IBM

WebSphere® software

IBM WebSphere Business Integration Connect Enterprise and Advanced editions, Version 4.2.2

Highlights

■ *Enables you to rapidly activate partner connections to deliver business value across your partner community*

■ *Provides comprehensive visibility into the details of trading-partner transactions*

■ *Lets you extend process integration outside your enterprise to include a community of diverse trading partners*

■ *Supports a wide variety of transport and communication choices, extensible through an open API*

■ *Enhances transactions through adherence to open, Internet-based process standards defined by the RosettaNet consortium*

■ *Offers high availability and scalability to rapidly meet the rigorous demands of large enterprises connecting multiple communities*

■ *Integrates with enterprise middleware to provide a consistent, unified view across numerous systems and applications*

In today's global business environment, the ability to rapidly establish and support a broad trading-partner community through rich, reliable and highly secure transactional connectivity is crucial to your enterprise's success. Because many of your business-to-business (B2B) processes, as well as your internal processes, rely on the efficiency of interactions with your trading-partner community, real-time visibility across your supply chain can help you quickly anticipate, identify and resolve problems. You can increase demand forecast accuracy and reduce inventory documentation errors. And cut costs for internal and external supply chain processes — as well as improve cycle times.

IBM WebSphere® Business Integration Connect software helps you rapidly extend integration with supply-chain processes to a large trading-partner community and deliver enterprise-wide visibility into these transactions. This leading-edge integration solution provides a gateway and a robust operating environment to deliver fast, reliable trading-partner interactions — regardless of how many businesses are involved or how many different applications, transport layers and protocols you incorporate.
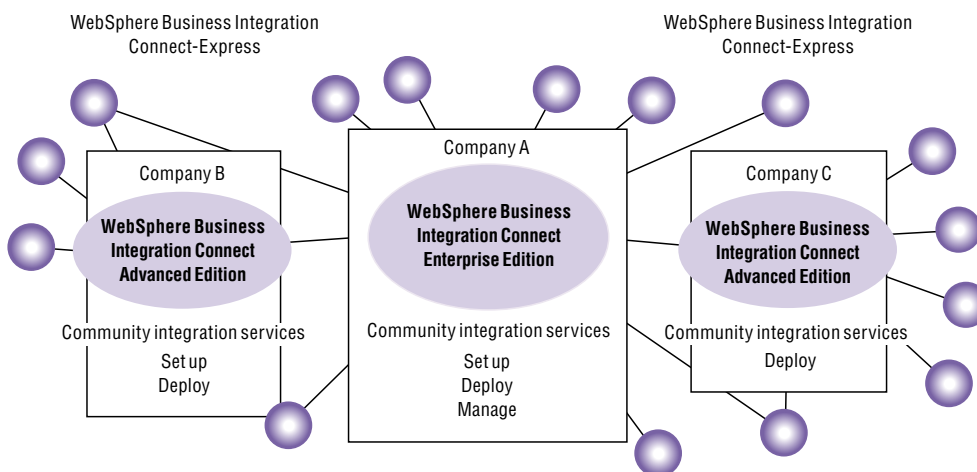
With an established community of integrated trading partners using WebSphere Business Integration Connect, partners can connect through any compliant software — including WebSphere Business Integration Connect–Express.

Use repeatable processes to quickly integrate a broad trading community

Rather than maintaining expensive, point-to-point connections with multiple layers of specialized infrastructures, you can use WebSphere Business Integration Connect software to create a framework that can tightly integrate relationships among your entire trading community through repeatable enablement processes. With WebSphere Business Integration Connect software, you can create an on demand operating environment that lets you activate trading-partner connections quickly and that you can enhance through community integration services to provide 24x7 hosted operations. Because it supports multiple file formats, certificate authorities and major industry-standard Internet transport protocols, WebSphere Business Integration Connect software helps ease integration of new B2B communication methods as they evolve. And the open architecture and interfaces within WebSphere Business Integration Connect software mean you can address new and specialized requirements over time as well.

Implement a versatile trading-partner integration solution

As you build a trading-partner community, you'll need to satisfy individual partner requirements and preferred styles of integration and connectivity. You'll also need to determine the level of integration required within your own enterprise for these trading-partner interactions. For example, you may simply need to exchange data with a community of trading partners, or you may want to extend your internal processes outside your organization's firewall to a number of trading partners.

