

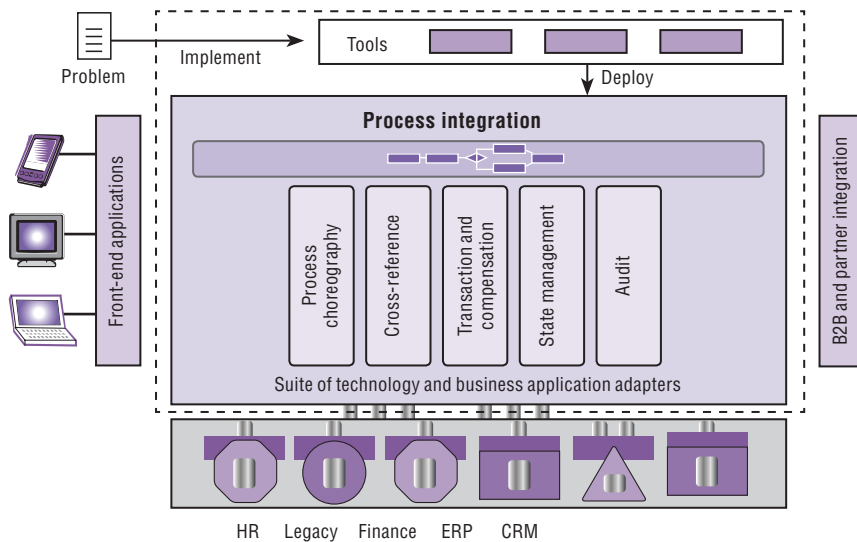


WebSphere® software

IBM WebSphere Business Integration Server Express, Version 4.4

Highlights

- Offers a comprehensive business integration solution with affordable, per-processor pricing and flexible terms, enabling you to buy what you need now and upgrade later as your business grows
- Provides user-friendly business rules designed to help optimize business agility
- Helps speed B2B partner connectivity by using standard protocols
- Includes a choice of prepackaged adapters, process templates and necessary prerequisites
- Includes improved Web-deployment features
- Provides extensive samples and fast-path documentation to help you get up and running quickly
- Delivers fully integrated, wizard-driven tooling that is easy to use and requires minimal skills
- Enables faster integration with business applications, including IBM WebSphere Host Access Transformation Services, IBM WebSphere Portal servers, IBM@server iSeries applications and IBM WebSphere Commerce software
- Helps you transform your organization to an on demand business by using your existing assets and lowering overall TCO
- Runs on multiple platforms, including Windows, Linux and iSeries
- Provides support for Web services, including BPEL and other industry standards



WebSphere Business Integration Server Express software uses a common set of business integration technologies to access information and automate functions that involve business rules and flows spanning back-end systems.

As today's midsize businesses react to intense market pressures—including sweeping regulation changes and new supplier requirements to automate and integrate business processes—responsiveness and flexibility have become high-priority issues. The ability to adapt and respond on the fly to customers and trading partners, volatile marketplace conditions or new business requirements can have a significant impact on your company's opportunities to succeed.

To transform your business into a successful on demand business, you must optimize the ability of all your business-critical applications and processes to communicate with each other effectively. You might have many applications that you need to work with, both internally or externally with trading partners. An effective business integration solution can help increase business efficiencies across your entire value chain and reduce your overall total cost of ownership (TCO), while at the same time generating new revenue opportunities.

With short project timelines and limited IT resources, midsize companies can face unique challenges with business-process transformation projects. IBM WebSphere® Business Integration Server Express, Version 4.4 software is designed to help small and midsize businesses automate and integrate their processes and applications throughout their enterprises quickly and easily. Based on open standards, WebSphere Business Integration Server Express software can grow to meet changing business needs, while helping you leverage existing investments. You can increase operational efficiencies as you improve customer, trading-partner and supplier relationships. You can compete with larger businesses because you are able to adapt your offerings as necessary to meet customer needs in a rapidly changing marketplace.

Get a quick start

A low-risk, affordable path to business integration, WebSphere Business Integration Server Express software can help you integrate your business processes quickly, without straining your budget. Per-processor pricing gives you the flexibility to purchase only the solution you need, when you need it. By reducing the expense required to establish or expand your business integration initiatives, you can put more resources toward your business.

