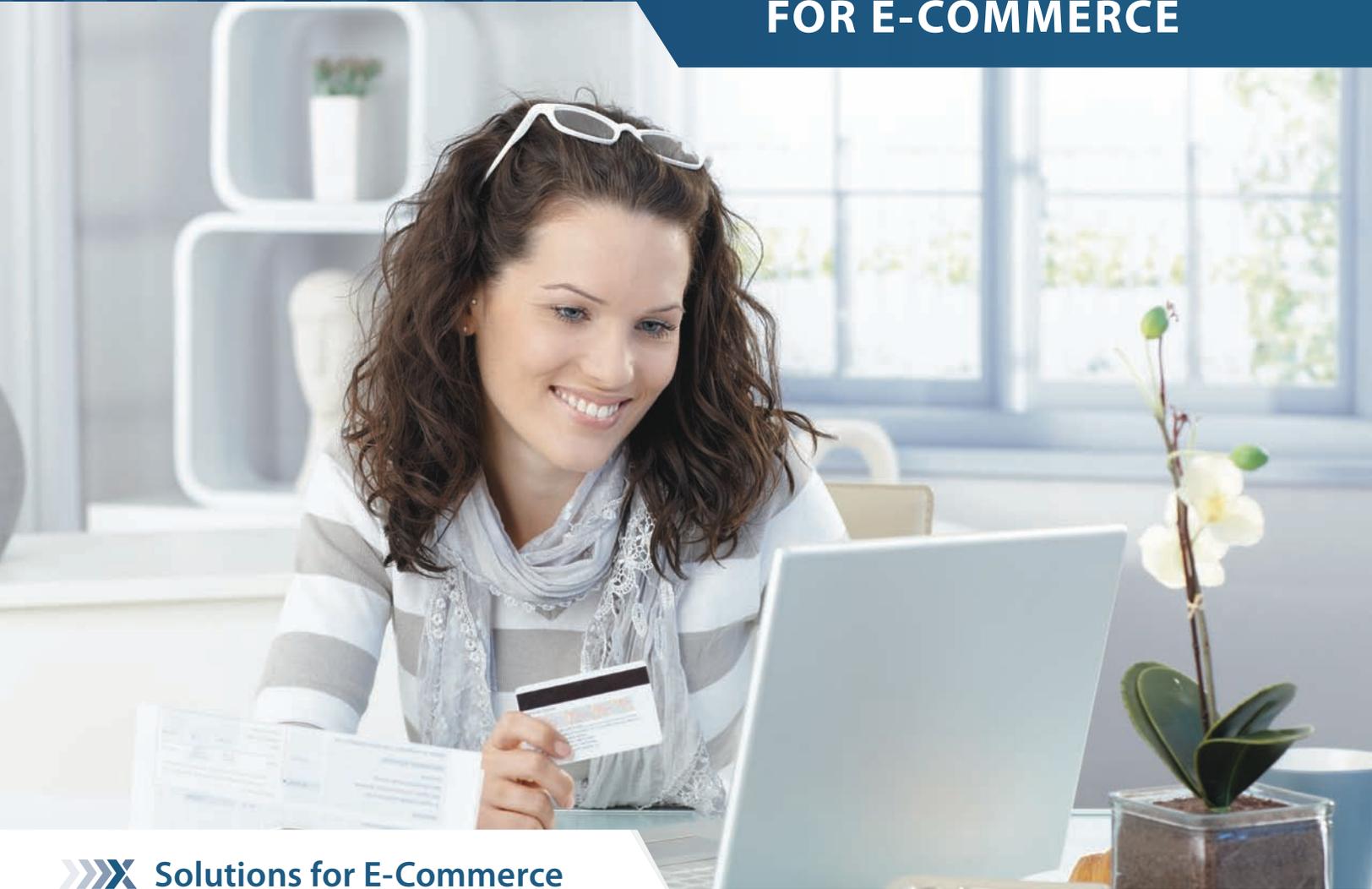XRoads Networks

A SMARTER IT INFRASTRUCTURE
FOR E-COMMERCE

>>>X **Solutions for E-Commerce**

X Roads Networks

E-COMMERCE TODAY REQUIRES COMPLETE NETWORK REDUNDANCY AND RELIABILITY. THE EDGEXOS PLATFORM IS DESIGNED FOR JUST SUCH A PURPOSE. WITHIN THE BUILT-IN ABILITY TO PROVIDE MULTI-PATH NETWORK CONNECTIVITY USING OUR UNIQUE ACTIVEDNS AND ACTIVEHA TECHNOLOGY, THE EDGEXOS APPLIANCES ENSURE THAT OUR CUSTOMERS E-COMMERCE SOLUTIONS STAY UP AND RUNNING.

