



# IBM DB2 Information Integrator V8.1

## Overview

### IBM DB2® Information

**Integrator V8.1** represents the next generation of information integration software that provides a fundamental underpinning for e-business on demand™.

Responding quickly to changes means that businesses can quickly and easily correlate information not only across the enterprise, but also across its value chain. DB2 Information Integrator gives companies integrated, real-time access to business information across and beyond the enterprise. Such information may reside in diverse source systems (such as Oracle databases, Microsoft™ spreadsheets, flat files) and be distributed across a variety of operating environments (such as Windows®, Linux, UNIX®, z/OS®).

As a result, organizations can increase efficiencies, improve service to customers and suppliers, make better decisions, and respond more quickly to new opportunities. DB2 Information Integrator is middleware technology that allows analytical tools, portal implementations, customer data integration solutions, and other applications access to diverse data as if it were a single database, regardless of where it resides. Thus IT organizations can:

- Choose from a greater range of data access strategies to best match business value
- Realize productivity gains for developing the next generation of composite applications that must integrate distinct data sources
- Gain additional return on existing information assets by augmenting analysis or reporting with value-added, real-time data or unstructured content

## Key Prerequisites

The offerings in this announcement will be available for these operating systems:

- Hewlett-Packard HP-UX
- IBM AIX®
- Linux for Intel®
- Microsoft Windows
- Sun Solaris Operating Environment

For additional information about all hardware and software prerequisites for IBM DB2 Information Integrator V8.1, refer to the **Hardware Requirements** and **Software Requirements** sections in this announcement.

### Planned Availability Dates

- June 13, 2003, for electronic software delivery
- July 11, 2003, for media and documentation

## At a Glance

With **IBM DB2 Information Integrator V8.1**, you can:

- **Choose the data access strategy to match business value**
  - Centralize information for availability or performance
  - Access distributed data for flexibility and cost savings
- **Integrate diverse and distributed data on demand, without moving the data or changing the platforms**
  - Access disparate data as though it were a single source
  - Increase return from existing information assets
- **Progress more quickly at a lower cost**
  - Increase developer productivity for integrating diverse, distributed, and real-time data
  - Use your existing development and analytical tools
  - Deploy current skills over a greater range of project requirements
- **Rely on proven IBM technology**
  - Trust 25 years of data management research and development
  - Integrate with complementary technologies
- **Protect your current and future IT investment**
  - Build on industry standards
  - Reduce the need to modify and replace systems to make them work together

### For ordering, contact:

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Reference: YE001

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## Description

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**IBM DB2 Information Integrator V8.1** is a new product from IBM that provides the foundation for a strategic information integration framework that helps customers to access, manipulate, and integrate diverse and distributed information in real time. This new product enables businesses to abstract a common data model across data and content sources and to access and manipulate them as though they were a single source. DB2 Information Integrator V8.1 supports the predominantly read-access scenarios common to enterprise-wide reporting, knowledge management, business intelligence, portal infrastructures, and customer relationship management.

To address customer requirements, this product is offered in five editions which are described in the section entitled **IBM DB2 Information Integrator Packaging**.

**DB2 Information Integrator V8.1** is primarily targeted at the application development community familiar with relational database application development. Applications that use SQL or tools that generate SQL (for example, integrated development environments, reporting and analytical tools) can now access, integrate, and manipulate distributed and diverse data through a federated data server. This product is most appropriate for projects whose primary data sources are relational data augmented by other XML, Web, or content sources. DB2 Information Integrator core capabilities include:

### A Federated Data Server

- Administrators configure data source access and define integrated views across diverse and distributed data.
  - Administrators use integrated graphical tools to configure access to source data, representing that data as logical tables in the federated data server.
  - Configuration is simplified by built-in functions that help the administrator discover relevant data sources and metadata. XML schema can be automatically mapped into relational schema.
  - Integrated views can be composed across these sources using standard SQL view definitions and expressions.
  - The DB2 Control Center provides the administration environment for DBAs.
- Data sources include the following:
  - **Relational:** DB2, Informix™ Dynamic Server, Informix Extended Parallel Server, Microsoft SQL Server, Oracle, Sybase SQL Server, Sybase Adaptive Server Enterprises, Teradata, and Open Database Connectivity (ODBC) sources.
  - **Nonrelational:**
    - WebSphere® MQ message queues
    - Web services
    - Microsoft Excel spreadsheets
    - Table structured flat files
    - XML documents
    - Documentum Enterprise Content Management System
    - Data sources accessible via OLE DB
    - Data sources accessible by Entrez

- Data sources accessible by BLAST
- Data sources accessible by HMMER
- Data sources accessible by BioRS
- Data sources accessible by IBM Lotus® Extended Search, which include Lotus Notes®, Lotus Domino™.doc, Lotus Discovery Server, Lotus QuickPlace™, Lotus Sametime®, IBM WebSphere Portal Search Engine, Microsoft Index Server, Microsoft Site Server, Microsoft Exchange, LDAP Directories, 18 Web search engines (Yahoo!, Lycos, Excite, HotBot, Google, Alta Vista, ABCNews.com, AOL.com Search, Business Wire, CNN, Canada.com, EuroSeek, FAST Search, GoTo.com, NBCi, PR Newswire WebCrawler, Yahoo News Headline Search), and IBM DB2 Information Integrator for Content sources (IBM DB2 Content Manager, IBM DB2 Content Manager OnDemand, IBM ImagePlus®, and more)
  - A developer toolkit is provided to add access to other sources.
- Applications can query integrated views across diverse and distributed data sources as if they were a single database.
  - The query is expressed using standard SQL statements.
  - Text search semantics can be used within the query. A fast, versatile, and intelligent full text search capability is provided across relational data sources, including data sources that either don't support native text search or don't provide a broad range of text search capability. Numerous search operations are supported (such as Boolean, wildcard, free-text, fuzzy search, proximity search for words within the same sentence or paragraph, or search within XML documents). The query can produce standard SQL answer sets or XML documents. XML documents can be:
    - Generated from the federated source data to facilitate interchange
    - Automatically validated against DTDs or XML schemas
  - SQL expressions can be used to transform the data for business analysis or data exchange. XML documents can be transformed using XSL for flexible presentation. Any Web service can be converted into a function call and used as a transformation. For example, a Web service that provides currency conversion can be used inline within the SQL expression.
  - Results can be made available to the rest of the organization by publishing them to a WebSphere MQ message queue using built-in functions
  - The federated server uses cost-based distributed query optimization to select the best access paths for higher query performance. It leverages intelligence about optimizing access to the data sources provided by the data source wrapper, by database statistics, and optionally by the administrator.
- The administrator can define data caches over the federated relational data, called Materialized Query Tables, to improve query responsiveness and availability for read-only access. If cache use is enabled, the optimizer can automatically redirect the query to exploit the cache. Cache refresh is managed by the administrator.

