IBM DB2 Information Integrator

Installation Guide for Linux, UNIX, and Windows

Version 8.2

GC18-7036-01

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Before using this information and the product it supports, be sure to read the general information under “Notices” on page 105.

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Contents

About this book

This book provides the information that you need to install DB2 Information Integrator.

You can use the DB2 Information Integrator installation wizard to install the following components:

- DB2 Universal Database Enterprise Server Edition, Version 8.2.
- Q replication.
- Relational wrappers, formerly available as DB2 Relational Connect.
- Nonrelational wrappers, formerly available as DB2 Life Sciences Data Connect. Life sciences user-defined functions are an installable component of the nonrelational wrappers. KEGG user-defined functions are installed with life sciences user-defined functions.

The DB2 Information Integrator installation wizard also registers the DB2 Information Integrator product license with the DB2 License Manager and enables Q replication.

Conventions

The following conventions are used in this book:

- The DB2 Information Integrator or DB2 Universal Database release level is indicated by the last decimal place in the version number. For example, DB2 Universal Database Enterprise Server Edition, Version 8.1.2 means DB2 Universal Database Enterprise Server Edition, Version 8.1 Fix Pack 2.
- When a path is shown that applies to both UNIX and Windows, only one convention is shown.

  For example, if a file is located in \sqllib\bin on UNIX and Windows, the path is shown with backslashes (\), though UNIX requires forward slashes (/).

Who should read this book

Read this book if you are responsible for installing DB2 Information Integrator. You should be familiar with databases, client and server architectures, connectivity, and networking.

Online information

You can find more information about IBM information integration at the following Web sites:

DB2 Information Integration
www.ibm.com/software/data/integration

DB2 Information Integrator support Web site
www.ibm.com/software/data/integration/db2ii/support.html

IBM Life Sciences Web site
www.ibm.com/industries/lifesciences

Chapter 1. DB2 Information Integrator - overview

This chapter provides an overview of DB2 Information Integrator.

DB2 Information Integrator

DB2® Information Integrator merges diverse types of data into a format that provides easy access to information across an enterprise. With DB2 Information Integrator you can perform the following tasks:

- Access traditional forms of data and emerging data sources
- Use data that is structured, semi-structured, and unstructured
- Retrieve, update, transform, and replicate information from diverse distributed sources

Related concepts:

- "DB2 Net Search Extender (DB2 Information Integrator)" on page 11
- "DB2 Information Integrator Nonrelational Wrappers" on page 6
- "Editions of DB2 Information Integrator" on page 11
- "DB2 Universal Database" on page 5
- "DB2 Information Integrator Relational Wrappers" on page 7
- "KEGG user-defined functions - overview" on page 8
- "Life sciences user-defined functions - overview" on page 7

Related tasks:

- "Removing the XML Metadata Registry" on page 85

Federated systems - overview

When you install relational wrappers or nonrelational wrappers you need to set up a federated system. This section describes federated systems.

Federated systems

A DB2® *federated system* is a special type of distributed database management system (DBMS). A federated system consists of a DB2 instance that operates as a federated server, a database that acts as the federated database, one or more data sources, and clients (users and applications) that access the database and data sources. With a federated system, you can send distributed requests to multiple data sources within a single SQL statement. For example, you can join data that is located in a DB2 Universal Database™ table, an Oracle table, and an XML tagged file in a single SQL statement. The following figure shows the components of a federated system and a sample of the data sources you can access.

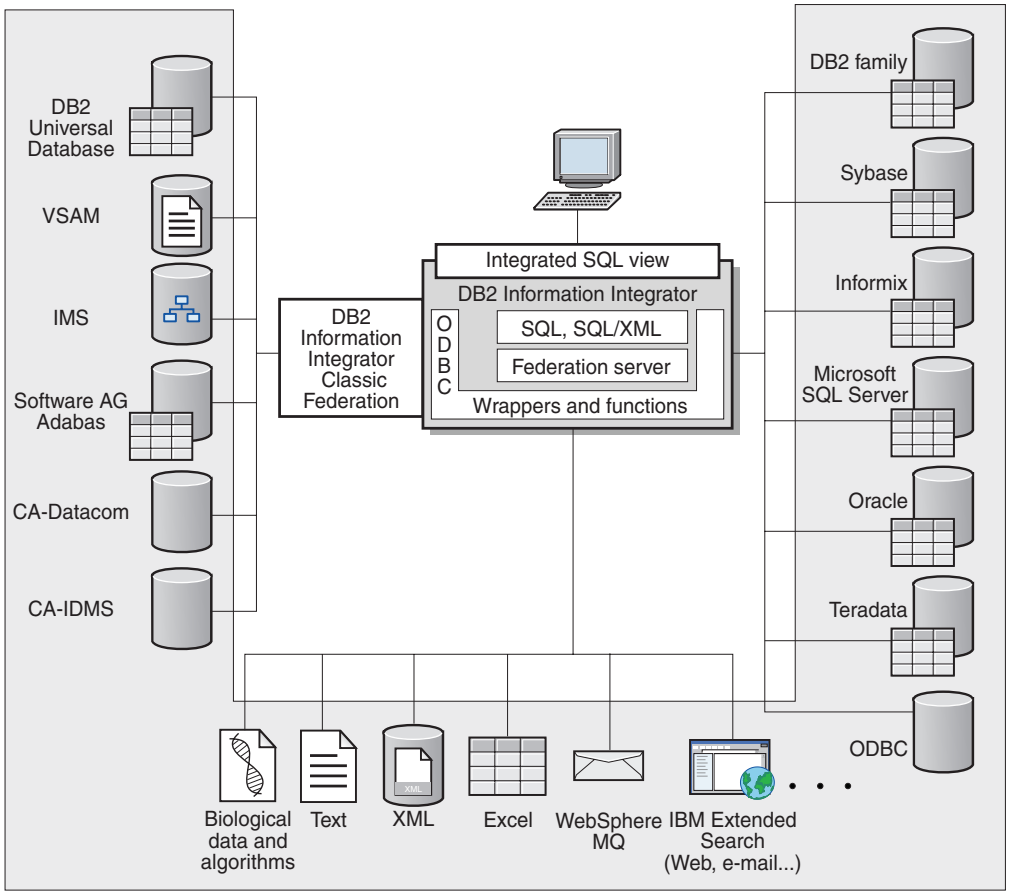


Figure 1. The components of a federated system

The power of a DB2 federated system is in its ability to:

- Join data from local tables and remote data sources, as if all the data is stored locally in the federated database
- Update data in relational data sources, as if the data is stored in the federated database
- Replicate data to and from relational data sources
- Take advantage of the data source processing strengths, by sending requests to the data sources for processing
- Compensate for SQL limitations at the data source by processing parts of a distributed request at the federated server

The federated server

The DB2® server in a federated system is referred to as the *federated server*. Any number of DB2 instances can be configured to function as federated servers. You can use existing DB2 instances as your federated servers, or you can create new ones specifically for the federated system.

