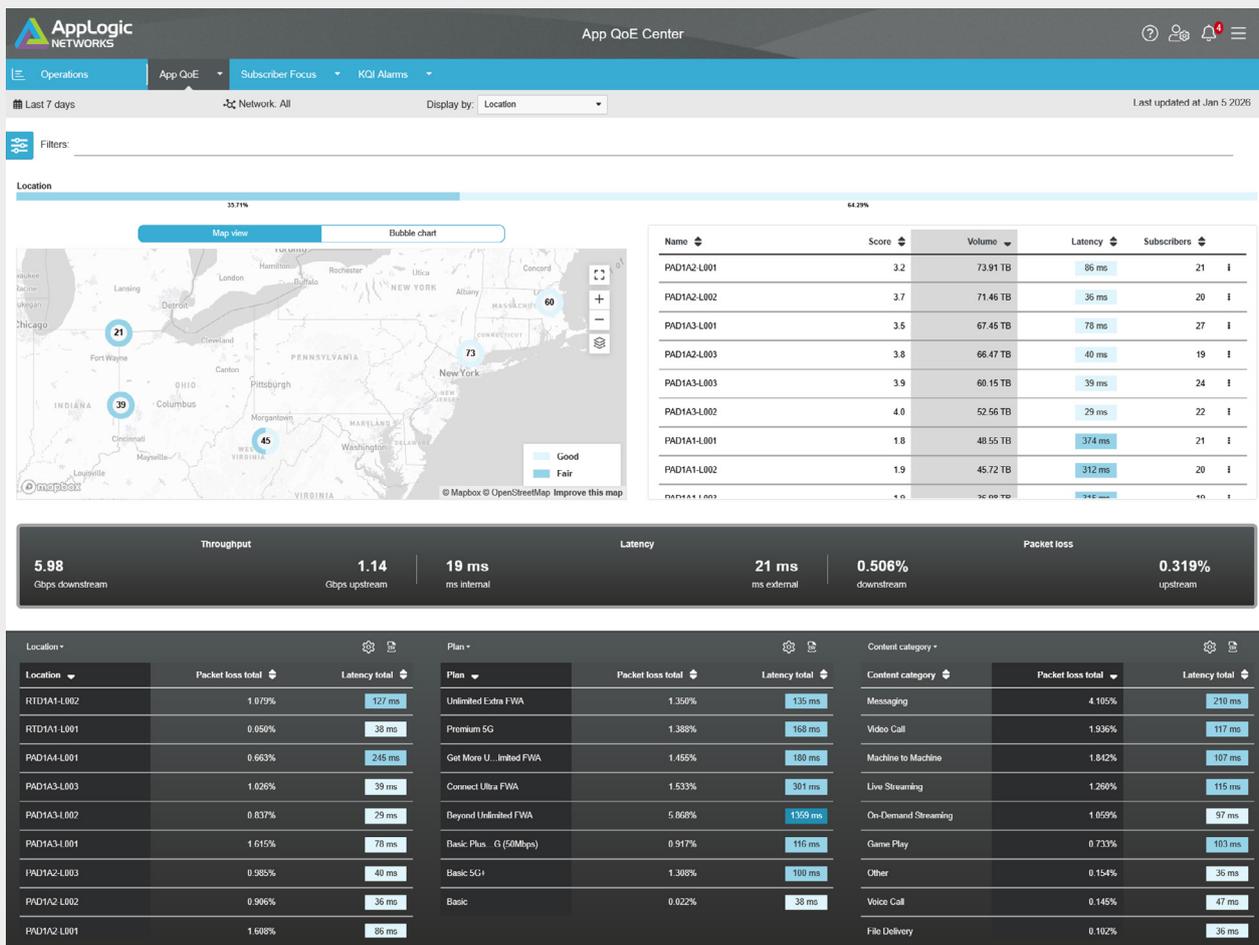
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360 Observability

AppLogic Networks comprehensive network observability provides the breadth and depth of IoT analytics to provide visibility for operating the network from day to day and to identify ways to optimize IoT traffic. With the new AI AppAnalyst module, customers gain a powerful generative AI assistant that lets them explore IoT 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.

Figure 1

AppLogic Networks' App QoE Center



Device Security

The AppLogic Networks solution enables operations teams to securely manage IoT devices and ensure reliable performance by walled-gardening the IoT network, isolating endpoints from the broader network and the internet. Traditionally, onboarding and securing new M2M customers requires extensive network changes that can take weeks. With AppLogic Networks, customers can be onboarded efficiently and in a much shorter timeframe due to our scalable policy management platform. This approach scales seamlessly—enabling millions of IoT devices to be onboarded in a single step. As an example, at a particular operator, onboarding time was reduced from eight weeks to a single day, accelerating time to revenue and improving operational efficiency.

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Optimization

AppLogic Networks provides industry-leading traffic management capabilities that enable IoT traffic prioritization, optimizes traffic to help achieve SLAs, executes policies real-time, and is fully configurable to satisfy each IoT partner's needs. The solution can dynamically activate traffic management for heavy usage or out of control IoT devices.

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 IoT assets 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 traffic management solution allows operators to define service tiers across various device, content and application types and define policy templates that encompass the bandwidth and resource allocation per device or content specific to their requirements and workloads. Teams can then rapidly apply these policies per partner as they onboard each IoT device.

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.



USA
5800 Granite Parkway
Suite 170
Plano, TX 75024
USA

EUROPE
Neptunigatan 1
211 20, Malmö
Skåne
Sweden
T. +46 340.48 38 00

CANADA
410 Albert Street,
Suite 201, Waterloo,
Ontario N2L 3V3,
Canada
T. +1 519.880.2600

ASIA
Arliga Ecoworld,
Building-1, Ground Floor,
East Wing Devarabeesanahalli,
Bellandur, Outer Ring Road,
Bangalore 560103, India
T. +91 80677.43333

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