



Scale Computing™ Industry Solution Brief: Retail

Future-Ready Store Infrastructure Delivers the IT Goods

Today's retail environment is all about delivering an extraordinary customer experience while maintaining resilient, compliant, and scalable operations across every store. Scale Computing helps retail IT, infrastructure, and operations leaders modernize their environments with edge-native infrastructure, secure networking, and remote management solutions that reduce complexity, improve uptime, and simplify operations at scale.

Edge and AI for Real-Time Retail Insights

From foot traffic analytics to dynamic pricing and predictive inventory, AI is transforming the way retailers operate, and it often needs to run right where the action is: in the store.

Scale Computing solutions provide the compute power and flexibility to support AI and analytics, enabling them to run close to the source and process data in real-time without relying on cloud connectivity or centralized data centers.

- Run AI-powered video analytics for loss prevention and queue monitoring
- Process sensor and IoT data locally to reduce latency and cloud dependency
- Ensure reliable connectivity with network failover and monitoring capabilities

Support for Legacy and Modern Retail Applications

Retail operations are driven by a combination of applications, industry-specific software, and cloud-native workloads. From custom-built POS systems and loyalty programs to modern e-commerce and supply chain tools, these applications need infrastructure that can run them side-by-side without disruption.

Scale Computing solutions are designed to support this application diversity across your store footprint. This enables IT teams to modernize gradually, consolidate hardware, and simplify operations across the board.

- Run legacy POS and inventory systems without forklift upgrades
- Support Linux and Windows-based applications on the same platform
- Simplify infrastructure while preserving critical functionality
- Modernize at your own pace without breaking store continuity

“Our store is an essential resource for the community, providing dairy, services, fuel, and hot and cold foods around the clock — our customers need us any time of day. Scale Computing helps us provide that service the only way we know how: Real Fresh, Real Fast!”

– Jesse Walcott, IT Infrastructure Manager, Royal Farms

[Get the whole story](#)

Security and Compliance at Scale

Retailers manage high volumes of sensitive data, from payment transactions and loyalty programs to employee records and in-store analytics. This makes PCI DSS Compliance and protection from cyberattacks top priorities.

Scale Computing solutions are built with security-first principles, helping retailers meet PCI compliance mandates while minimizing risk. Reduce attack surfaces, enforce role-based access controls, and eliminate third-party software layers that can introduce vulnerabilities, all while operating securely in distributed store environments.

- Hardened OS and built-in hypervisor reduce vulnerabilities across store systems
- Encrypted replication and automated patching safeguard data integrity
- Zero Trust model with outbound-only connections eliminates the need for VPNs or jump servers
- Includes offerings that operate under a formal PCI DSS Attestation of Compliance (AOC) to support secure payment processing and audit readiness across distributed environments

Streamlined Operations for Every Store

Retail locations rely on a growing number of technologies, including POS, refrigeration, inventory management, building controls, surveillance, and more. Scale Computing provides a portfolio of infrastructure, networking, and management solutions that work together to simplify deployment, visibility, and support across all your locations.

- Deploy infrastructure in under an hour with minimal onsite IT
- Centrally manage systems across all locations with browser-based tools
- Automate infrastructure updates without downtime
- Consolidate support needs with one vendor and fewer tools

Always-On Infrastructure for Continuous Retail

Even brief outages can lead to lost revenue, customer frustration, and compliance violations. Scale Computing helps ensure business continuity with self-healing infrastructure and intelligent fault detection. Networking and security solutions help retailers maintain connectivity, ensure compliance, and defend against evolving threats across all store locations.

- Redundant hardware and high availability at the store level
- Automated failover and data protection for virtualized workloads
- Multi-WAN network failover and 24/7 monitoring services
- Designed to keep applications and systems online—even if hardware fails
- Monitor, diagnose, and resolve issues across thousands of locations without rolling a truck

Flexible Growth Without Disruption

Whether you're opening new stores, rolling out new technologies, or preparing for seasonal demand, Scale Computing offers solutions that scale with you, without overprovisioning, service interruption, or added complexity. Our portfolio supports a variety of deployment models, making it easier to deliver consistent performance and functionality across thousands of locations.

- Scale infrastructure and application deployments independently
- Streamline store technology rollouts with centralized management
- Reduce complexity by consolidating multiple solutions under a single support and deployment model
- Roll out new services and technologies faster, without disrupting daily operations
- Centrally orchestrate infrastructure and application rollouts across distributed environments