The DB2 instance that manages the federated system is called a *server* because it responds to requests from end users and client applications. The federated server often sends parts of the requests it receives to the data sources for processing. A *pushdown* operation is an operation that is processed remotely. The DB2 instance

that manages the federated system is referred to as the *federated server*, even though it acts as a client when it pushes down requests to the data sources.

Like any other application server, the federated server is a database manager instance. Application processes connect and submit requests to the database within the federated server. However, two main features distinguish it from other application servers:

- A federated server is configured to receive requests that might be partially or entirely intended for data sources. The federated server distributes these requests to the data sources.
- Like other application servers, a federated server uses DRDA® communication protocols (over TCP/IP) to communicate with DB2 family instances. However, unlike other application servers, a federated server uses the native client of the data source to access the data source. For example, a federated server uses the Sybase Open Client to access Sybase data sources and an Microsoft® SQL Server ODBC Driver to access Microsoft SQL Server data sources.

Related concepts:

- "What is a data source?" on page 3

What is a data source?

In a federated system, a *data source* can be a relational DBMS instance (such as Oracle or Sybase) or a nonrelational data source (such as BLAST search algorithm or an XML tagged file). Through some data sources you can access other data sources. For example, through the Extended Search data source you can access data sources such as Lotus® Notes databases, Microsoft® Access, Microsoft Index Server, Web search engines, and Lightweight Directory Access Protocol (LDAP) directories.

The method, or protocol, used to access a data source depends on the type of data source. For example, DRDA® is used to access DB2® for z/OS™ and OS/390® data sources and the Documentum Client API/Library is used to access Documentum data sources.

Data sources are semi-autonomous. For example, the federated server can send queries to Oracle data sources at the same time that Oracle applications can access these data sources. A DB2 federated system does not monopolize or restrict access to the other data sources, beyond integrity and locking constraints.

Related concepts:

- "The federated database" on page 3

Related reference:

- "Supported data sources" on page 39

The federated database

To end users and client applications, data sources appear as a single collective database in DB2®. Users and applications interface with the *federated database* managed by the federated server. The federated database contains a system catalog. The federated database system catalog contains entries that identify data sources and their characteristics. The federated server consults the information

stored in the federated database system catalog and the data source wrapper to determine the best plan for processing SQL statements.

The federated system processes SQL statements as if the data sources were ordinary relational tables or views within the federated database. As a result:

- The federated system can join relational data with data in nonrelational formats. This is true even when the data sources use different SQL dialects, or do not support SQL at all.
- The characteristics of the federated database take precedence when there are differences between the characteristics of the federated database and the characteristics of the data sources:
  - Suppose the code page used by the federated server is different than the code page used by the data source. Character data from the data source is converted based on the code page used by the federated database, when that data is returned to a federated user.
  - Suppose the collating sequence used by the federated server is different than the collating sequence used by the data source. Any sort operations on character data are performed at the federated server instead of at the data source.

Related concepts:

- "The SQL Compiler" in the *Federated Systems Guide*
- "The federated database system catalog" in the *Federated Systems Guide*

Metadata management in DB2 Information Integrator

Integrating data is only one part of the information integration solution. Applications that integrate data from multiple sources must determine what data is available, how it is related, and how best to integrate it. Data that is to be integrated can come from multiple sources and be managed by separate, autonomous systems with different formats (such as heterogeneous relational, XML, semistructured and unstructured, and different run-time properties (such as data size, reliability, performance, and transactional requirements).

You can use metadata to answer questions such as: Should you federate, replicate or cache the data? How should multiple sources be transformed to achieve an integrated view? Who is using the data? What are the performance bottlenecks? Distributed, heterogeneous enterprise systems are dynamic; the strategy that works today might not be valid tomorrow because of schema changes, systems going offline, or sudden surges in system load. Metadata provides the information that you need to answer these questions and to easily adapt your system to changes in the environment when those changes occur.

DB2® Information Integrator provides a metadata-driven architecture for an efficient operational enterprise information integration platform. Operational metadata includes the system catalogs that describe items such as tables, columns, data types, indexes, and other metadata that describes the data in an enterprise.

DB2 Information Integrator has DB2 Universal Database at its foundation and extends it with metadata about integrated information. For example, DB2 Information Integrator uses the DB2 catalog to store the following metadata:

- The data sources that a DB2 Information Integrator instance federates

- How users from the DB2 Information Integrator instance map to users at the source
- How data from a source maps to nicknames
- How physical structures map to data types
- The statistical characteristics of the source data

In addition, DB2 Information Integrator stores replication metadata in catalog tables. Such tables define and drive change-data capture and the transformation and movement of data in an enterprise.

Because DB2 Information Integrator is built on the DB2 Universal Database framework, all of the metadata and tools for relational data that are managed by DB2 Universal Database are available for integrated information as well. For example, DB2 Universal Database tools such as Query Patroller and the Health Center can be used to govern access to, and monitor the health of, federated servers. Analysis tools such as Visual Explain can be used to visualize and understand the access plan for a query that integrates data from multiple sources, and application development tools such as the DB2 Development Center and Websphere Studio to work with the integrated data.

DB2 Information Integrator includes the XML Metadata Registry. You can use the XML Metadata Registry to register XML metadata documents such as schemas, document type definitions (DTD), style sheets, and WSDL documents. These documents can be shared across an enterprise. The registry provides a common place where you can search for metadata, manage the access to documents, track versions, collaborate with others to create metadata objects, and track metadata about the registered documents.

