*Helps ensure communications between you and your trading partners comply with the standards you've agreed on*

WebSphere® software

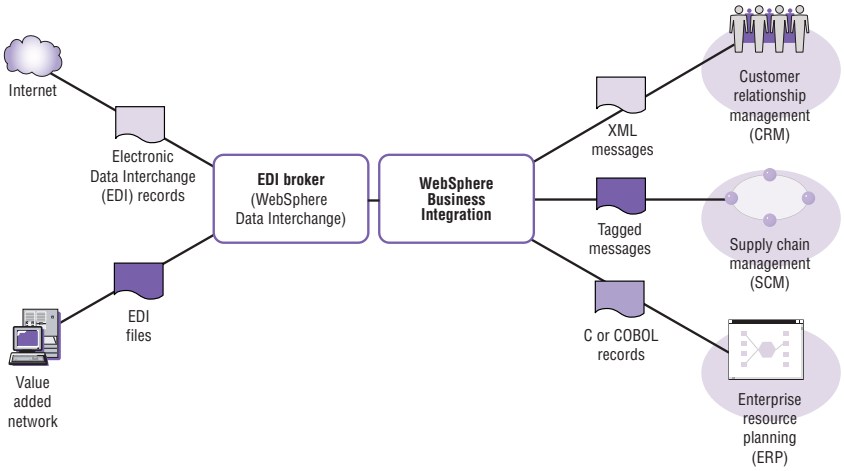
# IBM WebSphere Data Interchange for z/OS, Version 3.2

## Highlights

- ***Integrates your EDI system with your applications and business processes***
- ***Optimizes any-to-any translation of EDI, XML and data formats***
- ***Enables the extension of EDI capabilities to the Internet***
- ***Complies with data standards for EDI***
- ***Includes client with point-and-click GUI interface for setting up profiles and mapping***
- ***Uses WebSphere MQ messaging for assured delivery***

### Take control of your e-business

Thousands of daily transactions place significant demands on your e-business infrastructure. To keep customers happy, you must efficiently handle e-commerce records and fulfill orders in a timely manner. Manage database information, customize financial tools like invoices and purchase orders. And as your e-business grows, keep costs down. IBM WebSphere® Data Interchange for z/OS™, Version 3.2 is a robust data translation and transaction management solution that can scale with your Electronic Data Interchange (EDI) needs, allowing you to improve back-office reporting.




*An example solution using WebSphere Data Interchange*

WebSphere Data Interchange, when used with the IBM WebSphere business integration family, lets you meet customers' needs and organize your e-commerce back office with the tools and technology necessary to expand your EDI capabilities. The data packets you receive from other back-end applications are translated into compatible formats. Transactions can be managed with highly secure efficiency.

### Provide a data translation and transaction management solution

Using WebSphere Data Interchange helps you create, deploy, execute and manage data mapping between EDI formats, XML formats and application data formats. It supports the mandatory requirement for EDI trading partner exchanges such as auditing and data content validation, as well as providing many functions such as trading partner profiles, enveloping, syntactic validation and functional acknowledgement. Transmission scheduling and exchange error handling enable highly optimized information exchange.

**Enhance functionality of your EDI system**

Fine-tune your EDI systems to meet financial and performance objectives by using simple, online profile definitions to designate trading partners, mailboxes and transactions. Select time-sensitive transactions you want to collect immediately or receive them through routine batch handling. Integrating EDI with existing host applications allows transactions to flow rapidly between trading partners. For example, when a manufacturer's production-monitoring system generates an inventory replenishment call, a purchase order is automatically created and transmitted. A shipping order and bar-code label are generated. An advance-ship notice can then be sent directly to the manufacturer's system and an invoice placed into a batch file for overnight handling.

WebSphere Data Interchange offers control mechanisms, storage sites and communication capabilities that provide event-driven EDI functionality to support just-in-time or quick-response efforts. It also provides profiling features that help reduce the number of trading partner profiles — simplifying and eliminating the need to define profiles for individual trading partners. These functions help manage large EDI hubs and EDI gateways, and help consolidate EDI tasks.

The WebSphere Data Interchange client includes a point-and-click graphical user interface (GUI). It provides access to menus, displays and reporting functions, including: side-by-side, drag-and-drop EDI mapping, maintenance of application data formats, standards and profile maintenance, control-string generation and trading-partner management. WebSphere Data Interchange lets you choose from menu lists, rather than typing options. The WebSphere Data Interchange client can speed up EDI maintenance tasks by helping to minimize time users spend setting up profiles and maps.

**Take advantage of the latest standards support**

WebSphere Data Interchange provides the capability and flexibility to customize standards to fit your business needs. Online interactive facilities make it easy to modify data, enveloping values, application data formats, network parameters and other trading-partner information. WebSphere Data Interchange also features comprehensive support for standard industry subsets — including ANSI X12, UN/EDIFACT, RAIL, UCS, VICS, HIPAA and HL7 — which integrate smoothly with existing technology.

