HCLTech | Supercharging Progress™

Intelligent Data Center Networking

AI-Native, Intent-Driven Data Center for the Modern Enterprise

Transform Your Data Center for the AI Era

Modern enterprises require networks that are fast, scalable, secure, and intelligent. Traditional data center networking approaches struggle to support hybrid cloud environments, AI workloads, and dynamic applications.

HCLTech's Intelligent Data Center Networking, in partnership with **HPE**, delivers a software-defined, AI-driven architecture, helping organizations advance along the journey toward the self-driving data center—a transition from reactive operations to proactive, agentic, and self-healing systems.

Why It Matters

AI & ML workloads demand ultra-low latency and high bandwidth

Hybrid multi-cloud require seamless connectivity

Operational velocity manual operations can't keep up with dynamic DC infrastructure

Built-in Security compliance and zero-trust must be built into the DC fabric

Key challenges we solve

Complexity
Managing traditional and AI workloads within a unified fabric.

Performance
Solving east-west traffic bottlenecks that impede AI scalability.

Visibility
Eliminating silos across the network, compute, and application layers.

Security
Simplifying microsegmentation and zero-trust enforcement at scale.

Our Solution

An integrated, AI-native data center networking solution combining:

Intent-Based Networking (HPE Networking Data Center Director)

- Single Source of Truth (SSOT) with contextual graph data base
- Continuous real time validation of network state against intent
- Close-loop automation and assurance

AI Operations (HPE Mist Networking Data Center Assurance)

- Proactive monitoring and AIOps insights
- Agentic AI-assisted troubleshooting and remediation
- Application-aware performance analytics

Automation & Managed Services (HCLTech)

- Network-as-Code (NaaC) deployments
- Agentic AI-enabled managed services
- End to end lifecycle support: Design -> Deploy -> Operate

Business Benefits

Predictable Performance
Scalable foundations for AI and traditional workloads

Enhanced Security
Zero-trust architecture built into the network core.

Operational Resilience
Predictive analytics and agentic AI reducing downtime.

Simplified Complexity
Lifecycle automation

Unified Insights
End-to-end visibility across applications and infrastructure.

Real-World Use Cases

- AI-ready data center networking (HPE AI Factories)
- AIOps-driven network assurance
- Microsegmentation and zero-trust implementation
- High availability with DC-DR architectures
- Service chaining and automated provisioning

Why HCLTech + HPE?

- **Faster time-to-market** with global deployment expertise
- **AI-first operations** simplifying complex environments
- **Proven expertise** backed by dedicated CoE
- **Automation at scale** across the entire network lifecycle
- **Pre-validated solutions** through advanced labs

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