- Applications can also insert, update, or delete rows from federated relational databases. Initially, this is limited to single-phase commit. However, applications typically update data sources through the application API to preserve business rules.
- Applications can access the federated server via traditional database clients or Web service clients.
- Application developers can use familiar tools, including WebSphere Studio and Microsoft Visual Studio.NET, with DB2 Information Integrator. The federated server is designed to be transparent to the tooling layer, so a business investment in analytical tools, portal infrastructures, or application development environments that generate SQL can be preserved.
- DB2 Information Integrator can be used with WebSphere integration offerings to provide a complete business integration solution.

- **Integrating DB2 Information Integrator into a service-oriented architecture**

- DB2 Information Integrator fits easily into a service-oriented architecture, making all the power of DB2 Information Integrator available through a Web service. Thus any SQL operation or stored procedure operating over diverse and distributed data can return an XML result through a Web service request. Built-in tooling with WebSphere Studio automatically converts an SQL operation into a Web services description language (WSDL) operation.
- Additionally, by providing integrated access to Web Services, DB2 Information Integrator can access an even wider range of information and can incorporate a broad array of transformation capability.

- **Improving productivity and reducing costs for WebSphere Studio developers**

- DB2 Information Integrator helps developers integrate data with higher productivity and improved application efficiency. In-house testing reveals that hand coding can be reduced by 40%-65% for integrating two or more data sources with the performance you would expect from expert tuning.
- DB2 Information Integrator can open up opportunities to utilize more data. Where access to unstructured data is impractical, DB2 Information Integrator brings access to a wide variety of unstructured sources into a familiar programming model.
- DB2 Information Integrator can help reduce maintenance costs. It can minimize source-specific coding, minimize client software maintenance, and reduce storage costs associated with maintaining redundant data. Finally, DB2 Information Integrator lets developers code to an abstracted view of the data to reduce current implementation costs as well as to minimize future impact of changes.

- **Improving productivity for WebSphere Portal developers:** DB2 Information Integrator can offer the same value to portal developers using WebSphere Studio. Developers access federated data from DB2 Information Integrator through the SQL portlet or they can build a custom portlet using the JDBC Portlet Builder.

- **Simplifying custom collaborations in WebSphere Business Integration:** DB2 Information Integrator can speed the creation and maintenance of collaborations that integrate multiple data sources. And, it can improve the performance of process activities or business objects that can be modeled as sets and benefit from relational processing.

- **Complementing WebSphere MQ:** DB2 Information Integrator provides access to WebSphere MQ message queues using SQL. Database programmers now have message queue access via the familiar SQL paradigm. Thus, it:

- Simplifies integration between database and messaging systems.
- Enables virtual or physical queue snapshots to be analyzed using standard analytical software.
- Provides an easy way to compose and publish XML documents that are generated from diverse data sources. A single query can access diverse and distributed data, validate the document against a DTD or XML schema, and publish it to a message queue.

**A Replication Server for Mixed Relational Databases**

- Businesses can replicate data between mixed relational data sources. DB2, Informix Dynamic Server, Microsoft SQL Server, Oracle, Sybase SQL Server, and Sybase Adaptive Server Enterprises are supported as replication sources and targets. Informix Extended Parallel Server and Teradata are supported as replication targets.
- Administrators can configure a variety of topologies, latency, and consistency characteristics:
  - The replication server supports distribution (moving data from one database to many) and consolidation (moving data from many databases to one) scenarios.
  - Transformation can be applied inline with the data movement via standard SQL expressions or stored procedure execution.
  - Data movement can be automated on a specific schedule, at designated intervals, continuously, or event-driven.
  - Data movement can be managed table-at-a-time such as for warehouse loading during batch windows or with transaction consistency for data that is never offline.

**A Local Database Server**

There is a DB2 Information Integrator licensing option that entitles the customer to unrestricted use of the included DB2 Universal Database® Enterprise Server Edition V8.1. Having a full-function, local database store available simplifies the creation of new integration-oriented applications, providing local storage for many purposes. For example, a local store provides a convenient location for analysis of federated information. It also provides the ability to store annotations related to views composed over multiple sources. In all these cases, the programming model is shared between DB2 Information Integrator and DB2 Universal Database Enterprise Server Edition, providing a natural, highly productive environment for data storage. In addition, since the DB2 UDB ESE server is fully functional, it also supports the development of new applications and uses that have no integration component.

## **IBM DB2 Information Integrator Packaging**

To address customer requirements, **DB2 Information Integrator V8.1** is offered in the five editions below. A restricted use license for IBM DB2 Universal Database Enterprise Server Edition V8.1 is included unless otherwise noted.

1. **DB2 Information Integrator Replication Edition** provides the capabilities of a replication server. Customers can replicate data among mixed relational data sources.
2. **DB2 Information Integrator Standard Edition** provides the capabilities of both a replication server and a federated data server, including powerful and versatile federated text search.
3. **DB2 Information Integrator Advanced Edition** provides the capabilities of DB2 Information Integrator Standard Edition and includes an unrestricted license for DB2 Universal Database Enterprise Server Edition V8.1. This adds the power and versatility of using the local DB2 UDB as a local database server.
4. **DB2 Information Integrator Advanced Edition Unlimited** provides all the function of DB2 Information Integrator Advanced Edition and includes entitlement for an unlimited number of data connections.
5. **DB2 Information Integrator Developer Edition** offers a low-cost package for a single application developer to design, build, or prototype composite applications that integrate distinct data sources.

