LinkProof Multi-WAN Switch
# 24x7 On-Demand, Cost-Effective WAN Availability

From maximizing productivity to ensuring continuity when disaster strikes, enterprises, higher education institutes, and Internet service providers require uninterrupted access to Web sites, data centers, remote locations and the Internet. LinkProof is a multi-WAN switch that lets you maximize the effectiveness of your WAN by bypassing bottlenecks and service-provider outages, managing bandwidth consumption, and letting you decide which links are used for which applications and when.

It's the only 16Gbps on demand solution that fits your current and future WAN link load balancing needs and lets you effortlessly add, manage and load-balance multiple ISP connections while you mix-and-match VPNs, private and public links for back-up or in response to growing bandwidth needs.

The result? Flexibility to build a best-of-breed WAN solution that keeps costs down and keeps customers and users always connected to business-critical applications and Web sites for years to come.

> *"Radware's LinkProofs have the capacity to handle more traffic than we can foresee for many years to come."*
>
> *– Greg Sherrow,*
> *Web Technical Manager,*
> *Patagonia*
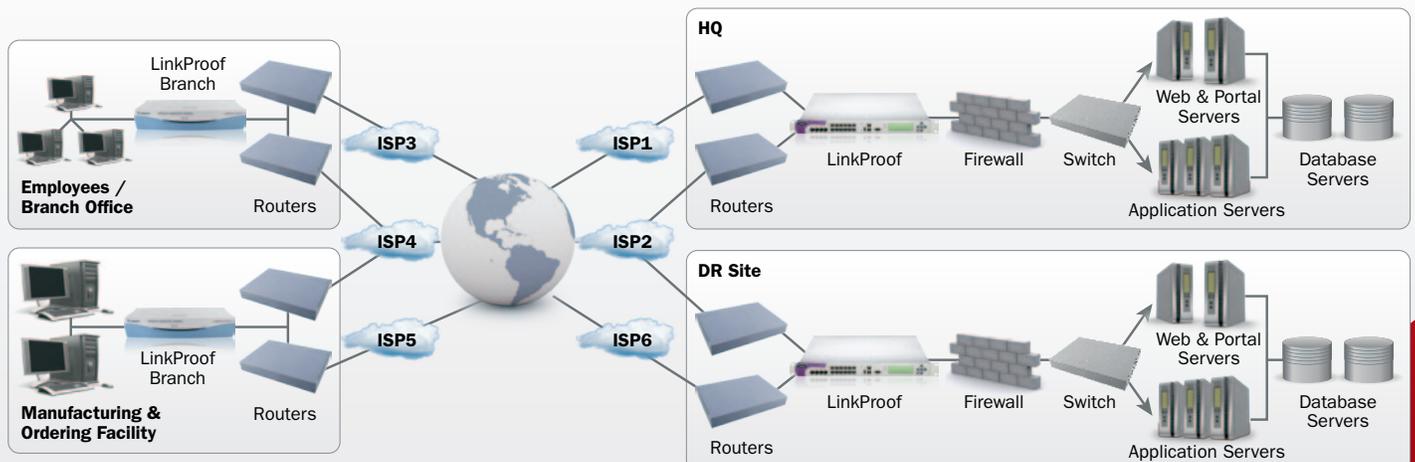
End-to-End LinkProof Solution

Ensure Availability of Data Center Applications

Has data center consolidation placed all your application "eggs" in one basket? Perhaps you can't afford a single minute of downtime from your revenue generating Web site, online applications or corporate extranet. Smart business sense dictates you manage the availability of your WAN and not rely solely on your service provider's SLAs. LinkProof lets you introduce active-backup links to support your business continuity strategy. Real-time health-checks of all available WAN paths ensure immediate failover to a functional link in the case of service outages, so your data, applications and Web site are available 24x7.

Feature	The APSolute Advantage
Real-Time Health Monitoring, Failure Detection and Traffic Redirection Quickly identify failures at any point along the transaction path and react proactively, by automatically redirecting in-bound and out-bound traffic to available WAN paths to the data center.	· Link availability based on user-defined full application/transaction path · Check network points within the Internet cloud · Micro-second link switching · Never lose business continuity due to link failures · Optimize usage of existing connectivity resources while minimizing application response times · Guarantee highest SLAs as the best link is always serving client requests
Active-Active or Active-Passive Link Redundancy Take full advantage of back-up link bandwidth and verify all links are available for immediate fail-over.	· Maximize the investment in Internet links by also utilizing links which previously acted as stand-by links · Guarantee 24*7 availability of end-to-end transaction paths to effectively support business continuity and disaster recovery plans · Reduce OPEX by using cost-effective links for redundancy without suffering a reliability penalty · Lower solution TCO
Active/Passive Device Redundancy Prevent the introduction of a single point of failure by operating a high-availability architecture.	· Proprietary ARP or VRRP · Effectively support business continuity and disaster recovery plans · Protect your investment · Lower solution TCO
Highly-Reliable Platform Purpose-built, NEBS certified appliance delivering high MTBF.	· High MTBF: 150,000 – 700,000 Hours · Redundant power supply · Connections tables mirroring

Business-Oriented Scalability and Multiple WAN Link Management

Expand your WAN or migrate from legacy lines to MPLS, DSL, Cable, etc. without risk. Create redundancy in your WAN links and application access without wasting resources. Increase bandwidth to data centers or remote sites using cost-effective links without compromising up-time.

LinkProof lets you seamlessly change and add any combination of IP-based WAN links, regardless of size, underlying transport method, service provider, or IP-address space. This frees IT resources to focus on designing the WAN that's right for you today but with the flexibility you need to quickly and easily scale in order to adapt to tomorrow's challenges.