DB2 Information Integrator provides tools that are essential to integrating and managing your metadata across an enterprise efficiently. A strong metadata management infrastructure enables you to efficiently find, use, and share the data from disparate data sources.

Products and components of DB2 Information Integrator

DB2 Information Integrator contains the following products and components.

DB2 Universal Database

DB2® Universal Database Enterprise Server Edition is a multiuser version of DB2 Universal Database™ that you can use to create and manage nonpartitioned or partitioned database environments. Partitioned database systems can manage high volumes of data and provide benefits such as increased performance, high availability, and failover support. Failover is the ability of one database to take over automatically when another database fails.

On a Windows® system, DB2 Universal Database Enterprise Server Edition is installed with DB2 Information Integrator if DB2 Universal Database is not installed. On a UNIX® system, DB2 Universal Database Enterprise Server Edition is installed with DB2 Information Integrator if DB2 Universal Database Version 7 or earlier is installed or if DB2 Universal Database is not installed.

In addition to DB2 Universal Database Enterprise Server Edition, the following editions of DB2 Universal Database are supported for use with DB2 Information Integrator:

- DB2 Universal Database Connect Enterprise Edition
- DB2 Universal Database Personal Edition
- DB2 Universal Database Workgroup Server Edition
- DB2 Universal Database Express Edition

The edition of DB2 Universal Database that you install for use with DB2 Information Integrator depends on the products and components that you want to use.

Related concepts:

- "DB2 Net Search Extender (DB2 Information Integrator)" on page 11
- "DB2 Information Integrator Nonrelational Wrappers" on page 6
- "DB2 Information Integrator" on page 1
- "DB2 Information Integrator Relational Wrappers" on page 7

Related reference:

- "Hardware requirements for DB2 Information Integrator" on page 29
- "Supported operating systems for DB2 Information Integrator (32-bit)" on page 33
- "Software requirements for DB2 Information Integrator" on page 32
- "Supported operating systems for DB2 Information Integrator (64-bit)" on page 37

DB2 Information Integrator Nonrelational Wrappers

DB2® Information Integrator contains nonrelational wrappers, formerly available as DB2 Life Sciences Data Connect. Nonrelational wrappers enable a federated system to integrate nonrelational data across an enterprise.

A DB2 federated system uses nonrelational wrappers to integrate nonrelational data sources, such as table-structured files and XML files, and genetic, chemical, biological, and other research data from distributed sources.

The following table shows the wrapper and user-defined functions components that you can install with DB2 Information Integrator Nonrelational Wrappers:

Table 1. Wrapper and user-defined functions components

Installable component name	Description	Included wrappers
Scientific	Scientific data sources, such as those that contain genomic, proteomic, bioinformatic, and cheminformatic information, are developed exclusively for the life sciences industry.	BLAST, HMMER Daemons for the BLAST and HMMER wrappers are included with the wrappers.
Structured files	Structured file data sources contain nonrelational data that is stored in files with a defined, repeatable structure.	Table-structured files, Excel, XML
Applications	Application data sources use an application to access the underlying nonrelational data. The raw data can be in a variety of standard and nonstandard formats.	BioRS, Documentum, Entrez, Extended Search, WebSphere® Business Integration, Web Services

Table 1. Wrapper and user-defined functions components (continued)

Installable component name	Description	Included wrappers
Life sciences user-defined functions	Life sciences user-defined functions are basic and frequently used life sciences functions that make performing simple operations on a single data source fast and easy. The Kyoto Encyclopedia of Genes and Genomes (KEGG) is a suite of databases that contain genomic information. The KEGG user-defined functions are a set of functions provided with DB2 Information Integrator to access the genomic information in the KEGG databases.	Life sciences user-defined functions and KEGG user-defined functions.

Related concepts:

- "DB2 Information Integrator Relational Wrappers" on page 7

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

DB2 Information Integrator Relational Wrappers

DB2® Information Integrator contains relational wrappers, formerly available as DB2 Relational Connect. Relational wrappers enable a federated system to integrate relational data across an enterprise.

The relational wrappers are a part of DB2 Information Integrator that is used with DB2 Universal Database™ for Linux, UNIX®, and Windows® and DB2 Universal Database Enterprise Server Edition. Relational wrappers are wrappers for non-IBM relational databases. In DB2 Universal Database Version 8, relational wrappers are required if you want to access data that is stored in Microsoft® SQL Server, ODBC, Oracle, Sybase, and Teradata data sources.

Access to data that is stored in IBM® databases (DB2 Universal Database and Informix®) is built into DB2 Universal Database for Linux, UNIX, and Windows.

Related concepts:

- "DB2 Information Integrator Nonrelational Wrappers" on page 6

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

Life sciences user-defined functions - overview

The life sciences user-defined functions provide you with algorithms that you commonly use to analyze data.

The life sciences user-defined functions use the standard single-letter codes and the IUPAC-IUB ambiguity codes to represent amino acids and nucleotides.

The life sciences user-defined functions are installed with the Life Sciences User-Defined Functions component of the nonrelational wrappers. After the life sciences user-defined functions are installed, you must register the functions.

To avoid conflicts with namespaces, all of the life sciences user-defined functions are registered in the DB2LS schema.

Related concepts:

- "DB2 Information Integrator Nonrelational Wrappers" on page 6
- "DB2 Information Integrator Relational Wrappers" on page 7

Related tasks:

- "Registering life sciences user-defined functions" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "Disabling the life sciences user-defined functions" in the *IBM DB2 Information Integrator Data Source Configuration Guide*

Related reference:

- "Life sciences user-defined function library files" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "Life sciences user-defined functions by functional category" in the *IBM DB2 Information Integrator Data Source Configuration Guide*

KEGG user-defined functions - overview

The Kyoto Encyclopedia of Genes and Genomes (KEGG) is a suite of databases that contain genomic information. The KEGG user-defined functions are a set of functions provided with DB2® Information Integrator to access the genomic information in the KEGG databases.

The Pathway database and Sequence Similarity Database (SSDB) are the only two databases in the KEGG suite that DB2 Information Integrator can access through the KEGG web services interface. The Pathway database is a collection of data about molecular interaction networks in biological processes, including metabolic pathways, regulatory pathways, and molecular. The SSDB is a collection of data about protein-coding genes in the complete genomes complexes.

