



Highlights

- Improve business connectivity with partners, customers and internal organizations
 - Add specialized connectivity, integration and security processing to an existing IBM BladeCenter infrastructure
 - Streamline SOA and XML applications with specialized, low total cost of ownership, drop-in appliances
 - Load balance service requests across an existing IBM BladeCenter infrastructure
 - Accelerate protocol mediation, message distribution, and web services processing
 - Speed SOA application deployment
 - Assist in governing an SOA infrastructure
 - Use a z/OS infrastructure as part of an SOA enterprise
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IBM WebSphere DataPower Integration Blade Appliance XI50B

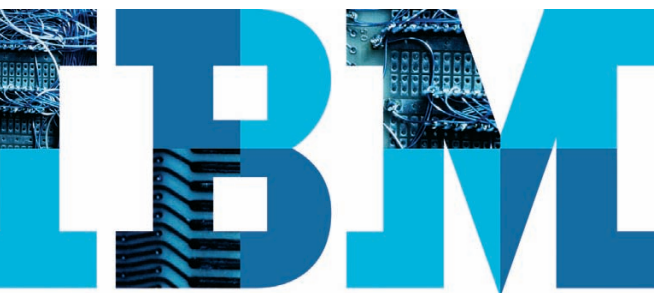
Organizations must become more competitive by strengthening business connectivity with partners and customers and between internal organizations. To do this, IT teams must often implement specialized connectivity and security processing and integrate it into an existing infrastructure.

However, cost is also an issue. Part of the integration may involve streamlining seemingly complex, but highly valuable, SOA and XML applications, load balancing service requests as part of an SOA enterprise. Additional goals may be to shorten SOA application deployment times and speed protocol mediation, message distribution and web services processing.

The IBM® WebSphere® DataPower® Integration Blade Appliance XI50B is a specialized, high-performance hardware appliance that can be added to an IBM BladeCenter® chassis and use a z/OS® as part of an SOA enterprise.

The XI50B helps organizations with an IBM BladeCenter infrastructure:

- Improve competitiveness by helping to strengthen business connectivity with partners and customers, and between internal organizations
- Add specialized connectivity, integration, and security processing
- Streamline seemingly complex but highly valuable SOA and XML applications
- Load balance service requests
- Shorten SOA application deployment times
- Accelerate protocol mediation, message distribution, and web services processing
- Govern an SOA infrastructure by adopting standardized run-time control points



The XI50B helps untangle complicated and expensive IT infrastructures

The IBM WebSphere DataPower Integration Blade XI50B is the most recent addition to IBM BladeCenter hardware platforms, delivering highly manageable, more secure and scalable integration solutions. The XI50B extends WebSphere DataPower SOA appliance capabilities through enhanced operational efficiency with the adoption of the latest IBM BladeCenter technologies. It enhances performance by using next-generation XML hardware acceleration, 10 gigabit Ethernet and optimized load distribution with the Option for Application Optimization.

But more specifically, the XI50B helps simplify the IT infrastructure with an Application Optimization option that provides intelligent, back-end application workload balancing (available for 9235 and 4195 machine types only). It can bridge Web 2.0 technologies with JSON filtering and validation, support REST verbs, and convert/bridge REST and web services.

The XI50B also has configurable Web Application Firewall security to rapidly protect against cross-site scripting, SQL injection, and a wide variety of XML threats. It provides fast and flexible application integration with declarative, any-to-any transformations between varieties of message formats.

The XI50B helps reduce integration costs with wire speed mediation, protocol bridging, transport mediation and content-based message routing. It dramatically enhances reliability by securing services at the network layer with advanced XML/SOAP/WS-Web services processing and policy enforcement. It helps lower operational costs with native connectivity to existing access control, monitoring, database and management systems and processes. And it offers standards-based, centralized governance and security, with support for a broad array of standards such as WS-Security and WS-SecurityPolicy.

