IBM WebSphere Business Integration Adapters V2.1

Overview
Integration of customer applications is a broad requirement driven by diverse business pressures.

WebSphere® Business Integration Adapters help you meet this need by pulling information from the various systems that support business activities for:
- Packaged, custom, and legacy applications
- Technology protocols
- Databases
- Trading partner systems
- Industry and cross-industry solutions

Open standards-based adapters provide multiple broker support to give you the flexibility to integrate your systems. The unique architecture of the WebSphere Business Integration Adapters also enables employees to seamlessly transfer skills and knowledge across systems.

For more information, visit:
http://www.ibm.com/websphere/integration/wbiadapters

New in this Release:
This release includes the iSoft Peer-to-Peer Agent and the WebSphere Business Integration Trading Partner Interchange On-Ramp, as well as WebSphere Business Integration Adapters for:
- Retek
- i2
- Spirent applications
- Telcordia applications
- eMatrix

Enhanced Components
e-business:
- WebSphere Business Integration Trading Partner Interchange
- WebSphere Business Integration Data Handler for XML

Application Adapters:
WebSphere Business Integration Adapters for:
- PeopleSoft
- Clarify CRM
- i2 Active Data Warehouse
- Metasolv TBS
- Siebel
- Oracle applications
- Portal Infranet
- MySAP.com
- WebSphere Commerce

Technology Adapters:
WebSphere Business Integration Adapters for:
- JDBC
- MQ Series
- SWIFT
- JMS
- FIX Protocol
- MQ Workflow
- MQ Integrator®
- JText

Key Prerequisites
IBM middleware platform support for:
- CrossWorlds InterChange Server
- WebSphere MQ Integrator
- WebSphere MQ Integrator Broker

Windows®: Intel® system with Windows 2000 or Windows NT® 4
AIX®: RS/6000 system with AIX 5L V5.1 or AIX V4.3.3
Solaris: Sun Enterprise with Solaris 7 or 8

Refer to the Hardware Requirements and Software Requirements sections for details.

At a Glance
- New industry-specific and cross-industry adapters
- Enhancements to many existing WebSphere Business Integration Adapters
- Based on CrossWorlds industry-leading connection technology
- Adapters run on the Open Standards-based WebSphere Business Integration Adapter Framework and support:
  - CrossWorlds InterChange Server
  - WebSphere MQ Integrator
  - WebSphere MQ Integration Broker
- Key benefits:
  - Stand-alone adapter architecture to help protect your technology investment
  - Greater business agility
  - Easy to install and deploy, quicker implementation

For ordering, contact:
Your IBM representative or the Americas Call Centers at 800-IBM-CALL
Reference: YE001

Planned Availability Dates
- Electronic Delivery — December 20, 2002
- Media Packs — January 17, 2003

Note: The following are available only via electronic delivery.
- WebSphere Business Integration Adapter for Retek
- WebSphere Business Integration Adapter for eMatrix
- WebSphere Business Integration Adapter for Telcordia Applications
- iSoft Peer-to-Peer Agent
Connectivity is critical in establishing an enterprise-wide layer of data and extracting information from disparate sources within information systems.

A key differentiator for WebSphere Business Integration Adapters is that adapters are stand-alone solutions that may be used with:

- CrossWorlds InterChange Server
- WebSphere MQ Integrator
- WebSphere MQ Integration Broker

Because adapters support all of these brokers, they offer additional system flexibility and change protection.

Adapters’ open standards-based architecture also can increase your business agility. Your customers benefit from greater interoperability by not being tied to a specific technology.

WebSphere Business Integration Adapters object discovery tools and event management include event queuing, event archiving, and event identification. They are also bidirectional and meta data driven.

The WebSphere Business Integration Adapter Framework supports each adapter solution. This foundation makes it easier and quicker to install your adapters.

For adapter solutions not provided by IBM or IBM Business Partners, IBM offers the WebSphere Business Integration Development Kit.

**Application Adapters**

- **WebSphere Business Integration Adapter for Retek** — bidirectional, real-time integration between Retek and other enterprise applications. Retek’s flexible deployment options empower retailers to build end-to-end solutions through a modular architecture. Retailers can optimize existing systems or develop quick-win solutions to fund the implementation of a total enterprise solution. Retek 10 is a combination of implementation strategies, technologies, services, software, and support designed to optimize retail business performance, maximize customer satisfaction, and minimize supply chain costs.

WebSphere Business Integration Adapter for Retek integrates with the Retek Integration Bus (RIB). Retek 10 includes a suite of applications, three of which are RIB-enabled. The WebSphere Business Integration Adapter for Retek is meta data driven, and enables integration to any RIB-enabled Retek application. Currently, the RIB-enabled Retek applications are Retek Merchandising System (RMS), Retek Distribution Management (RDM), and Retek Customer Order Management (RCOM).

This adapter is available on Windows, Solaris, and AIX.

- **WebSphere Business Integration Adapter for i2** — bidirectional, real-time integration between i2 modules and other enterprise applications. i2 provides value chain management solutions, which help companies plan and execute the activities involved in managing supply and demand. These solutions span the entire scope of value chain interactions, including supplier relationship management, supply chain management, and demand chain management. i2 Common Integration Services (CIS) helps you to build and implement interfaces for interapplication communication and high-volume extract. CIS enables connectivity between external applications and i2 application modules.

WebSphere Business Integration Adapter for i2 integrates with i2 application modules through i2’s CIS API. The CIS API from i2 is an implementation of the JCA Common Client Interface. i2 has a suite of application modules that support CIS. The WebSphere Business Integration Adapter for i2 is meta data driven, has object discovery capability, and enables integration to any SDK CIS-enabled i2 V6 application. Many i2 modules V5.2, or later, support CIS SDK V6.

This adapter is available on Windows, Solaris, and AIX.

- **WebSphere Business Integration Adapter for Spirent Applications** — real-time, bidirectional integration to Spirent Hekimian application modules with other e-business and enterprise applications.

