

# Extreme Fabric



## Extreme Fabric Highlights

- Standards-based Layer 2 simplified network fabric simplifies and automates networking and network security across campus, data center and branch
- Shortest path bridging (SPB), edge-only provisioning and dynamic auto-attach of new devices accelerates new services
- Instant self-healing, typically 200 milliseconds, cuts the risk and cost of downtime and disruption.

## Extreme Solution Highlights

- Extreme Platform ONE™ adds AI-powered networking management, advanced physical, fabric, and service views all with a single inclusive subscription.
- Together, Extreme Wireless, Wired, and Fabric provide a secure, resilient, and robust solution for wireless backhaul through the network to support critical applications and experiences.
- ExtremeCloud™ SD-WAN extends Extreme Fabric's simplicity, security, and automation across network locations to deliver value at scale.

## Extreme Fabric

Network and security automation across campus, branch, and data center

Networking and compliance requirements have rapidly increased to keep pace with new and emerging technologies. AI is now poised to produce another period of rapid and sustained networking growth. Protocols that were intended to make the network easier to manage and secure have made it exponentially more complex. In the digital age, network operations teams need automated, secure, and resilient solutions to keep up with the rapid pace of change.

**Extreme Fabric** is the industry's most simple, automated, secure and resilient network fabric solution. Extreme Fabric, built on Shortest Path Bridging (SPB), is a network virtualization and automation solution.

- **Simplified networking, end-to-end:** Fabric simplifies and securely isolates network segment across campus, data center, and branch networks in one topology across multiple sites.
- **Network automation and resilience that just work:** Automated, edge-only provisioning makes a Fabric simple to deploy and scale with fast time to service and reduce risk of error and misconfiguration. Instant self-healing greatly reduces the risk of unplanned downtime, as well as the need for maintenance windows.
- **Secure scalability:** Fabric core and virtualized segments are also inherently secure, with integrated network access control policy, automated macro and microsegmentation, and stealth core topology.

**No network fabric solution is more turnkey, resilient, or cost-effective.**

# Simplified, Automated, and Secure Networking that Just Works

Extreme Fabric delivers unparalleled benefits for a fraction of the cost and complexity of alternatives. Manual moves, adds, and changes are high-cost, time-consuming, and error prone. Network automation suites require significant capital and time investments to develop return. Security solutions are often expensive and bolted on. Extreme Fabric delivers network and network security automation out-of-the-box and it comes free with the purchase of Extreme Universal fabric-native switches, no need for premium management licenses or extra controllers.



## Simplified Operations

**Highly scalable, operationally consistent across campus, data center, and branch**

Networking in distributed organizations can be especially time-consuming. Fabric enables simplified operations for IT and end-users alike with consistent operations, everywhere. Bring together separate network segments and processes. Fabric eliminates the need to configure multiple protocols and replaces them with just one. Integrate IP Multicasting directly into the stack—no need for complicated protocol overlays, resulting in simplified provisioning to enable highly scalable networks.



## Faster Time to Service

**Edge-only provisioning, automated services**

Today's rapid evolving environment requires agile service moves, adds, and changes. Fabric simplifies, automates, and secures new network segments. Fabric's edge-only provisioning approach makes it simpler, faster, and lower risk to change current network services and deploy new ones. Automated configuration and segmentation of switches and APs, as well as client devices, improves user experience and shortens service delivery windows.



## Reduced Downtime

**Instant self-healing, typically 200 milliseconds**

Downtime poses an enormous risk and cost. Automate business continuity. Fabric enables on average sub-second convergence when services are disrupted, even for networks involving tens of thousands of devices. Fabric reduces core downtime, as well as the need for planned maintenance and off-hours maintenance windows for Layer 2, Layer 3, and IP Multicast services. SPB's deterministic paths enables troubleshooting to focus on end-to-end path instead of examining each hop individually.



## Simplified Network Security

**Stealth core topology invisible to IP-based scans and attacks**

Safeguard and secure the network. Fabric's Layer 2 network core approach renders the core topology invisible to the every-growing ecosystem of IP-based scans, attacks, tools, and services. Ethernet switch paths mean no hop-by-hop IP routes to trace, making further exploits even more challenging.