The system checks documents twice for compliance with standard specifications; first, when the maps are created and second, when the document is translated. The full compliance-checking option in WebSphere Data Interchange validates that all required segments in the standard are present in the data, helping to ensure information is complete and accurate. The configurable compliance-checking option authenticates only the portion of the document you are using, potentially in less time and without disruption in performance. The client modifies these standards through its standard editing interface.

**Provide EDI support for the health-care industry**

WebSphere Data Interchange is invaluable in all industries that deploy EDI, but it provides unparalleled support for U.S. health-care standards — both HIPAA and HL7 — by introducing advanced data validation and standards-compliance functions that allow ANSI standard functional acknowledgements to be generated in response to inconsistencies.

WebSphere Data Interchange further introduces support for the prevailing provider standard language and ANSI format, HL7, as an available standard for translation when embedded in ANSI X12. HL7, the language of hospitals and health-care providers, enables health-care information systems to interoperate and share electronic health records.

With ANSI X12 embedded HL7 translation, users have a translator that can easily enable back-end clinical systems for integration with systems that vary from front-end practitioner portals to Enterprise Application Integration (EAI) environments. WebSphere Data Interchange users can now combine ANSI X12 embedded HL7 translation with WebSphere business integration products to implement end-to-end integration easily without being dependent on the availability of the XML version of HL7, Version 3.

HL7 is the language of providers but not generally a language for health-care payers. Information in the HL7 attachments is typically health records that are critical to adjudicating claims. When payers receive the information they require to assess claims, the claims are in a language that their systems don't currently handle.

WebSphere Data Interchange provides the translation services necessary to convert ANSI X12 embedded attachments into the preferred format of both the payer processing system and the medical claim-assessment processing systems that may be outsourced. Combined with other members of the WebSphere business integration family, WebSphere Data Interchange offers the ability for payers to implement a universal translator for HL7 that avoids delegating the translation of HL7 records required for existing applications and Web sites to Application Service Provider (ASP)-based medical assessment service providers.

**Manage transactions rapidly and efficiently**

WebSphere Data Interchange employs a transaction store feature that separates translation and enveloping functions to provide greater flexibility and control over sending and receiving transactions.

Outgoing transactions sent to trading partners are translated and then held in the transaction store until an envelope instruction is received from the online interface, an application programming interface (API) or a batch command.

Similarly, incoming transactions are de-enveloped and held in the transaction store until they are retrieved for translation. This approach allows you to accumulate transactions from various sources (different buyers, locations or applications) and send them together in a single envelope for more efficient data communication.

Transaction store is an optional function that can be exploited, and can be used with send/receive style translations of Version 3.2. The transaction store feature includes an extensive set of tools that provides a window to help track and manage

EDI documents. Using the interactive transaction-store management facility or the command language for batch processing, you can check the status of individual transactions and select transactions for action, using trading partner or transaction identifiers. You can also envelope, send, receive or translate selected transactions and resend transactions to trading partners in a new envelope with a new control number.

WebSphere Data Interchange also provides comprehensive EDI tracking mechanisms through predefined and user-defined reports, making multidimensional analysis easier to perform and enabling you to quickly build queries.

The options in the WebSphere Data Interchange client provide support for existing online reports, which give details about trading partners, transaction status, interchange and group status, transaction activity and acknowledgment status. Detail and summary reports are available electronically and include information about control numbers and translation results, as well as transaction, network and store status.

**Incorporate other applications smoothly**

WebSphere Data Interchange is one of the first EDI translators to be certified for SAP R/3. The robust WebSphere Data Interchange architecture and SAP mainframe interface provides detailed transaction throughput for EDI subsystems and SAP R/3 solution integration. Status information is reported through an EDI subsystem interface. WebSphere Data Interchange provides the capability to capture SAP status information during the EDI translation and store it in a database for report generation and systems management. Tools are also provided to allow the extraction and deletion of the SAP status records from the database.

**Utilize WebSphere MQ message queuing**

Get a quick start on event-driven EDI by enabling communication with your trading partner either through IBM Information Exchange commerce engine, using IBM expEDIte™ software or IBM WebSphere MQ (formerly known as IBM MQSeries®) messaging queues. Inbound and outbound files can be sent to interactive WebSphere MQ queues that support many diverse platforms including Hewlett-Packard, Sun Microsystems, Unisys, IBM OS/2® and others. You can also automatically process translation data and processes received on a queue. IBM WebSphere MQ software is a good choice when mixing Windows 2000 and AIX platforms, when applications on other platforms are involved or for automating processes.

### Business integration building blocks

With the IBM WebSphere software platform, you can combine business integration products and solutions selectively or build one upon the other to help integrate business processes within and across enterprises.