This Java™-based adapter supports Hekimian Test Interface (HTI), which enables the verification of the loop by receiving the test requests originated by a service order and returning test response messages upon test completion. This adapter leverages the HTI architecture by acting as a workforce application to make requests CenterOp Flow through the HTI Adapter to HTI.

The WebSphere Business Integration Adapter for Spirent applications supports connectivity to Spirent Flow V1.300 and REACT V2.900.

This adapter is available on Windows, Solaris, and AIX.

- **WebSphere Business Integration Adapter for Telcordia Applications** — offers the telecommunications industry bidirectional, real-time integration between Telcordia Service Delivery Module and other e-business and enterprise applications.

Telcordia provides operational support systems and network software in the telecommunications industry. Service Delivery, a business workflow management application, is the Operations Support System (OSS) that sits in the Network Management Layer (NML) and orchestrates the entire provisioning and activation process.

WebSphere Business Integration Adapter for Telcordia Applications, based on the MQSeries® Adapter technology, communicates with Telcordia’s Service Delivery module at the messaging level via XML over MQ. The WebSphere Business Integration Adapter for Telcordia Applications is meta data driven, has object discovery capability, and enables integration to Telcordia Service Delivery Module 9.5.1.

This adapter includes the XML Datahandler and is available on Windows, Solaris, and AIX.

- **WebSphere Business Integration Adapter for eMatrix** — bidirectional, real-time integration between the eMatrix global collaboration platform and other enterprise applications. eMatrix is a product lifecycle management (PLM) solution that enables centralized control and access of all document and data flows related to the product life cycle.

The WebSphere Business Integration Adapter for eMatrix communicates using the CORBA-based CrossWorlds InterChange Server Access Framework Interface. It can be used only with the InterChange Server. This Java-based adapter performs synchronous exchange with eMatrix using XML over HTTP.
The WebSphere Business Integration Adapter for eMatrix Applications is meta data driven, has object discovery capability, and enables integration to eMatrix global collaboration platform 9.5.0.2. This adapter includes the XML Adapter and Datahandler and is available on Windows, Solaris, and AIX.

This adapter is currently supported only with the CrossWorlds InterChange Server Broker.

**e-business Products**

- **iSoft Peer-to-Peer Agent** — is a highly scalable, standards-based B2B trading solution. It supports AS2/EDI-INT, AS1, XML, Secure SMTP, among others. The product was designed with transactional performance in mind and scales easily from the smallest to the largest e-business requirement. iSoft offers strong encryption, robust support for the leading security standards, as well as transactional features such as strong non-repudiation and reliable delivery. iSoft Peer-to-Peer Agent 3.1 is available in three variations:
  - iSoft Peer-to-Peer Agent Express
  - iSoft Peer-to-Peer Agent Advanced
  - iSoft Peer-to-Peer Agent Enterprise

iSoft Peer-to-Peer Agent Express provides bidirectional connectivity from IBM’s integration software to trading partners (such as suppliers and distributors) outside the corporate firewall. The Express product can be configured for up to 10 trading partner connections, supports installation on a single server, and scales based on the capacity of the server chosen.

Express requires purchase of connections for iSoft Peer-to-Peer Agent Express for the number of total connections to e-business partners required (up to a maximum of 10). It is available on Windows 2000, Solaris, and AIX. With this release, the adapter to IBM middleware products is only compatible with the iSoft Peer-to-Peer Agent Express on the Windows platform. Integration on the Solaris and AIX platforms require integration via the file system using the JText or another appropriate adapter.

iSoft Peer-to-Peer Agent Advanced and Enterprise products provide bidirectional connectivity from IBM’s integration software to trading partners (such as suppliers and distributors). Both versions provide load balancing and advanced routing capabilities for virtually unlimited scalability. Products are functionally the same. Advanced is packaged for medium-sized hubs. Enterprise is packaged for larger hubs.

iSoft Peer-to-Peer Agent Advanced requires purchase of Connections for iSoft Peer-to-Peer Advanced for the number of total connections to e-business partners required (up to 100). It is available on Windows 2000, Solaris, and AIX. With this release, the adapter for IBM middleware products is compatible only with the iSoft Peer-to-Peer Advanced on the Windows platform. Integration on the Solaris and AIX platforms require integration via the file system using the JText or another appropriate adapter.

iSoft Peer-to-Peer Agent Enterprise requires purchase of Connections for iSoft Peer-to-Peer Agent Enterprise for the number of total connections to e-business partners required (up to 500). It is available on Windows 2000, Solaris, and AIX. With this release, the adapter for IBM middleware products is compatible only with the iSoft Peer-to-Peer Enterprise on the Windows platform. Integration on the Solaris and AIX platforms require integration via the file system using the JText or another appropriate adapter.

- **WebSphere Business Integration Trading Partner Interchange On-Ramp** — industry-leading technology that supports loosely-coupled asynchronous connections based on Internet standards for datatype, transport protocol, and security. Most likely, if you need to connect to an Internet-based trading exchange, you will want TPI. Because of how TPI is built, it offers true rapid deployment of trading communities as well as superb trading community management tools. Because TPI abstracts support for datatype, transport protocol, and security, it is relatively easy to deploy. Outside of evolving standards, no recoding is necessary if a trading partner changes its datatype or transport protocol. It’s relatively easy to manage your trading relationships because TPI incorporates a GUI tool to configure trading relationships. In essence, TPI offers an excellent, easy-to-use standards-based trading solution.

WebSphere Business Integration Trading Partner Interchange On-Ramp is designed for companies that want to connect with up to 10 trading partners. A user may create up to 10 contact records to designate trading partners, and contains many features of the trading networks version of the product. The following features are restricted in the On-Ramp version of the product.

