



Modernizing Retail Networks for the AI Era

Modernize your retail network with open, AI-driven automation, visibility, and compliance from the data center to every store edge.



The Retail Challenge

Retail IT teams are under pressure:

Why Retail Networks Need a New Approach

- **Unpredictable Growth:** Seasonal spikes, AI personalization, and IoT devices overload legacy networks.
- **Compliance Overhead:** PCI-DSS and data privacy mandates demand constant monitoring and reporting across data centers and the edge.
- **Thin IT Coverage:** Small teams manage hundreds of distributed stores and vendors.
- **Vendor Lock-In:** Proprietary hardware and tools drive up cost and limit flexibility.
- **Operational Downtime:** Outages impact sales, loyalty, and brand reputation.

The result? High costs, fragile operations, and limited agility to adopt AI-driven retail innovation.

How Aviz Solves It

Aviz modernizes your retail network with an open, AI-powered, multi-vendor platform built for performance, compliance, and scalability. From the core data center to every store edge, Aviz delivers visibility, automation, and choice — at a fraction of traditional cost.

AI-Powered NetOps with Network Copilot™ for Retail

- **Compliance & Security:** Continuous packet-level monitoring for PCI-DSS and in-store IoT without expensive hardware.
- **Edge Operations:** Unify SD-WAN, firewalls, and store apps under one conversational AI interface.
- **Always-On Retail:** Automated root-cause analysis and AI-assisted remediation to cut downtime.
- **Performance Optimization:** Real-time insights to balance AI workloads and customer traffic seamlessly.



The Aviz Advantage

Unified Network Fabric – SONiC + ONES

- Orchestrate and monitor multi-vendor SONiC networks across core and edge.
- Normalize telemetry for performance, compliance, and uptime visibility.
- Scale from 10G to 400G without forklift upgrades — save up to 50% TCO.

Deep Observability with Aviz PacketBroker + Service Nodes

- Packet-level visibility across stores, data centers, and remote sites (edge).
- Detect performance bottlenecks and ensure transaction integrity.
- Enable proactive compliance and faster troubleshooting.

Multi-Vendor Automation with FTAS

- Accelerate store rollouts and updates with zero-touch provisioning.
- Support Cisco, Dell, Edgecore, Nvidia, and whitebox platforms — vendor-neutral.
- Simplify operations and eliminate hardware lock-in.

AI-Driven Operations with Network Copilot™

- Natural language troubleshooting across SD-WAN, firewall, and SONiC fabric.
- Reduce MTTR by 40% and empower small IT teams with AI-guided operations.

Proven Results in Retail

One of the world's largest retailers modernized its entire global network — from AI-ready data centers to in-store visibility — with Aviz's open, vendor-neutral solutions.

Measured Outcomes:

- 40–50% lower TCO
- 99.99% uptime across distributed sites
- 2× faster store rollout cycles
- Full PCI and security visibility with packet-level monitoring
- Unified management of hundreds of stores by a lean IT team

Achieve More with Aviz

Save More (Financial Benefits)

- Lower OPEX & CAPEX via vendor choice
- Extend hardware lifecycle
- Reduce downtime & rollout costs
- Optimize AI workload performance

Achieve More (Strategic Benefits)

- Improve in-store and digital experience
- Future-proof with open standards
- Simplify compliance & governance
- Enable faster innovation with open networking