The KEGG user-defined functions use the KEGG API to access these databases.

Many of the KEGG methods return lists of values, such as genes or pathways. Some of these methods also require lists of values as input. To facilitate the composition of complex operations from multiple methods, most of the KEGG user-defined function exist in both table and scalar formats. The table functions return a table of single values. The scalar functions return values as a space-delimited list.

The KEGG user-defined functions are installed with the life sciences user-defined functions component of the nonrelational wrappers. After the KEGG user-defined functions are installed, you must register the functions.

To avoid conflicts with namespaces, all of the KEGG user-defined functions are registered in the DB2LS schema.

Related tasks:

- "Registering the KEGG user-defined functions" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "Disabling the KEGG user-defined functions" in the *IBM DB2 Information Integrator Data Source Configuration Guide*

Related reference:

- "Function arguments for the KEGG user-defined functions" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "KEGG user-defined functions by functional category" in the *IBM DB2 Information Integrator Data Source Configuration Guide*

Q replication

Q replication is a high-volume, low-latency replication solution that uses WebSphere® MQ message queues to transmit transactions between source and target databases or subsystems. The Q Capture program reads the DB2® recovery log for changes to a source table that you specify. The program then sends transactions as messages over queues, where they are read and applied to targets by the Q Apply program.

This type of replication offers several advantages:

Minimum latency
Changes are sent as soon as they are committed at the source and read from the log.

High-volume throughput
The Q Capture program can keep up with rapid changes at the source, and the multithreaded Q Apply program can keep up with the speed of the communication channel.

Minimum network traffic
Messages are sent using a compact format, and data-sending options allow you to transmit the minimum amount of data.

Asynchronous
The use of message queues allows the Q Apply program to receive transactions without having to connect to the source database or subsystem. If either of the replication programs is stopped, messages remain on queues to be processed whenever the program is ready. Because the messages are persistent, the source and target remain synchronized even in the event of a system or device failure.

Q replication allows many different configurations. You can replicate between remote servers or within a single server. You can replicate changes in a single direction or in multiple directions. Replicating in multiple directions can be bidirectional (useful for managing standby or backup systems) or peer-to-peer (useful for synchronizing data on production systems).

To use Q replication, you create the following types of objects:

- Replication queue maps, which identify the WebSphere MQ queues for sending and receiving data.

- Q subscriptions, which identify options such as which rows and columns are replicated or published and options for loading target tables.

The following sections provide a quick overview of the three types of Q replication:

- "Unidirectional replication"
- "Bidirectional replication"
- "Peer-to-peer replication"

Unidirectional replication

Unidirectional replication is a configuration that has the following characteristics:

- Changes that occur at a source table are replicated over WebSphere MQ queues to a target table or are passed as input parameters to a stored procedure to manipulate the data.
- Changes that occur at the target table are not replicated back to the source table.
- The target table typically is read-only, or is updated only by the Q Apply program.

Bidirectional replication

Bidirectional replication is a configuration that has the following characteristics:

- Replication occurs between tables on two servers. Changes that are made to one copy of a table are replicated to a second copy of that table, and changes that are made to the second copy are replicated back to the first copy.
- Updates on either of the servers are replicated to the other server.
- Applications on any of the servers can update the same rows in those tables at the same time. However, there is little or no potential for the same data in the replicated tables to be updated simultaneously by both servers. Either the same row is updated by one server at a time, or one server updates only certain columns of data, and the other server updates the other columns.
- You can choose which copy of the table wins if a conflict occurs.

Peer-to-peer replication

Peer-to-peer replication (also known as multimaster replication) is a configuration that has the following characteristics:

- Replication occurs between tables on two or more servers.
- Updates on any one server are replicated to all other associated servers that are involved in the peer-to-peer configuration.
- Applications on any of the servers can update the same rows and columns in those tables at the same time.
- All servers are equal peers with equal ownership of the data; no server is the "master" or source owner of the data.

Related concepts:

- "Bidirectional replication" in the *IBM DB2 Information Integrator Replication and Event Publishing Guide and Reference*
- "Peer-to-peer replication" in the *IBM DB2 Information Integrator Replication and Event Publishing Guide and Reference*
- "Q Apply program" in the *IBM DB2 Information Integrator Replication and Event Publishing Guide and Reference*
- "Q Capture program" in the *IBM DB2 Information Integrator Replication and Event Publishing Guide and Reference*

- "Introduction to Q replication—Overview" in the *IBM DB2 Information Integrator Replication and Event Publishing Guide and Reference*
- "Q subscriptions" in the *IBM DB2 Information Integrator Replication and Event Publishing Guide and Reference*
- "Replication queue maps" in the *IBM DB2 Information Integrator Replication and Event Publishing Guide and Reference*
- "Unidirectional replication" in the *IBM DB2 Information Integrator Replication and Event Publishing Guide and Reference*

DB2 Net Search Extender (DB2 Information Integrator)

You can use DB2® Net Search Extender to perform SQL-based searches on full-text documents across your enterprise. DB2 Net Search Extender performs searches quickly and efficiently by using text indexes instead of searching through documents sequentially. DB2 Net Search Extender updates text indexes dynamically and stores them in memory. When text indexes are stored in memory, they can be accessed without using costly physical read operations.

Related concepts:

- "DB2 Universal Database" on page 5

XML Metadata Registry

The XML Metadata Registry is a registry for XML metadata documents such as schemas, document type definitions (DTD), style sheets, and WSDL documents. You can use the XML Metadata Registry within a company or a specific department, or you can make it available to the public. When you register documents, you provide a common place to search for metadata, manage the access to documents, track versions, collaborate with others to create metadata objects, and track metadata about the registered documents.

The XML Metadata Registry uses a Web-based interface to work with objects in the registry. The content of the documents and the metadata about them are stored in DB2® Universal Database. Each registry has its own database that is created when you install the XML Metadata Registry.