- No external database support
- No JMS event routing
- FIFO-only packaging/unpackaging of data
- Limited performance tuning

Besides On-Ramp, two other variations of TPI are available:

- WebSphere Business Integration Trading Partner Interchange for Trading Networks (comes with 10 Trading Profiles)
- WebSphere Business Integration Trading Partner Interchange Solo (a TPI endpoint deployment technology)

- **WebSphere Business Integration Trading Partner Interchange On-Ramp Trading Profile** — Comes with 10 trading partners. The Trading Partner Interchange On-Ramp Trading Profile product allows you to purchase additional trading partners as your gateway grows. As you grow, the Trading Partner Interchange for Trading Networks offers 100 trading partners, as well as providing those features mentioned above as restricted in On-Ramp.

**Enhanced Application Adapters**

WebSphere Business Integration Adapters V2.1 includes enhancements to the following adapters.

- **WebSphere Business Integration Adapter for Clarify CRM** — updated with Solaris adapter support for Clarify V10.1, V11.1, and V11.2. Refer to the adapter release notes for detailed information. The release notes are part of the user documentation.

The WebSphere Business Integration Adapter for Clarify CRM is a meta data-driven connector that leverages the database-independent Clarify API Toolkit (a set of C library functions and their interfaces) to support either an Oracle, Sybase, or SQL Server database. WebSphere Business Integration Adapter for Clarify CRM has an event management strategy...
The Clarify adapter supports connectivity to Clarify 8.0, 8.1, 8.5, 9.0, 10.0, 10.1, 11.1, and 11.2. This adapter is available for Clarify 8.0 on Windows, Clarify 8.1 on Solaris, Clarify 8.5 on Solaris, Clarify 9.0 on Solaris, Clarify 10.0 on Solaris, Clarify 10.1 on Solaris or Windows NT with Oracle and SQL Server, Clarify 11.1 on Windows NT with Oracle or Solaris, and Clarify 11.2 on Solaris.

**WebSphere Business Integration Adapter for i2 Active Data Warehouse** — Refer to the adapter release notes for detailed information on the enhancements.

With the WebSphere Business Integration Adapter for i2 Active Data Warehouse, IBM customers can integrate with all i2 optimization products that currently use the ADW. The meta data-driven connector interacts directly with the common data model and uses database triggers to detect events in the application.

The i2 adapter supports connectivity to i2 ADW 4.x and 5.x. This adapter is DBCS enabled and translated to Group 1 languages. The adapter is available on Windows NT, Windows 2000, Solaris, and AIX.

**WebSphere Business Integration Adapter for MetaSolv TBS** — updated to include bidirectional, real-time integration between MetaSolv 5.2 and other e-commerce order management and enterprise applications.

The WebSphere Business Integration Adapter for MetaSolv TBS is written in Java and uses calls to MetaSolv’s PSR OrderEntry API, LSR (Local Service Request)/SOA (Service Order Activation) Interconnection API, and DLR (Design Layout Record) API.

The MetaSolv adapter supports connectivity to MetaSolv 5.2. This adapter is available on Windows NT platform.

**WebSphere Business Integration Adapter for Oracle Applications** — Refer to the adapter release notes for details on minor enhancements.

The WebSphere Business Integration Adapter for Oracle Applications supports real-time, bidirectional integration to all Oracle applications modules with other e-business and enterprise applications.

A comprehensive solution for integrating Oracle applications, this Java-based connector supports the three common ways of integrating with Oracle, using JDBC technology, through Oracle APIs, Oracle Interface Tables, or Oracle application tables. When possible, IBM uses Oracle APIs for robust integration capabilities to interact with Oracle applications. When APIs are not available, the connector leverages Oracle Interface Tables (OIT), by placing information into them to initiate business processes, as the OIT can be used to import batch data into Oracle applications. However, not all Oracle application objects are supported by the OIT either, so WebSphere Business Integration supports integration through application tables. In this approach, the connector for Oracle Applications interacts with Oracle’s applications by directly accessing the application schema.

The Oracle Application adapter supports connectivity to Oracle Applications 10, 11, and 11i. This adapter is DBCS enabled and translated to Group 1 languages. It is available on Windows NT, Windows 2000, Solaris, and AIX.

**WebSphere Business Integration Adapter for PeopleSoft** — updated to include bidirectional, real-time integration between PeopleSoft 8.4 and other e-commerce, CRM, supply chain, and ERP applications. Refer to the adapter release notes for detailed information.

The PeopleSoft adapter now supports connectivity to PeopleSoft 7.5, 8.1, and 8.4.

The PeopleSoft 8 adapter is synchronous and entirely Java-based. The adapter interacts with PeopleSoft through PeopleTools Component Interface Java API. The adapter includes an event management strategy that supports a three-tiered architecture. The WebSphere Business Integration Adapter for PeopleSoft is meta data-driven, which eases management by making the integration infrastructure application-independent. The adapter, with object discovery capability, is shipped with a sample department business object that can be used as an example, facilitating deployment by reducing the time spent on development. This adapter is DBCS enabled and translated to Group 1 languages.

It is available on Windows, Solaris, and AIX platforms.

The PeopleSoft 7 adapter supports PeopleSoft applications prior to V8. It interacts with PeopleSoft Applications using Message Agent, which provides a high-level program interface for executing PeopleSoft’s application processor. It is the primary tool for exposing PeopleSoft transactions and the two work together to run the same transactions that end users can initiate interactively, or they can be specially created to process incoming Message Agent calls. All business rules, security, and workflow processing associated with the transaction are executed and processing takes place on PeopleSoft’s application server to maximize performance and scalability. The adapter includes an event management strategy and supports future events and the three-tiered architecture. This adapter is available on Windows NT and Windows 2000 platform.

**WebSphere Business Integration Adapter for Portal Infranet** — updated to include an object discovery agent. Refer to the adapter release notes for details.

The WebSphere Business Integration Adapter for Portal Infranet provides a comprehensive, real-time, bidirectional integration solution between Portal and other packaged or legacy applications, enabling companies to integrate their billing and customer information across the entire operation. This can result in more responsive customer service processes and ultimately more effective, efficient, and profitable businesses. This completely Java-based, meta data-driven adapter includes object discovery capability and provides a comprehensive integration solution using Portal’s Java PCM API.

