

# EdgeXOS: FEATURES

## BANDWIDTH CONTINUITY SOLUTIONS

The EdgeXOS (XRoads Operating System) platform is a modular system which incorporates a number of bandwidth management components. The following is a list of some of the primary features built-in to the EdgeXOS solution set, including a number of patented technologies not found in other products on the market today. For more information, please contact an XRoads Networks sales representative.



**Accelibond ISP Bonding** - Unique bonding technology which combines multiple Internet connections (3Mbps + 5Mbps = 8Mbps) in order to dramatically accelerate web site downloads from one or more remote server resources.



**Adaptiband DBM** - Dynamic Bandwidth Management includes unique traffic shaping and QoS capabilities which greatly simplifies bandwidth control. DBM automatically minimizes P2P usage and bandwidth hogs, thus preventing "network slowdowns".



**ActiveDNS (DNS Server)** - Enterprise class DNS services are built-in to the EdgeXOS platform which enable multi-WAN server load balancing and failover. Specialized delegation feature prevents domains from having to be transferred.



**Site2Site (VPN Virtualization)** - Multiple ISP tunnel bonding (for improved performance) and automated tunnel failover highlight the capabilities of the EdgeXOS appliance when it comes to connecting remote and/or branch offices to central data centers.



**MVP Routing** - Intelligent next generation vector routing technology which is designed to automatically adjust network routes as needed to optimize and prioritize application performance and ensure 99.999% uptime.



**Real-Time Traffic Reporting** - The EdgeXOS platform includes real-time network reporting using our XFlow technology. XFlow monitors network traffic and reports on throughput, application usage, and top users via continuously updated graphs.

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**Transparent Installation** - Easy to setup, no changes to the existing IP addressing or the network configuration is required. The EdgeXOS includes a simple web interface which enables administrators to get up and running quickly.



**Next Generation Firewall** - The EdgeXOS firewall provides customers with the ability to replace or offset their existing firewall capabilities. The rules-based firewall enables the administrator to allow or deny traffic and/or log traffic for simplified troubleshooting.



**Comprehensive Router** - Built-in to each EdgeXOS appliance is a full set of standard network routing capabilities, including DHCP, VLANs, secondary interface addresses, static routing, RIP/OSPF routing, and XRoads' specific routing algorithms.



**ActiveHA (ISP Failover)** - In the event of a network outage, the EdgeXOS platform automatically detects and fails over to the remaining active connections. SLA reporting and deep path inspection constantly monitors link status.



**Server Load Balancing (SLB)** - Enhance application delivery to end-users via Exchange, Terminal Server, or web-based load balancing in conjunction with automated secondary ISP failover and redundancy utilizing the EdgeXOS appliances.



**Application QoS/Throttling** - Prioritize application traffic and/or guarantee bandwidth for a certain application, user or group of users. Control bandwidth based on max throughput or max data usage over a period of time. Select from twelve levels of QoS shaping.



**Web Content Filtering (w/MultiWAN)** - Enterprise class web content filtering with built-in real-time filtering database, allow and deny lists, and category based filtering options. The EdgeXOS platform delivers the ultimate web filtering experience with MultiWAN optimization.



**Web Content Caching (w/MultiWAN)** - Increase productivity for end-users by implementing the web caching module within the EdgeXOS platform. Web caching speeds up common file downloads and improves overall Internet performance.

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**WEBaXcel Endpoint Client Protection** - When organizations require per-user or group-based web filtering control the WEBaXcel thin-client performs authentication and provides detailed customized reporting options while protecting users from viruses, spyware and malware.



**Application Proxy (VNAT)** - The EdgeXOS appliance utilizes its VNAT application proxy to provide inbound application load balancing and automated failover. Enables administrators to quickly setup fully redundant application delivery across multiple ISP connections.



**Best Path Routing (SLA Monitoring)** - This network monitoring and dynamic routing technology ensures that mission critical application traffic always uses the best path by performing SLA and other testing to remote network resources.



**Enhanced Session Persistence (ESP)** - Unique to the EdgeXOS platform is its ability to perform ESP ensuring that critical application traffic, like SSL or VPN traffic, does not get reset due to a change in how traffic is routed (unlike other generic load balancing solutions).



**Deep Path Inspection (DPI)** - Unique to the EdgeXOS platform, DPI performs a multitude of network tests in order to determine the status of each WAN link. This includes physical link detection, as well as Layer 2 and Layer 3 testing to check each hop out to the Internet.



**Virtual Technician** - Unique to the EdgeXOS platform, this module performs detailed testing of WAN links when they fail in order to determine why they failed, where the problem might be, and what steps should be taken to resolve the issue.



**S2S Remote Access VPN Client** - This Windows-based client software enables remote users/teleworkers to establish an SSL-based VPN tunnel back to the EdgeXOS appliance in order to connect to LAN side resources (supports encryption and automated failover).



**Custom XOS XML/SNMP API** - The EdgeXOS platform includes an unsurpassed level of customized reporting and management capabilities. XRoads Networks has developed a complete tool kit for customers, or they can use our own XOS Global Manager (XGM).