### **Product Upgrades**

**IBM DB2 Information Integrator V8.1** is the successor product for IBM DB2 Relational Connect, IBM DB2 Life Sciences Data Connect, and IBM DB2 DataJoiner®. Customers who have a software maintenance agreement for DB2 Relational Connect, DB2 Life Sciences Data Connect, or DB2 DataJoiner will be entitled to upgrade to an edition of the DB2 Information Integrator product. More specific information will be given when product withdrawal is announced for DB2 Relational Connect, DB2 Life Sciences Data Connect, and DB2 DataJoiner.

### **IBM DB2 Information Integrator V8.1 Benefits**

**IBM DB2 Information Integrator V8.1** represents the next generation of information integration software that provides a fundamental underpinning for e-business on demand, enabling businesses to have integrated, real-time access to diverse and distributed information. As a result, organizations can increase efficiencies, improve service to customers and suppliers, make better decisions, and respond more quickly to new opportunities.

With DB2 Information Integrator V8.1 you can:

**Choose the data access strategy to match business value** — Consolidating data local to the application makes application development easier and provides better data access performance and availability; however, it introduces the burden and cost of moving data, storing it, and managing its synchronization. DB2 Information Integrator V8.1 supports centralized access by providing replication and caching to support performance and availability requirements.

Alternatively, when there is wide diversity in the data accessed, it is impractical or too expensive to replicate, or when it is owned outside the enterprise, a better approach may be to access the data in place. DB2 Information Integrator lets you leave distributed data

where it is, yet access it transparently as though it were a single source. This approach satisfies the predominantly read-access scenarios common to enterprise-wide reporting, business intelligence, portal infrastructures, and customer data integration.

**Integrate data and content without moving the data or changing the platform** — DB2 Information Integrator lets you access diverse and distributed data as though it were a single source, no matter where it resides. It provides a broad range of data source access out-of-the-box, covering structured and unstructured data within and outside the enterprise. Sources include relational databases, flat files, XML documents, spreadsheets, content repositories, Web sites, Web services, and message queues, with more to come. And, you can extend access to virtually any data source (including proprietary). With more information available more easily, you have the opportunity to gain greater return on existing information assets.

**Make more progress, more quickly, and at a lower cost** — With DB2 Information Integrator V8.1, you can more easily and quickly develop the new generation of composite applications that require efficient integration of disparate data. Developers now have a familiar and practical way to combine relational data, such as client account information, with unstructured data, such as claims images, taped conversations, or Web research. In-house IBM studies for joining disparate data sources reveal code savings of 40-65%. Developers can use SQL to:

- Create joins or unions over the data
- Compute statistical functions
- Aggregate data
- Use OLAP features
- Compose or transform XML documents

The transparent access features reduce client-specific coding and maintenance. Utilizing a hub-based approach to data access also reduces requirements for client software maintenance. And access-in-place strategies can help to reduce cost and complexity of managing yet another copy of the data. Plus, developers continue to use the tools they are familiar with as DB2 Information Integrator is designed to fit transparently behind common integrated development environments, portal infrastructures, and analytical and reporting tools. Thus, DB2 Information Integrator V8.1 can speed project deployment, leverage existing skills over a broader range of projects, and reduce ongoing maintenance costs.

**Rely on proven IBM technology** — DB2 Information Integrator V8.1 is based on proven IBM technologies and 25 years of data management research and development. It provides a scalable, cross-platform infrastructure that integrates with the IBM WebSphere business integration portfolio including IBM WebSphere Business Integration, IBM WebSphere Portal, IBM WebSphere MQ, and IBM WebSphere Studio for a complete business integration infrastructure.

**Protect your current and future information technology (IT) investments** — DB2 Information Integrator V8.1 is based on industry standards such as SQL, XML, Java™, and Web services to provide broad interoperability. Its access-in-place capabilities reduce the need to rewrite or replace systems to make them work together. These products provide a strategic, reusable, and open information integration platform that lets customers choose the right approach for their business.

## Accessibility by People with Disabilities

DB2 Information Integrator's administration graphical user interface (GUI) has the following accessibility characteristics:

- Provides keyboard alternatives for all actions.
- Does not interfere with keyboard accessibility features built into the operating system.
- Implements the Java Accessibility API by using the Java Foundation Classes (JFC)/Swing components. Names, descriptions, role, state, and value properties are provided for all controls.
- Provides visual focus on all dialogs and controls. All controls are readable by screen readers.
- Associates readable labels with all controls, objects, and icons.
- Uses color as an enhancement, not as the only way to convey information or indicate an action.
- Supports system settings for size, font, and color.
- Provides documentation in accessible HTML format.
- Documents the accessibility features in the product publications and in the online information center.

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## Product Positioning

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**DB2 Information Integrator V8.1 provides a fundamental underpinning for e-business on demand.**

The on demand business is an enterprise whose business processes — integrated end-to-end across the company and with key partners, suppliers, and customers — can respond with flexibility and speed to any customer demand, marketing opportunity, or external threat. Such flexibility requires an operating environment that is:

- **Integrated** — Creating business flexibility by integrating disparate, unconnected business and IT processes
- **Automated** — Reducing costs and increasing business responsiveness through IT and business linkage
- **Virtualized** — Improving working capital and asset utilization

An integrated operating environment efficiently and flexibly combines resources — people, processes, and information — to optimize operations across and beyond the enterprise. Information integration enables business to have integrated, real-time access to diverse and distributed information, to transform data for business analysis or interchange, and to manage data placement for performance, currency, and scalability.