The Portal Infranet adapter supports connectivity to Portal Infranet 6.1 and 6.2. This adapter is DBCS enabled and translated to Group 1 languages. It is available on Windows NT, Windows 2000, and Solaris platforms.
WebSphere Business Integration Adapter for Siebel e-Business Applications — Refer to the adapter release notes for details on minor enhancements.

The WebSphere Business Integration Adapter for Siebel e-business applications provides comprehensive bidirectional, real-time integration between Siebel and order management, ERP, e-business, and custom and legacy systems in a one-to-one, one-to-many, or many-to-many scenario.

This Siebel-validated WebSphere Business Integration Adapter enables you to provide superior customer service and to cost-effectively execute and manage quote-to-order fulfillment processes that span multiple applications within the enterprise and also to trading partners, without any customizations, or additions to your Siebel installation.

The Siebel adapter uses the Siebel Java API to ensure database and client independence. The adapter agent can directly access and manipulate Siebel Business Objects and Siebel Business Components. The adapter can support any platform of Siebel (for example, Windows 98, Windows NT, UNIX®), in any deployment strategy (thin client, fat client, or Web), and in any mode (tethered or undocked). A unique event capture mechanism ensures that all events are captured, regardless of deployment strategy or state of the environment. The adapter is meta data-driven to enable GUI extensibility and development without recoding. Through configuration, the WebSphere Business Integration Adapter for Siebel e-business applications can authenticate in a specific Siebel Role, abiding by all restrictions for that role. Another configuration ensures that all Siebel customizations are visible and honored by this connector during processing. The Siebel adapter can be deployed in a single instance or multiple instances, for scalability and performance.

The Siebel adapter supports connectivity to Siebel 2000 and Siebel 7. This adapter is DBCS enabled and translated to Group 1 languages. It is available on Windows NT, Windows 2000, Solaris, and AIX platforms.

WebSphere Business Integration Adapter for mySAP.com — Refer to the adapter release notes for details on minor enhancements.

The WebSphere Business Integration Adapter for mySAP.com supports all of SAP’s various interfaces and presents the users with the most integration options with relatively little risk. The adapter provides bidirectional, multithreaded, real-time integration between SAP and e-commerce, CRM, supply chain, ERP, custom, and legacy applications. The adapter consists of the connector infrastructure and modules of functionality.

The Extension Module has advanced event detection mechanisms and business object handlers that manipulate the most common objects from SAP. This module allows you to retrieve and manipulate objects to and from SAP in real time, and supports both request/reply and publish/subscribe models for object retrieval. The adapter notifies you of the success and status of your object transaction request, and returns the unique ID of any created objects. The adapter enables real-time retrieval of a complex object from SAP or a request to create, change, or delete an object.

The RFC Server Module allows SAP applications to make synchronous calls to the connector agent. This event-driven functionality is ideal for systems like BBP that require real-time access to a broker for handling requests. This module is multithreaded for scalability. It includes a non-invasive business object generation tool that facilitates business object development.

The BAPI Module allows direct calls to BAPIs. By accessing the BAPIs without routing the call through the ABAP Extension infrastructure, the adapter greatly improves performance. This module is 100% non-invasive. All business object information is stored externally to the SAP system.

The ALE Module allows the connector to send Idocs into SAP for processing by ALE, and to receive IDocs from SAP for ALE event notification. This 100% non-invasive asynchronous solution utilizes SAP’s tRFC protocol for guaranteeing exactly-once delivery and is ideal for large objects.

The Hierarchical Dynamic Retrieve Module offers 100% non-invasive meta data-driven data retrieval for application-specific business objects (ASBO).

To facilitate upgrades and easy maintenance, the WebSphere Business Integration Adapter for mySAP.com is implemented in the CrossWorlds SAP Development Namespace. The SAP adapter supports connectivity to SAP 3.x and 4.x.

This adapter is DBCS enabled and translated to Group 1 languages. It is available on Windows NT, Windows 2000, Solaris, and AIX platforms.

WebSphere Business Integration Adapter for WebSphere Commerce — updated to include an object discovery agent. Refer to the adapter release notes for details.

WebSphere Commerce is a powerful e-commerce solution for selling in today’s B2B and B2C environments, which extends far beyond the traditional Web storefront. Advanced capabilities enable you to build and maintain meaningful relationships with customers and trading partners. Reduce complexity and optimize operations by managing robust business processes and integrating them with your core business applications.

The WebSphere Business Integration Adapter for WebSphere Commerce supports real-time, bidirectional integration between WebSphere Commerce and other e-business and enterprise applications. This Java-based adapter leverages the WebSphere Commerce Messaging System to exchange XML documents with the adapter over MQSeries. This paradigm provides WebSphere Commerce with the ability to create and synchronize data such as customers and orders with the back-end systems as well as synchronizations initiated by the back-end system to WebSphere Commerce such as order status, product, and inventory data.

The WebSphere Commerce adapter is meta data-driven, includes object discovery capabilities, and supports connectivity to WebSphere Commerce V5.4. This adapter is available on Windows NT, Windows 2000, Solaris, and AIX.

Enhanced e-Business Adapters

WebSphere Business Integration Trading Partner Interchange — offers industry-leading technology that supports loosely-coupled asynchronous connections based on Internet standards for datatype, transport protocol and security. Most likely, if you need to connect to an Internet-based trading exchange, you
will want TPI. Because of how TPI is built, it offers true rapid deployment of trading communities as well as superb trading community management tools. Because TPI abstracts support for datatype, transport protocol, and security, it is relatively easy to deploy. Outside of evolving standards, no recoding is necessary if a trading partner changes its datatype or transport protocol. It’s relatively easy to manage your trading relationships because TPI incorporates a GUI tool to configure trading relationships. In essence, TPI offers an excellent, easy-to-use, standards-based trading solution.