"Since we installed LinkProof, our students and faculty have been able to conduct day-to-day activities and research without any interruption. It has allowed us to offer expanded web hosting capabilities, which has resulted in greater streaming and cloud computing opportunities, and a higher level of user satisfaction."

– Joseph Compagno,
Director of Strategic Infrastructure Development,
New York Law School

Feature	The APSolute Advantage
Smart Application Routing Decide which traffic is routed over which WAN link(s) based on any application-type.	· Intelligently redirect traffic amongst links according to user-defined application priority and sensitivity · Increase business agility and reduce time-to-market for applications, WAN design and expansion · Save on connectivity costs · Prevent service provider lock-in · Reduce the operational costs of managing complex BGP routing configurations
Supports Multiple IP Address-Spaces and Multiple Link-Types from Different ISPs Easily integrate new ISP links without the need to coordinate IP addresses or create peering agreements. Mix-and-match any type of IP terminated connectivity.	· Reduce the TCO by integrating lower SLA links · Reduce the cost of purchasing public IP addresses · Reduce peering costs · Out-of-the-box automatic management of out-bound IP addressing for seamless use of multiple WAN links · Any IP-terminated link can be managed, e.g.: xDSL, Cable-Modem, Frame Relay, IP-ATM, MPLS
"Add-Link-As-You-Grow" Approach Minimize the investments in connectivity while maintaining the flexibility of adding additional links on demand.	· Support a multiple links simultaneously · Reduce the TCO of adding new WAN links · Reduce OPEX and TCO by gradually migrating from legacy to new WAN links · Zero downtime when adding new links · Short Time to Market for adding additional WAN bandwidth
On Demand Platform Scalability Seamlessly upgrade platform throughput as more bandwidth is needed.	· Reduce OPEX and TCO by removing the need for platform forklift upgrades. · On demand scalability in throughput and services up to 16Gbps · "Pay-as-you-grow" approach ensuring full investment protection and minimization of initial investment · Tiered throughput licensing model

Cost-Based Routing
Take advantage of varying ISP rate structures to minimize monthly connectivity costs.
	· Save on monthly connectivity costs
	· Reduce the TCO of Internet links
	· Automatically accommodates for any mix of rate models:
	  - Flat
	  - Per kbps
	  - Bursting/Ladder

Accelerate Response Times, Optimize Bandwidth Utilization, and Reduce Costs

LinkProof uses Radware's patented proximity module to guarantee selection of the best Internet link. This allows you to maximize the performance of your Internet browsing and networked applications for enhanced user experience. LinkProof also extends benefits beyond managing scalability and redundancy, by optimizing the utilization of all your available WAN bandwidth via load-balancing and traffic-shaping.

Feature	The APSolute Advantage
Inbound and Outbound Proximity-Based Routing Guarantee best path selection for inbound/outbound traffic.	· Patented proximity checks combine latency detection and hop count, guaranteeing inbound/outbound traffic is always passed over the best performing link · Guarantee quality of experience (QoE) and SLAs for internal/external users
Link Load-Balancing Dynamically deliver both incoming and outgoing traffic via the most efficient link available.	· User-defined, priorities for load-balancing decisions based on real-time user and application measurements · Load-balances firewalls sitting behind · Maximize infrastructure investment and operational resources · Delay WAN expansion decisions
Bandwidth Management and Traffic shaping Align link and network bandwidth with business objectives.	· User defined and predefined classes include over 40 common applications, and ToS or Diffserv bits · Limit/guarantee bandwidth per class, user · Bandwidth management mechanism can squelch malicious traffic to ensure availability of critical applications · Ensure top-priority and business-critical applications always receive the bandwidth they need

End-to-End Headquarters to Branch Office Offering

As more companies strive to consolidate multiple data centers more and more applications get relocated from remote branches into the main data center. The move from a dispersed application configuration to a consolidated one requires enterprises to allow secure access from remote branches into the main data center. In parallel, companies strive to reduce the amount of network devices which must be installed in remote branches, in an effort to reduce the costs associated with purchasing and maintaining multiple network devices. Using LinkProof in conjunction with Radware's branch offering – LinkProof Branch – allows you to seamlessly connect remote branches to the main data center. The combination of LinkProof and LinkProof Branch provides best-of-breed, multi-WAN link load balancing of private, leased and VPN lines.

Feature	The APSolute Advantage
VPN Gateway Integrated IPSec VPN gateway for secure communication between remote offices and the main data center.	• Integrated IPSec VPN gateway within LinkProof Branch • Reduce CAPEX by eliminating the need for deploying additional stand alone network devices. • Maximize the investment in Internet links by also utilizing inexpensive leased lines for secure communication • Support IT consolidation efforts by allowing the migration of applications from the branch to the main data center
VPN Tunneling Dynamically deliver VPN traffic between HQ and branch via the most efficient link available.	• Virtual tunneling – hides IP-address changes while automatically selecting WAN routes between any two LinkProof devices • Save on monthly connectivity costs • Guarantee 24*7 availability of end-to-end VPN transactions

About Radware

Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for nearly 10,000 enterprises and carriers worldwide. With Radware's comprehensive and award-winning suite of products, companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks "business-smart."

Certainty Support

Radware offers technical support for all of its products through the Certainty Support Program. Each level of the Certainty Support Program consists of four elements: phone support, software updates, hardware maintenance, and on-site support. Radware also has dedicated engineering staff that can assist customers on a professional services basis for advanced project deployments.

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