DXC Secure Network Fabric

Software-defined data center with distributed services architecture

Digital transformation is driving a need for modern application infrastructure, leading to significant data center enhancements. Organizations have come to expect agility, scalability, high performance and uncompromised security in the data center fabric.

Among other changes, modern containerized applications are driving a significant increase in traffic within data centers, known as east–west traffic. The data center network architecture must adapt to these growing and changing demands.

DXC Secure Network Fabric is a scalable software-defined data center solution that simplifies, modernizes, automates and secures the data center network at a lower cost, providing central orchestration enhanced with zero-trust macro- and micro-segmentation using a distributed service architecture.

The new secure data center network

The new data center network calls for features and functionality similar to hyperscalers:

- Greater programmability, automation and integration across physical and virtual network components
- More control and visibility at the network edge
- Greater bandwidth to support application modernization
- Policy-based control for traffic movement on intra-VLAN and inter-VLAN at port level

- Simplified and automated operations with high performance through systems integration

How it works

DXC Secure Network Fabric is built on:

- **Distributed services hardware platform.** Leveraging HPE Aruba Networking CX 10000 series switch and AMD Pensando DPU technology, the solution provides 800G of processing capacity to serve multiple stateful services concurrently.

- **Reference architecture providing integrated network services and functions.** Optimize devices and reduce TCO with combined functionality for multiple services and features like routing, switching and security — all integrated.

- **High-performance architecture.** Line rates of 10/25 GbE and 40/100 GbE and 3.2 Tbps of switching capacity enable superior application performance of data center workloads.

- **Integrated security and segmentation.** Stateful firewall/ NAT/IPsec functionality is embedded at a switch-port level. This assists in network policies with macro- and micro-segmentation.

- **Centralized rollout, operations and management.** Fully integrated HPE Aruba Networking Fabric Composer and Pensando Policy and Services Manager drive centralized workflow-based configurations, integration of various alarms and events in the DXC management tools platform, and improved overall traffic visibility.

DXC TECHNOLOGY

Our global workforce, supported by our strong partner ecosystem, has the experience and certification to guide your organization on its end-to-end transformation journey.

Optimized footprint
Up to **83%** reduction in data center network security infrastructure footprint

Accelerated onboarding
>60% reduction in time to onboard/migrate customer workloads

Secure workloads
>70% increase in workload security posture

Simplified operations
Up to **30%** increase in telemetry data visibility and **>50%** reduction in operational efforts

Note: Statistics are from research done by DXC.

Benefits

- **Reduced cost.** The solution helps reduce physical data center devices by 45% to 50% and lowers costs associated with space, cooling and power requirements.

- **Automation at the core.** 100% configuration and security policies deployment through a fully integrated orchestrator (HPE Aruba Networking Fabric Composer and Pensando Policy and Services Manager).

- **Simplified operations.** Get greater visibility, centralized control and integration with DXC Platform X™, DXC's data-driven intelligent automation platform that enables your organization to accelerate the journey to resilient, self-healing IT across your entire IT estate, for efficient operations and quick resolution.

- **High performance with uncompromised security.** Get 10x better performance and tighter security control and policies.

- **Transformation at speed and with zero risk.** Leverage the power of DXC Modernization Director to plan and execute your transformation with zero risk.

- **Safe pair of hands.** Our global workforce, supported by our strong partner ecosystem, has the experience and certification to guide your organization on its end-to-end transformation journey.

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