There are three variations of TPI, two of which are changed in this release:

- **WebSphere Business Integration Trading Partner Interchange for Trading Networks** — comes with 100 Trading Profiles (changed in this release)
- **WebSphere Business Integration Trading Partner Interchange On-Ramp** — comes with 10 Trading Profiles (new in this release)
- **WebSphere Business Integration Trading Partner Interchange Solo** — a TPI endpoint deployment technology (changed in this release)

**WebSphere Business Integration Trading Partner Interchange For Trading Networks** — is designed for companies that want to host trading networks. It allows up to 100 contact records to designate trading partners, and contains full product functionality.

**WebSphere Business Integration Trading Partner Interchange Solo** — is specially coded so that it is capable of supporting only a single Partner Profile at any one time. It is used to speed and simplify endpoint deployment. TPI Solo does not include certain functionality contained in the hub versions of this product:

- No external database support
- No JMS event routing
- FIFO only packaging/unpackaging of data
- No API support
- Single user only
- No integration options beyond file system
- No performance tuning
- No ability to add new schedules
- No multipartner edit capability
- Certain high-end platforms, OS/390® and AS/400®, are not supported
- WebSphere Business Integration TPI Solo supports only Windows 98 and Windows ME platforms

**WebSphere Business Integration Data Handler for XML** — is a data conversion product whose primary task is to convert business objects to and from the XML format. It supports the XML Version 1.0 and can be used with most WebSphere Business Integration technology adapters. This release supports translation of DTD and XML Schema-based XML documents to and from business objects. Previous releases of this product only supported translation of DTD-based XML documents.

XML business objects, previously generated by Edifecs SpecBuilder, can now be generated using the XML Object Discovery Agent (new in this release). The XML Object Discovery Agent (ODA) can generate business objects from DTD or XML Schema definitions. While Edifecs SpecBuilder 4.0x (5620-FHI) is still compatible with the XML Data Handler for DTD-based business objects, SpecBuilder is no longer a prerequisite, nor does it support XML Schema-based XML business objects.

The XML data handler is available on Windows NT, Windows 2000, Solaris, and AIX.

**Enhanced Technology Adapters**

- **WebSphere Business Integration Adapter for JMS** — greater support for updating and inquiring JMS header attributes is added for this release. Consult the release notes for detailed information.

JMS is an open-standard API for accessing enterprise-messaging systems. It is designed to allow business applications to synchronously and asynchronously send and receive business data and events. The CrossWorlds Connector for JMS allows an integration broker to exchange business objects with applications that send or receive data in the form of JMS messages. It supports request processing and event notifications. In addition, swappable data handlers can be used to customize the message or business object conventions. This adapter is currently supported with the InterChange Server only.

The JMS adapter is available on Windows NT, Windows 2000, Solaris, and AIX.

- **WebSphere Business Integration Adapter for SWIFT** — has minor enhancements. Refer to the adapter release notes for detailed information.

As part of the solution for the Financial Services industry, the WebSphere Business Integration Adapter for SWIFT provides connectivity to the SWIFT financial messaging network through the SWIFTAlliance Access. The adapter allows firms to migrate to the new ISO 15022 message standard without placing extensive new requirements on their existing ISO 7775 message infrastructure. The adapter provides connectivity to the SWIFT Alliance Access product and includes pre-built maps for commonly used messages. These maps can be extended and customized using an intuitive and user friendly toolset.

The WebSphere Business Integration Adapter for SWIFT utilizes the MQSeries host adapter, MOSA, which is provided on the SAA® gateway. This adapter is available on Windows NT, Windows 2000, AIX, and Solaris platforms.

- **WebSphere Business Integration Adapter for FIX Protocol** — has minor enhancements. Refer to the adapter release notes for detailed information.

The WebSphere Business Integration Adapter for FIX Protocol allows integration brokers to exchange business objects with applications that send or receive data in the form of Financial Information eXchange (FIX) messages. The connector allows integration broker flows to asynchronously exchange business objects with applications that issue or receive FIX messages when changes to data occur.

The connector is meta data-driven. Message routing and format conversion are initiated by an event polling technique. The connector uses an MQ implementation of the Java Message Service (JMS), an API for accessing enterprise messaging systems.

The connector retrieves FIX messages from queues, calls the FIX data handler to convert messages to their corresponding business objects, and then delivers them to the broker. In the opposite direction, the connector receives business object requests from the...
broker, converts them into FIX messages using the same data handler, and then delivers the messages to an MQSeries queue.

This adapter supports FIX message sets V4, V4.1, V4.2, and V4.3. It is available on Windows NT, Windows 2000, and Solaris platforms.

- **WebSphere Business Integration Adapter for JDBC** — a number of minor enhancements have been added for this release, consult the release notes for detailed information.

  The WebSphere Business Integration Adapter for JDBC allows IBM CrossWorlds InterChange Server or WebSphere MQ Integrator to exchange business objects with an application built on any database supported by a JDBC driver. The connector also supports stored procedure calls at each object level.

  Several advanced configuration properties allow the connector to communicate with DB2®, Sybase, and Informix™ for capabilities extending beyond the JDBC 2.0 standard. However, based on our full support of the JDBC standard, any driver that fully adheres to the standard can be used.

  The JDBC adapter is available on Windows NT, Windows 2000, Solaris, and AIX.

- **WebSphere Business Integration Adapter for MQ** — greater support for updating and inquiring MQ header attributes is added. Consult the release notes for detailed information.

  The WebSphere Business Integration Adapter for MQ allows for Enterprise Application Integration with applications communicating via WebSphere MQ messages. The connector supports “synchronous” and “asynchronous” modes for request processing and event notification. In addition to Create, Update, and Delete, the adapter also supports Retrieve, Retrieve By Content, and Exist operation. The WebSphere Business Integration Adapter for MQ can assign more than one message format to the same business object using any data handler, if the data handler can identify the business object from the message content alone. In addition, the connector supports, as an option, synchronous posting of events as an integration broker for applications that want feedback on the requests they issue through WebSphere MQ. This adapter is only required with the CrossWorlds InterChange Server.

