

## High-Performance Application Front-End

PERFORMANCE, SECURITY, AVAILABILITY & MANAGEABILITY FOR DISTRIBUTED ENTERPRISES

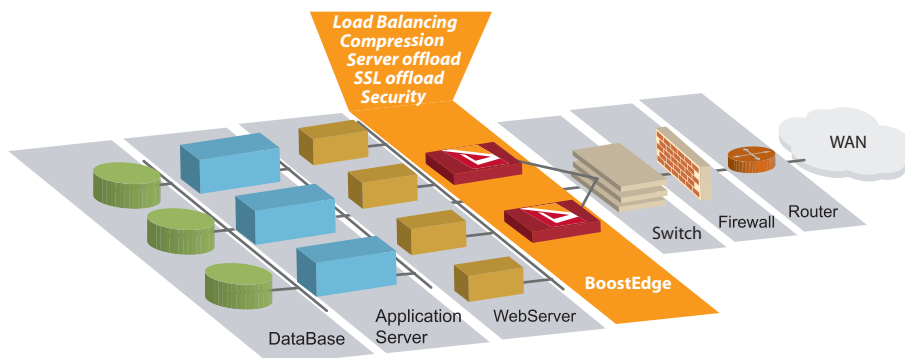
Globalization of businesses today, motivated by the need to drive revenue faster, cut operating costs and maximize security, is characterized by three trends: (1) the need to rapidly roll out content-rich and web-enabled applications; (2) extend access to enterprise networks to partners and customers; and (3) centralize computing and file resources. BoostEdge helps enterprises meet the challenge of providing "on-demand" responsiveness to their worldwide communities without straining existing architectures and without escalating cost.

BoostEdge v3 innovations redefine the Application Front-End (AFE) industry. BoostEdge v3 appliances are functional and cost-effective solutions for any distributed enterprise, whether global in scope or SMB. Foremost, an AFE must significantly speed response time performance of intranet and extranet data, especially such critical "on-demand" web applications as CRM, ERP, and financial consolidation.

HIGH-SPEED DELIVERY FOR REMOTE USERS, WEB TIER PROTECTION, BUSINESS CONTINUITY - ELIMINATES RISK

BoostEdge delivers a comprehensive set of capabilities that are absolutely fundamental to an AFE:

- **BoostEdge delivers speed** - BoostEdge accelerates critical enterprise applications, intranets/extranets, and e-commerce websites using the following methods: data compression (HTML, office documents and other text-type elements), image format conversion and optimization, SSL offloading, object-level caching, TCP/IP connection offloading. Each can be configured and fine-tuned independently through the Web console.
- **BoostEdge secures Web application servers** by combining SSL with Web acceleration. It provides Level 2 server protection against TCP level attacks (DDOS & SYN floods/attacks) and Level 7 application protection against malicious Web requests.
- **A multiplicity of functions** to relieve servers of non-essential I/O functions; guaranteed high availability through load balancing and BoostEdge clustering; open architecture; simplification of data center management; and most importantly, true transparency, meaning no modification to existing architecture and zero risk to ongoing operations.



### ENTERPRISE BENEFITS

*"Do your applications suffer from the 'slows'?"*

- BoostEdge accelerates web content with amazing speed, delivering application data 2 to 8 times faster, improving user productivity and satisfaction

*"Is the security of your application infrastructure a major concern?"*

- BoostEdge hides the structure of your Web sites and filters against malevolent requests that can crash servers
- BoostEdge shields servers from denial of services (DOS) and SYN flood/attacks

*"Concerned about application availability and continuity?"*

- BoostEdge offers full Level 7 load balancing, always checking that servers are up
- One BoostEdge can failover to another

*"Do new applications take 'forever' to deploy?"*

- BoostEdge enables HTTP/S applications to run immediately without application re-writes or tuning

*"Are your WAN costs skyrocketing with new applications and more users?"*

- BoostEdge cuts WAN data volume by 33 to 90%

*"Are your server costs escalating?"*

- BoostEdge offloads I/O and SSL processing, improving the performance of existing servers

*"Can you reduce and manage the risk of deploying new applications?"*

- BoostEdge is transparent, eliminating the risk of change:
- Installation is non-disruptive
- It is invisible to applications and users
- No alteration to infrastructure or applications is required

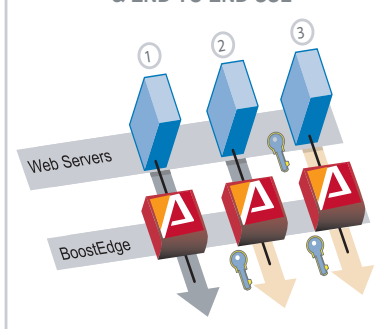
*"Are you concerned about continuously creeping cost escalation?"*

- BoostEdge is a multi-function appliance that installs in two hours and takes little effort to manage. Its open architecture protects your investment by permitting third party developments.

