

IBM WebSphere Partner Gateway, Version 6.1.1

Highlights

- Provides centralized B2B trading-partner and transaction management through a single consolidated gateway.
- Supports Internet standards to connect partner systems, such as EDIINT AS1, AS2 and AS3; RNIF, Version 1.1 and 2.0; cXML; CIDX Chem eStandards, Version 4.0; and ebMS, Version 2.0
- Delivers integrated FTP(s) management
- Transforms data between internal application and external standards-based formats, such as EDI and XML industry implementations
- Provides trading-partner self-management and administration capabilities
- Leverages WebSphere Application Server Network Deployment, Version 6.1 capabilities to support consolidated application management and clustered deployment on multiple machines
- Supports extensibility through the WebSphere Partner Gateway User Exit Framework
- Offers a component architecture to enable scalability for high throughput and high availability with multiple deployment options.
- Supports Business Activity Monitoring by delivering CBE-formatted events about B2B transactions to WebSphere Business Monitor
- Integrates with the WebSphere SOA infrastructure for business process management, extending the reach of BPM solutions to secure B2B transactions with trading partners
- Integrates with other WebSphere SOA and BPM-related business-integration products

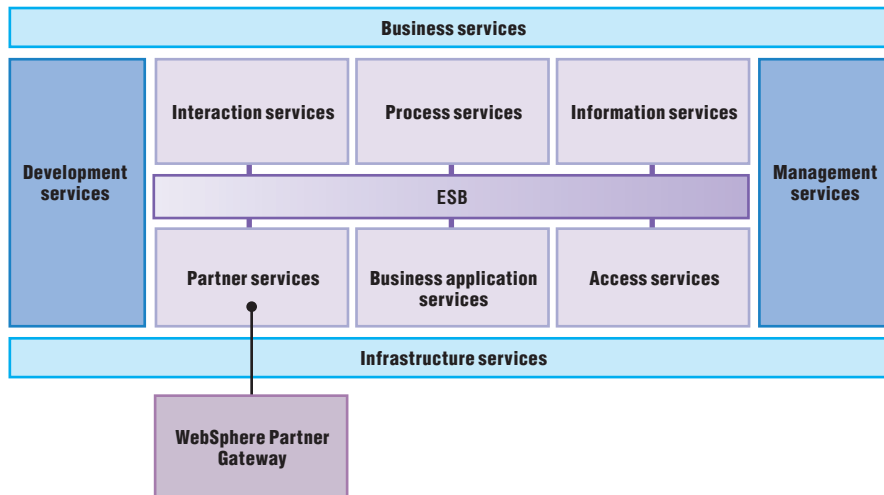


Figure 1. WebSphere Partner Gateway extends the reach of BPM solutions to secure B2B transactions with trading partners.

Business processes extend across supply and value chains on a global basis, and companies depend upon trading partners to run their businesses smoothly. Processes and rules change constantly—and you must quickly disseminate these changes to your trading partners. To keep pace, it is crucial that you strengthen your trading-partner relationships through tighter automated integration, so that you can make your trading partners an extension of your enterprise. You also have to comply with internal and external governance, including regulatory and reporting requirements associated with integrating your processes with those of your trading partners. In addition, over the past 20

years, there has been an unintended proliferation of connectivity protocols and industry data formats based on industry and geography. As a result, you need flexible and scalable business-to-business (B2B) gateways that can allow you to centralize, consolidate and efficiently manage all of your B2B trading-partner integration.

To help meet these needs, IBM WebSphere® Partner Gateway, Version 6.1.1 provides a centralized and consolidated B2B trading-partner and transaction-management application to enable and manage process and data integration with trading partners. It is an integral part of the WebSphere service oriented architecture (SOA)

and business process management (BPM) portfolio because of its ability to participate in SOA implementations and to enable organizations to integrate their trading partners within their BPM implementations.

WebSphere Partner Gateway, Version 6.1.1 is particularly useful for companies that need a single point of management for all B2B trading-partner integration and that need to support a wide range of B2B transport protocols, such as Electronic Data Interchange over the Internet (EDIINT) AS1, AS2 and AS3; commerce XML (cXML); RosettaNet Implementation Framework (RNIF); Version 1.1 and 2.0; and e-business XML Messaging Service (ebMS), Version 2.0, as well as EDI and industry XML implementations.

