OmniFabric: Multi-technology fabric for enhanced security

A unique network fabric that ensures end-to-end security in a Zero Trust Network architecture with automated segmentation for both IT and OT environments.

Alcatel·Lucent
Enterprise

The best security in any network architecture

A multi-technology autonomous fabric ensuring end-to-end security with automated segmentation for both IT and OT environments.

A unique solution offering embedded, **automated IoT device detection and segmentation**.

Multi-Technology Integration: **Supports SPB, MPLS and EVPN** within a single operating system (AOS) ensuring superior **flexibility and performance**.

Multi-Technology Integration
Ensuring superior flexibility and performance.

Enhanced Cybersecurity
Protects data integrity and prevents unauthorized access with support for Zero Trust networks and micro-segmentation.

Built-in Automation
Advanced automation features streamline network operations, reduce manual intervention and minimize human errors.

Secure IoT Connectivity
IoT devices are automatically detected, classified, and contained in virtual segments.

Easy monitoring
Single pane of glass, augmented with AI-powered analytics. This is particularly beneficial for customers with limited resources.

Customizable Solutions
Offers the choice of multiple technologies to be used depending on the area or architecture -SPB in campus networks, EVPN in data centers, and MPLS in metropolitan area networks (MAN).

Enables operational technology teams
to connect devices to the network without increasing exposure to cyberattacks. This capability is included at no extra charge.

Flexibility and Interoperability
Compatible with environments where equipment from various vendors coexist, eliminating vendor lock-in and adapting to diverse underlying architectures, from edge to data center. It offers increased choices and freedom to customers.

Simplified Operations
OmniFabric ensures an easy learning curve and management with all protocols integrated in one Operating system.

Optimized Total Cost of Ownership (TCO)
With no hidden fees, simple procurement, ease of learning and unified management through Alcatel-Lucent OmniVista.

IT/OT Convergence
Available for both indoor and outdoor/and harsh environments.

OmniFabric

Enforcing security in your Network Fabric Technology choice

	SPB	EVPN	MPLS
Main Use Cases	Datacenter, Campus, IoT Networks	Datacenter	Service Provider & Mission critical networks
Scalability	Large	Large / Very Large	Large/Very Large
Resiliency	★★★★★ High	★★★★★ High	★★★★★ Very High
Ease of Deployment	Simple	**Moderate** to Complex	Moderate to **Complex**
Training Needed	Low	**Moderate** to High	High
Protocol Overhead	😊 **Low** IS-IS only	😐 **Moderate** BGP & VXLAN/MPLS	☹️ **High** LDP, RSVP, BGP
Troubleshooting	Simple & Fast	Intermediate time	Complex & Slow

Supporting SPB (Shortest Path Bridging), MPLS, and EVPN within a single AOS platform, OmniFabric network fabric provides unmatched flexibility, integrating seamlessly into diverse vendor ecosystems to prevent lock-in.

OmniFabric's advanced automation reduces manual tasks, minimizes errors, and simplifies complex network management. It's a cost-effective solution that includes essential cybersecurity measures, such as micro-segmentation and AI-powered analytics, at no extra charge. From smart buildings to critical infrastructure, OmniFabric adapts to various use cases, delivering reliable, end-to-end security that lowers Total Cost of Ownership while enabling IT/OT convergence.

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