



A SMARTER IT INFRASTRUCTURE  
**FOR BANKING CUSTOMERS**

»»» Solutions for Banking

**XRoads** Networks

The banking and credit union sector contains various sized organizations; however each of these organizations have common information technology and communications requirements. XRoads Networks can assist in reducing costs and improving branch office connectivity by optimizing site-to-site connectivity and Internet based communications. As bandwidth demands grow so does the need to ensure real-time and responsive connectivity. The EdgeXOS platform is designed to provide fast, reliable, and scalable connectivity to the Internet and regional branches.

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 OPERATIONS DATA**

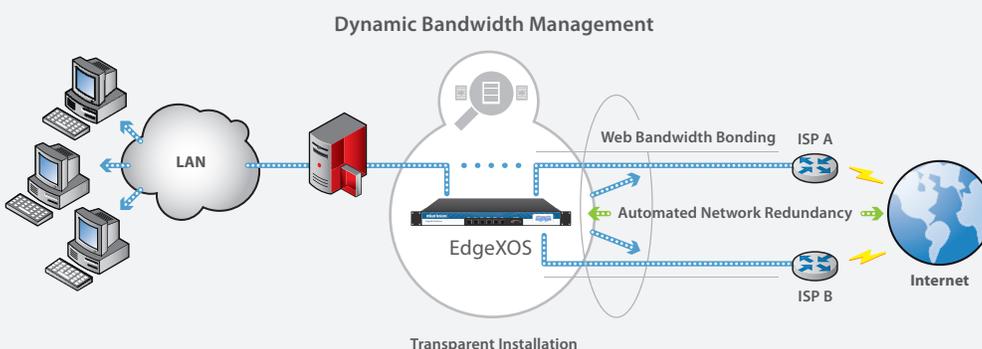
The typical banking facility today requires fast Internet access for downloading and uploading constant streams of mission critical application data, from online robotics system monitoring to making sure inventory information is up to date in order to enable inventory on demand. Many banking organizations also require access to online servers and the ability to balance server traffic across multiple resources.

The banking industry has several typical requirements for data connectivity including:

- **INTERNET BONDING & REDUNDANCY:** The EdgeXOS appliance ensures application delivery through multi-path network routing and real-time usage monitoring to improve throughput and provide automated ISP redundancy. In the event of a network outage, the EdgeXOS appliance automatically re-routes traffic in real time to provide 99.999% uptime.
- **DYNAMIC BANDWIDTH MANAGEMENT:** As the access to real-time communications has become critical for banks the EdgeXOS appliance has developed a solution which prioritizes applications and ensures that critical services take precedence over email, and web access, for example.
- **VPN VIRTUALIZATION:** One of the core capabilities of the EdgeXOS appliance is its ability to provide improved connectivity between remote sites along with automated failover redundancy in the event of a network outage. The EdgeXOS solutions work extremely well in conjunction with WAN Optimization appliances like Riverbed and SilverPeak.

The common theme for each of these end-users is the requirement of quick and available network connectivity, specifically to the Internet and cloud-based services. Internet access

has become a core requirement for everyone which requires an infrastructure which is capable of providing fast and reliable connectivity.



*This diagram demonstrates the typical installation and placement of the EdgeXOS platform within a multitenant network. Installation is seamless and transparent and compatible with existing network infrastructure.*

### ACCELERATING INTERNET CONNECTIVITY

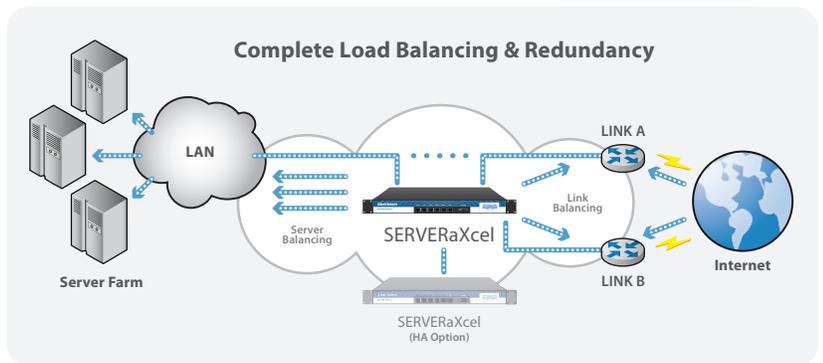
The EdgeXOS platform is unique in its ability to bond and accelerate multiple Internet connections. This capability provides our healthcare customers with the ability to combine two or more inexpensive broadband Internet connections to provide faster, more reliable, Internet connectivity to their customers. The EdgeXOS platform is also scalable, so as the needs of a particular facility increase, simply connect additional broadband connections.

The bonding and acceleration capability is unique in that you can take a 3Mbps DSL connection and combine it with a 5Mbps cable connection in order to obtain 8Mbps download through for your end-users. No other solution on the market has the ability to combine broadband links in this manner.

### ENSURING 24/7 ACCESS TO CRITICAL SERVER RESOURCES

The EdgeXOS platform enables banking companies to achieve full Internet redundancy through the use of two or more Internet connections. If one connection fails, the EdgeXOS platform will automatically re-route all traffic across the remaining active connections. Once the failed connection becomes available traffic will automatically be added back in to the available paths for routing traffic.

