



Spectro Cloud Palette:

Your platform for retail edge success



Edge computing is your next frontier

You know that putting applications at the edge is essential to your innovation and competitive advantage as a retailer.

From smart supply chain to omnichannel integration, the edge is how you deliver new, valuable experiences for customers and store employees.

But as you build out your edge computing infrastructure, you'll run up against countless obstacles.

There's cost, of course — add up hardware, software and staff time in field visits and you risk eroding your margin instead of enhancing it. And there's security: every edge server in a store or depot is at risk of tampering, putting customer data and intellectual property at risk.

That's where we come in. Spectro Cloud's award-winning Palette is a complete software platform that deploys and manages the full lifecycle of your Kubernetes-based infrastructure and applications at the edge: simply, securely and at any scale.

Here's how it can help you.

93% of retailers say they're investigating edge computing initiatives, with **21%** expecting "strong growth" over the next 12 months.

Source: 2023 State of Production Kubernetes report

Innovate and support your business

The right stack for every edge

A warehouse won't run the same apps or hardware as a superstore.

With Palette Edge, you can build repeatable 'blueprints' for each type of location choosing from:

- A wide range of supported edge hardware, both Arm and x86, and GPUs.
- The most popular operating systems and Kubernetes distributions.
- More than 50 software integrations on top, from networking and security tools to observability and logging — or easily bring your own.
- Customized access rights.

And you won't have to reinvent the wheel each time. It's easy to build a library of consistent, reusable software stacks through our powerful **Cluster Profiles**.

Bring your VMs with you

The edge will become the home for all kinds of applications, new and legacy — and we know there's neither time nor budget to modernize everything at once.

With Palette's **Virtual Machine Orchestrator** capability, you can run and manage your traditional VM workloads in a modern Kubernetes environment, side by side with your containerized apps.

You'll benefit from truly consistent policy enforcement and management workflows across your entire app estate, without the cost or delays of having to refactor legacy applications.

Embrace the potential of AI

The most transformative retail applications now use AI deployed on the edge: from conversational shopping assistants to smart security cameras detecting theft.

Running AI workloads at the edge means that sensitive data stays on the local device, avoiding the latency and cost of sending it to the cloud. But managing AI models and engines also adds complexity to the already considerable challenges of edge computing.

Palette's **EdgeAI** features make it simple. You can integrate AI engines, like Kubeflow, directly into your Cluster Profiles, and deploy your specialized preferred models right to your edge devices with a click. We make it easy to update, roll back and secure your AI applications and the models that power them.

Get inspired

Discover some of the most transformative retail edge use cases in our white paper at info.spectrocloud.com/retail-edge-k8s-whitepaper

Drive down your edge expenses

Slash field engineering costs

One of the biggest barriers to adopting edge computing is simply getting servers up and running after shipping them to your stores.

When you're talking about hundreds or thousands of remote sites, it's unthinkable to send your team of Kubernetes experts out on the road to visit each one. And you can't just hope that a store manager will muddle through.

Palette Edge has the answer. It offers low-touch onboarding on site via QR code, or taken together with hardware configuration staging at the warehouse, offers true **zero-touch deployment** in the store. And when the node is up and running, we keep it that way, with zero downtime over-the-air (OTA) rolling upgrades.

Save 33%+ on HA hardware

Edge is expensive — especially at scale. If you need high availability (HA), conventional Kubernetes architectures typically require a minimum of three hardware nodes at each site, plus the cabling, cooling, power, space and spares inventory that goes along with each of those hardware boxes.

Palette Edge has a radical solution: **two-node HA**. We can deliver the same resilient HA uptime while saving you the cost of a box per site, as well as the ancillary costs that come with it. There's no catch, and no other vendor can do it.

Free to take edge anywhere

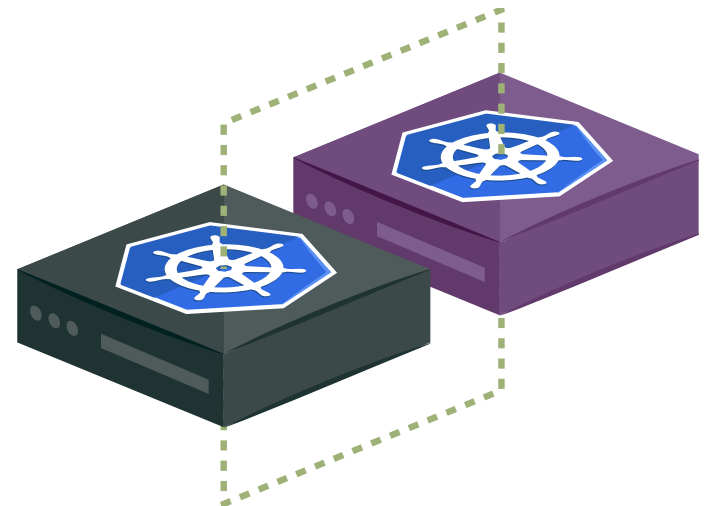
Edge stores and depots may be in remote or rural locations where connectivity is a precious (and costly) commodity.

With Palette Edge, you can bring the latest revenue-generating experiences to all your sites, without having to provision costly high-bandwidth connectivity from these sites back to the cloud.

Our **decentralized architecture** means your services continue to run and enforce policy locally, even when there's no connection back to the central management plane, whether in a designed air-gap architecture or just because the rural broadband has gone down.

Discover the future of edge security

Learn more about the unique Secure Edge-Native Architecture in our white paper:
info.spectrocloud.com/secure-edge-nativearchitecture



Manage risk

Protect your assets and data

You need to have confidence that your mission-critical, customer-impacting workloads are safe and secure even when they're deployed to far-flung edge locations.

Palette Edge provides a comprehensive, multi-layered security architecture that guards against all kinds of threats. Our controls include SBOM scans, FIPS-level cryptography, persistent data encryption, even immutable cluster images and hardened configurations.

We're so passionate about edge security that we worked with Intel to develop the Secure Edge Native Architecture, **SENA** — the first comprehensive roadmap to securing Kubernetes-based edge deployments.

A partner you can trust

When you choose any vendor, you need to know you can rely on their products, and their team.

At Spectro Cloud, we have earned a first-class reputation as a leader in edge computing over the past five years, not only racking up recognition and awards (bit.ly/3Rv09Nt) from analysts and industry experts, but five-star reviews from real customers too. (bit.ly/45WVCaM)

We take our responsibilities seriously, and ensure that our business processes and technology are compliant with the highest standards, from ISO 27001 to SOC 2. We offer 24x7 enterprise-grade support and back our SaaS platform with a 99.9% uptime SLA.



Start your edge journey with us

Whatever innovative edge projects you're working on, we can help you bring them to life — quickly, efficiently, and securely. Set up a consultation today by speaking to your preferred technology partner, or visit: spectrocloud.com/get-started