With flexible options to help you develop and maintain comprehensive solutions, you can get started now and protect your investment as business grows. WebSphere Business Integration Server Express, a leading-edge entry solution, provides a range of robust function:

- *Prepackaged IBM WebSphere Business Integration Server Express Foundation Collaboration software, a process template that enables you to create on-ramp solutions.*
- *Prepackaged business connectivity adapters (up to a maximum of three adapters).*
- *Comprehensive integration capabilities that include process integration, message mapping and transformation, back-end integration and trading partner integration.*
- *Easy-to-use administrative tools that enable business users to design, deploy and manage your Web site effectively without extensive programming.*
- *A streamlined design and user-friendly installation panels to accelerate your time to value. Features include an integrated end-to-end installation process; automated checking for prerequisites; automatic installation of prerequisites, many of which are provided with the product; and a sample program that is installed with the product to provide verification of the installation when completed.*

Besides these functions, WebSphere Business Integration Server Express Plus provides other, advanced capabilities such as:

- *Tools to extend and customize prepackaged business-process templates.*
- *IBM WebSphere Business Integration Connect-Express that enables up to five trading partners to interact efficiently with each other through a community hub using industry-standard data formats and protocols. WebSphere Business Integration Connect-Express helps you reduce the risks and costs associated with business-to-business (B2B) environments.*
- *Extended adapter availability (up to a maximum of five adapters).*
- *Optional IBM Adapter Capacity Pack for WebSphere Business Integration Server Express Plus, which allows you to integrate business applications through a suite of prepackaged adapters.*

- *Optional IBM Collaboration Capacity Pack for WebSphere Business Integration Server Express Plus, which enables you to choose one grouping of collaborations (called IBM WebSphere Business Integration Collaborations Process Accelerators) from four available business-scenario groupings—procurement, customer relationship management (CRM), order management, and financials and human resources (HR).*

Enhancements in this release improve flexibility and ease of use

WebSphere Business Integration Server Express, Version 4.4 now includes enhancements designed to help make automating your business processes even easier.

- *Improved flexibility helps you manage business rules and events more efficiently. Easy-to-use wizards enable you to create and modify business rules to respond quickly as your business needs change.*
- *Extensions to WebSphere Business Integration Server Express tooling enable better integration with IBM WebSphere Portal. By exposing your business processes as portlets, you can provide a graphical front end to processes—and improve the experience that your customers have interacting with your business.*

- *Simplified, Web-based, remote deployment and configuration enable you to use Web-based tooling to administer WebSphere Business Integration Server Express remotely—helping you respond to customer needs faster.*
- *Web-based deployment and management helps speed service implementation and improve customer satisfaction. Wizard-driven configuration management eases administration burdens by providing tooling that facilitates deployment, enhanced configuration views and possible customizable configuration patterns. Remote, security-rich Web-based management helps improve operating efficiencies.*
- *Improved prebuilt adapters include those for IBM WebSphere Commerce, HTTP, TCP/IP and healthcare data protocols. WebSphere Business Integration Server Express also includes data handlers for complex data, XML and electronic data interchange (EDI). Easy connectivity to a wide range of applications—like databases, business applications and homegrown legacy applications—helps you leverage existing assets to implement business processes.*
- *Version 4.4 provides, as a technology preview, tooling to create adapters for your homegrown and other business applications. Wizard-driven function incorporates design, development and testing of your adapters by integrating with hundreds of existing and new applications.*
- *WebSphere Business Integration Server Express, Version 4.4 helps maximize your ability to reuse existing assets such as Microsoft® BizTalk adapters. This technology preview provides the capability to reuse adapters designed to operate with the BizTalk integration platform and to import metadata used by these adapters in the BizTalk environment.*

Automate and integrate to increase business efficiencies

Getting fast access to the data you need, wherever it might be, can provide the flexibility and competitive edge necessary in today's marketplace. By effectively coordinating your value chain, you can increase your ability to respond quickly to unpredictable changes in pricing and labor, competition, and the needs of customers and suppliers. Information can flow easily around your organization and beyond, into an integrated community of trading partners and customers.