WebSphere Data Interchange for z/OS, Version 3.2 is part of the IBM WebSphere software platform for e-business—a set of integrated, award-winning e-business solutions. No matter where you are in the e-business cycle, the WebSphere software platform can allow you to grow—at the speed the market demands.

Building on this robust platform, you can connect diverse IT environments to maximize your current investments and leverage existing skills with a full range of business integration solutions from the WebSphere family of products.

### For more information

To learn more about IBM WebSphere Data Interchange for z/OS, Version 3.2, visit:

**ibm.com**/websphere/datainterchange

**Business integration building blocks**

| Product or solution | Function | Benefit |
|---|---|---|
| IBM WebSphere MQ | Messaging integration | Connect between diverse applications with assured once-only message delivery. |
| IBM WebSphere MQEveryplace™ | Mobile and wireless integration | Securely extend your e-business to a mobile workforce. |
| IBM WebSphere Business Integration Adapters, IBM WebSphere Adapters and IBM CrossWorlds® Connectors | Packaged application connectivity | Utilize prebuilt application adapters to integrate packaged software, like Ariba Buyer and SAP. |
| IBM WebSphere MQ Event Broker | High-performance message publish and subscribe function | Dynamically distribute messages. |
| IBM WebSphere MQ Integrator Broker | Message transformation and routing | Simplify information exchange between multiple applications. |
| IBM WebSphere DataInterchange | Electronic Data Interchange (EDI) translation | Integrate EDI and your messaging-based infrastructure. |
| IBM CrossWorlds InterChange Server | Business process integration | Coordinate business processes across multiple applications. |
| IBM CrossWorlds Toolset | Business process integration customizing and managing | Easily implement and maintain business integration processes. |
| IBM CrossWorlds Collaborations | Business process definition and automation | Leverage proven industry process templates to deploy integration solutions quickly. |
| IBM CrossWorlds Trading Partner Integration | Business-to-business (B2B) communication | Automate supply-chain interaction through a gateway for B2B communication. |
| IBM MQSeries Workflow | Business process management | Manage business processes across multiple applications and people. |
| HOLOSOFX BPM Suite | Business process modeling and monitoring | Model, simulate and monitor business processes that execute in the runtime for MQSeries Workflow. |
| IBM WebSphere Business Integration | A single offering that combines WebSphere MQ Integrator Broker, MQSeries Workflow and CrossWorlds InterChange Server | Deploy WebSphere business integration products as needed. |
| IBM WebSphere Business Connection | B2B integration with trading partners using Web services or XML data exchange | Extend business process integration securely with trading partners, suppliers and customers. |

## IBM WebSphere Data Interchange for z/OS, Version 3.2 at a glance

### Hardware requirements

Any Year 2000-ready vendor hardware that is explicitly compatible with and fully capable of running the specified operating system, all the corresponding supporting software and any associated applications, unmodified. Responsibility to provide statement of full compatibility between machines lies with the original equipment provider.

*Server products*

- Any server capable of running one of the listed IBM OS/390® or z/OS releases
- Microsoft Windows 2000

### Software requirements

OS/390, Version 2.8 or later, z/OS, Version 1.0 (ESA mode) or later, WebSphere MQ for z/OS, Version 5.3, IBM DB2® for z/OS, OS/390, Version 7.0 and Windows 2000

*WebSphere Data Interchange for z/OS, Version 3.2 can operate in two modes*

- Batch processing for electronic data interchange

  Note: Batch mode requires the XML Toolkit for z/OS and OS/390, Version 1.4. IBM CICS® Transaction Server for OS/390, Version 1.3 requires the XML Toolkit for z/OS and OS/390 Version 1.2. CICS Transaction Server for z/OS, Version 2.2 requires the XML Toolkit for z/OS and OS/390, Version 1.4. You can download the XML Toolkit at ibm.com/servers/eserver/zseries/software/xml.

- Online response to EDI requests

  Note: This mode requires the CICS environment, which is provided by CICS Transaction Server for OS/390, Version 1.3 or later or CICS Transaction Server for z/OS, Version 2.2. You must purchase and install these products separately.

*Optional software products*

- EDI Communication software such as expEDite Base/MVS™, Version 4.5 and expEDite/CICS for MVS, Version 4.5
- Software products that support the System Authorization Facility interface for WebSphere Data Interchange security

*Compatibility*

- The Data Interchange/MVS, Version 3.1 and Version 4.1 products are upwardly compatible with WebSphere Data Interchange for z/OS, Version 3.2.

  Note: The WebSphere Data Interchange for Multiplatforms, Version 3.2 client can be used only with WebSphere Data Interchange for z/OS, Version 3.2. The transaction store optional function remains relevant to send and receive maps only. DB2 is used as the data repository. VSAM (Virtual Storage Access Method) files are not supported.



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