

## NEXT GENERATION LOAD BALANCING & WEB ACCELERATION



**JetNEXUS**  
ALB EXTREME

### Key Features

- Powerful Content Caching
- Layer 7 Load Balancing
- Web Compression
- SSL Offload
- Connection Management
- Advanced Server Monitoring
- Advanced Reporting/Logging

### Application Areas

- eCommerce
- ECRM
- ERP
- Content Management
- eMail
- Custom Web Applications
- Portals
- Intranets

### Customer Testimonials



"jetNEXUS has helped William Hill to more than double its website capacity. Improved customer experience is the key factor in this spectacular growth."

- Alan Alderson, Enterprise Hardware Architect.



"jetNEXUS is an application every website worth its salt should have. For businesses doing high sales volumes, it is a must buy."

- Chris West, Internet Channel Manager.



"Like having a supermarket with more tills open."

- Jonathan Wall, Marketing Manager

### Product Overview

The jetNEXUS ALB Extreme signifies a move beyond the traditional approaches to web load balancing, by combining the functions of Layer 7 Load Balancing, Compression, SSL Offload and Content Caching in one comprehensive solution, designed to deliver outstanding application delivery and value for money.

The ALB Extreme is available in an array of formats, including **Hardware Appliance**, **VMware Ready Virtual Appliance** and **Downloadable ISO**, offering superb flexibility for easy integration.



### Load Balancing

The jetNEXUS ALB Load Balancer is everything you would expect of a next generation load balancer. It can be easily configured by the intuitive secure web interface or alternatively via Command line.

#### Layer 7 Load Balancing

Layer 7 load balancing operates at the application protocol level. The benefit of this is that the device understands the type of data it is processing, in this case HTTP and HTTPS, and consequently allows for many features that are not possible at lower level load balancing such as URL switching, cookie based persistence and request scanning.

#### Connection Management

Connection Management is an advanced feature that can optimize the performance of TCP/IP as well as manage the level of stress placed on the web servers.

#### Multiple Load Balancing Strategies

The jetNEXUS ALB Extreme has a number of load balancing strategies to suit your business requirements including application persistence methods: **Round Robin**, **Least Number of Connections**, **IP Sticky** and **Cookie Sticky**.

#### Server Health Monitoring

It is vital that a load balancer only sends requests to servers that are performing correctly. As well as offering ping and simple TCP tests the ALB Extreme can perform a full web GET and check the response is as it should be.

### Content Caching

Content Caching has traditionally only been found on dedicated devices or top end application delivery controllers as an expensive option. Both cost and complex configuration have made these features prohibitive to the entry level and mid market.

The ALB Extreme cache control GUI enables the intuitive configuration of complex reusable caching rules based on object type, name, directory, etc. This granular approach negates the need for complex configuration codes and time consuming operational maintenance, typical of other complex Content Caching appliances.

One e-commerce user now serves 94% of all their content from the cache, thus reducing the number of back end servers and subsequent licences required.

## Web Acceleration

The jetNEXUS Web Accelerator uses the tried and tested jetNEXUS compression algorithm to deliver compressed, optimized content in a form that is readable by the browsers.

### Key Features

- Highly efficient acceleration algorithms ensure superb page delivery times whilst under significant load.
- Rule based compression detects and compensates for browser behavioural differences and defects, therefore guaranteeing that accelerated pages can be displayed correctly by the client's browser.
- Supported by all standard web browsers and requires no client component. Browsers supported include MS IE 4.0+, Netscape 4.0+, Opera and FireFox.
- Ability to accelerate most content including Javascript, AJAX, XML and more.
- Ability to accelerate Office Documents (e.g. DOC, XLS, PPT, etc.) and configurable MIME types.
- Can act on HTTP headers - POSTS, SOAP, HTML, JavaScript, etc.
- Ability to accelerate HTTP 1.1 through HTTP 1.0 Proxies and Caches (e.g. Squid, MS ISA, etc.).
- Can accelerate through Personal Firewalls (e.g. Symantec, MacAfee, etc.)
- Streaming Compression with full support for chunking.
- Content Exclusions - by rule (e.g. /site sub-folder/\*.js) or by header added to specific pages.
- B2B acceleration between any two jetNEXUS appliances in a multi-point accelerator network, including the acceleration of uploaded POST data (not just GETs).
- Web services (server to server) protocols including SOAP.



## SSL Offload

High performance SSL termination can remove the overheads of CPU intensive encryption from your web servers. In addition to saving on server resources, moving the encryption process to the edge of the network has major management benefits.

### Multi Channel—24 Simultaneous Certificates

jetNEXUS Accelerating Load Balancer will support multiple virtual acceleration engines on the same physical hardware.

### One Click SSL

A jetNEXUS channel can be made to run SSL by simply selecting the certificate you want to use and clicking enable.

### Central Certificate Management

All SSL certificates can be stored on the appliance, simplifying sometimes unorganized and disparate SSL certificate management.

### Auto Generation of Certificate Requests

The jetNEXUS SSL implementation can automatically generate certificate requests. This request can simply be sent to an authority, and they can issue the appropriate certificate.

### Certificate of Authority for Test Certificates

Self cert certificates can be easily created on the appliance. These are particularly useful for both testing and internal applications.

### Certificate Import/ Export via GUI

Pre-existing certificates from IIS and Apache can be easily imported or exported via the web based interface.

## Configuration and Management

It is of critical importance to manage all of the elements within your production environment in order to monitor, analyse, resolve and prevent application performance problems. The jetNEXUS management console can provide logging, statistics and reporting on inbound and outbound traffic in real-time. jetNEXUS allows complete system, administration via a secure remote administration console and the detailed audit logs provide information that can be valuable to administrators or a security team. Installation and management of the jetNEXUS appliance through the web user interface is quick and simple, allowing rapid deployment, and a low overhead in terms of ongoing management and administration requirements.

- SNMP
- Email Alerting
- Web Management Interface
- SSH CLI
- Logging
- Full Graphical Reporting
- Real Time Statistics
- High Availability Active Failover
- NAT
- Configuration File Offload
- Web Upgradeable