The EdgeXOS platforms are designed as a long-term investment in a companies information infrastructure. As such, these appliances have a long life span (with a MTBF of over nine years) and build-in high availability features which ensure 24/7 uptime, even in the event of a significant power or hardware failure.

With its modular design, the EdgeXOS platform can easily be upgraded as future needs dictate new innovations in the functionality of the platform.

XRoads' offers firmware upgrades, advanced hardware replacement and extended warranty service to maximize your return on investment.

DELIVERING FAST AND RELIABLE ACCESS TO E-COMMERCE SYSTEMS

E-commerce systems vary from simple online sales systems to highly complex cloud-based service delivery systems. The EdgeXOS appliances are designed to ensure the highest possible uptime for each of these types of systems through our application delivery infrastructure. The EdgeXOS platform includes both server load balancing as well as network or ISP load balancing (along with geographic failover capabilities), which means that regardless of the resources available, the EdgeXOS appliances can automatically and efficiently redirect network connectivity to the best and most available path.

The EdgeXOS appliances include the following features:

• **NETWORK BONDING & AUTOMATED REDUNDANCY**: The EdgeXOS appliance assists to prevent network outages by automatically failing over from a primary to one or multiple secondary network paths, without the need for complex routing protocols like BGP. The appliance includes real-time path monitoring to ensure 99.999% uptime via automated outage detection and/or network latency in order to quickly re-route traffic as needed.

• **SERVER LOAD BALANCING**: Through the EdgeXOS platforms unique balancing capabilities and ActiveDNS technology, XRoads' e-commerce customers can balance application traffic between multiple servers and across multiple network paths, thus improving overall speed for end-users and preventing resource bottlenecks. The EdgeXOS appliances do an excellent job of balancing SSL traffic and maintaining session persistence in order ensure stable client/server connectivity. The balancing can be controlled based on weighted distribution of traffic and automated server outage detection.

• **APPLICATION QoS & BANDWIDTH MANAGEMENT**: Finally, each EdgeXOS appliance has the ability to perform QoS and application prioritization to ensure that the most critical applications get the highest priority. When balancing multiple applications it is important to prioritize streaming and/or mission critical traffic over lower priority traffic.

XROADS NETWORKS HAS WORKED WITH E-COMMERCE SOLUTION PROVIDERS FOR A NUMBER OF YEARS NOW TO DEVELOP INTEGRATED SOLUTIONS TO OPTIMIZE THEIR END-USER EXPEREIENCE WHILE IMPROVING ROI.

The typical e-commerce application requires quick and available network access, specifically to ensure uptime for their Internet and cloud-based services. For this reason connectivity to the Internet has become a core requirement for these customers, as they require a 24/7/365 infrastructure which is capable of constant and reliable connectivity.
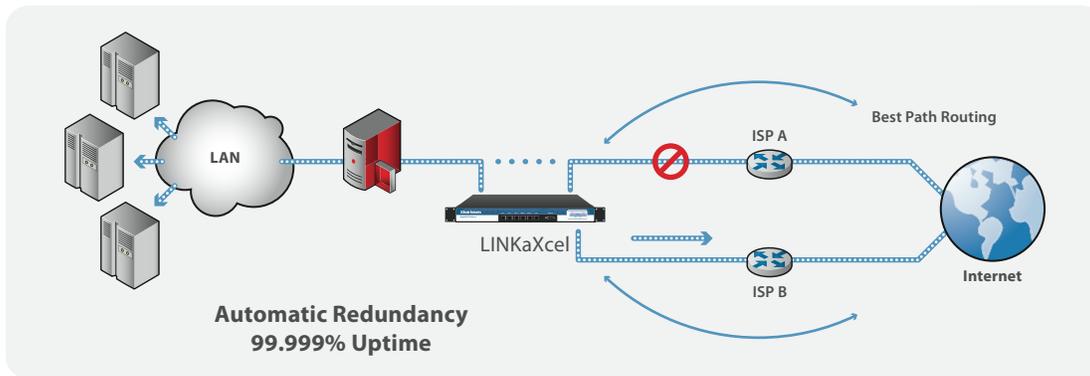

This diagram demonstrates the typical installation and placement of the EdgeXOS platform within an e-commerce network. Installation is seamless and transparent and compatible with existing network infrastructure.

## ACCELERATING INTERNET CONNECTIVITY THROUGH SERVER BALANCING

The EdgeXOS platform is unique in its ability to perform both server and link load balancing across multiple Internet paths. This capability provides our e-commerce customers with the ability to combine multiple Internet paths to provide faster, more reliable, Internet connectivity for their end-users.

