

ENTERPRISE WEBSITE & APPLICATION ACCELERATION.

JetNEXUS for IIS

Key Benefits

- Accelerate Dynamic Web Applications
- Improve Branch Office Access and Performance
- Accelerate SSL Transactions
- Reduce per Visitor Bandwidth Consumption
- Increase Site Capacity for Visitors
- Extend Infrastructure Capacity
- Ensure Web Server Availability
- Improve Browse to Buy Ratios
- Reduce Transactional Overheads
- Postpone Infrastructure Upgrades
- Transparent to Visitors and Applications
- Seamless Integration with IIS

Application Areas

jetNEXUS accelerates most web applications in the following business areas:

- **eCommerce:** Most commercial ecommerce platforms
- **eCRM:** Microsoft CRM, Onyx, Oracle, Peoplesoft, SAP, Siebel
- **ERP:** BAAN, IFS, Oracle, Peoplesoft, SAP
- **Content Management:** Documentum, IBM, Microsoft, Percussion, Plumtree, Immediacy, Reddot
- **eMail:** Lotus iNotes, Outlook Web Access, Most web based email applications
- **Custom Web Applications:** Most legacy web applications using http/https protocols
- **Portals:** Hummingbird, IBM, Interwoven, Microsoft, Novell, Plumtree, SAP, Sun, Sybase, Vignette
- **Intranets:** Lotus Notes, Microsoft Sharepoint, Most Intranet Applications
- **Extranets:** Lotus Notes, Microsoft Sharepoint, Most Extranet Applications

Customer Testimonials

"Lloyds TSB's corporate Intranet license allowed us to deploy browser based applications to our 2,000 plus locations without needing to upgrade our entire branch network. This gave us a large cost benefit and immediate ROI." - **Lloyds TSB**

"Like having a supermarket with more tills open..." - **Dabs.com**

Product Overview

jetNEXUS for IIS is designed to bring content acceleration to all Microsoft IIS web servers or HTTP-based services, to deliver the benefits of significantly reduced bandwidth usage along with dramatically improved page download times. jetNEXUS can be used by e-commerce sites, corporate data centres, extranets, web hosts, service providers, as well as applications dependent on HTTP services.

An ongoing problem of electronic commerce is the delivery of dynamic content and business transactions along the "last mile" – sometimes just a 56K modem connection – when reaching consumers. Customer access to broadband can help alleviate a serious client-side barrier, although high contention ratios in common use can still result in performance little better than a dial-up connection.

At the same time, more and more business-critical corporate applications have come to rely on HTTP as their primary access for LAN, WAN and mobile users. Complex interfaces, rich data presentation and secure access are the order of the day and make strenuous demands on services and infrastructure.

To compound the problem, a client's speed of access has limited bearing on a site infrastructure's finite maximum bandwidth and other capacity restrictions, like firewalls, in connecting with WANs, mobile users and the Internet. This can be a real challenge for applications focused on dynamic personalised pages, secure transactions using SSL encryption and managed access to business documents (e.g. DOC, XLS, PPT, email, etc.).

jetNEXUS for IIS applies maximum boost by ensuring the right content is accelerated for the requesting browser. Most HTTP transmissions (e.g. ASP, JSP, XML, CSS, JavaScript, DHTML, HTML, etc.) can be compressed by up to 90% with a typical bandwidth reduction of 50% or more. MS IE, FireFox, Netscape Navigator, Opera and most other browsers have the ability to accept some level of accelerated content WITHOUT requiring a plug-in or other modification.

jetNEXUS can also enhance the performance of IIS web servers, thereby significantly improving customer experience while providing considerable capacity benefits. Highly efficient jetNEXUS acceleration algorithms also ensure that during peak times performance never diminishes -- this is especially important when the traffic profile of a site or application is 'spikey' in nature. jetNEXUS ensures applications are correctly delivered to the end user with dramatic speed increases (in some instances by over 400%) while ensuring reliable page delivery.