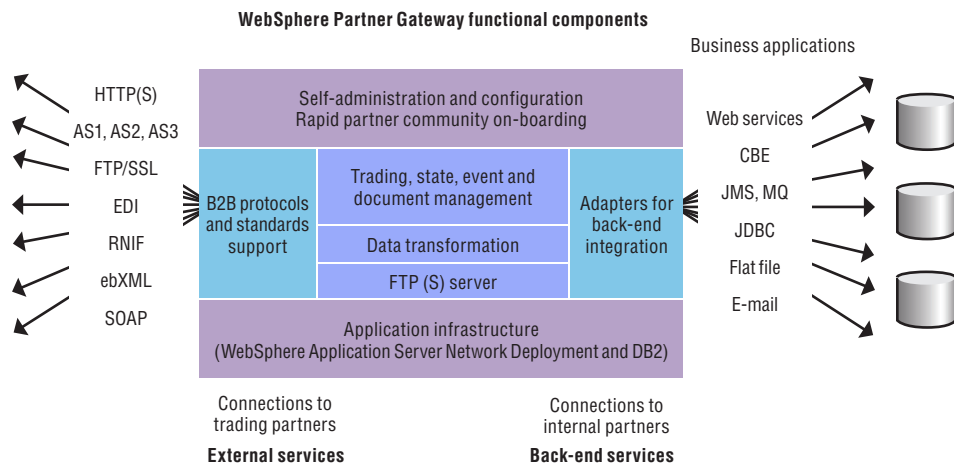


Figure 2. WebSphere Partner Gateway can support centralized and consolidated trading-partner and transaction management.

Companies that implement B2B gateways

Many companies with varying business objectives and requirements implement B2B gateways. These objectives and requirements include:

- *The need to improve the agility and responsiveness of their supply or value chains through streamlined, cost-effective trading-partner integration*
- *The need to gain competitive advantage by improving business performance through reduced time to market, lower operational costs and more-flexible response to customer and marketplace needs*
- *The need to comply with governmental or regulatory mandates that require integration using specific B2B integration methods*
- *The need to support a wide range of B2B transport protocols and industry formats to comply with trading-partner requirements*

Useful across a wide range of industries

B2B integration capabilities are used in most industries that need to support supply or value chains for manufacturing and services. These industries include:

- *Consumer retail*
- *Distribution and warehousing*
- *Manufacturing*
- *Automotive*
- *Electronics*
- *Transportation and logistics*
- *Health care*
- *Financial services*
- *Insurance*
- *Chemical and petroleum*
- *Public sector*

Applications for B2B gateways

B2B integration capabilities are used to enable and automate a variety of business processes and requirements. Key applications for B2B integration include:

- *Supply- and value-chain management and optimization*
- *Global logistics optimization and management*
- *Collaborative product design and engineering*

- *Radiofrequency identification (RFID) integration*
- *Warranty, maintenance or service programs*
- *Elimination of proprietary data-transport methods*
- *Compliance with public-sector regulatory mandates*
- *Electronic customs and ports, and supply-chain security applications*
- *Electronic invoicing and payment, and related banking applications*
- *Health-care claims, billings and records processing*
- *Product information management and synchronization*

Integration with small and mid-sized trading partners

You can use WebSphere Partner Gateway Advanced or Enterprise Edition, Version 6.1.1 to integrate with small and mid-sized trading partners using WebSphere Partner Gateway-Express, an existing lightweight, easy-to-implement gateway application with fewer capabilities (HTTP Secure [HTTPS] and EDIINT AS2).

Further, you can use the following capabilities to create custom solutions to integrate with small and midsized trading partners:

- *IBM Workplace Forms™, which uses XForms-based technology to allow transportable, self-validating B2B documents to be exchanged through e-mail or a secure portal*
- *RosettaNet Automated Enablement (RAE) technology-compliant solutions for the electronics and high-tech industry*
- *IBM WebSphere Portal, which you can use to build an application that enables smaller trading partners to enter information online related to B2B transactions*

Process integration beyond the enterprise

WebSphere Partner Gateway can help you integrate your trading partners within your shared business processes, and efficiently implement changes in business processes or rules throughout your supply or value chain. In a global economy, outsourcing and insourcing initiatives, and the virtual supply chain, have blurred both the boundaries of the enterprise and the distinction between public and private processes.