## Automated Segmentation

**Macro- and micro-segmented services across campus, branch, and data center**

Flat, open networks increase security and compliance risks. Simplify and automate network segmentation. Fabric automates macro- and micro-segmentation can segment IoT and end-user devices and support a more granular, zero-trust security approach, reducing the risk of threats gaining access to and moving across the network. Integration with Extreme's network access control solution makes it easy to manage and automate network access policy through Fabric.



## Automated Edge Security

**Just-in-time, ephemeral services**

Simplify and expedite provisioning of new devices and services while reducing the risk of network exposure. Fabric extends network segments to the edge only when required and only for a specific application session. As applications terminate, or end-point devices disconnect, segments and connectivity cease to be available, reducing the risk of network access by unauthorized devices or users. Services are presented only at the edge nodes and the core nodes are only involved in data forwarding and never terminate services.

# Extreme Platform ONE



# for AI-Powered Networking

## Extreme Fabric over Wired, Wireless, and SD-WAN

### Network Automation



## Industry's Simplest Fabric Meets All-in-One AI for Networking

**Auto-sensing, self-forming fabric:** new devices are discovered and attached in seconds.

**Edge-only provisioning:** two touches to create a new service rather than dozens of box-by-box changes and uplinks.

**Automated optimization:** shortest path bridging and instant convergence provide a nonstop flight for network traffic.

**Integrated access security:** Fabric and other security policies are enforced by Extreme Universal switches and APs.

**Transport independence:** Metro Fiber, Metro Ethernet, MPLS, or ExtremeCloud SD-WAN simplifies redundancy and cost control

**AI for Networking:** Extreme Platform ONE makes connectivity simple with the industry's first AI for networking platform with conversational, multimodal and agentic AI.

## Extreme Fabric Solutions: Simple to Own and Operate

Extreme Wired, Wireless, and SD-WAN work together with AI-powered network and security management to deliver an integrated, automated, and scalable solution that enables high-quality, consistent experiences with lower total cost of ownership.


**Fabric Wired**  
Add Universal Switches for core and edge use cases

Extreme Fabric included FREE with fabric-native Universal Switches




**Cloud Fabric Wired**  
Add Extreme Platform ONE™ networking subscription

All-in-one networking platform with AI, including Fabric visualization and configuration



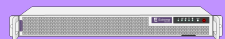

**Cloud Fabric Wired & Wireless**  
Add Universal APs

Extreme Fabric simplifies deployment and segmentation. Wired & Wireless enable always-on, energy efficient experiences.



**Cloud Fabric over Wired, Wireless & SD-WAN**  
Add ExtremeCloud™ SD-WAN

Fabric over SD-WAN unifies, automates, and secures campus, branch, and data center



# Extreme Fabric Connects the Empowered Enterprise

Extreme Fabric enables automation, innovation, and cost control that enables IT teams improve user experience, operations, and outcomes.



## Better User Experiences

- Automatic optimization based on shortest path
- Instant self-healing in case of downtime or disruption

## Secure Scalability

- Automated macro and microsegmentation
- Built-in stealth core switch paths
- Scalability to thousands of network devices

## Improved Operations and Outcomes

- Accelerated, secure segments and services
- Segmented IT/OT connectivity
- Security and safety (e.g., cameras)
- Smart lighting, HVAC, energy management
- IPTV, digital signage, biometric screening
- Point of sales and digital payments

## Real-World Challenges, Real-World Results



**SKODA**

Škoda Auto, part of the Volkswagen Group, cut time spent on upgrades and network changes by **80%**.



**HARRY REID  
INTERNATIONAL  
LAS VEGAS**

Harry Reid International Airport Las Vegas sped up configuration time for creating new secure network segments **from days to hours**.

**Prima CARE**

Prima CARE reduced support tickets by **80%** across 20+ medical offices.

## What's Next?



[Explore Extreme's Product Catalog](#)



[Request a Demo of Extreme Platform ONE](#)



[Contact Extreme Sales](#)



[Locate an Extreme Partner](#)