To accommodate different goals and provide varying levels of connectivity and integration, WebSphere Business Integration Connect software supports:

- *A wide range of industry-standard protocols, including Applicability Statement 2 (AS2) protocol, XML and protocols from the RosettaNet consortium, as well as widely used business communication standards, such as IBM WebSphere MQ.*
- *Trading-partner interactions over transports, such as HTTP over Secure Sockets Layer (HTTPS), File Transfer Protocol (FTP) and Simple Mail Transfer Protocol (SMTP).*

- *Multiple security standards, including third-party certificate authorities from Verisign and Thawte, Secure Sockets Layer (SSL) support, and nonrepudiation as required for full AS2 compliance.*
- *Optional community integration services, including setup, deployment and management options.*

To address the needs of businesses of all sizes, WebSphere Business Integration Connect software is available in three editions.

- *WebSphere Business Integration Connect - Express***, for small and midsize businesses (SMBs) that participate in established electronic supply chains.*
- *WebSphere Business Integration Connect Advanced Edition, for larger businesses that plan to run a community to connect to first- and second-tier partners. These businesses prefer to pay according to the amount of usage as they connect to growing numbers of trading partners with potentially high transaction volumes.*

- *WebSphere Business Integration Connect Enterprise Edition, for large enterprises that plan to initiate and manage communities for a very large or unlimited number of trading-partner connections.*

Gain full visibility into all interactions across your trading community

WebSphere Business Integration Connect software helps you establish tight integration for your trading-partner community by simplifying the processes of:

- *Identifying trading partners.*
- *Preparing trading partners for participation in an integrated community.*
- *Supporting participants in their various roles in the community.*

With browser-based tooling, you gain visibility into all aspects of community integration, from partner onboarding through operation of the production environment. You can extend the functions of WebSphere Business Integration Connect software by

purchasing community integration services from IBM. With community integration services, you have 24x7 at-a-glance visibility into the overall community's onboarding status. You can also track individual partners through key process milestones — from readiness and activation to testing and actual operation. And you can use community integration services to generate real-time status reports when you need detailed information about a partner's readiness, community integration plans and implementation schedules.

When supported by community integration services throughout the activation and operational processes, your trading partners can get immediate help from a browser-based library of trading-community guidelines, business and technical documents, and frequently asked questions (FAQs). This assistance is in addition to the guidance and tooling included in the product.

When you use WebSphere Business Integration Connect Advanced Edition or WebSphere Business Integration Connect Enterprise Edition to run a hub to integrate with trading partners, you get full visibility into data flow across the overall community, virtually any time you need it. You can manage and configure the system, from console branding, permissions and password policy to events, workflow and object routing. WebSphere Business Integration Connect software also includes a community participant simulator, a test tool that helps you ensure B2B software functionality and data integrity — so nothing is left to chance.

Once their definitions have been added to WebSphere Business Integration Connect software, your trading partners can have access to filtered views of all data relevant to them. Each partner can examine details of all transactions, viewing individual message status (received, in progress, failed, successful). They can also see document content and choreography, examine audit trails and event logs, and use the error troubleshooting tool to quickly pinpoint and analyze document structure or format errors.

Employ feature-rich tools to help detect and avoid errors

WebSphere Business Integration Connect software includes a variety of tools to maintain accuracy and security of your community data. Predefined, customizable query tools help you locate documents by partner, ID, timestamp, protocol and status. The tool checks for errors by field location and value, and then suggests corrective actions based on this analysis. You're notified of exceptions through an alert engine that generates and sends you an e-mail.

To help protect your business from lost data and potential litigation, the data repository stores original and final documents and document-origin information, as well as transport method and packaging information. SSL server-based authentication enhances system security by preventing unauthorized parties from intercepting proprietary business data. WebSphere Business Integration Connect software uses a permission model to configure and enforce access rights. It also supports digital signatures while using industry-standard document encryption and decryption, and security tools.

To further preserve the integrity of your critical business activities and help assure end-to-end delivery, WebSphere Business Integration Connect software provides sophisticated message-queuing capabilities. For example, if you send a message to a trading partner with an unavailable gateway, WebSphere Business Integration Connect software holds the message for later delivery. The system continues to try resending the message at both transport and process levels. After the system exhausts all retries, it notifies the hub of the failure through predefined error and exception messages. And to preserve your investment in WebSphere MQ, the market-leading software for message queuing, you can now use WebSphere Business Integration Connect to exchange messages with trading partners using WebSphere MQ as the transport option between enterprises.

Get the benefits of full RosettaNet support

WebSphere Business Integration Connect software includes full support for RosettaNet standards, key to many of today's global B2B implementations. RosettaNet is an independent, nonprofit consortium dedicated to the collaborative development and rapid deployment of open, Internet-based business standards to align processes within global trading networks.