The XI50B has a new hardware form factor. It is a blade that enables the deployment of WebSphere DataPower capabilities within an existing IBM BladeCenter infrastructure. It includes:

- Next-generation XML hardware acceleration that helps increase performance
- Support for two 10 gigabit network interfaces, that helps increase network throughput and reduce network latency
- IBM BladeCenter technology, so that it requires less space in the datacenter
- Customer-replaceable parts to facilitate service
- Enhanced intelligent load distribution (requires Option for Application Optimization)
- Integration with IBM z/OS Communications Server Sysplex Distributor, which can balance workload to DataPower appliances
- Support for interruption-free, back end application upgrades through support for application edition management. New editions of an application can be rolled out using either group or atomic updates.
- Support for WS-Policy attachments authored within WebSphere Service Registry and Repository (WSRR)
- Enhanced WSRR subscriptions via support for saved queries
- Local mode support when integrating with Tivoli® Access Manager
- Full support for WS-Proxy validation of Message Transmission Optimization Mechanism (MTOM)-based SOAP messages
- Increased WS-Security interoperability with WebSphere Application Server
- Improved integration with WebSphere Transformation Extender
- Enhanced connectivity
- Support for WebSphere MQ V7.0 software-based high availability
- Support for WebSphere MQ Channel exits for increased security
- Secure File Transfer Protocol client and polling support
- Improved transactional integrity with IMS™ Connect
- Simplified back-up and restore processes
- Java-based appliance management API

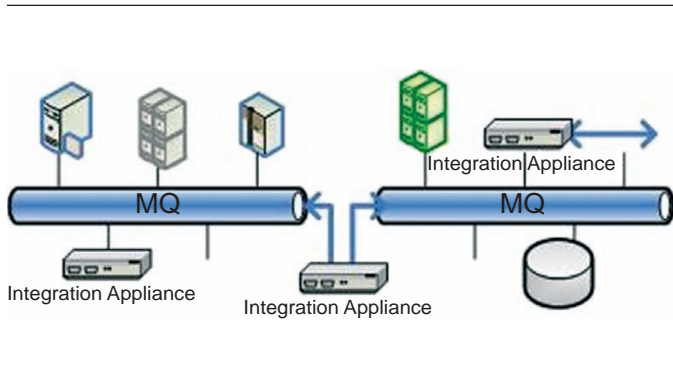


Figure 1: The XI50/XI50B can be used to off-load XSLT processing, XPath routing, legacy-XML conversion, and other resource-intensive tasks from servers to reduce latency, improve throughput, and free up compute resources.

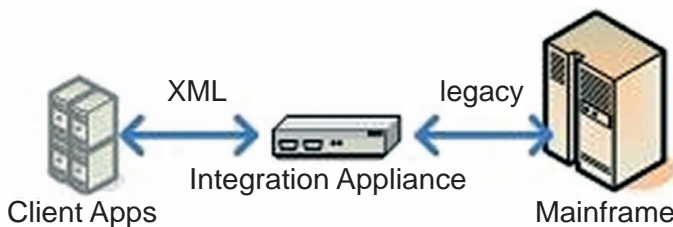


Figure 2: The XI50/XI50B can help protect and XML-enable mainframe systems, instantly connecting them to enterprise SOA and web services.

The WebSphere DataPower Integration Blade XI50B is a complete, purpose-built hardware platform for delivering highly manageable, security-enhanced, and scalable SOA solutions. As specialized SOA hardware, the XI50B provides, in a single

hardened device, many core functions to SOA deployments, such as service level management, routing, data and policy transformations, policy enforcement, and access control. Additional advantages of a hardware appliance in the network layer include the ability to perform more security and structural checks without degrading the performance.

The XI50B has Enterprise Service Bus (ESB) capabilities, legacy enablement and integration features and the capacity to improve web services management and SOA governance. Some sample use cases for the XI50B include:

- Drop-in integration for heterogeneous environments
- Innovative XML and web-services enablement of legacy infrastructure
- Policy-driven approach to web services management and SOA governance
- Integration with registry and repository, security, identity and service management software

XI50B application integration functions include:

- Virtually any-to-any data transformation between a wide range of data formats
- Sophisticated multistage pipeline processing and content-based message routing
- Optimized bridging between wire-line messaging protocols
- Data validation, field-level security, web services management and access control
- Direct-to-database access
- Extensive web services support

DataPower XI50B at a glance

System requirements:

- Requires network interface and network cable; network information (IP address, DNS, gateway); and computer/console with serial port, keyboard, and mouse.
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Browsers:

- IE 6+
 - Netscape Navigator
 - Mozilla Firefox
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Prerequisites:

- IBM BladeCenter chassis (Model H, HT, or E)
 - Monitor, keyboard, and mouse for setup
 - Network switch module
 - Advanced Management Module with latest-level firmware
 - Rack and appropriate power distribution units and main power distribution
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For more information

To learn more about the WebSphere DataPower Integration Blade XI50B, please contact your IBM marketing representative or IBM Business Partner, or visit the following website:

ibm.com/software/integration/datapower/xi50

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January 2011
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