Conversely, industry-standards bodies are standardizing the public business processes within each industry vertical, thus making them a commodity that can be consistently implemented and supported by all trading partners within a supply or value chain. As a result, only private processes are left to provide a basis for differentiation and competitive advantage.

Regardless of how such forces play out, it is clear that process integration across the extended enterprise is important to improve profitability and to build competitive advantage. You can use WebSphere Partner Gateway in conjunction with IBM WebSphere Process Server and IBM WebSphere Business Monitor to help support business-process integration and related IT and business-event management within your company to meet quality-of-service objectives, key performance indicators (KPIs) and requirements related to service-level agreements.

Using WebSphere Application Server Network Deployment

WebSphere Partner Gateway, Version 6.1.1 works with and uses IBM WebSphere Application Server Network Deployment to provide enhanced manageability and deployability through:

- *WebSphere Application Server Network Deployment Manager, to support efficient installation and deployment on multiple components*
- *Consolidated management (logging, tracing and thread management) through a single WebSphere Application Server Network Deployment console*
- *Component-level clustering support, to provide centralized management, high availability and load balancing*
- *The ability to avoid a single point of failure by providing first-failure data capture to report and analyze problems as they occur, in multiple component deployments*
- *Use of WebSphere platform messaging (Java™ Message Service [JMS])*
- *Leveraging common skills and resources that are also used to manage other WebSphere Application Server applications*

Multiple editions

WebSphere Partner Gateway, Version 6.1.1 is available in two editions, Advanced Edition and Enterprise Edition, both of which provide the same functionality, but are licensed differently. WebSphere Partner Gateway Advanced Edition is licensed to support a specific number of trading-partner connections, and WebSphere Partner Gateway Enterprise Edition is licensed to support an unlimited number of trading-partner connections.

New in this release

WebSphere Partner Gateway, Version 6.1.1 incorporates and builds upon the capabilities of the previous release by adding substantial new functional capabilities, performance and usability enhancements, and operating-system platform support. These capabilities and enhancements include:

Integrated FTP Server

The integrated File Transfer Protocol (FTP) or FTP over Secure Socket Layer (FTP-S) Management feature packages the Apache FTP server with WebSphere Partner Gateway, Version 6.1.1. This feature allows you to configure and manage an FTP server from the WebSphere Partner Gateway console. You do not need to buy and install a separate FTP server.

Exchanges very large files over AS2 and AS3

WebSphere Partner Gateway can now support very large files (in the magnitude of gigabytes) over AS2 and AS3 protocols with signing and encryption, addressing the needs of large retailers and their suppliers.

RosettaNet Compression to transact large files

The new RosettaNet Compression feature allows you to transact large files with the RosettaNet Implementation Framework.

Basic authentication support for inbound messages

Support for basic authentication of inbound messages enables you to support basic authentication (user ID/password-based authentication) for all the messages that are delivered over HTTP/S protocol.

Enablement for FIPS 140-2

Federal Information Processing Standard (FIPS) 140-2 enablement allows WebSphere Partner Gateway, Version 6.1.1 to be compliant with the FIPS standard, often required for interaction with systems owned by U.S. government and other regulated industries, such as financial and health-care institutions. It enables compliance with B2B security standards to collect, store, transfer, share and disseminate “sensitive but unclassified” information. The product can be configured to run on FIPS mode or default mode.

Configurable synchronous timeout

The synchronous maximum timeout and synchronous maximum connections can be locally controlled for every HTTP receiver.

De-envelope and validation for SOAP messages

Support is provided for validating the SOAP Body and SOAP Envelope. In addition, you can de-envelope a SOAP Envelope.

Multiple resend

You can resend multiple inbound or outbound documents simultaneously.

Error flow routing

A feature provides for error flow routing in case of a validation and other failures. This feature allows for informing the initiating trading partner by sending a detailed error document whenever a document fails in WebSphere Partner Gateway while processing.

Multiple certificate support

Support is provided to aggregate a set of certificate requirements from multiple customers. This provides a mechanism to use multiple certificates for different protocols configured for multiple internal partners. This feature also includes a wizard to create certificates.