IBM DB2 Information Integrator V8.1 represents the next generation of information integration software that provides a fundamental underpinning for e-business on demand. It makes information from multiple source systems (Oracle databases, Microsoft spreadsheets, flat files) and distributed across a variety of operating environments (Windows NT®, Linux, UNIX, z/OS) appear to the developer as a single data source. As a result, organizations can increase efficiencies, improve service to customers and suppliers, make better decisions, and respond more quickly to new opportunities or threats.

## Key Scenarios

**DB2 Information Integrator V8.1** should provide value in the following scenarios:

- **Adding value to existing data warehouses** — Data warehousing is changing to address new business needs. Existing data warehouse requirements remain the same, like the need to deliver business value, the requirement for data cleanliness and consistency, and the ability to dice, slice, and drill down into the information. In the new era of information integration, timeliness and extensibility are emerging as new requirements for decision support. Business users want to access real-time data, unstructured content, or remote data when they need it. All this must be seamlessly integrated with the historical information they have typically delivered through data warehouses and marts. Thus DB2 Information Integrator is a natural and logical extension of what businesses have already done to create and maintain their existing data warehouses. It enables queries to span data warehouses, data marts, production systems, content stores, and the Web. This is not a replacement strategy for warehousing, but rather an approach that adds value by flexibly, quickly, and transparently making additional information available with the DB2 Information Integrator middleware. The transparency of this infrastructure makes the access of diverse and distributed data transparent to the analytical and reporting tools already in use in enterprises today.
- **Simplifying composite application development** — A new generation of composite applications is emerging, typified by the requirement to access and integrate distinct data sources and by the changing nature of the application requirements themselves. Portal infrastructures, customer data integration scenarios, and integrated supply chain applications are representative of these applications. Developers are challenged with accessing a broader range of data sources, increasing application complexity in developing integration logic that correctly and efficiently computes results, and business measurements focused on time to value. DB2 Information Integrator can enable developers to integrate diverse and distributed data more productively and efficiently. It also fits with standard portal and application development infrastructures (for example, WebSphere Studio and Microsoft Visual Studio.NET) to maximize tools and skills reuse.
- **Facilitating migration and coexistence scenarios** — Mergers and acquisitions present significant integration challenges. New corporate entities must grapple with understanding their customers and partners across multiple IT infrastructures while strategic plans are assessed and implemented. With the decentralization of computing in many large enterprises, an acquisition is not a prerequisite to disparate IT infrastructures. DB2 Information Integrator can provide temporary or, in some cases, strategic solutions to helping businesses gain a better understanding of their combined business.

**DB2 Information Integrator plays a key role in Grid computing.**

Grid computing is about harnessing a distributed, heterogeneous collection of resources to help solve business and technology problems. The key concept in Grid computing is virtualization — the ability to make distributed resources appear as one and to allow resources to plug into and out of the Grid as needed. Based on open standards, Grid processing translates into:

- **Reduced costs** through better utilization of existing resources by leveraging idle computing power customers have today, and ease of application programming.
- **Enhanced collaboration** based on better sharing of information.
- **Increased productivity** by harnessing larger collections of resources. Better performance, scalability, and availability should be achievable.

The key issues for data on the Grid are accessing, integrating, and placing data. DB2 Information Integrator plays a key role in that it provides transparent access to diverse and distributed data resources on the Grid, making them accessible as if they were a single resource. And, it provides the means to manage data placement using caching and replication features to enable businesses to construct appropriate data topologies for application efficiency. By leveraging Grid computing with DB2 Information Integrator, businesses can apply idle computing power to accelerate applications that can analyze massive amounts of data and turn them into valuable information. It is important to know that IBM is already delivering fundamental technology for Grid computing today.

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### Reference Information

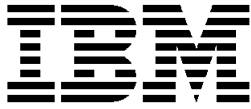
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This IBM DB2 Information Integrator V8.1 product announcement is related to the IBM DB2 Information Integrator V8.1 preview announcement below and to statements of direction in the IBM DB2 UDB V8.1 announcements below:

- Software Announcement 203-021, dated February 4, 2003.
- Software Announcement 202-171, dated July 23, 2002.
- Software Announcement 202-214, dated September 17, 2002.

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# IBM US Announcement Supplemental Information

May 20, 2003

## Offering Information

Product information is available through the Offering Information tool at:

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

and through the Passport Advantage® Web site at:

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

## Publications

### IBM DB2® Information Integrator V8.1 Publications

#### Order Number

SC18-7359-00 — English  
SC10-3991-00 — Spanish  
SC88-9609-00 — Japanese  
S152-0601-00 — Simplified Chinese

#### Book Title

DB2 Information Integrator Developers' Guide

#### Date Available

July 11, 2003

#### Order Number

SC18-7364-00 — English  
SC12-3241-00 — German  
SC88-9614-00 — Japanese  
SC43-0293-00 — Russian  
SC85-0104-00 — Polish  
S152-0600-00 — Simplified Chinese  
SC10-3990-00 — Spanish

#### Book Title

DB2 Information Integrator Federated Systems Guide

#### Date Available

July 11, 2003

#### Order Number

GC18-7036-00 — English  
G511-5834-00 — Danish  
GB11-9182-00 — Finish  
GC12-3214-00 — German  
GC88-9562-00 — Japanese  
GA30-1909-00 — Korean  
GC85-0105-00 — Polish  
GC43-0277-00 — Russian  
G152-0550-00 — Simplified Chinese  
GC14-0086-00 — Swedish

GC40-1182-00 — Traditional Chinese  
GC10-3987-00 — Spanish  
G517-7686-00 — Brazilian Portuguese

#### Book Title

DB2 Information Integrator Installation Guide

#### Date Available

July 11, 2003

#### Order Number

SC18-7037-00 — English  
SC12-3215-00 — German  
S152-0551-00 — Simplified Chinese  
SC10-3988-00 — Spanish  
SC88-9563-00 — Japanese

#### Book Title

DB2 Information Integrator Solutions Guide

#### Date Available

July 11, 2003

#### Order Number

SC18-7360-00 — English  
SC12-3243-00 — German  
SC88-9610-00 — Japanese  
S152-0603-00 — Simplified Chinese  
SC10-3993-00 — Spanish

#### Book Title

DB2 Information Integrator Migration Guide

#### Date Available

July 11, 2003

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## Technical Information

### Specified Operating Environment

#### Hardware Requirements

- For DB2 products running on Intel® systems, a Pentium® central processing unit (CPU) or higher is required.
- For DB2 products running on AMD systems, an AMD Athlon CPU is required.
- For DB2 products running on Solaris, CPUs prior to UltraSparc are not supported.
- For DB2 products running on HP-UX, PA-RISC CPU is required.