Related concepts:

- "XML Metadata Registry document load tool" in the *DB2 XML Metadata Registry Help*
- "Registry objects and business objects in the XML Metadata Registry" in the *DB2 XML Metadata Registry Help*
- "XML Metadata Registry user interface" in the *DB2 XML Metadata Registry Help*

Related tasks:

- "Installing the XML Metadata Registry" on page 74

Editions of DB2 Information Integrator

DB2® Information Integrator is available in the following editions:

- Event Publisher
- Replication
- Standard

- Advanced
- Advanced Edition Unlimited
- Developer

License agreements vary depending on the edition. In addition, DB2 Universal Database features might have additional licensing requirements. Read the license agreements for each of the DB2 Information Integrator products and components that you install. License agreements are displayed during the installation process.

The following table shows the products and components that are included with each edition of DB2 Information Integrator.

Table 2. DB2 Information Integrator editions and the products and components that they include

DB2 Information Integrator components	Event Publisher Edition and Replication Edition	Standard Edition	Advanced Edition	Advanced Edition Unlimited	Developer Edition
DB2 Universal Database™ Enterprise Server Edition	✓	✓	✓	✓	✓
Q replication	✓	✓	✓	✓	✓
Nonrelational wrappers	Not included	✓	✓	✓	✓
Relational wrappers	✓	✓	✓	✓	✓
DB2 Net Search Extender	Not included	✓	✓	✓	✓
DB2 Run Time Client (32-bit and 64-bit)	✓	✓	✓	✓	✓
DB2 Administration Client (32-bit and 64-bit)	✓	✓	✓	✓	✓
DB2 Application Development Client (32-bit and 64-bit)	Not included	Not included	Not included	Not included	✓
DB2 XML Metadata Registry	✓	✓	✓	✓	✓
Application server for DB2	✓	✓	✓	✓	✓
Java™ debugger	✓	✓	✓	✓	✓

Life sciences user-defined functions are a component of the nonrelational wrappers installation. KEGG user-defined wrappers are installed with life sciences user-defined functions.

Related tasks:

- "Installing the wrapper development kit" on page 67

Related reference:

- "DB2 Information Integrator installation worksheet" on page 42

Complementary products and components for DB2 Information Integrator

The complementary products and components that are included with DB2® Information Integrator differ depending on the edition. The following table shows the products and components that are supported for each edition.

Table 3. DB2 Information Integrator complementary products and components

Included products and components	Replication edition and Event Publisher edition	Standard edition	Advanced edition	Advanced edition unlimited	Developer edition
IBM® WebSphere® MQ	Not available	✓	✓	✓	✓
IBM WebSphere Application Server	Not available	✓	✓	✓	✓
IBM WebSphere Studio Site Developer	Not available	✓	✓	✓	✓
IBM WebSphere Application Server for Developers	Not available	Not available	Not available	Not available	✓
IBM Extended Search	Not available	✓	✓	✓	✓
QMF™	✓	✓	✓	✓	

Related concepts:

- "DB2 Net Search Extender (DB2 Information Integrator)" on page 11
- "DB2 Information Integrator" on page 1

Related reference:

- "Documentation for DB2 Information Integrator complementary products" on page 97

Chapter 2. Planning to install DB2 Information Integrator

DB2 Information Integrator configurations vary depending on the needs of an organization. Some companies access only relational data sources, while others access a variety of relational and nonrelational data sources. Because there are so many possible configurations for a DB2 Information Integrator system, you need to plan your installation in advance.

This chapter provides the following planning information:

- Migration
- Installation documentation
- Installation requirements

DB2 Information Integrator installation process - overview

This topic gives a general overview of the tasks that are involved in planning and installing your DB2® Information Integrator installation.

Planning overview

1. If migration is part of your installation scenario, gather the requirements for migrating to DB2 Information Integrator. See the *IBM DB2 Information Integrator Migration Guide* for information about migrating to DB2 Information Integrator. The documentation is on the DB2 PDF Documentation CD and the DB2 Information Center CD.
2. Gather the installation requirements for your installation configuration. See the following topics for information about the installation requirements for DB2 Information Integrator:
   - Hardware requirements for DB2 Information Integrator
   - Software requirements for DB2 Information Integrator
   - Supported operating systems for DB2 Information Integrator (32-bit)
   - Supported operating systems for DB2 Information Integrator (64-bit)
   - Supported data sources
   - Supported Web browsers for the DB2 XML Metadata Registry

   You can use the DB2 Information Integrator installation worksheet to record the requirements for your installation.

Installation overview

1. If previous versions of DB2 Information Integrator products or components are installed, complete the migration tasks for each of the components that you want to install. See the *IBM DB2 Information Integrator Migration Guide* for information about migration. The documentation is on the DB2 PDF Documentation CD and the DB2 Information Center CD.
2. Install, configure, and test the client software for the wrappers that you want to install. Installing the data source client software before you install DB2 Universal Database™, relational wrappers, or nonrelational wrappers automates some of the tasks that are required for setting up your federated system and accessing data sources. The client software is available separately for the wrappers that require it.

3. Install DB2 Information Integrator. See the following topics for information about installing DB2 Information Integrator:
   - Prerequisites for installing DB2 Information Integrator Relational Wrappers
   - Environment variables for DB2 Information Integrator
   - Installing DB2 Information Integrator (Windows)
   - Installing DB2 Information Integrator (UNIX)
4. Optional: Install any of the DB2 Information Integrator complementary products and components that are included in the DB2 Information Integrator media pack.

Related concepts:

- "Overview of migrating to DB2 Information Integrator" in the *IBM DB2 Information Integrator Migration Guide*

Related reference:

- "DB2 Universal Database Version 8.1.2 or later is installed" on page 26
- "Hardware requirements for DB2 Information Integrator" on page 29
- "Supported operating systems for DB2 Information Integrator (32-bit)" on page 33
- "DB2 Universal Database Version 8.2 is installed" on page 22
- "Clean installation" on page 20
- "Migration" on page 18
- "Documentation for installing DB2 Information Integrator" on page 16
- "Software requirements for DB2 Information Integrator" on page 32
- "Supported operating systems for DB2 Information Integrator (64-bit)" on page 37
- "DB2 Information Integrator installation worksheet" on page 42
- "Prerequisites for installing DB2 Information Integrator Relational Wrappers" on page 43

Documentation for installing DB2 Information Integrator

Table 4 lists the documentation that you need for planning your installation and installing DB2® Information Integrator and its components. The documentation is on the DB2 Information Integrator PDF Documentation CD and the DB2 Information Center CD. The release notes are available from the DB2 Information Integrator Launchpad or on the DB2 Information Integrator Support site at www.ibm.com/software/data/integration/db2ii/support.html.