  The MQ adapter supports connectivity to MQ Series 5.1 and 5.2. This adapter is available on Windows NT, Windows 2000, Solaris, and AIX.

- **WebSphere Business Integration Adapter for MQ Workflow** — support for new (as of MQSeries Workflow 3.2.2) XML-based APIs is added. For detailed information, consult the release notes.

  MQ Workflow (product is now available from IBM using the WebSphere Process Manager brand) is a workflow engine that permits users to construct processes that include manual and automated steps. At the specific points where manual tasks, information or action are required in a process, the MQ Workflow adapter provides the capability to build pauses between the state steps, or stages of the processes where data is transformed by a transaction taking place in the underlying applications, or in the manual activities taking place outside the process. These pauses, or Long-Lived Transactions, are critical features in the ability to automate business processes. MQ Workflow adapter compliments the integration broker by merging sophisticated workflow capabilities with IBM’s superior business process management features.

  The Java-based WebSphere Business Integration Adapter enables hybrid implementations of MQ Workflow with an integration broker solution. The combination of products provides a best-of-breed integration strategy for companies seeking to automate processes that do not necessarily take place instantaneously, but rather require sustained pauses for reasons such as obtaining approvals, meeting regulatory requirements, or satisfying industry-standard procedures.

  The WebSphere Business Integration Adapter for MQ Workflow functions in a couple of different ways. It initiates synchronous and asynchronous interaction between the integration broker flows and MQ Workflow. If, for example, during an order process based on an IBM CrossWorlds Collaboration, an approval must be obtained, then the Connector prompts MQ Workflow to pause and wait until a response has been returned from an underlying application (which could be an automated process the result of a manual step). Correspondingly, MQ Workflow prompts the Connector to initiate Collaboration processes. This adapter is only required with the CrossWorlds InterChange Server.

  The MQ Workflow adapter is available on Windows NT, Windows 2000, Solaris, and AIX.

- **WebSphere Business Integration Adapter for MQ Integrator** — minor enhancements are added. Consult the release notes for detailed information.

  The WebSphere Business Integration Adapter for MQ Integrator enables integration with IBM’s MQSI V2 product. Integration broker requests can now initiate WMQI message flows as well as handle synchronous requests issued mid-flow to broker. The adapter uses the WebSphere Business Integration Data Handler for XML to facilitate XML integration with WMQI. An IBM MQSI standard legacy parser inside the WMQI broker supports existing legacy MQSI 1.x formats and requires no special handling by the MQ Integrator adapter. Business Object specifications can be created at development time using the Edifecs Specbuilder against WMQI parser-generated DTDs. This adapter is only required with the CrossWorlds InterChange Server.

  The MQ Integrator adapter is available on Windows NT, Windows 2000, and Solaris.

- **WebSphere Business Integration Adapter for JText** — minor enhancements are added. Consult the release notes for detailed information.

  The WebSphere Business Integration Adapter for JText now supports FTP protocol. This capability provides greater integration durability in that file sources can be moved across the network with minimal changes to integration parameters.
The JText adapter is available on Windows NT, Windows 2000, Solaris, and AIX.

**Unchanged Adapters and Components**

**WebSphere Business Integration Adapter Framework:** The adapter framework is a feature-rich, standard adapter architecture to design, develop, and run connectivity solutions. The framework is the run-time environment for the WebSphere Adapter Development Kit and the WebSphere Business Integration Adapters.

**WebSphere Business Integration Adapter Development Kit:** The development kit augments the WebSphere Business Integration Adapter Framework by providing extensive documentation, methodology, and samples to enable clients to quickly develop adapters into their custom environment. The development kit allows users to easily build reusable Java and C++ adapter components to custom, proprietary, and legacy applications.

**Application Adapters:** WebSphere Business Integration Adapters for:
- BroadVision Commerce
- Nightfire
- Vantive

**Technology Adapters:** WebSphere Business Integration Adapters for:
- E-mail
- XML

**Mainframe Adapters:** WebSphere Business Integration Adapters for:
- CICS® Transaction Manager
- IMS Database Manager
- VSAM
- DB2 Databases
- ADABAS

**e-business:** WebSphere Business Integration Trading Partner Interchange:
- Trading Networks Trading Profile
- WebSphere Business Integration Data Handler for EDI
- WebSphere Business Integration Adapter for Web Services

**Program Service Extension**

Program service for the following products is extended until December 31, 2003:
- MQSeries Adapter Kernel for Multiplatforms V1.1
- WebSphere Adapter Builder V1

Program service for the following products is extended until March 31, 2003:
- WebSphere Adapter for PeopleSoft V1
- WebSphere Adapter for JDEdwards OneWorld V1
- WebSphere Adapter for Oracle Applications V1

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**Product Positioning**

As part of the WebSphere Business Integration family, the WebSphere Business Integration Adapters further extend the breadth of IBM’s e-business infrastructure software portfolio.

IBM Business Integration Adapters can make your business more flexible with WebSphere MQ Integrator, WebSphere MQ Integrator Broker, or the IBM CrossWorlds InterChange Server as the hub for your business integration efforts. In addition to supporting multiple brokers, adapters are stand-alone solutions that can protect customer technology investments in applications and systems.

Connectivity is critical in establishing an integrated, enterprise-wide system from which companies can extract information from disparate sources. The WebSphere Business Integration Adapters allow companies to address this need for total connectivity with one coherent approach. All WebSphere Business Integration Adapters run on the same foundation, the WebSphere Business Integration Adapter Framework. The framework allows greater speed and ease of adapter deployment, requiring less skill to install a broad range of adapters.

With this introduction of new adapters, IBM has increased its adapter portfolio to include more than 40 WebSphere Business Integration Adapters for industry-specific and cross-industry connectivity. In addition to IBM’s current adapter portfolio, the WebSphere Business Integration Adapter Development Kit may be used in a services engagement to build new adapters for unique customer needs. These custom adapters can be built to run on the framework mentioned above.

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**Reference Information**

For information on WebSphere Business Integration Adapters V2, refer to Software Announcement 202-157, dated June 25, 2002.