WebSphere Business Integration Server Express software allows you to use a common set of business integration technologies to access information and automate functions that involve business rules and flows spanning back-end systems. Built on open standards, WebSphere Business Integration Server Express smoothly integrates with your existing resources, eliminating the need to replace your current infrastructure, systems and data stores. By helping you redefine the business processes underlying your operations, WebSphere Business Integration Server Express can help you solve common, as well as unexpected, business challenges. For example, you can quickly automate individual steps and streamline processes to increase operational efficiencies. Link to trading partners and update shared data faster while eliminating the high costs of manual transactions. Connect internal and external applications to exchange information reliably so you can respond to customer needs faster.

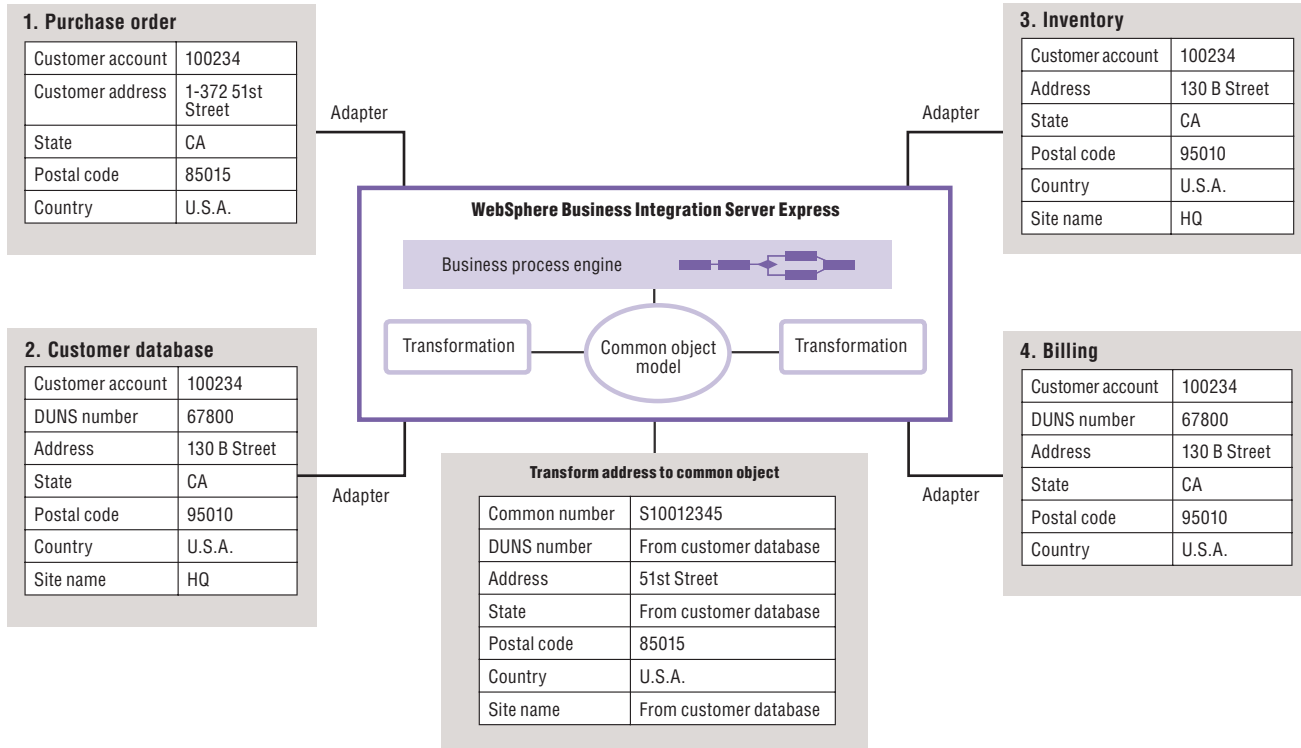
A foundation for integration

IBM WebSphere InterChange Server Express, a key component of IBM WebSphere Business Integration Server Express, helps increase your business flexibility by automating and synchronizing business activities running across multiple applications as business processes. By using multithreading to run business-logic processes concurrently, WebSphere InterChange Server Express can handle transactions and interchanges efficiently, using a common approach to business logic to define the rules and specifications that control how transaction run.