#### Memory Requirements

**DB2 Clients:** The amount of memory required for the DB2 Run-Time client depends on the operating system and the database applications that are running. In most cases, it should be sufficient to use the minimum memory requirements of the operating system as the minimum requirement for running the DB2 Run-Time client. Graphical tools that are part of an Administration and Application Development client will require additional 192 MB.

The following table shows applicable recommended minimum memory for installation prerequisite in megabytes (MB). The actual requirement depends on the applications the customer intends to run. Additional memory may be required to handle heavy workloads and large numbers of users. The numbers below are for reference only.

Product	HP-UX	Solaris	AIX®	Windows®	Linux
DB2 Information Integrator	256	256	256	256	256
DB2 Net Search Extender	30	30	30	30	30

The memory requirements given for DB2 Information Integrator include the memory that is required for DB2 UDB Enterprise Server Edition. In addition, the install process for DB2 Information Integrator requires 60 MB of memory.

**Disk Space Requirements:** The following table shows applicable recommended minimum disk space for a typical install in MB. The actual space required may vary depending on the customer's file system and the components installed. The numbers below are for reference only.

Product	HP-UX	Solaris	AIX	Windows	Linux
DB2 Information Integrator <sup>1</sup>	450	450	450	350	450
DB2 Run-Time Client	60	60	60	30	60

Product	HP-UX	Solaris	AIX	Windows	Linux
DB2 Administration Client	125	125	125	110	125
DB2 Application Development Client	160 <sup>3</sup>	160 <sup>3</sup>	160 <sup>3</sup>	325 <sup>2</sup>	160 <sup>3</sup>
DB2 Net Search Extender	50	50	50	50	50

<sup>1</sup> The disk space requirements given for DB2 Information Integrator include the disk space that is required for DB2 UDB Enterprise Server Edition. In addition, for each type of data source accessed, DB2 Information Integrator requires 5 — 20 MB of disk space. The installation process for DB2 Information Integrator requires 140 MB of temporary disk space.

<sup>2</sup> Includes the Java™ Developer's Kit (JDK).

<sup>3</sup> Does not include the JDK.

**Software Requirements:** The offerings in this announcement have the following requirements for operating systems:

Java Runtime Environment (JRE) 1.3.1 is required for running applications and tools in all platforms, except for 64-bit HP-UX and 64-bit Solaris, which require JRE 1.4.

Java Development Kit (JDK) 1.3.1 is required to develop applications on all platforms, except 64-bit HP-UX and 64-bit Solaris, which require JDK 1.4.

#### Windows

- Windows 98 (supported only for DB2 client software)
- Windows Me (supported only for DB2 client software)
- Windows NT® 4.0 with SP 6a or later and Internet Explorer 4.01 with SP 2 or later
- Windows 2000 Professional, Standard Server, Advanced Server, and Datacenter Servers
- Windows XP 32-bit (supported only for development and test use)

#### Linux

The validation status for new Linux kernels and distributions is frequently updated. To obtain the current information for supported Linux software levels, refer to:

<http://www.ibm.com/software/data/db2/linux/validate>

#### AIX

- AIX (32-bit) 4.3.3 with maintenance level 9 or later, and APARs IY22308, Y32690, and IY33024
- AIX (32-bit) 5.1.0 with maintenance level 2 or later, and APARs IY31254, IY32217, IY32905, and IY33023
- AIX (64-bit) 5.1.0 with maintenance level 2 or later, and APARs IY31254, IY32217, IY32905, Y33023, and IY32466
- Version 5.2.0 (32-bit and 64-bit)

#### HP-UX

- HP-UX 11i or later (32-bit and 64-bit) with December 2001 GOLDBASE11i and December 2001 GOLDAPPS11i bundles, patches for Java SDK 1.3.1 (refer to:



<http://www.hp.com/products1/unix/java/ infolibrary/patches.html>

for required patches)

**Solaris**

- Solaris 7 (32-bit and 64-bit) with “Recommended and Security Patches” from:

<http://sunsolve.sun.com>

plus patches 107226-17 and 107153-01

- Solaris 8 (32-bit and 64-bit) with “Recommended and Security Patches” from:

<http://sunsolve.sun.com>

plus patches 108921-12 and 108940-24

- Solaris 9 (32-bit and 64-bit)

**Supported Data Sources**

The software requirements for a federated system depend on the data sources that are accessed. The following table shows the client software that is required for each data source. The client software must be installed on the same system as DB2 Information Integrator.

<b>Data Source</b>	<b>Supported Versions</b>	<b>Client Software Required</b>
BioRS	5.0.14	None
BLAST	2.x	BLAST daemon (supplied)
DB2 UDB for Linux, UNIX®, and Windows	7.1, 7.2, 8.1	None
DB2 UDB for z/OS® and OS/390®	6.1, 7.1	None
DB2 UDB for iSeries™	4.5 or later	None
DB2 Server for VM and VSE	7.1 or later	None
Documentum	Documentum server: EDMS 98 (also referred to as version 3) and 4i	Documentum Client APL/Library 3.1.7a or later
Entrez	1.0	None
Flat files		None
HMMER	2.2g	HMMER daemon (supplied)
IBM Lotus® Extended Search	4.0	Extended Search Client Library (supplied)
Informix™	7, 8, 9	Informix Client SDK 2.7 (or later)
Microsoft™ Excel	97, 2000	Excel 87 or 2000 installed on the same machine as the federated server
Microsoft SQL Server	6.5, 7.0, 2000	On Windows, the Microsoft SQL Server Client ODBC 3.0 (or later) driver; on UNIX, the DataDirect Technologies Connect ODBC 3.7 (or later) driver
ODBC	3.x	ODBC driver for the data source
OLE DB		OLE DB 2.0 or later
Oracle	7.3.4, 8.x, 9.x	SQL*NET or Net8 client software
Sybase	11.x, 12.x	Sybase Open Client Version 11.x or 12.x
Teradata	V2R3, V2R4	Teradata Call-Level Interface Version 2 (CLv2) Release 04.06 (or later)
XML	1.0 specification	None