Table 4. Documentation for installing DB2 Information Integrator

Document title	Form number	PDF file name
IBM DB2 Information Integrator Migration Guide	SC18-7360-01	iiymgx81
IBM DB2 Information Integrator Installation Guide for Linux, UNIX, and Windows	GC18-7036-01	iiyigx81
Quick Beginnings for DB2 Servers	GC09-4836-01	db2isx81
Quick Beginnings for DB2 Connect Enterprise Edition	GC09-4833-01	db2c6x81

Table 4. Documentation for installing DB2 Information Integrator (continued)

Document title	Form number	PDF file name
Quick Beginnings for DB2 Personal Edition	GC09-4838-01	db2i1x81
Installation and Configuration Supplement	GC09-4837-00	db2iyx81

To view or print the PDF documentation:

1. From the root directory of the PDF documentation CD, open the index.htm file.
2. Click the language that you want to use when you display the PDF documentation.
3. In the list of PDF documentation, click the link for the document that you want to view.

Related tasks:

- "Installing DB2 Personal Edition - overview (Windows)" in the *Quick Beginnings for DB2 Personal Edition*
- "Installing DB2 Personal Edition - overview (Linux)" in the *Quick Beginnings for DB2 Personal Edition*
- "Installing DB2 clients (Windows)" in the *Quick Beginnings for DB2 Clients*
- "Installing DB2 clients (UNIX)" in the *Quick Beginnings for DB2 Clients*
- "Installing database partition servers on participating computers (Windows)" in the *Quick Beginnings for DB2 Servers*
- "Installing DB2 servers in a single-partition database environment (Windows)" in the *Quick Beginnings for DB2 Servers*
- "Installing database partition servers on participating computers using a response file (UNIX)" in the *Quick Beginnings for DB2 Servers*
- "Installing DB2 Connect Enterprise Edition (Windows)" in the *Quick Beginnings for DB2 Connect Enterprise Edition*
- "Installing DB2 Connect Enterprise Edition (Solaris Operating Environment)" in the *Quick Beginnings for DB2 Connect Enterprise Edition*
- "Installing DB2 Connect Enterprise Edition (Linux)" in the *Quick Beginnings for DB2 Connect Enterprise Edition*
- "Installing DB2 Connect Enterprise Edition (HP-UX)" in the *Quick Beginnings for DB2 Connect Enterprise Edition*
- "Installing DB2 Connect Enterprise Edition (AIX)" in the *Quick Beginnings for DB2 Connect Enterprise Edition*
- "Installing DB2 servers in a single-partition environment (UNIX)" in the *Quick Beginnings for DB2 Servers*

Related reference:

- "Documentation for DB2 Information Integrator complementary products" on page 97

DB2 Information Integrator installation scenarios

This section describes the following installation scenarios for DB2 Information Integrator:

- Migration
- Clean installation

- DB2 Universal Database, Version 8.2 is installed
- DB2 Universal Database, Version 8.2 Fix Pack 8 or later is installed
- DB2 Universal Database, Version 8.1.2 or later is installed
- An unsupported edition or version of DB2 Universal Database is installed

Migration

If any of the following products are installed on your computer, you need to complete some migration tasks before you install DB2 Information Integrator. See the *IBM DB2 Information Integrator Migration Guide* for information about migrating from the following products:

- DataJoiner
- DB2 Relational Connect Version 7
- DB2 Life Sciences Data Connect Version 7
- An unsupported version of DB2 Universal Database
- An unsupported edition of DB2 Universal Database

Figure 2 on page 19 shows the installation flow.

DB2 Information Integrator Replication Edition and DB2 Information Integrator Event Publisher Edition do not include nonrelational wrappers.

Q replication is installed with the supported editions of DB2 Universal Database except DB2 Universal Database Connect Enterprise Edition. Q replication is enabled when the DB2 Information Integrator product license is registered.