WebSphere InterChange Server Express leverages a logical, distributed hub-and-spoke model, which provides an efficient way to maintain a single point of control over several systems at once. The spoke architecture connecting applications to the server achieves more scalability by enabling simultaneous processing of the same business events whenever the application interfaces support it. An important part of integration, the underlying transformation logic in WebSphere InterChange Server Express can reconcile differences in format and structure among different application representations of the same business entity. For example, entries for a purchase order can be mapped to different systems in different

formats. By decoupling processes and work flows from their corresponding applications and automating their implementation, WebSphere Business Integration Server Express can help improve the efficiency of your business operations.

WebSphere InterChange Server Express helps protect data integrity by enabling event sequencing, cross-referencing and transaction-management services. Event sequencing helps keep events that trigger activities within a process in sequential order. This feature allows business processes to run in the order they are supposed to, independent of when the activities that are triggered within them finish.



As this example of a four-step purchasing order process shows, WebSphere Business Integration Server Express easily and efficiently automates business-process flows that span several applications.

Easy-to-use integration tools

An easy-to-use tool set provides a simplified graphical environment to help you rapidly configure and deploy business-object synchronization and process-automation logic. Based on the Eclipse open-standard framework, the tool set included in WebSphere Business Integration Server Express enables a consistent, flexible user interface across the entire platform. This framework delivers a team-based visual design environment, which gives you the option to allow source-code management by another vendor's program and helps simplify business-process design by reducing the need for specialized programming. Drag-and-drop capabilities help you rapidly create processes and connect to back-end systems, while deployment wizards walk you through the steps of implementing their creations.

WebSphere Business Integration Server Express supports open standards like Web services and Business Process Execution Language (BPEL). Using the simplified tooling, you can consume Web services as part of the process flow. Similarly, you can

expose processes as Web services for other applications to reuse your processes. WebSphere Business Integration Server Express enables you to import BPEL artifacts into your process flow. You can also export your current process flows into BPEL.

Simplified tooling can help you put more control over designing your business-critical processes into the hands of your line-of-business (LOB) users, giving you increased business agility and the ability to change processes as required to meet market needs. With your IT systems adjusting to the speed of your business ideas and your business staff in control of value-chain processes, you can help shorten your time to market and reduce costs.

The WebSphere Business Integration Server Express tool set offers the essential design, deployment and management tools you need to implement your integration solutions, including:

Development tools

- **Business object designer express**
Provides a graphical tool to generate and maintain business objects
- **Map designer express**
Provides a graphical tool to generate and maintain maps, and transform application-specific business objects to and from the IBM WebSphere Business Integration Server Express business-object format
- **Connector configurator express**
Configures the adapter with information such as the enterprise information system (EIS) host name, port and the business objects that the adapter supports
- **Relationship designer express**
Defines the relationships between application objects necessary for simultaneously synchronizing data across multiple applications
- **Process designer express**
Allows users to graphically sketch and refine the logical flow of business processes (shipped only with WebSphere Business Integration Server Express Plus)
- **Test connector**
Enables testing between agents without the complexity of application connectivity

Administrative tools

- **System manager**
Handles project and component development, configuration editor and console and log output
- **Flow manager**
Enables resubmission or deletion of failed flows
- **Log viewer**
Enables logged test-file data to be viewed in a tool, providing better information and searching capability
- **Relationship manager**
Monitors and manages relationships between application objects to simultaneously synchronize data across multiple applications

Speed deployment with prepackaged business-process templates

To help you implement your solution faster, WebSphere Business Integration Server Express provides solution-specific business-process definitions already configured for common applications. With a range of collaborations that graphically define and automate process steps, WebSphere Business Integration Server Express can help you accelerate the integration of common business processes that span multiple applications.

Prepackaged business-process templates (collaborations) contain logic that describes a distributed business process; different collaborations are provided for different fundamental business processes. Data is exchanged through collaborations in the form of business objects with the help of adapters.

WebSphere Business Integration Server Express collaborations help support new ways of doing business by separating your business processes from the applications used to perform them. This capability can help maximize your ability to reuse existing assets and help make your systems more flexible. You can create repeatable solutions for business-process automation steps to help contain future costs as your business requirements evolve.

Connect to trading partners to increase your competitive advantage

WebSphere Business Integration Server Express provides prepackaged adapters that allow you to rapidly integrate with your trading partners using WebSphere Business Integration Connect–Express. These adapters

can provide greater flexibility and adaptability when integrating systems. This flexibility helps protect you from technology change and enables you to move to different integration systems as your business integration needs change. The adapters are available out of the box, which eliminates the need for in-depth knowledge of underlying applications or extensive coding, enabling you to get to market more quickly and to focus on achieving business results.