**Trademarks**

Informix and IMS are trademarks of International Business Machines Corporation in the United States or other countries or both.
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Education Support

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<td>IBM CrossWorlds Connector Workshop for SAP</td>
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<tr>
<td>WebSphere® Adapter Workshop</td>
<td>WBI40</td>
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For additional information, visit:

http://www.ibm.com/services/learning/spotlight/

Select WebSphere Business Integration.

The appropriate curriculum includes the products described in this announcement.

For additional information, contact IBM Education at: cwedureg@us.ibm.com.

In addition to CrossWorlds education, a number of courses on WebSphere MQSeries® Integrator supplement the CrossWorlds education offerings. To locate, visit:

http://www.ibm.com/education

- Follow the link to Classroom and Online Courses
- Select a country and then the category MQSeries Integrator
- Then select MQSeries Integrator

Offering Information

Product information is available through Offering Information (OITOOL) at:

http://www.ibm.com/common/ssi

Publications

General information is available for WebSphere Business Integration Adapters on the Web at:


The following displayable softcopy publications are available:

- Application and Technology Adapter Guides
- WebSphere Business Integration Adapters Implementation Guide for MQ Integrator®
- Business Object Development Guide
- Data Handler Guide
- Connector Development Guide for C++
- Connector Development Guide for Java™

WebSphere MQ Integrator Publications

Redbooks™: Redbooks, the output of residencies, are intensive, multiweek work efforts where small teams explore and document product implementation, integration, and operations, often in the context of marketplace solutions. Residencies focus the skills and experience of marketplace professionals on the practical application of leading-edge information technology to customer needs. Residencies are personally directed by a skilled professional, typically an acknowledged leader in the subject field. Each residency offers residents the opportunity to return with new knowledge immediately applicable to their local business needs.

Redbooks can be found at:

http://www.ibm.com/redbooks

2. WebSphere MQ Integrator Deployment and Migration (SG24-6509)
3. Redpiece, last updated April 22, 2002
4. Developing Solutions in WebSphere MQ Integrator (SG24-6579) Redpiece, last updated March 31, 2002

Other WMQI Publications: Other publications available containing information on WMQI Broker are accessible at:


Select Library.

Technical Information

Hardware Requirements: Listed below are minimum requirements. The actual requirements for your system may be greater, depending on the complexity of your specific CrossWorlds environment, throughput, and data object size.

The WebSphere Business Integration Adapter Framework includes a combination of run-time libraries and operational administrative tools. The run-time libraries are deployable on all supported operating systems. The operational administrative tools are supported on Windows NT® and Windows® 2000.

- Windows environment:
  - Processor at 400 MHz, or faster
  - Minimum 512 MB RAM
  - Minimum 900 MB free disk space
- AIX® environment:
  - POWER3™-II 375 MHz machine, or equivalent
  - AIX Passport
  - Minimum 512 MB RAM
  - Minimum 900 MB free disk space
- Solaris environment:
  - Solaris 2.7, 2.8

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.

IBM United States IBM is a registered trademark of International Business Machines Corporation.
One UltraSPARC II 450 MHz
Minimum 512 MB RAM
Minimum 900 MB free disk space

Software Requirements

IBM middleware platform support for:
- CrossWorlds InterChange Server V4.1.1
- WebSphere MQ Integrator V2.1
- WebSphere MQ Integrator Broker V2.1

For more details, refer to one of the following guides:
- For WMQI and WMQI Broker: WebSphere Business Integration Adapter Implementation Guide for MQ Integrator
- For the ICS broker: CrossWorlds System Installation Guide for Windows or CrossWorlds System Installation Guide for UNIX®

Windows environment

- One of these operating systems:
  - Windows 2000 (Professional, Server, or Advanced Server) with Service Pack 2
  - Windows NT 4 Service Pack 6A
- Browser: Microsoft® Internet Explorer or Netscape Navigator 4.x required to view the HTML documents
- Xerces for C++ (Tools) V1.5.1
- Xerces for Java (Server) V1.4.3
- Java compiler (Sun JDK 1.3.1 for Windows NT and Windows 2000) required for compiling custom adapters

AIX environment

- AIX V4.3.3 or V5.1.2
- Browser: Internet Explorer or Netscape Navigator 4.x required to view the HTML documents
- Xerces for Java (Server) V1.4.3

Solaris environment

- Solaris 8 (2.8) or Solaris 7 (2.7)
- Browser: Internet Explorer or Netscape Navigator 4.x, or later, is needed to view HTML documents
- Xerces for Java (Server) V1.4.3

For the following components customers must acquire Edifecs SpecBuilder 4.0:
- WebSphere Business Integration Adapter for Telcordia Applications
- WebSphere Business Integration Data Handler for EDI
- WebSphere Business Integration Adapter for WebSphere Commerce

Edifecs SpecBuilder is not an IBM licensed program, and should not be placed on an IBM Customer Agreement (ICA) Supplement. Supplier products are not warranted by IBM. This prerequisite software can be ordered by CSO through the World Trade Advanced Administrative System (WTASS) ordering system as Edifecs SpecBuilder 5620FHL, with feature number 0001 (EMEA/LA feature number V8VHBG). Orders for Edifecs SpecBuilder 5620FHL can be placed via phone 800-426-2255. Ask for Workstation Software Group.

Planning Information

For planning and installation information, refer to the adapter guide and one or more of the following documents:
- WebSphere Business Integration Adapters Implementation Guide for MQ Integrator (for WMQI broker environments)
- System Installation Guide for UNIX or System Installation Guide for Windows (for ICS broker environments)
- Getting Started with the WebSphere Business Integration Adapters V2.1
- Business Object Development Guide
- Connector Development Guide (for Adapter Development Kit information)

Customer Responsibilities: Use IBM Software Services or Business Partners to assist in the installation, design, implementation, and maintenance of the IBM solution.

