

ONEFABRIC

Network Fabric for Predictable Application Delivery from Data Center to Edge



The Application Delivery Challenge

Fabric computing both as a management paradigm and a data center topology has broad implications to the traditional networking market. Virtualization has become a mainstream technology, and has driven a “mainframe-like” centralization of resources in the data center. As a result, the density of computing and storage resources is rising and driving the requirement for higher network density in terms of ports, bandwidth, and management overhead.

Importantly, the one-size-fits-all of the mainframe era has been replaced by a need to deliver diverse applications with rich functionality to highly skilled users. This means a well-oiled data center is no longer sufficient to satisfy the needs of business—instead the focus needs to be on the end-to-end delivery of applications.

Solution Overview

OneFabric from Enterasys is an innovative architecture that provides simplicity, scalability, and control for complex IT environments. OneFabric enables you to rapidly scale your network with your business, without sacrificing high performance or low latency. By embedding intelligence into every network device—from the data center to the edge—only OneFabric provides globally enforced, role-based policy controls for rate limiting, prioritization, and filtering at the application layer, based on the identity of end users, applications, or devices.

A Unique, Unified Approach

By creating one network environment, delivering one network and application experience, OneFabric provides centralized visibility and control over the entire network. Centralized visibility enables infrastructure and application teams to work together, eliminating costly misalignments and errors that occur through typical operational workflows. Embedded automation features improve application delivery for dynamic environments leveraging cloud, virtualization, server/storage consolidation and the consumerization of IT. The once-complex task of provisioning and de-provisioning servers and network infrastructure is made simple: defined locally and enforced globally achieving significant scale, improved operational efficiency, and more reliable and successful application delivery.

OneFabric[™] BENEFITS

Business Alignment

- Delivers applications across virtualized, highly mobile networks—simply and predictably
- Reduces complexity with centralized management and automated provisioning
- Lowers IT costs by eliminating disparate, patchwork management systems
- Integrates seamlessly into larger, more complex multivendor networks
- Guarantees service level agreements to business groups

Operational Efficiency

- Achieves network management efficiency gains of up to 90%
- Enables IT administrator-to-user ratios of 1-to-5,000 or better
- Increases visibility and control to streamline operational workflows, while reducing errors
- Supports rapid growth of applications and users in virtual environments
- Improves control with embedded security at every layer, enforced at every device
- Scales seamlessly with an extensible, standards-based fabric

A unified management experience is provided by **OneFabric Control Center**, which allows network operations to leverage the power and intelligence built into Enterasys networking solutions. OneFabric Control Center also supports and protects your investment in the myriad of third-party network devices already powering existing networks. Finally, OneFabric Control Center integrates with major virtualization solutions, delivering unique and differentiated network-layer capabilities for virtual data centers.

“As we continued to virtualize our environment, while also becoming more highly mobile, we struggled to manage each virtual machine and device with its own set of provisioning and security requirements...Enterasys Data Center Manager, now integrated in OneFabric Control Center, provides us the automation necessary to appropriately provision and secure each device. Providing that level of automation and visibility across the entire network is imperative to manage the changing ever-evolving nature of our network”

– Michael Proft, Network Manager, University Hospital Leipzig

The OneFabric Solution Architecture

The OneFabric Control Center manages three core components:



OneFabric Control Center



OneFabric Data Center

- S-Series Modular Switches
 - S4, S6, S8
- SSA Top of Rack Switch



OneFabric Edge

- S-Series Modular Switch (S3)
- SSA Edge Switch
- K-Series Modular Switches
- Standalone and stackable switches
 - A4, B5, C5, D2, G3
- Wireless
 - Wireless Access Points
 - Wireless Controller
 - Virtual Wireless Controller



OneFabric Security

- Intrusion Detection and Prevention (IDS/IPS)
- Security Information and Event Management (SIEM)
- Wireless Intrusion Prevention System (WIPS)
- OneFabric Network Access Control

WANT TO LEARN MORE?

Discover what OneFabric can do for your business and your entire network management team. Talk to an Enterasys representative today or visit us at enterasys.com/onefabric.