Multiple internal partners

Support is provided for the creation of multiple internal partners. This feature will allow the user to create more than one partner within an enterprise, which can represent different departments in an organization, for example.

Performance improvements

The Archiver performance has been improved for file-system and database archiving over the current Archiver tool. There are also improvements made on AS2 and RNIF synchronous and asynchronous throughputs.

Other features

The configuration type dependencies for migration also include event codes and alert notifications. Support is provided for deletion of selected artifacts (destinations, validation maps, document flow definitions, certificates) from the WebSphere Partner Gateway, Version 6.1.1 console.

New platform support

The product now supports Red Hat Enterprise Linux® (RHEL5) (32 bit and 64 bit), SUSE Linux Enterprise Server (SLES10) (64 bit), HP-UX 11iv2 on Intel® Itanium®, Microsoft® Windows® 2003 Server (64 bit), and Microsoft Vista (for development only).

For more information

To learn more about IBM WebSphere Partner Gateway, Version 6.1.1, contact your IBM representative or IBM Business Partner, or visit:

ibm.com/software/integration/wspartnergateway/

To join the Global WebSphere Community, visit:

www.websphere.org

IBM WebSphere Partner Gateway Advanced and Enterprise Editions, Version 6.1.1 at a glance

Hardware requirements

IBM AIX® operating environment

- Processor: IBM System i™ or IBM System p™ model at 600 MHz or faster
 - Main memory: 2 GB minimum
 - Hard disk: Minimum 1.3 GB (1350 MB) available disk space for installation
-

HP-UX on Itanium operating environment

- Processor: Intel Itanium 2 processor
 - Main memory: 2 GB minimum
 - Hard disk: Minimum 1 GB (1080 MB) available disk space for installation
-

Linux for Intel (x86) operating environment

- Processor: Intel Pentium® at 2 GHz or faster
 - Main memory: 2 GB minimum
 - Hard disk: Minimum 1.3 GB (1350 MB) available disk space for installation
-

Linux for POWER™ operating environment

Linux for IBM System i operating environment

- Processor: System i models that support logical partitioning (LPAR) (64-bit kernel support only) with a minimum of 450 commercial processing workload (CPW) in the Linux partition
- Main memory: 2 GB minimum
- Hard disk: Minimum 1.3 GB (1350 MB) available disk space for installation

Linux for IBM System p operating environment

- Processor: System p models that support Linux (64-bit kernel support only)
 - Main memory: 2 GB minimum
 - Hard disk: Minimum 1.3 GB (1350 MB) free disk space for installation
-

Sun Solaris Operating Environment

- Processor: Sun SPARC at 750 MHz or faster
 - Main memory: 2 GB minimum
 - Hard disk: Minimum 1.3 GB (1350 MB) available disk space for installation
-

Windows operating environment

- Processor: Intel Pentium (x86 / x86-64) at 2 GHz or faster (or) Intel Xeon® at 3 GHz or faster
 - Main memory: 2 GB minimum
 - Hard disk: Minimum 1.3 GB (1350 MB) available disk space for installation
-

Notes:

- Actual hardware requirements for your system might be greater, depending on the complexity of your specific environment, throughput and data-object size.
- Multiserver installations require shared network-attached storage (NAS).
- Additional servers might be needed for added capacity and redundancy.
- Additional hard-disk storage capacity is needed for document storage.