**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.



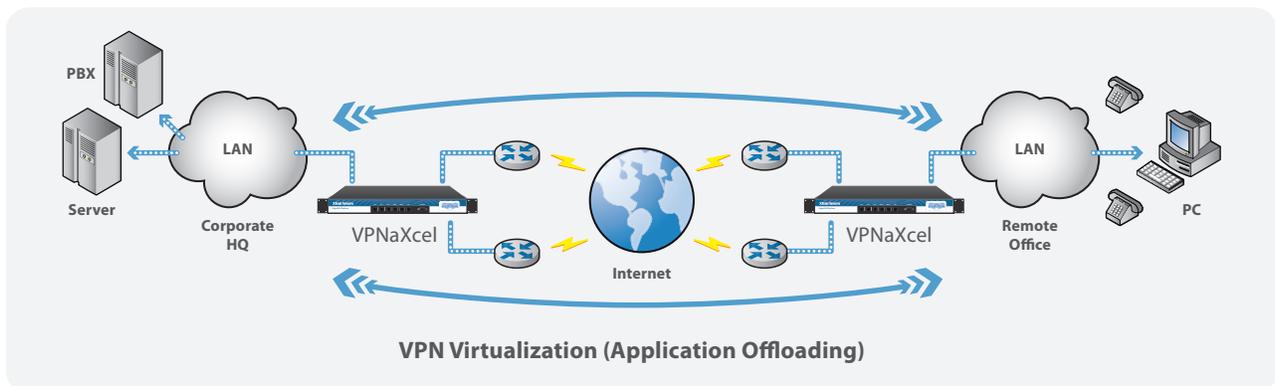
### IMPROVE REMOTE OFFICE & DATA CENTER CONNECTIVITY

Many of our banking 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.

### LOWER OPERATING COSTS

The EdgeXOS platform the total cost of Internet connectivity by enabling energy companies to offload some data services to inexpensive broadband connections instead of high cost T1, DS3 and MetroEthernet connections. Along with the additional redundancy provided by bonding multiple broadband connections, the EdgeXOS appliance significantly improves performance for end-users while at the same time lowers monthly Internet access charges by leveraging several low cost broadband links. Each EdgeXOS appliance is scalable which means that it can easily expand as the end-users needs grow.



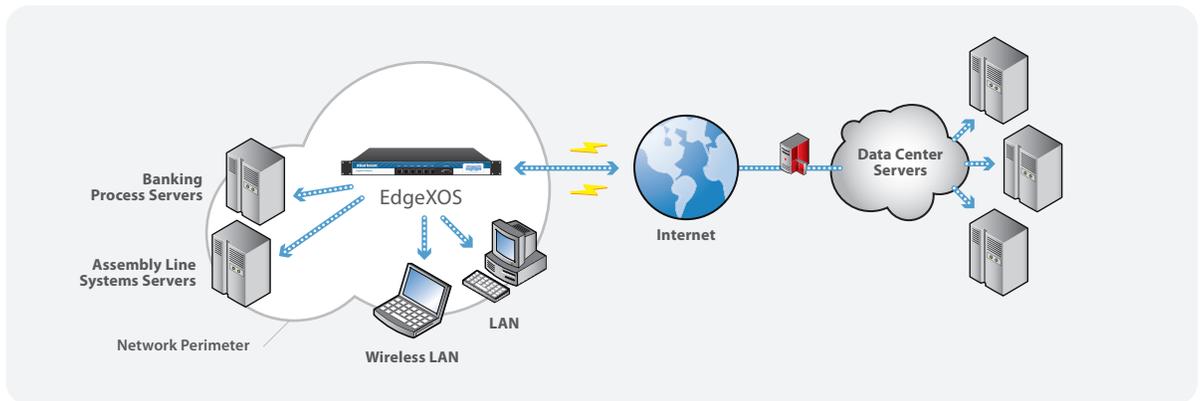
## XROADS NETWORKS HAS WORKED WITHIN THE BANKING INDUSTRY FOR A NUMBER OF YEARS NOW TO DEVELOP INTEGRATED SOLUTIONS TO OPTIMIZE THE END-USER EXPERIENCE AND ROI WHILE MAINTAINING STANDARDS.

### ADMINISTRATION ACCESS

The EdgeXOS appliance incorporates a complete network security gateway which can create a firewall between the administrative network and the rest of network. The EdgeXOS also incorporates DMZ connectivity options and support for VLAN networking.

### WIFI ACCESS

The EdgeXOS appliance works with all forms of wifi equipment and because we do not incorporate wifi within the EdgeXOS platform directly, we never have conflicts with other external wifi solutions. The EdgeXOS appliance is 100% compatible with and can accelerate and management traffic from all wifi solution vendors.



### BANKING SYSTEMS

Every bank has specific processes in place which have primarily been moved over to online infrastructures in order to improve efficiency and coordination. One of the key elements required in order to obtain these efficiencies is to be able to communicate updates from these processes throughout the organization. The EdgeXOS appliance, through its various bandwidth management features ensures that everyone in the organization can access the data they need, when they need it.

### ATM SYSTEMS

Most ATM systems are self-contained, i.e. they run without external intervention, however almost all of these systems require constant monitoring, as any potential stopped can generate significant costs and customer complaints. The EdgeXOS appliance assists in maintaining 24/7 network uptime to ensure that in the event of an ATM issue, quick action can be taken to mitigate any potential problem and eliminate additional downtime. The EdgeXOS solutions work to ensure network uptime and continuous production 365 days a year.