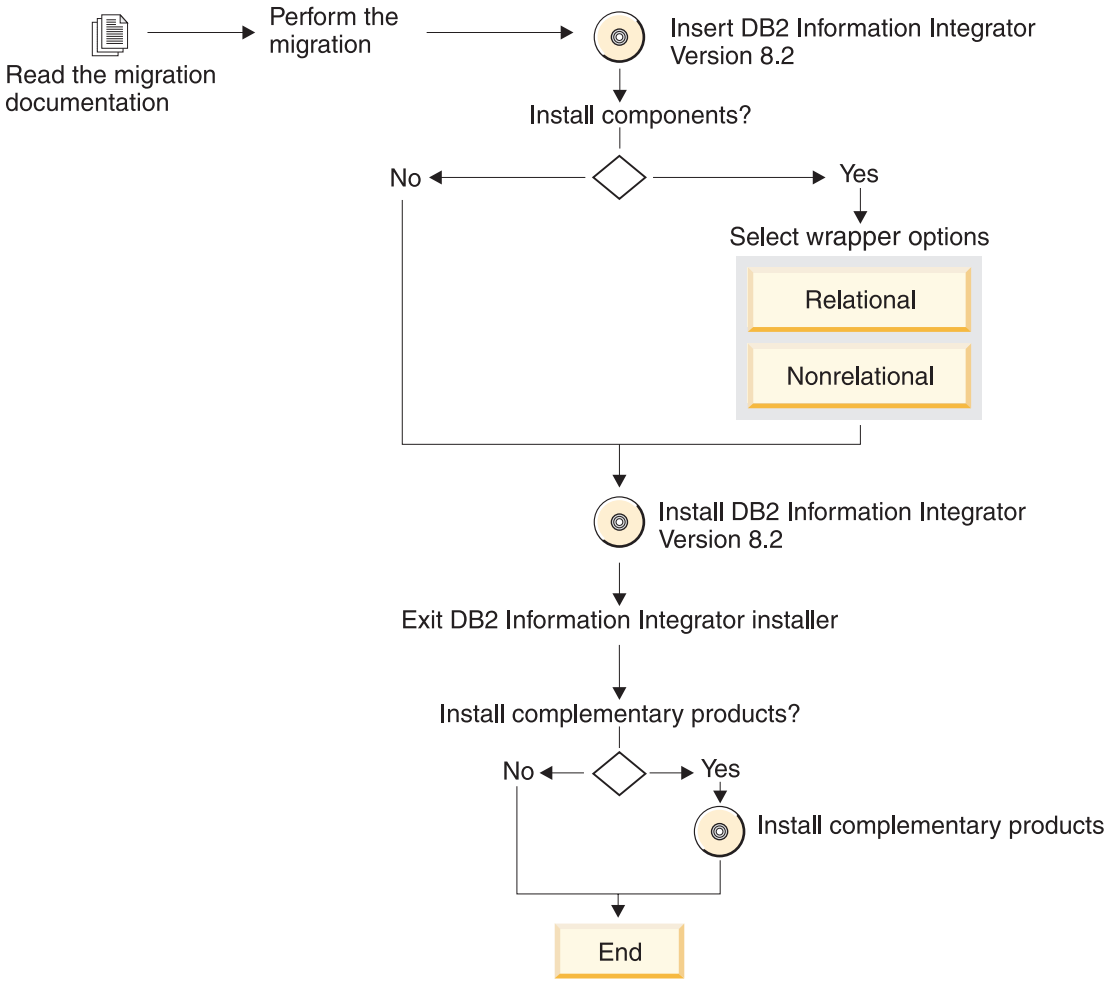


Figure 2. Migrating to DB2 Information Integrator

Installation flow:

The flow of the installation varies depending on the software that is currently installed on your system. Detailed steps for migrating to DB2 Information Integrator are given in other topics.

1. Perform the tasks required to migrate to DB2 Information Integrator.
2. Insert or mount the DB2 Information Integrator CD, or navigate to the directory where the iisetup file is located. Start the DB2 Information Integrator installation wizard.
3. Select the products and components that you want to install.
4. Follow the instructions in the DB2 Information Integrator installation wizard to complete the installation.
5. Configure the federated system and any wrappers that you installed. See the *IBM DB2 Information Integrator Data Source Configuration Guide* for information about configuring a federated system and DB2 Information Integrator wrappers.
6. Optional: Install the complementary products that accompany DB2 Information Integrator.

Related concepts:

- "Overview of migrating to DB2 Information Integrator" in the *IBM DB2 Information Integrator Migration Guide*

Related reference:

- "DB2 Universal Database Version 8.1.2 or later is installed" on page 26
- "DB2 Universal Database Version 8.2 is installed" on page 22
- "Clean installation" on page 20
- "DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed" on page 24
- "An unsupported edition or version of DB2 Universal Database is installed" on page 28

Clean installation

A clean DB2 Information Integrator installation means that one of the following conditions exists:

- You are installing DB2 Information Integrator on a Windows system and DB2 Universal Database is not already installed.
- You are installing DB2 Information Integrator on a UNIX system, and none of the supported editions of DB2 Universal Database, Version 8 are installed.

If you have a clean system, DB2 Information Integrator installs DB2 Universal Database Enterprise Server Edition, Version 8.2. DB2 Universal Database Enterprise Server Edition is on a separate CD. The DB2 Information Integrator installation wizard will prompt you to remove the DB2 Information Integrator CD and replace it with the DB2 Universal Database Enterprise Server Edition CD. If you are installing DB2 Information Integrator from a network drive, you will be prompted to specify the location of the DB2 Universal Database Enterprise Server Edition CD or the directory that it is being installed from. The DB2 Information Integrator license key is automatically registered and Q replication is enabled during the installation process.

Figure 3 on page 21 shows the installation flow.

DB2 Information Integrator Replication Edition and DB2 Information Integrator Event Publisher Edition do not include nonrelational wrappers.

Q replication is installed with the supported editions of DB2 Universal Database except DB2 Universal Database Connect Enterprise Edition. Q replication is enabled when the DB2 Information Integrator product license is registered.

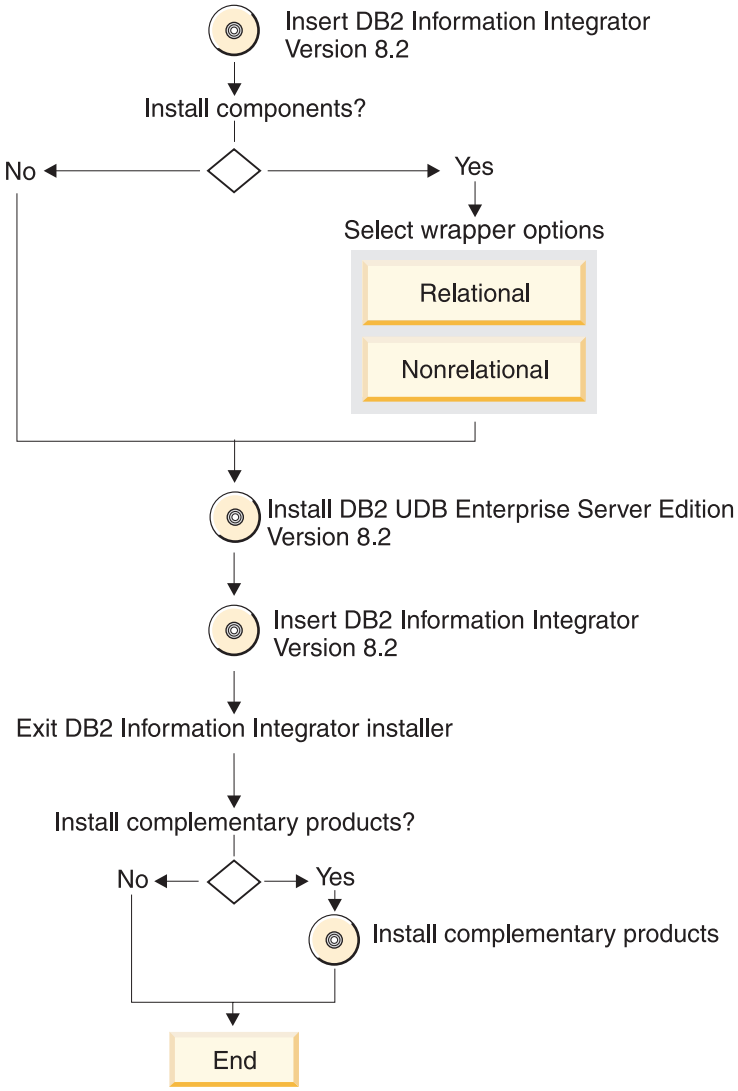


Figure 3. Clean installation

Installation flow:

The flow of the installation varies depending on the software that is currently installed on your system. Detailed steps for installing DB2 Information Integrator are given in other topics.