WebSphere business-integration software products to support SOA and BPM

Product	Function	Benefit
IBM WebSphere Business Modeler	Enables your organization to visualize, comprehend, document and deploy its business processes	Enables tight links between business processes, technology enablement and strategic business objectives
IBM WebSphere Integration Developer	Provides a common tool for building SOA-based integration for IBM WebSphere Process Server, IBM WebSphere Enterprise Service Bus (WebSphere ESB) and IBM WebSphere Adapters	Enables integration developers to assemble complex business solutions for processes, mediations, adapters or code components
IBM WebSphere Process Server	Delivers a BPM engine to automate and manage business processes	Enables alignment of business and IT goals by implementing automated BPM
IBM WebSphere Business Monitor	Enables you to monitor business processes in real time, providing a visual display of process status, and alerts and notifications	Enables you to use real-time monitoring and analysis capabilities to continuously improve business processes
IBM WebSphere Adapters	Enable you to connect and integrate disparate enterprise resource planning (ERP), human resources (HR), customer relationship management (CRM) and supply-chain systems	Provide investment protection, business agility, speed of implementation, enhanced competitiveness, flexibility and adaptability, and ease of use
IBM WebSphere ESB	Provides a framework for implementing SOA by supporting flexible and modular connectivity and messaging	Enables your company to focus on core business needs rather than the IT infrastructure required for connecting the programs together by allowing you to add new services or make changes to existing services with little or no impact on the use of existing services
IBM WebSphere MQ	Provides a reliable messaging backbone for integration between disparate applications with assured delivery	Enables you to take advantage of the reliable messaging across more than 80 platforms to connect applications and Web services
IBM WebSphere Message Broker	Supports powerful data manipulation and integration between disparate sources of data	Provides an advanced ESB that delivers the connectivity and data transformation to support SOA
IBM WebSphere Transformation Extender	Supports complex data transformation without coding, and provides support for EDI, Health Information Portability and Accountability Act (HIPAA), SWIFT and other industry standards	Enables consistent data transformation and enrichment, reduced application development and maintenance costs, increased knowledge reuse, scalability of development, standardized components, increased quality of applications, reuse of transformation across the enterprise and decreased time to market of new applications
IBM WebSphere Service Registry and Repository	Provides clear visibility into service associations and relationships while encouraging reuse of services to avoid duplication and help reduce cost	Enables companies to increase the business value of SOA through better management and governance of Web services
IBM WebSphere Data Interchange	Supports EDI-related integration between trading partners based on ANSI X12, UN/EDIFACT and other industry standards for IBM z/OS® and distributed platforms	Enables reliable, seamless, efficient and high-throughput integration between business applications of trading partners

IBM WebSphere Partner Gateway Advanced and Enterprise Editions, Version 6.1.1 at a glance (continued)

Software requirements

AIX operating environment

- For 32 bit: IBM AIX 5L™, Version 5.2 and 5.3
 - For 64 bit: AIX 5L, Verion 5.2 and 5.3
-

HP-UX operating environment

- For 64-bit Itanium: HP-UX 11i, Version 2
-

Linux for Intel (x86) operating environment

32 bit (one of the following):

- Red Hat Enterprise Linux, Version 3, 4, and 5
- SUSE Linux Enterprise Server, Version 9 and 10

64 bit (one of the following):

- Red Hat Enterprise Linux, Version 5
 - SUSE Linux Enterprise Server, Version 10
-

Linux for POWER operating environment

32 bit (one of the following):

- Red Hat Enterprise Linux AS, Version 4
- SUSE Linux Enterprise Server, Version 10

64 bit (one of the following):

- Red Hat Enterprise Linux AS, Version 4
 - Linux Enterprise Server, Version 10
-

Sun Solaris Operating Environment

- For 32 bit: Sun Solaris (SPARC) Operating Environment, Version 9 or 10
-

Windows operating environment

32 bit (one of the following):

- Windows Server 2003 Standard
- Windows Server 2003 Enterprise

64 bit (one of the following):

- Windows Server 2003 Standard x64 Edition
 - Windows Server 2003 Enterprise x64 Edition
-

Up-to-date information on operating system platform support is available at ibm.com/software/integration/wspartnergateway/sysreqs.

IBM WebSphere Partner Gateway Advanced and Enterprise Editions, Version 6.1.1 at a glance (continued)

Other software requirements

Application server (one of the following)

- WebSphere Application Server Network Deployment, Version 6.1 (included with terms and conditions limitations for use with WebSphere Partner Gateway only)
 - WebSphere Application Server, Version 6.1 (optional)
-

Web browser for console access (one of the following)

- Microsoft Internet Explorer, Version 6.0 with Service Pack (SP) 1 or later
 - Mozilla, Version 1.4 or 1.7
-

A Simple Mail Transfer Protocol (SMTP)-based e-mail relay server for e-mail alert delivery and SMTP message delivery

Databases (one of the following)

- IBM DB2® Universal Database™ Enterprise Server Edition, Version 8.2
 - DB2 Enterprise Server Edition, Version 9.1 (included with terms and conditions limitations for use with WebSphere Partner Gateway only)
 - Oracle Enterprise Edition 9i, Release 2 (9.2)
 - Oracle Enterprise Edition 10g, Release 1 (10.1)
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