WebSphere Business Integration Connect software design is the result of expertise IBM gained by working with and running some of the largest, most-recent RosettaNet exchanges. For flexibility in conducting business with a variety of trading-partner communities, WebSphere Business Integration Connect software includes more than 20 RosettaNet Partner Interface Processes (PIPs). It complies with RosettaNet standards, including RosettaNet Implementation Framework (RNIF), Version 1.1, RNIF, Version 2.0 and also with electronic data interchange over the Internet (EDI-INT, including AS1 and AS2).

Establish a robust, highly available and scalable gateway

WebSphere Business Integration Connect software offers a versatile approach to deployment so it can be used by businesses of all sizes, in varying configurations. You can deploy software components on a single server — or on multiple servers — depending on your specific needs. Shared work queues and a high-availability storage system enhance document-queuing capabilities and smooth peaks in system demand. With a distributed-architecture design coupled with redundant configurations for Internet Protocol (IP) load balancing and shared storage, this robust solution permits dynamic environment configuration — without system downtime.

Use a multifunctional hub to enable different degrees of integration

As you implement new B2B solutions, it's essential to enable end-to-end integration across your enterprise — and extend that integration to trading-partner organizations. With WebSphere Business Integration Connect software, you can choose the level of integration required for your trading-partner community.

- *Use only the gateway function to exchange trading-partner data more efficiently.*
- *Extend your internal processes to trading partners outside your firewall by using the gateway software with a process engine, such as IBM WebSphere InterChange Server.*
- *Link WebSphere Business Integration Connect software with other components that are part of your integration infrastructure. For example, you can link data transformation software, such as IBM WebSphere Business Integration Server, or EDI-specific software, such as IBM WebSphere Data Interchange.*

Enhance the value of your trading-partner community

Use WebSphere Business Integration Connect software to streamline interactions between trading-partner communities. Tighten integration throughout your community to deliver better value from the integrated supply chain and extended value chain associated with each trading-partner organization. And help each member of your trading-partner community be more responsive to the needs of customers and suppliers through fast, efficient processes that can lower costs and reduce the likelihood of errors.

Experience quick activations, extensive visibility across the supply chain, flexible implementation options and integration with other B2B components in your enterprise. WebSphere Business Integration Connect software delivers the rich features required to give all participants in your trading community optimal business value.

For more information

To learn more about IBM WebSphere Business Integration Connect software, visit:

ibm.com/software/integration/wbiconnect

IBM WebSphere Business Integration Connect Enterprise and Advanced editions, Version 4.2.2 at a glance

Hardware requirements

Linux and Microsoft® Windows® operating environments
- 2GHz Intel® Xeon processor
- 2GB RAM minimum
- 300MB minimum available disk space for application; additional disk space needed
  for document storage (30GB recommended)

Note: Additional servers are required for added capacity and redundancy. Multiserver installations require network-attached shared storage.

IBM AIX® operating environment
- 600MHz processor
- 2GB RAM minimum
- 300MB minimum available disk space for application; additional disk space needed
  for document storage (30GB recommended)

Sun Solaris operating environment
- SPARC III, 750MHz
- 2GB RAM minimum
- 300MB minimum available disk space for application; additional disk space needed
  for document storage (30GB recommended)

Note: Additional servers are required for added capacity and redundancy. Multiserver installations require network-attached shared storage.

Software requirements

For Linux, one of the follow operating systems
- Red Hat Linux Advanced Server for Intel, Version 2.1
- SuSE Linux Enterprise Server for x86, Version 8 with SuSE Linux kernel 2.4

For AIX operating environment
- IBM AIX, Version 5.2 with APAR IY44183 or with recommended maintenance package 5200-01 and APAR IY44183

For Sun Solaris operating environment
- Sun Solaris operating environment, Version 8 with recommended patch cluster of April 2003

For Windows operating system
- Microsoft Windows 2000 with Service Pack 3

Supporting software

- IBM DB2® Enterprise Server Edition, Version 8.1 Fix Pack 2 and DB2 Universal Database Java™ Database Connectivity (JDBC) driver
- Oracle Database Server, Version 9.2.0.1 with Oracle JDBC thin driver
- IBM WebSphere MQ, Version 5.3 with Fix Pack CSD 03 or higher, with MAOC IBM MQSeries® Publish/Subscribe SupportPac™
- Microsoft Internet Explorer, Version 5.05 or higher; Netscape, Version 6.0 or higher for console access
- An SMTP-based, e-mail relay server for e-mail alert delivery and SMTP message delivery

Note: Dedicated servers are recommended for Oracle and WebSphere MQ. Actual requirements for your system may be greater, depending on the complexity of your specific environment, throughput and data object size.

National language translation, supporting:

- Chinese (simplified)
- Chinese (traditional)
- English
- French
- German
- Italian
- Japanese
- Korean
- Portuguese (Brazilian)
- Spanish

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