



Network Analytics & Closed-Loop Automation for Financial Services

One of the world's leading providers of news and information-based tools for financial professionals approached Anuta Networks with two key challenges. First, their ongoing difficulty in managing a multitude of business intelligence applications from vendors such as Oracle, IBM, SAP, and Microsoft. Secondly, the complications typically associated with managing a core network comprised of multiple vendors that include Cisco, Juniper, HPE, Blue Coat, Brocade, F5, and IBM across 55 locations and 3 global regions.

Financial services companies overall have several common requirements:

- Application delivery requires extremely low-latency due to the sensitivity of financial information;
- Real-time network inventory and proactive monitoring are required to ensure proper capacity is allocated for each business application; downtime equates to lost revenue and penalties for missing SLAs.
- Compliance with PCI and many other stringent financial services regulatory requirements must be established and maintained.



Key Considerations

- Analytics software must be able to ingest variety of data including NetFlow, sFlow, IP SLA, Syslog as well as streaming telemetry from multiple vendors;
- Automation software should then be able to generate alerts based on pre-defined thresholds and automate remediation steps;
- Applications should be notified of interesting network changes within 1 sec with response to application queries within 10 milliseconds;
- The overall networking solution should support millions of interfaces on thousands of devices spanning geo-distributed deployments, be highly redundant, work with multiple vendor equipment, leverage open standards - all managed through a single pane of glass.

Customer Profile

- Leading financial services provider with \$11B revenue
- 55 locations in three regions
- Multi-vendor network with massive app support needs

Business Requirements

- Ultra-low-latency response to network events
- Real-time network analytics
- Network capacity planning
- Compliance with PCI & SLA

Technical Requirements

- Ingest, aggregate & normalize flow data
- Analyze metrics, Grafana Visualization & API integration
- Applications to be notified of network changes within 1 sec
- Scale to millions of interfaces
- No SPOF

Anuta ATOM Advantages

- Delivers analytics, reporting, remediation and assurance
- Support for 45+ vendors
- Micro-Services architecture scalable to 1 million+ devices
- Multi-Cloud Ready
- Compliant with open standards – IETF YANG, IETF NACM
- Flexible pay-as-you-grow pricing

Results Achieved

- Latency from device to storage < 500ms
- Fully redundant platform
- Implemented threshold-based alerts
- Visualization with Grafana
- Customizable metric retention for SLA Compliance
- Down sampling of High-precision data after user defined time period

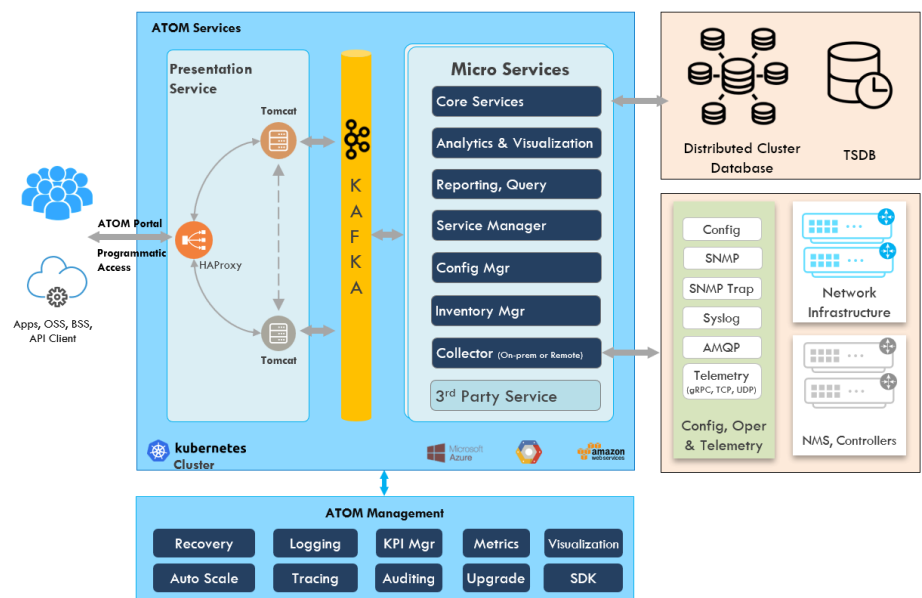
Business Benefits

- 95% reduction in response time
- 80% OpEx reduction
- Eliminated manual operations
- Achieved SLA compliance
- Avoided network downtime
- Delivered real-time analytics and historical reports

Why Anuta Networks ATOM?

Financial services network operators can deliver services faster, eliminate human errors, avoid security violations, reduce operating expense, and meet SLAs with exceptional high availability:

- ATOM is a microservices-based, web-scale networking architecture that can be deployed in Kubernetes clusters either in a local data center or a cloud-based deployment and scales horizontally to support an unrivaled 1 million+ devices.
- ATOM delivers a modular, extensible, scalable and cloud-native software platform that enables enterprises and service providers to design and provision network services, collect real-time telemetry, develop deep network analytics, ensure compliance, and provide service assurance.
- ATOM is a YANG based platform that comprises several different models including device, service, and telemetry models. The provisioning process is automated to minimize human intervention and eliminate errors.
- ATOM can detect various types of configuration changes and carry out predefined actions. Its closed loop automation remediation capabilities are significant, but organizations can customize the degree of automation based on comfort level.



Customer Results

This particular financial services customer realized the following benefits by deploying Anuta Networks ATOM:

- Reduced network response time by 95% with Closed-Loop Automation
- Reduced operating expense for network operations by 80%
- Eliminated manual errors and achieved SLA compliance