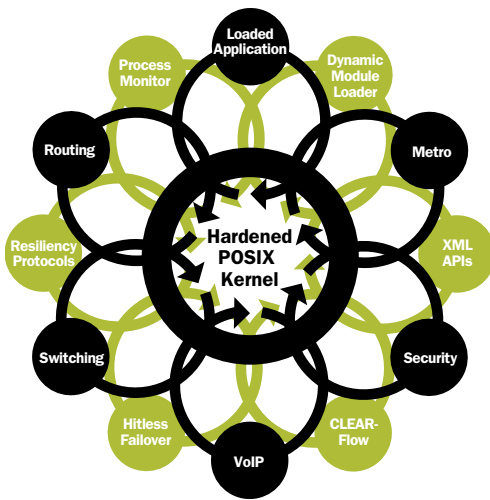


ExtremeXOS



ExtremeXOS®—a highly available, open and extensible foundation for converged networks.

High Availability Architecture

- Reduce network downtime using hitless failover/upgrade and module level software upgrade
- Prevent system corruption using a memory-protected process model
- Avoid system reboots using self-healing process recovery

Extensible Functionality

- Integrate best-of-breed applications to your network with an open, yet secure XML-based Application Programming Interface (API)
- Integrate Extreme Networks® and third party-developed software applications using an open standards-based POSIX interface
- Extend network functionality and automate management tasks using CLI scripting and Universal Port

Integrated Security

- Guard access to the network through authentication, Network Login/802.1x, and host integrity checking
- Harden the network infrastructure with Denial of Service (DoS) protection and IP Security against man-in-the-middle and DoS attacks
- Secure management using authentication and encryption

Extreme Networks has revolutionized the industry by creating ExtremeXOS—a highly available and extensible foundation for converged networks. ExtremeXOS raises the bar for availability, critical for offering carrier-grade voice and video services over IP and to support mission-critical business applications such as CRM. A more available network also lowers operational costs by drastically reducing emergency maintenance.

ExtremeXOS allows you to extend the capabilities of your network. It allows you to integrate specialized application appliances such as security devices into your network. ExtremeXOS has been designed from the ground up to support the next-generation Internet Protocol, IPv6. Even if you are not planning to use IPv6, ExtremeXOS will secure the network using IPv6 Access Control Lists and provide investment protection for your network.

Security capabilities provide network access control integrated with endpoint integrity checking, and network control and management plane protection. Its innovative Universal Port framework provides dynamic security policies for users as well as autoconfiguration of ports and VoIP phones.

ExtremeXOS has been deployed in production networks for over two years, making it the only next generation operating system in the industry that can be safely deployed without “early adopter” risks, and that spans a complete product line from value edge to core metro Ethernet.

High Availability Architecture

ExtremeXOS creates a highly available network for voice services and other mission-critical business applications.

True preemptive multitasking and protected memory allow each of the many processes—such as resiliency or device management protocols—to run as separate Operating System (OS) processes that are protected from each other.

With process monitoring and restart, ExtremeXOS dramatically increases network availability. Each independent OS process is monitored in real time. If a process becomes unresponsive, actions can be taken such as hitless failover or automatic process restart.

Hitless failover to the redundant management module is available on the BlackDiamond® 8800 series, the BlackDiamond 10808, the BlackDiamond 12804 and the BlackDiamond 20808. In addition, the BlackDiamond 10808, the BlackDiamond 12804 and the BlackDiamond 20808 are capable of hitless upgrade of the OS.

ExtremeXOS also provides the capability of upgrading individual parts of the OS (modules). As an example, upgrading the SSH application will not impact data forwarding.

Extensible Functionality

ExtremeXOS allows for flexible expansion of network capabilities by providing a means for third-party applications in the network to interact directly with the OS. If you need to extend your network to handle other applications or integrate monitoring software or security devices, ExtremeXOS integrates best-of-breed solutions with an open yet secure XML-based API. For example, this extensibility allows integration with third-party applications such as security appliances, service provisioning software, and VoIP monitoring solutions to provide a

closed loop for new monitoring and response capabilities. It also serves as a framework for integration with management software such as service provisioning solutions.

With its innovative dynamic software loading capability, additional applications can be loaded, started and stopped without impacting traffic forwarding or management of the network. This allows partners of Extreme Networks such as Avaya to provide specific extensions such as VoIP call quality monitoring.

ExtremeXOS offers CLI scripting to allow you to automate regular management tasks and applying them to multiple ports or easily replicate on multiple switches.

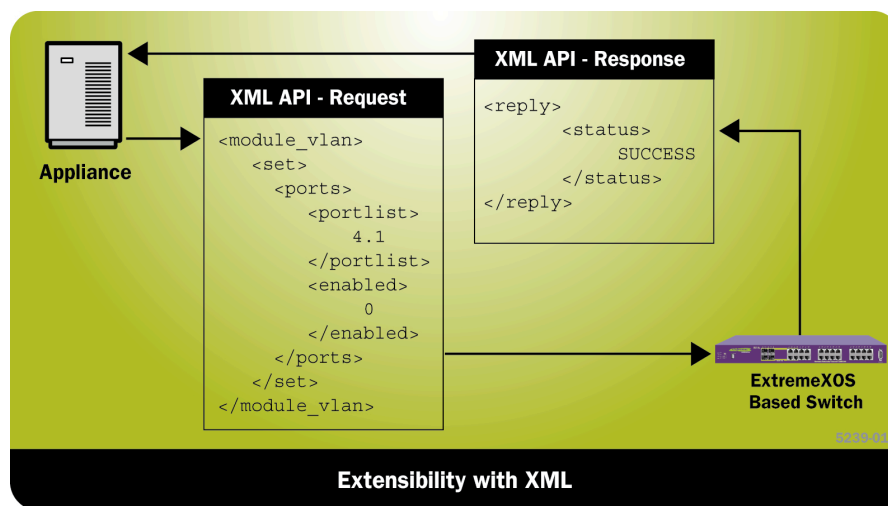
Integrated Security

ExtremeXOS guards access to the network through authentication, host integrity checking and dynamic user/time/location-based security policies. It hardens the network infrastructure with Denial of Service (DoS) protection and IP Security to protect the infrastructure, network services, applications and client devices/computers from man-in-the-middle attacks and eavesdropping. It also provides a full suite of secure management protocols using authentication and encryption, ensuring continued control over your infrastructure.

ExtremeXOS Network Login dramatically eases the rollout of user authentication solutions and activation on every port, including device ports such as for printers or VoIP phones, as it offers a choice of 802.1x, Web-based and MAC-based authentication. Host computers without 802.1x support can use Web-based authentication to log into the network or a limited network access to install 802.1x.

ExtremeXOS IP Security framework protects the network infrastructure, network services such as DHCP and DNS and even host computers from spoofing and man-in-the-middle attacks. It also provides network protection from statically configured and/or spoofed IP addresses as well as building an external trusted database of MAC/IP/port bindings so that you always know where traffic from a specific address comes from for immediate defense.

ExtremeXOS has been designed from the ground up to support the next-generation Internet Protocol, IPv6. Even when not planning to use IPv6, ExtremeXOS will secure the network using IPv6 Access Control Lists and provide investment protection for your network.



www.extremenetworks.com

email: info@extremenetworks.com

Corporate and North America
 Extreme Networks, Inc.
 3585 Monroe Street,
 Santa Clara, CA 95051 USA
 Phone +1 408 579 2800

Europe, Middle East, Africa and South America
 Phone +31 30 800 5100

Asia Pacific
 Phone +852 2517 1123

Japan
 Phone +81 3 5842 4011

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