To implement an IBM solution, these skills are required:
- Thorough technical and functional understanding of the IBM CrossWorlds or WMQI/WMQI Broker environment including the tools and file structure
- Thorough technical and functional understanding of the Business Object Designer and the Connector Configurator tools
- Some Java programming knowledge and understanding of the fundamental basics of classes and methods
- Some SQL experience and basic understanding of relational databases and SQL statements, triggers, and stored procedures
- Experience in building custom WebSphere Business Integration Adapters using the WebSphere Business Integration Adapter Development Kit as well as Java or C++ programming experience
- Thorough understanding of specific packaged applications or client legacy applications, especially on applicable platforms
- Thorough technical knowledge of the application program interface (API) architecture
- Knowledge of communicating with the API or the identified interface method

Additional skills required to support effectively various components of the implementation are:
- Custom Connector Development
  - Good understanding of WebSphere Business Integration Adapter Development Kits
  - Strong knowledge of the language (such as Java, C++, or communications) that will be used to build the connector
  - Extensive understanding or experience of the WebSphere Business Integration Adapter Development Kit, classes, and methods
  - Strong knowledge and understanding of API architecture
  - Strong knowledge, understanding, or experience of the application-specific data schema for which the application connector is being built
- Strong technical and functional knowledge of communicating with the API (inputs, outputs)
- Thorough understanding of full development/test life cycles

**Direct Customer Support:** For support, new CrossWorlds customers with Passport Advantage contracts should call 800-IBM-SERV (426-7378).

**Packaging:** This is a Passport Advantage offering only. WSBIA is ordered via media packs. The contents of the media packs are described below:

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<td>IBM WebSphere Business Integration Adapter Framework V2.1</td>
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<td>IBM WebSphere Business Integration TPI On-Ramp V2.1</td>
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This program when downloaded from a Web site, contains the applicable IBM license agreement, and License Information (LI), if appropriate and will be presented for acceptance at the time of installation of the program. The license and LI will be stored in a directory such as LICENSE.TXT for future reference.

**Security, Auditability, and Control**

WebSphere Business Integration Adapters V2.1 use the security and auditability features of the system on which the products are installed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

This product is available only via Passport Advantage. It is not available as shrinkwrap.

- WebSphere Business Integration Adapters V2 (5724-D17)
- Product Category WSBIA

For details on the licensing information, refer to: http://www.ibm.com/software/ja/sla/
### Passport Advantage

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Connectivity — Application

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IBM WebSphere Business Integration Adapter for MQ Workflow — PerAppInstance

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IBM WebSphere Business Integration Adapter for XML — PerAppInstance

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SW Maintenance after License to 1 Anniv. Date D51EPLL

IBM WebSphere Business Integration Adapter for SWIFT — PerAppInstance

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IBM WebSphere Business Integration Adapter for JMS — PerAppInstance

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SW Maintenance Renewal to 1 Anniv. E00DFLL
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Connectivity — e-business

IBM WebSphere Business Integration Adapter for JCA Connector to ICS — PerAppInstance

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IBM WebSphere Business Integration Data Handler for EDI — Per Connector

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SW Maintenance after License to 1 Anniv. Date D51EYLL

IBM WebSphere Business Integration Data Handler for XML — Per Connector

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SW Maintenance Renewal to 1 Anniv. E00DOLL
SW Maintenance after License to 1 Anniv. Date D51F1LL
Connectivity — Mainframe

IBM WebSphere Business Integration Adapter for CICS — PerAppInstance

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SW Maintenance Renewal to 1 Anniv. E00DYLL
SW Maintenance after License to 1 Anniv. Date D51G2LL

IBM WebSphere Business Integration Adapter for IMS Transaction Manager — PerAppInstance

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SW Maintenance Renewal to 1 Anniv. E00DVLL
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IBM WebSphere Business Integration Adapter for IMS Database Manager — PerAppInstance

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IBM WebSphere Business Integration Adapter for VSAM — PerAppInstance

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SW Maintenance Renewal to 1 Anniv. E00DZLL
SW Maintenance after License to 1 Anniv. Date D51G5LL

IBM WebSphere Business Integration Adapter for DB2 Databases — PerAppInstance

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SW Maintenance Renewal to 1 Anniv. E00DXLL
SW Maintenance after License to 1 Anniv. Date D51FZLL

IBM WebSphere Business Integration Adapter for ADABAS — PerAppInstance

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SW Maintenance Renewal to 1 Anniv. E00E0LL
SW Maintenance after License to 1 Anniv. Date D51G8LL

Connectivity — Application

IBM WebSphere Business Integration Adapter for Nightfire Applications — PerAppInstance

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SW Maintenance Renewal to 1 Anniv. E00IWLL
SW Maintenance after License to 1 Anniv. Date D51PPLL
Customers with active subscription on the products listed below are entitled to receive the WebSphere Business Integration Adapters media pack.

### Description

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**Withdrawal of Previous Passport Advantage Part Numbers:** The following IPLA software part numbers are being replaced or obsoleted by this announcement. The effective withdrawal date is January 10, 2003.

Orders for these part numbers will not be accepted after the stated effective date of withdrawal, nor will normal marketing activities or educational support be available unless a previous agreement exists between the customer and IBM.

### Withdraw from Marketing Information

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<td>WebSphere Business Integration Adapter Framework V2.0 English Media Pack</td>
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<td>IBM WebSphere Business Integration Adapter for ADABAS V2.0 English Media Pack</td>
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Terms and Conditions

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Licensing: IBM International Program License Agreement (IPLA). Proofs of Entitlement (PoE) are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

LI Form Number: WebSphere Business Integration Adapters License ID: L-NABA-5ECQVN

Limited Warranty Applies: Yes


Money-Back Guarantee: If for any reason you are dissatisfied with the program, return it within 30 days from the invoice date to the party (either IBM or its reseller) from whom you acquired it for a refund. This applies only to your first acquisition of the program.

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http://www.ibm.com/software/passportadvantage

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Other Support: Passport Advantage

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Educational Allowance Available: Not applicable

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Passport Advantage

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