Monitor and manage business activities

WebSphere Business Integration Server Express helps support Internet-based system monitoring with a variety of visual components that can display the health of the server and application adapters. You can collect business-process statistics and view them in customizable formats, such as charts or graphs. For example, you can learn which business units or individuals might be underperforming, which deadlines are in jeopardy or other issues that potentially impede implementation of corporate strategy.

Choose the right software to meet your unique business needs

WebSphere Business Integration Server Express creates an open-standards-based environment that integrates with new and existing technologies. This flexible infrastructure, combined with broad operating system support, provides a foundation that frees you from the constraints of a single proprietary platform.

WebSphere Business Integration Server Express supports the Microsoft Windows® platform, IBM OS/400® and IBM i5/OS™ for IBM @server® iSeries™ systems and Linux®, one of the world's fastest-growing operating systems. And because it uses the same code base as the rest of the IBM WebSphere Business Integration software family, you can easily upgrade or migrate to future versions. The result is reduced risk, IT investment protection and the capability to quickly add new features that work with existing systems and other vendors' applications.

Begin with a solution that can help drive the greatest value today and add capabilities as your business needs change. Whether you choose WebSphere Business Integration Server Express or WebSphere Business Integration Server Express Plus, you receive a comprehensive business integration solution that's easy to implement and administer. Both solutions are versatile, allowing you to connect to a variety of back-end systems, so you can make the most of your existing IT investments. Each solution is also fully integrated, so it's functional from the start. Both solutions deliver a low TCO to help you meet IT budget objectives, while making a positive impact on your company's bottom line.

Take the Express route

Express offerings from IBM combine best-of-breed hardware, software and services. Designed, developed and priced specifically for midsize companies like yours, Express software offerings come in complete packages, ready for you to use, right out of the box.

- *Speedy installation that takes minutes, not hours*
- *Packed with features, without requiring you to spend more*
- *Ready to help you grow, as your business needs demand*
- *Priced with a midsize budget in mind, with low-rate finance options available from IBM Global Financing*
- *Easy to own and to use, without adding administrative burdens or lengthy learning curves*
- *Built to run on key midsize platforms like Microsoft Windows 2003, IBM OS/400 and i5/OS for IBM @server iSeries systems and Linux systems*

With more than 90 000 highly qualified IBM Business Partners, you'll be able to find a local solutions provider to help you decide what offerings are right for your business.

For more information

To learn more about how IBM WebSphere Business Integration Server Express or IBM WebSphere Business Integration Server Express Plus solutions can help you automate and integrate your business processes, visit:

ibm.com/websphere/wbiserverexpress

IBM WebSphere Business Integration Server Express, Version 4.4 at a glance

Hardware requirements

The following hardware requirements represent the most up-to-date information at publication. To view the latest hardware requirements for IBM WebSphere Business Integration Server Express, Version 4.4, visit ibm.com/software/integration/wbiserverexpress/requirements/.

Minimum system requirements recommended for server components:

Microsoft Windows

- 1GHz Intel® Pentium® III processor or dual processors each with a minimum speed of 667MHz
 - 512MB RAM
 - 40GB disk space
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OS/400 and i5/OS

- A system capable of running OS/400, Version 5 Release 2 or i5/OS, Version 5 Release 3 with a minimum commercial processing workload of 300
 - 1GB RAM
 - 40GB disk space
-

Linux

- 1GHz Pentium III processor or dual processors each with a minimum speed of 667MHz
 - 512MB RAM
 - 40GB disk space
-

Minimum system requirements recommended for build-time components:

Microsoft Windows

- 1GHz Pentium III processor
 - 512MB RAM
 - 10GB disk space
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IBM WebSphere Business Integration Server Express, Version 4.4 at a glance (continued)

Software requirements

The following software requirements represent the most up-to-date information at time of publication. To view the latest software requirements for IBM WebSphere Business Integration Server Express, Version 4.4, visit ibm.com/software/integration/wbiserverexpress/requirements/.