DB2 Information Integrator supports the operating systems that are listed at the beginning of the section. The data sources that DB2 Information Integrator can access from each of these operating systems are shown in the tables below. DB2 Information Integrator can access data on any system that is supported by the data access client software.

BioRS (BIO)  
 BLAST (BLA)  
 DB2 (DB2)  
 Documentum (DOC)  
 Entrez (ENT)  
 Flat File (FF)  
 HMMER (HMM)  
 IBM Lotus Extended Search (IES)  
 Informix (INF)  
 MQSeries (MQS)  
 Microsoft Excel (EXC)  
 Microsoft SQL Server (SQL)  
 OLEDB (OLE)  
 ODBC (ODB)  
 Oracle (ORA)  
 Sybase (SYB)  
 Teradata (TER)  
 XML (XML)

Platform	BIO	BLA	DB2	DOC	ENT
Windows XP 32-bit	Y	Y	Y	Y	Y
Windows NT	Y	Y	Y	Y	Y
Windows 2000	Y	Y	Y	Y	Y
Windows Server 2003	N	N	N	N	N
AIX 4.3 32-bit	Y	Y	Y	Y	Y
AIX 5L 32-bit	Y	Y	Y	Y	Y
AIX 5L 64-bit	N	N	Y	N	N
HP-UX 32-bit	N	N	Y	N	N
HP-UX 64-bit	N	N	Y	N	N
Solaris 32-bit	N	Y	Y	Y	N
Solaris 64-bit	N	N	Y	N	N
Linux 32-bit	N	Y	Y	N	N

Platform	FF	HMM	IES	INF	MQS
Windows XP 32-bit	Y	Y	Y	Y	Y
Windows NT	Y	Y	Y	Y	Y
Windows 2000	Y	Y	Y	Y	Y
Windows Server 2003	N	N	N	N	N
AIX 4.3 32-bit	Y	Y	Y	Y	Y
AIX 5L 32-bit	Y	Y	Y	Y	Y
AIX 5L 64-bit	Y	N	N	Y	N

Platform	FF	HMM	IES	INF	MQS
HP-UX 32-bit	Y	N	N	Y	Y
HP-UX 64-bit	Y	N	N	Y	N
Solaris 32-bit	Y	N	N	Y	Y
Solaris 64-bit	Y	N	N	Y	N
Linux 32-bit	Y	N	N	Y	N

Platform	EXC	SQL	OLE	ODB	ORA
Windows XP 32-bit	Y	Y	Y	Y	Y <sup>1</sup>
Windows NT	Y	Y	Y	Y	Y <sup>1</sup>
Windows 2000	Y	Y	Y	Y	Y <sup>1</sup>
Windows Server 2003	N	N	N	N	N
AIX 4.3 32-bit	N	Y	N	Y	Y <sup>1</sup>
AIX 5L 32-bit	N	Y	N	Y	Y <sup>1</sup>
AIX 5L 64-bit	N	N	N	N	Y <sup>2</sup>
HP-UX 32-bit	N	Y	N	Y	Y <sup>2</sup>
HP-UX 64-bit	N	N	N	N	Y <sup>2</sup>
Solaris 32-bit	N	Y	N	Y	Y <sup>2</sup>
Solaris 64-bit	N	N	N	N	Y <sup>2</sup>
Linux 32-bit	N	Y	N	Y	Y <sup>2</sup>

Platform	SYB	TER	XML
Windows XP 32-bit	Y <sup>3</sup>	Y	Y
Windows NT	Y <sup>3</sup>	Y	Y
Windows 2000	Y <sup>3</sup>	Y	Y
Windows Server 2003	N	N	N
AIX 4.3 32-bit	Y <sup>3</sup>	Y	Y
AIX 5L 32-bit	Y <sup>3</sup>	Y	Y
AIX 5L 64-bit	Y <sup>4</sup>	N	N
HP-UX 32-bit	Y <sup>3</sup>	N	Y
HP-UX 64-bit	Y <sup>4</sup>	N	N
Solaris 32-bit	Y <sup>3</sup>	N	Y
Solaris 64-bit	Y <sup>4</sup>	N	N
Linux 32-bit	N	N	Y

- <sup>1</sup> Supported with Oracle Net8 and Oracle SQL\*NET clients
- <sup>2</sup> Supported with Oracle Net8 client only
- <sup>3</sup> Supported with Sybase ctlib and dblib clients
- <sup>4</sup> Supported with Sybase ctlib client only

**Limitations:** DB2 Information Integrator supports access to relational data sources that contain DBCS data. At this time, DB2 Information Integrator does not support access to nonrelational data sources containing DBCS characters.

DB2 Information Integrator supports Unicode for access to relational data sources except Microsoft SQL Server and ODBC data sources. Unicode support is provided through the UTF-8 code page. The database at the federated server must be a UTF-8 Unicode database.

For other known limitations, use the following references:

- The “Known limitations, problems, and workarounds” section of *DB2 Information Integrator V8.1 Release Notes*, which can be located in the DB2 Information Integrator library at the following site after the product’s general availability.

<http://www.ibm.com/software/data/integration/db2ii/library.html>

- Part 1, “Known limitations, problems, and workarounds” section of *DB2 Universal Database® V8 Release Notes*.