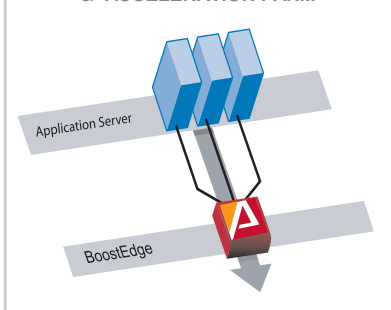
IN-LINE (SERIAL) INSERTION



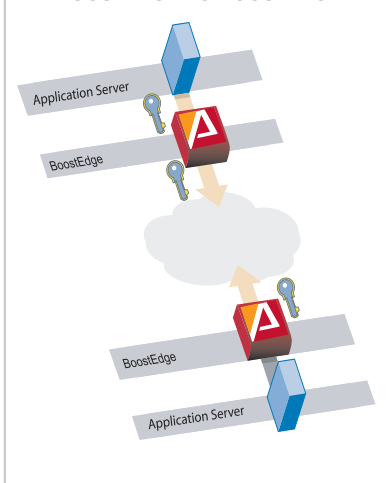
HTTP - AUTO SSL & END TO END SSL



LOAD BALANCING & ACCELERATION FARM



BI-DIRECTIONAL BOOSTEDGE-TO-BOOSTEDGE



THE BoostEdge AFE FAMILY

BoostEdge ACTIVACCELERATOR

Offers classic compression functionality for enterprises with simpler needs

- Boosts static and dynamic content: text compression, image format conversion and optimization; object-level caching
- Relieves server burden (TCP/IP connection management)
- Protects web application servers against malicious TCP/IP attacks
- Immediately improves end user experience and productivity

BoostEdge ACTIVSECURITY

= ActivAccelerator + security features

- Performs cryptographic acceleration: SSL offloading delivers more SSL transactions per second than web servers can perform
- Reduces connect time of secure web transactions from over 3 seconds to sub-second levels
- Reduces web server TCP/IP connections 50 to 80%
- AutoSSL optimizes website data, then encrypts for immediate transmission
- End-to-end SSL facilitates total data security without allowing any clear wire. BoostEdge decrypts data from the server, then recompresses and optimizes; optimized data is then re-encrypted for transmission
- Protection of Web servers and Web applications against malicious Level 7 requests.

BoostEdge ACTIVDATACENTER

= ActivAccelerator + ActivSecurity + high availability features

- Combines HTTP/S compression, SSL/HTTPS encryption and Web server offload with load balancing.
- With layer7 load balancing of HTTP/S requests:
  - Web application service availability is guaranteed to end users: if one of the web servers is out of service, users are automatically directed to another server
  - Server site scalability is facilitated
  - The Web site can process more transactions
  - Web session tracking is preserved (IP address, application or tracking cookie, etc.)
  - Load is balanced using several algorithms (round robin, weighted round robin, etc.)
- Application switchboard presents a single access point with URL redirection, camouflaging the real server architecture.

BoostEdge -TO- BoostEdge

BI-DIRECTIONAL HTTP/S COMPRESSION

= Functionality option on all products and stand-alone

- BoostEdge now allows enterprises to accelerate bi-directional HTTP/S flows. BoostEdge v3 is the only point-to-point compression deployed at the network level that can compress encrypted data flows.
- The direct exchange of data between application servers is an increasingly prevalent trend among enterprise applications whose servers must make direct commercial exchanges with its partners' application servers (Web services, XML, etc).

TARGET ENVIRONMENTS

- ERP, CRM, SFA, SCM
- E-Commerce
- Extranets, Intranets
- Websites portals
- From global organizations to SMBs

KEY BENEFITS

- Optimize applications and websites instantly from a central deployment
- No client required, simply use users' browsers
- IP Transparency: no change to Web application or Web servers, IP addresses are preserved
- No change to existing infrastructure and network
- Designed for easy installation, management
- No hidden costs: reasonable and predictable TCO

ENTERPRISE REQUIREMENTS	BOOSTEDGE ACTIVDATACENTER	BOOSTEDGE ACTIVSECURITY	BOOSTEDGE ACTIVACCELERATOR
Layer 7 Load Balancing – HTTP/S with server monitoring	●	-	-
Application Switchboard - A single access point with URL redirection - Camouflaging server architecture	●	-	-
Web server protection - Web access filtering - Layer 7 malicious request filtering	●	●	-
SSL acceleration (SSL offload) End-to-end SSL & autoSSL	●	●	-
Compression & SSL Acceleration combined	●	●	-
On-the-fly compression of objects and web pages - Text objects, MS Office documents, - Image format conversion and optimization - Adjustable by application	●	●	●
High-performance object-level caching	●	●	●
4 modes of TCP multiplexing to reduce server load	●	●	●
Administration via web, console or SSH access. monitoring SNMP	●	●	●
Protection of servers from attacks - SYN Flood / DDOS protection - Layer 3&4 TCP/IP filtering	●	●	●
TCP/IP fail-over	●	●	●
High availability - Active/passive appliance chaining - Redistribution of the load among units	●	●	●
On-the-fly bi-directional web compression HTTP/S	option	option	option

- All features can be fully controlled and can be fine-tuned through the Web console.
- BoostEdge can be deployed individually or in clusters. Passive redundant units deliver high availability service. Implementing an active cluster can double the processing capacity.
- Upward migration from one product to another is possible without interruption to service by activating software licenses.