Server Load Balancing: The EdgeXOS also incorporates mission critical server balancing functionality which improves access to appliances which are spread across multiple resources. With the ability to balance traffic across multiple servers and multiple networks via its ActiveDNS technology, the EdgeXOS platform is unique in the industry.
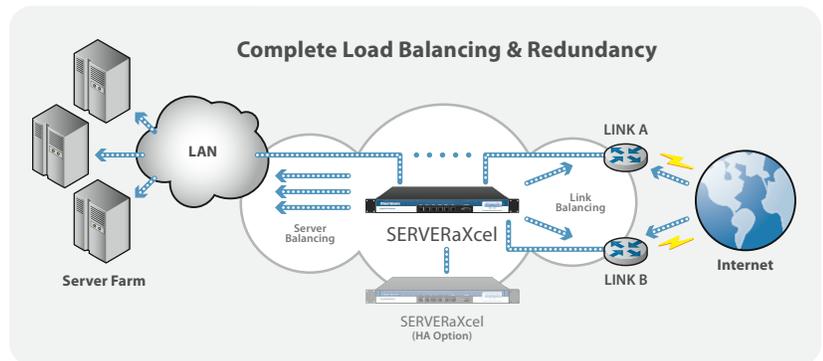

ENSURING 24/7 ACCESS TO CRITICAL SERVER RESOURCES

The EdgeXOS platform enables e-commerce companies to achieve full Internet redundancy through the use of two or more Internet paths. If one path fails, the EdgeXOS platform will automatically re-route all traffic across the remaining active paths. Once the failed path becomes available traffic will automatically be added back in to the available paths for routing traffic.
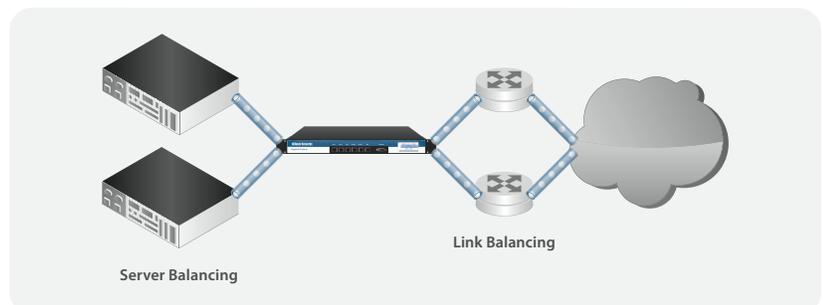
IMPROVE REMOTE OFFICE & DATA CENTER CONNECTIVITY

Many of our e-commerce customers require fast and reliable access between various remote offices and/or data centers. The EdgeXOS is able to enhance network connectivity through the use of multiple VPN connections which can be bonded together to provide additional network bandwidth. Further the EdgeXOS appliance can automatically failover from one single or group of tunnels to another, thus ensuring 24/7 uptime in the event of a network outage between sites.

VPN Virtualization (Application Offloading)
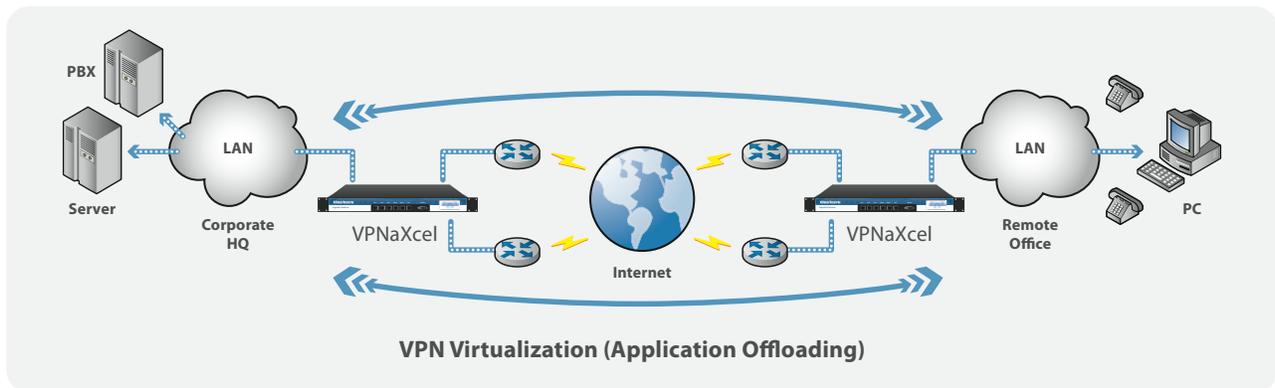
LOWER OPERATING COSTS

The EdgeXOS platform lowers the total cost of network resources by enabling our customers to offload data backup services to more inexpensive network paths, vs. having to have multiple paths available at all times. This can reduce data center connectivity costs and improve overall reliability in the event of a major outage. Additionally the EdgeXOS appliance provides low cost scalability in terms of server resources by allowing customer to leverage application delivery services across a range of different server resources and weight how the balancing is performed over those various resources.

XRoads Networks

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