<http://www.ibm.com/software/data/db2/udb/v8releasenotes.html>

## **Planning Information**

### **Packaging**

#### *Media Packs*

#### **IBM DB2 Information Integrator Advanced Edition V8.1 and IBM Information Integrator Advanced Edition Unlimited V8.1 Media Pack**

#### **Publication**

- IBM DB2 Information Integrator V8.1 Installation Guide

#### **Media**

- DB2 Information Integrator Advanced Edition Windows 32-bit CD
- DB2 Information Integrator Advanced Edition AIX V4 32-bit CD
- DB2 Information Integrator Advanced Edition AIX V5 32- and 64-bit CD
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- DB2 V8.1.2 HTML Documentation CD

#### **Complementary Products**

- IBM Lotus Extended Search V4
- IBM WebSphere® Application Server V5
- IBM WebSphere Studio Site Developer V5
- IBM WebSphere MQ 5.3
- IBM Query Management Facility (QMF™) for Windows 60-Day Trial Version
- IBM Data Management Tools
- DB2 Web Query Tool (Try and Buy) CD
- DB2 Table Editor (Try and Buy) CD
- DB2 High Performance Unload (Try and Buy) CD
- Recovery Expert V1.1 (Try and Buy) CD
- Performance Expert V.1 (Try and Buy) CD

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- DB2 V8.1.2 HTML Documentation CD

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- IBM Lotus Extended Search V4
- IBM WebSphere Application Server V5
- IBM WebSphere Studio Site Developer V5
- IBM WebSphere MQ 5.3
- IBM Query Management Facility (QMF) for Windows 60-Day Trial Version
- IBM Data Management Tools
- DB2 Web Query Tool (Try and Buy) CD
- DB2 Table Editor (Try and Buy) CD
- DB2 High Performance Unload (Try and Buy) CD
- Recovery Expert V1.1 (Try and Buy) CD
- Performance Expert V.1 (Try and Buy) CD

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- IBM DB2 Information Integrator V8.1 Installation Guide

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#### **Complementary Products**

- IBM Query Management Facility (QMF) for Windows 60-Day Trial Version
- IBM Data Management Tools
- DB2 Web Query Tool (Try and Buy) CD
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- DB2 High Performance Unload (Try and Buy) CD
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#### *Documentation Packs*

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- IBM DB2 Information Integrator Solutions Guide
- IBM DB2 Information Integrator Federated Systems Guide
- IBM DB2 Information Integrator Migration Guide
- IBM DB2 Net Search Extender Administration and User's Guide
- IBM DB2 Universal Database Replication Guide and Reference
- IBM DB2 Universal Database Quick Beginnings for DB2 Servers
- IBM DB2 Universal Database What's New Version 8
- IBM DB2 Universal Database Administration Guide: Planning
- IBM DB2 Universal Database Command Reference
- IBM DB2 Universal Database SQL Reference, Volume 1
- IBM DB2 Universal Database SQL Reference, Volume 2

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- IBM DB2 Universal Database What's New Version 8
- IBM DB2 Universal Database Administration Guide: Planning
- IBM DB2 Universal Database Command Reference
- IBM DB2 Universal Database SQL Reference, Volume 1
- IBM DB2 Universal Database SQL Reference, Volume 2

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- IBM DB2 Universal Database Replication Guide and Reference
- IBM DB2 Universal Database Quick Beginnings for DB2 Servers
- IBM DB2 Universal Database What's New Version 8
- IBM DB2 Universal Database Administration Guide: Planning
- IBM DB2 Universal Database Command Reference
- IBM DB2 Universal Database SQL Reference, Volume 1
- IBM DB2 Universal Database SQL Reference, Volume 2

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- IBM DB2 Universal Database Replication Guide and Reference
- IBM DB2 Universal Database What's New Version 8
- IBM DB2 Universal Database Command Reference
- IBM DB2 Universal Database SQL Reference, Volume 2
- IBM DB2 Universal Database Administrative API Reference
- IBM DB2 Universal Database Application Development Guide: Programming Client Applications
- IBM DB2 Universal Database Application Development Guide: Programming Server Applications

#### ***Security, Auditability, and Control***

The customer is responsible for evaluation, selection, and implementation of security features, administrative

procedures, and appropriate controls in application systems and communication facilities.

## Ordering Information

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

### Product Information

Licensed Function Title	Product Group	Product Category
IBM DB2 Information Integrator Replication Edition	IBM Database 2™	DB2
IBM DB2 Information Integrator Standard Edition	IBM Database 2	DB2
IBM DB2 Information Integrator Advanced Edition Unlimited	IBM Database 2	DB2
IBM DB2 Information Integrator Advanced Edition	IBM Database 2	DB2
IBM DB2 Information Integrator Developer Edition	IBM Database 2	DB2
IBM DB2 Information Integrator Connector	IBM Database 2	DB2

### Product Charge Structure

#### Product Metrics:

DB2 Information Integrator Adv Edition Unlimited <sup>1</sup>	Processor
DB2 Information Integrator Adv Edition <sup>2</sup>	Processor
DB2 Information Integrator Std Edition <sup>3</sup>	Processor
DB2 Information Integrator Rep Edition	Processor
DB2 Information Integrator Dev Edition	User
DB2 Information Integrator Connector	Connector

#### Metric Descriptions:

##### Processor

Your license to the program entitles you to install the program on a single server running a single processor. If you wish to install the program on a multiprocessor server, you must acquire an additional Proof of Entitlement (PoE) for each additional processor on the server.

##### User

Your license to DB2 Information Integrator Developer Edition entitles you to have one registered user that uses DB2 Information Integrator Developer Edition. If you wish to have more users, you must acquire additional PoEs for each additional user.

##### Connector

DB2 Information Integrator Connector entitles you to have one Connector for accessing remote data source from the server on which the program is installed. If you acquire additional connectors you must acquire additional PoEs for each connection. The different types of Connectors are listed below:

**Note:** "Connector" is a licensing term. In product documentation, the term "wrapper" is used to refer to the DB2 Information Integrator technology that provides access to data sources. A Connector PoE gives you

entitlement to use the corresponding DB2 Information Integrator wrapper to access data as stated below.