## FOUR SIZING OPTIONS

The three new BoostEdge products, BoostEdge ActivAccelerator, BoostEdge ActivSecurity and BoostEdge DataCenter, can be delivered on three hardware platforms in four sizes:

BoostEdge	SMB	600	1200	2400
Maximum concurrent users	100	500	1,000	2,000
New HTTPS con. / sec. ( Avg.-Max )	100-140	300-400	600-800	1,000-1,400
SSL Transaction Per Sec Max	1,200	3,600	7,000	12,000
Maximum Throughput	100 Mbps	200 Mbps	400 Mbps	700 Mbps
NIC Throughput	4 Gbps	8 Gbps	8 Gbps	8 Gbps
Servers and Virtual IP supported	unlimited	unlimited	unlimited	unlimited
Establishing New. SSL con. time	7.1 ms	5 ms	5 ms	5 ms
Network interface (admin & data)	10/100/1000	10/100/1000	10/100/1000	10/100/1000
Fail-over (data)	yes	yes	yes	yes
Dual power supply		option	yes	yes



“BoostEdge is simple to use because it is perfectly transparent to the network, servers and applications. Our integrator was able to complete the installation without any difficulty. We immediately observed the effectiveness of the product and its simple operation.”

Thierry Michaud  
Alcan  
Senior IT Manager

“The Internet is one of the main routes to market for our insurance products. Needless to say, the Internet infrastructure is crucial to our business. We chose BoostEdge because it is an excellent tool which boosts and secures our Internet revenue.”

Thái Phạm  
AXA- Direct Assurance  
IT Resources Manager

“Reports, which had been taking 4 minutes to access, now took only 12 seconds! We can now accomplish one day's work in one day.”

Mark Daughtrey  
Ark-Les  
Director of Information Technology

ActivNetworks  
Mini Parc du Verger - Bât. L  
1, rue de Terre Neuve  
BP 127, Courtaboeuf 1  
F91944 Les Ulis Cedex - FRANCE  
Phone :+33 (0)164 864 444  
Fax : +33 (0)160 920 142

www.activnetworks.com

## BoostEdge IS TRANSPARENT: PRACTICAL & IMMEDIATE SOLUTIONS FOR THE DATA CENTER

BoostEdge is a transparent, immediate, non-disruptive and non-intrusive solution. BoostEdge is inserted into production in less than an hour with no impact on the environment, without modification to servers, applications, DNS or the network. There is no need to change any aspect of security systems. BoostEdge delivers increased speed without having to act as an explicit proxy, keeping web server visibility via regular IP addresses.

## BoostEdge OPEN ARCHITECTURE

As the only open Application Front-End (AFE) appliance on the market, BoostEdge v3 is ported to rack-mounted Intel platforms, the IBM xSeries and SUN Fire, as well as on the Activa appliance. This allows an enterprise to capitalize on standard hardware and maintenance and developer expertise. Furthermore, this new version of BoostEdge makes available an API interface to incorporate external modules that can be produced by partners and integrators. This unique functionality enables application developers to create complementary modules that could include, for example, compression of proprietary images, specific authentication (biometric) or the integration of known Open Source technologies (intrusion detection, etc.).

## RISK-FREE, FIELD-PROVEN RESULTS

BoostEdge has perfected the viability of essential applications at hundreds of accounts, boosting the productivity of their users. BoostEdge has overcome unanticipated, long-lived setbacks in putting applications into production—it is no longer necessary to take the risk that additional development to re-write the application will ensure performance over the WAN. Thus, return on investment is realized from the moment the appliance is deployed. At the same time, BoostEdge has given these enterprises hard dollar benefits by offloading their web servers and controlling bandwidth consumption.

BoostEdge acceleration solutions have greatly improved the performance of essential enterprise applications, e-commerce sites and hybrid networks (intranets, extranets, ASP hosting, VPNs, satellite networks, ISPs and mobile users), proving to be operationally sound and cost-effective at more than 300 clients worldwide

BoostEdge web acceleration appliances have demonstrated 100% compatibility with and effectiveness on application servers and web applications such as IBM WebSphere, Oracle, PeopleSoft, Business Object, Siebel, BEA, SAP, Hyperion, etc. and proprietary developments in XML, ASP, JSP, CGI, PHP, etc.

APPLICATIONS	DATA VOLUME SAVING	RESPONSE TIME IMPROVEMENT RATIO
WebSphere	up to 80%	up to 4X
Hyperion	up to 90%	up to 8X
JD Edwards Peoplesoft	up to 80%	up to 4X
Oracle e-business suite	up to 80%	up to 3X
SAP	up to 67%	up to 2X
Siebel	up to 86%	up to 5X

Partner :

