Edge-enabled contactless checkout

**Retail location**

1. Edge-connected sensors identify the customer’s unique ID via an app on their phone.

   - Bluetooth
   - T-Mobile USA 5G

2. On-premises edge digests sensor and video data, then applies AI/ML and computer vision to track customer’s movement and identify items in their cart.

   - Lumen® Edge Gateway

3. Exit sensor recognizes customer’s phone and automatically processes the purchase as they leave the store.

4. Public cloud digests sensor and video data, then applies AI/ML and computer vision to track customers and identify items.

**Public cloud**

- Lumen® SD-WAN
- Lumen firewall
- Lumen® IP VPN

**Edge cloud location**

- Lumen® Edge Bare Metal
- Lumen® Edge Private Cloud
- Lumen® Dynamic Connections IP VPN

Data is sent to the cloud metro edge from multiple retail sites and then transmitted to the public cloud.

**Lumen Fiber Connectivity solutions**

- Lumen ITS, professional security services

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www.lumen.com/edge

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1For high compute use-cases, use Lumen Edge Gateway with Lumen Private Cloud.

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Lumen Edge Solutions

Services

Lumen IT Services
Accelerate your innovations with next-generation IT solutions and trusted expertise.

Lumen® Professional Security Services
Minimize threat management overload and shrink attack surfaces while maximizing defense alertness.

PaaS

Lumen® Edge Orchestrator
Organize and monitor your infrastructure, workloads and services across multi-edge environments.

IaaS

Lumen® Edge Gateway
Take advantage of an on-premises edge computing solution for WAN, security and IT workloads.

Lumen® Edge Bare Metal
Optimize app performance with dedicated bare metal servers on edge nodes designed to deliver ≤5ms of latency.

Lumen® Edge Private Cloud
Harness fully managed pre-built infrastructure for high-performance computing on our global fiber network.

Edge end points

Lumen® Edge Gateway
Take advantage of an on-premises edge computing solution for WAN, security and IT workloads.

Connectivity

Lumen® Fiber+ Internet
Leverage enterprise network reliability and scalability delivered through a self-serve digital buying experience.

Lumen® SD-WAN
Secure and coordinate workloads on a single, automated platform with centralized visibility and control.

Lumen® Dynamic Connections
Stay ahead of evolving business demands with real-time network provisioning for next-gen IT agility.

Security

Lumen® Managed Firewall Service
Secure and defend your infrastructure by protecting the network perimeter from external threats.

Lumen® IP VPN
Connect your locations globally to a flexible network with the capacity and self-service features to respond fast.