- One Connector PoE for Microsoft Excel spreadsheets entitles access to one or more Excel documents that reside on one or more servers.
- One Connector PoE for flat files entitles access to all flat files that reside on one or more servers.
- One Connector PoE for XML entitles access to all XML documents that reside on one or more servers.
- One Connector PoE for Entrez entitles access to all supported data sources accessible through Entrez. Access to PubMed and Nucleotide databases is supported by DB2 Information Integrator.
- One Connector PoE for BLAST entitles access to all data sources accessible through one BLAST daemon.
- One Connector PoE for HMMER entitles access to all data sources accessible through one HMMER daemon.
- One Connector PoE for BioRS entitles access to all the databanks supported by a single installation of BioRS.
- One Connector PoE for Documentum entitles access to one repository of Documentum documents.
- One Connector PoE for Lotus Extended Search entitles access to all data sources accessible through one or more IBM Lotus Extended Search servers.
- One Connector PoE for relational databases entitles you to access only one database instance of Oracle, Microsoft SQL Server, Sybase, or Teradata databases, or any one data source instance accessed using the ODBC connector. Access to additional database instance(s) or type(s) will require additional DB2 Information Integrator Connector PoE(s). The charge for ODBC accessed sources applies only when using the ODBC connector installed from the program.

The program includes access to DB2 UDB, Informix IDS, and Informix XPS databases and to WebSphere MQ message queues, Web services, and OLE DB and does not require an additional PoE Connector.

*Example:* As an example, to install IBM DB2 Information Integrator on an IBM @server xSeries® four-processor machine for access to data from one Oracle database, an Excel spreadsheet, and an Entrez data source would require four IBM DB2 Information Integrator Standard Edition Processor licenses and three IBM DB2 Information Integrator Connector licenses.

- <sup>1</sup> Each DB2 Information Integrator Advanced Edition Unlimited PoE includes one DB2 UDB ESE PoE and one DB2 Net Search Extender PoE. With a DB2 Information Integrator Advanced Edition Unlimited PoE you have unlimited access to remote data sources from the server on which the DB2 Information Integrator Advanced Edition Unlimited is installed.
- <sup>2</sup> Each DB2 Information Integrator Advanced Edition PoE includes one DB2 UDB ESE PoE and one DB2 Net Search Extender PoE.
- <sup>3</sup> Each DB2 Information Integrator Standard Edition PoE includes one DB2 Net Search Extender PoE.

**License and Software Maintenance Offerings**

<b>Program Name/ Description</b>	<b>Part Number</b>	<b>Program Name/ Description</b>	<b>Part Number</b>
IBM DB2 INFORMATION INTEGRATOR REPLICATION EDITION		IBM DB2 Information Integrator Replication Edition V8.1 Doc Pack US English	BB0E0NA
IBM DB2 II RE Processor SW Maint Reinstatement, 12 mo	D51VXLL	IBM DB2 INFORMATION INTEGRATOR STANDARD EDITION V8.1	
IBM DB2 II RE Processor Annual SW Maint Renewal	E00KTLL	IBM DB2 Information Integrator Standard Edition V8.1 MP US English	BB0CMNA
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IBM DB2 INFORMATION INTEGRATOR STANDARD EDITION		IBM DB2 INFORMATION INTEGRATOR ADVANCED EDITION V8.1 AND IBM DB2 INFORMATION INTEGRATOR ADVANCED EDITION UNLIMITED V8.1	
IBM DB2 II SE Processor Annual SW Maint Renewal	E00HZLL	IBM DB2 Information Integrator Advanced Edition V8.1 Doc Pack US English	BB01BNA
IBM DB2 II SE Processor License & SW Maint 12 months	D51LILL	IBM DB2 Information Integrator Advanced Edition V8.1 MP US English	BB00GNA
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IBM DB2 II SE Proc Upgrade from IBM DB2 II RE License & SW Maint, 12 mo	D521XLL	IBM DB2 Information Integrator Developer Edition V8.1 Doc Pack US English	BB068NA
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IBM DB2 II AE Processor SW Maint Reinstatement, 12 mo	D51KNLL		
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IBM DB2 II DE User, SW Maint Reinstatement, 12 months	D51LELL	IBM DB2 Information Integrator Replication Edition V8.1 MP US English	BB0DZNA
IBM DB2 II DE User Annual SW Maint Renewal	E00HXLL	ENTITLED MAINTENANCE OFFERINGS — IBM INFORMATION INTEGRATOR STANDARD PROC, IBM INFORMATION INTEGRATOR TYPE 1 CONNECTOR PROC	
IBM DB2 II DE User, License & SW Maint, 12 months	D51LCLL	IBM DB2 Information Integrator Standard Edition V8.1 MP US English	BB0CMNA
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IBM DB2 II Connector, SW Maint Reinstatement, 12 mo	D51KTLL	IBM DB2 Information Integrator Advanced Edition V8.1 MP US English	BB00GNA
IBM DB2 II Connector Annual SW Maint Renewal	E00HQLL	ENTITLED MAINTENANCE OFFERINGS — IBM INFORMATION INTEGRATOR DEVELOPER USR, IBM INFORMATION INTEGRATOR TYPE 1 CONNECTOR PROC	
IBM DB2 II Connector License & SW Maint, 12 months	D51KRLL	IBM DB2 Information Integrator Developer Edition V8.1 MP US English	BB03YNA
<b>Media and Documentation Packs</b>			
<b>Program Name/ Description</b>	<b>Part Number</b>		
IBM DB2 INFORMATION INTEGRATOR REPLICATION EDITION V8.1			
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**License Information Form Number:** L-MM-OH-5G5T8M

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### **Copy and Use on Home/Portable Computer**

<b>Product Name</b>	<b>Copy and Use on Home/Portable Computer?</b>
IBM DB2 Information Integrator V8.1	No

**Volume Orders (IVO):** No

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**Usage Restriction:** Yes

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