



Cognizant[®] Edge AI Infrastructure Solution

A fully managed edge platform for the multisite enterprise.

Business challenge

Enterprises running dozens or hundreds of sites—like hospitals, plants or stores—hit a wall when they try to modernize at the edge. Every new site is hand-built: standing one up takes weeks of senior IT effort and engineers on the ground, so IT becomes the bottleneck on expansion, and no two sites end up configured the same way. Day-to-day operations stay manual and reactive—patching lags, configuration drifts from site to site and problems are spotted by users instead of caught in advance. Security is applied unevenly across a sprawling estate, leaving blind spots and no consistent zero trust posture. Cloud round trips are too slow for latency-bound and safety-critical workloads, and routing data across borders creates data-residency exposure. Traditional data center tooling was never built to scale to the edge—the result is unpredictable downtime, rising cost and growing security risk.

Our value proposition

Cognizant® Edge AI Infrastructure Solution is a fully managed edge infrastructure solution that simplifies the deployment and management of AI applications at the edge. It puts compute and storage at every site and runs the whole estate from one central control plane. New sites onboard with zero touch—hardware ships sealed, establishes a cryptographic device identity and self-provisions from a standard blueprint. That's how it is platform-ready in days, not weeks, with no senior IT on site and the same configuration every time. That same blueprint model pushes application and policy changes across a fleet of edge computing devices in hours rather than dispatching an engineer per site. Security is zero trust by design: every node is verified and micro-segmented, enforced continuously and uniformly across all locations.

Then, Cognizant Neuro® IT Operations provides predictive, self-healing operations that resolve issues before users notice. The solution hosts customer and vendor AI/applications as containers; Cognizant sells the reliable floor the AI stands on, not the clinical or operational outcome itself. It is available in three tiers (Edge Lite/Grow/Rise), built on Dell Distributed Private Cloud (formerly known as Dell NativeEdge) and Nutanix, and wrapped with 24/7 managed services under one contract and one point of accountability.

Key differentiators

- Right platform per site, one estate: Dell Distributed Private Cloud from a single node for lean sites and Nutanix HCI where data loss is unacceptable, under one managed wrapper
- No hypervisor license—KVM-based virtualization is built in, with no separate VMware cost or renewal
- Zero touch, blueprint-driven onboarding with sealed hardware ships and self-provisions from a standard configuration
- Vendor-neutral AI hosting that runs any customer or ISV AI as a container—and we provide the floor the AI stands on
- Sensitive data is processed locally and doesn't need to cross borders—with architecture that supports your compliance program
- One point of accountability with Cognizant Neuro IT Operations delivering predictive, self-healing operations across the whole fleet

Target buyers

- CIO: infrastructure reliability at scale, vendor consolidation and lower operating cost
- CISO: data residency, unified security posture and audit readiness
- COO: faster site expansion and IT off the critical path for new locations
- CFO: predictable subscription model, per-node pricing and 1/3/4/5-year terms

Best fit: multisite hospital chains, multiplant manufacturers and multistore retailers—typically multicountry with a minimum of five sites.

Business value for clients

- Up to 40% lower edge operations cost and up to 60% fewer manual interventions
- 3–5x faster standup of new sites and up to 80% less field-service dispatch
- Expansion no longer gated by IT capacity—opening more sites per year with the same team
- Low-latency local inference and resilience—latency-bound workloads keep running even when the WAN is down
- Audit-ready architecture with a central inventory of every endpoint and per-jurisdiction policy enforcement

Outcome ranges are targets; actual value is confirmed against a baseline assessment of the client's current process. Dell's ESG-validated benchmarks (Feb 2025) report ~68% time saved in app orchestration and device onboarding in ~20 minutes.

Partner ecosystem

- Dell Technologies: Distributed Private Cloud, PowerEdge, XR and OptiPlex hardware
- Nutanix: enterprise HCI/distributed storage fabric for stateful, mission-critical workloads
- NVIDIA: GPU acceleration and AI blueprints (NIM, Metropolis, Riva) available through Dell