Microsoft Windows

- Microsoft Windows 2003 operating system (Standard Edition or Enterprise Edition)
 - One of the following databases:
 - IBM DB2® Universal Database™ Express Edition, Version 8.2 (included)
 - IBM DB2 Universal Database Enterprise Server Edition, Version 8.2
 - IBM DB2 Universal Database Express Edition, Version 8.1 with Fix Pack (FP) 5
 - IBM DB2 Universal Database Enterprise Server Edition, Version 8.1 with FP 5
 - Microsoft SQL Server 2000 with Service Pack (SP) 3A
 - IBM Tivoli® Directory Server Version 5.2 (optional, for use only with the role-based access-control feature)
 - One of the following:
 - IBM WebSphere Application Server – Express, Version 6.0 (included)
 - IBM WebSphere Application Server – Base, Version 6.0
 - IBM WebSphere Application Server – Express, Version 5.1.1
 - IBM WebSphere Application Server – Base, Version 5.1.1
 - Tomcat, Version 4.1.24 or Version 4.1.27
 - Simple Mail Transport Protocol (SMTP)-based e-mail system
 - Microsoft Internet Explorer 6 with SP1, to view HTML documents
 - Adobe Acrobat 4.05 or later, to view online publications
-

OS/400

- OS/400, Version 5 Release 2 or i5/OS, Version 5 Release 3 operating system, which includes:
 - IBM DB2 Universal Database for iSeries
 - IBM Developer Kit for Java™ Option 6 (JDK, Version 1.4)
 - Host servers (Option 12)
 - QShell Interpreter (Option 30)
 - Digital communication manager (Option 34)
 - Other software products included as distribution media:
 - Crypto Access Provider for iSeries
 - IBM HTTP Server Powered by Apache
 - TCP/IP Connectivity Utilities for iSeries
 - IBM Toolbox for Java (5722-JC1)
 - One of the following:
 - IBM WebSphere Application Server – Express, Version 6.0 for OS/400 (included)
 - IBM WebSphere Application Server, Version 6.0 for OS/400
 - IBM WebSphere Application Server – Express for iSeries, Version 5.1
 - IBM WebSphere Application Server for iSeries, Version 5.1
 - SMTP-based e-mail system
 - Microsoft Internet Explorer, Version 6 with SP1 to view HTML documents
 - Adobe Acrobat, Version 4.05 or later, to view online publications
-

IBM WebSphere Business Integration Server Express, Version 4.4 at a glance (continued)

Software requirements

Linux

- Red Hat Enterprise Linux Advanced Server for Intel, Version 3.0 with Update 2, SUSE LINUX Enterprise Server, Version 8.1 with SP3, or SUSE LINUX Enterprise Server, Version 9.0 operating system
- One of the following databases:
 - DB2 Universal Database Express, Version 8.2 (included)
 - DB2 Universal Database Enterprise Server Edition, Version 8.2
 - DB2 Universal Database Express, Version 8.1 with FP 5
 - DB2 Universal Database Enterprise Server Edition, Version 8.1 with FP 5
 - Tivoli Directory Server Version 5.2 (optional, for use only with the role-based access control feature)
- One of the following:
 - WebSphere Application Server – Express, Version 6.0 (included)
 - WebSphere Application Server – Base, Version 6.0
 - WebSphere Application Server – Express, Version 5.1.1
 - WebSphere Application Server – Base, Version 5.1.1
 - Tomcat, Version 4.1.24 or Version 4.1.27
- SMTP-based e-mail system
- Microsoft Internet Explorer, Version 6 with SP1 to view HTML documents
- Adobe Acrobat, Version 4.05 or later, to view online publications

IBM WebSphere Business Integration Server Express tool set*

Microsoft Windows

- One of the following operating systems:
 - Windows 2003 (Standard Edition or Enterprise Edition)
 - Windows XP Professional with SP1A
 - Source code control (one of the following to support System Management [SM] source-code control and to view HTML documents):
 - IBM Rational® ClearCase® LT, Version 4.2
 - Concurrent Version System (CVS), Version 1.11 to support SM source-code control
 - Microsoft Internet Explorer, Version 6 with SP1, or later
 - Adobe Acrobat, Version 4.05 or later to view online publications
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- * IBM WebSphere InterChange Server Express must be installed on the same machine as the tool set. A separate instance of the database used as the WebSphere InterChange Server Express repository, dedicated to testing purposes only, is also required.