Secure connections play a central part of any web site or application while also being the most CPU intensive task commonly expected of a web server. jetNEXUS acceleration radically diminishes the amount of data presented for encryption on a per user basis and "buys back" processing power better applied to additional client traffic.

jetNEXUS for IIS installs effortlessly onto Microsoft web servers (IIS 4.0 SP6a to IIS 6.0) offering the instant benefits of acceleration without the requirement for user plug-ins, changes to content, or changes to infrastructure.

jetNEXUS for IIS represents excellent value for money whether measured in ROI or cost savings. It has been tried, tested and battle hardened on many of the busiest commerce and enterprise web infrastructures in the world owned by people who want results, not marketing gimmicks.

Content Acceleration

- Highly efficient acceleration algorithms ensure superb page delivery times while under significant load.
- Rule based compression detects and compensates for browser behavioural differences and defects, therefore guaranteeing 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.
- Accelerate HTML, SHTML, DHTML, JHTML, PHTML, SOAP, J2EE, JSP, ASP, ASPX, CSS, Javascript, XML and more.
- Accelerate and Cache Office Documents (e.g. DOC, XLS, etc.)
- Accelerate by configurable MIME type.
- Direct HTTP 1.0 and HTTP 1.1 Acceleration.
- Can act on HTTP headers - POSTS, SOAP, HTML, JavaScript, etc.
- Accelerate HTTP 1.1 through HTTP 1.0 Proxies and Caches (e.g. Squid, MS ISA, etc.).
- 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.
- Inline Content Substitution - dynamically insert or substitute content by rule and by frequency (configurable 0-100% of pages).
- Full Microsoft .NET Support.
- Full Macromedia Cold Fusion Support (4.x, 5.x, MX).

Technical Features

- Accelerate page downloads.
- Reduce bandwidth requirements.
- Boost SSL and server performance.
- Reduce internal network load.
- Extend capacity and lifetime of supporting infrastructure.
- Independent of back-end processing & environment.
- Reduce impact of Internet/WAN latency and delays.
- Compatible with load balancers and software load balancing.
- Seamless IIS integration (4.x, 5.x 6.0).
- Enhanced IIS W3C Web Logging - with extended fields including Time Taken by jetNEXUS and round trip time (RTT).
- Aggressive Buffer Overflow inspection and protection to prevent common exploits and attacks.

Feature Highlights

Ease of Installation

jetNEXUS for IIS has been designed for easy installation onto your servers, typically taking less than 5 minutes. During installation jetNEXUS will need to restart IIS, this typically take a few seconds and is normally transparent to your users. jetNEXUS requires no further configuration for most installations and is managed via a conveniently accessible tray application.

Detailed Performance Stats

JetNEXUS for IIS keeps statistics on hits, compression and throughput. The jetNEXUS Tray Monitor application allows access to the information and displays the overall throughput in figures and graphs before and after compression. It also shows the content compression figures, indicating how jetNEXUS is performing on the page content that can be accelerated.

jetNEXUS has the facility to augment the W3C log details to hold compression figures in addition to the usual W3C information.

jetNEXUS Tray Monitor can also create log files, updated once per minute or as required, that create a historical record of throughput and compression. jetNEXUS Tray Monitor looks after the history period and removes log files at the appropriate time automatically.

Office Document Acceleration and Caching

Many businesses these days use the HTTP and web infrastructures to deliver all sorts of content to branch offices, field workers. One common use is a central repository of documentation for external sales and customer support engineers to be accessed via wireless connection, or even a dial-up connection.

JetNEXUS is supplied ready-tuned to provide compression of such documentation improving intranet bandwidth management and improved access, especially where divisional departments or home users access central data repositories.

Streaming Compression

Some content is not simple to produce. Sometimes database queries can take noticeable time and prevent delivery of a complete page for a period. In these circumstances, jetNEXUS can use streaming compression to provide content acceleration immediately during delivery. This is not quite as efficient as the normal jetNEXUS acceleration which is highly optimised for CPU resource and acceleration effectiveness, but offers a great solution for pages holding long commercial product lists, searches and complex database enquiries.

System Requirements

- MS IIS4 running on MS Windows NT4 Server (SP6a), or
- MS IIS5 running on MS Windows 2000 Server (SP1 or above), or
- MS IIS6 running on MS Windows 2003 Server Family.
- Complimentary to load balancers such as Alteon, Nortel, Cisco, F5 Networks and others.
- Complimentary to static edge caching technologies such as Akamai, Digital Island and others.