1. Insert or mount the DB2 Information Integrator CD, or navigate to the directory where the iisetup file is located. Start the DB2 Information Integrator installation wizard.
2. Select the products and components that you want to install.
3. Follow the instructions in the DB2 Information Integrator installation wizard to complete the installation.
4. Configure the federated system and any wrappers that you installed. See the *IBM DB2 Information Integrator Data Source Configuration Guide* for information about configuring a federated system and DB2 Information Integrator wrappers.
5. Optional: Install the complementary products that accompany DB2 Information Integrator.

Related reference:

- "DB2 Universal Database Version 8.1.2 or later is installed" on page 26
- "DB2 Universal Database Version 8.2 is installed" on page 22
- "Migration" on page 18
- "DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed" on page 24
- "An unsupported edition or version of DB2 Universal Database is installed" on page 28

DB2 Universal Database Version 8.2 is installed

You can install DB2 Information Integrator on top of a supported edition of DB2 Universal Database Version 8.2. DB2 Information Integrator will detect DB2 Universal Database during the installation process.

Figure 4 on page 23 shows the installation flow.

DB2 Information Integrator Replication Edition and DB2 Information Integrator Event Publisher Edition do not include nonrelational wrappers.

Q replication is installed with the supported editions of DB2 Universal Database except DB2 Universal Database Connect Enterprise Edition. Q replication is enabled when the DB2 Information Integrator product license is registered.

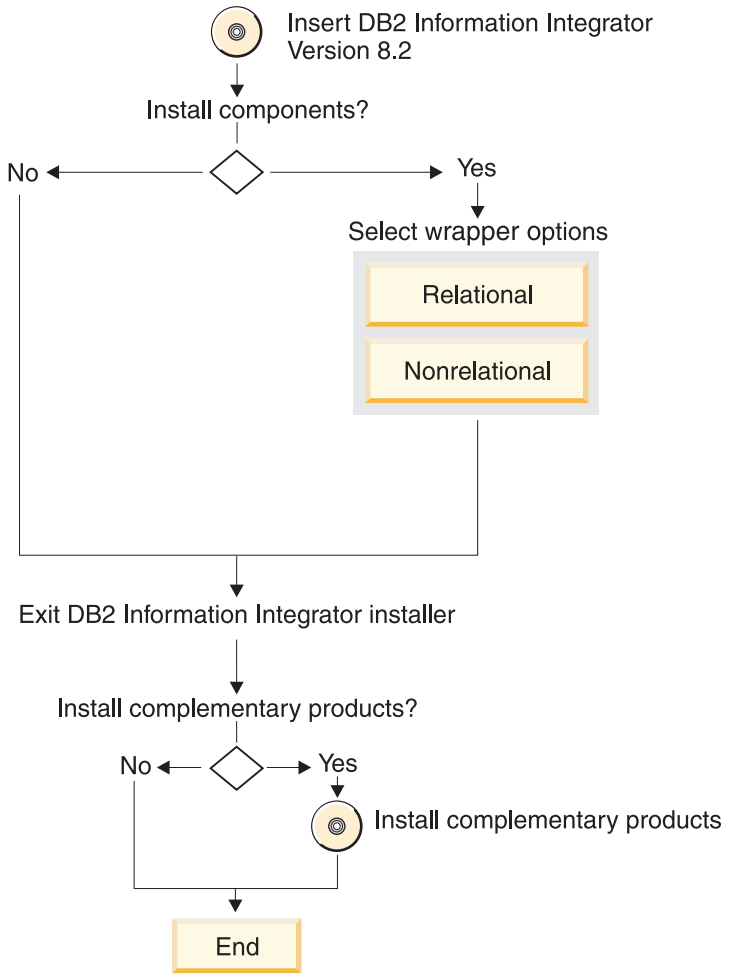


Figure 4. A supported edition of DB2 Universal Database Version 8.2 is installed

Installation flow:

The flow of the installation varies depending on the software that is currently installed on your system. Detailed steps for installing DB2 Information Integrator are given in other topics.

1. Insert or mount the DB2 Information Integrator CD, or navigate to the directory where the iisetup file is located. Start the DB2 Information Integrator installation wizard. The installation wizard detects that a supported edition of DB2 Universal Database Version 8.2 is installed.
2. Select the products and components that you want to install.
3. Follow the instructions in the DB2 Information Integrator installation wizard to complete the installation.
4. Configure the federated system and any wrappers that you installed. See the *IBM DB2 Information Integrator Data Source Configuration Guide* for information about configuring a federated system and DB2 Information Integrator wrappers.
5. Optional: Install the complementary products that accompany DB2 Information Integrator.

Related reference:

- "DB2 Universal Database Version 8.1.2 or later is installed" on page 26

- "Clean installation" on page 20
- "Migration" on page 18
- "DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed" on page 24
- "An unsupported edition or version of DB2 Universal Database is installed" on page 28

DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed

You can install DB2 Information Integrator on a system where a supported edition of DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed. DB2 Information Integrator detects DB2 Universal Database during the installation process. On UNIX, after you install DB2 Information Integrator, you must reinstall the DB2 Universal Database fix pack and run the djxlink script for each wrapper that you installed. Follow the instructions for installing DB2 Information Integrator fix packs on the DB2 Information Integrator support site at www.ibm.com/software/data/integration/db2ii/support.html.

Figure 5 on page 25 shows the installation flow.

DB2 Information Integrator Replication Edition and DB2 Information Integrator Event Publisher Edition do not include nonrelational wrappers.

Q replication is installed with the supported editions of DB2 Universal Database except DB2 Universal Database Connect Enterprise Edition. Q replication is enabled when the DB2 Information Integrator product license is registered.

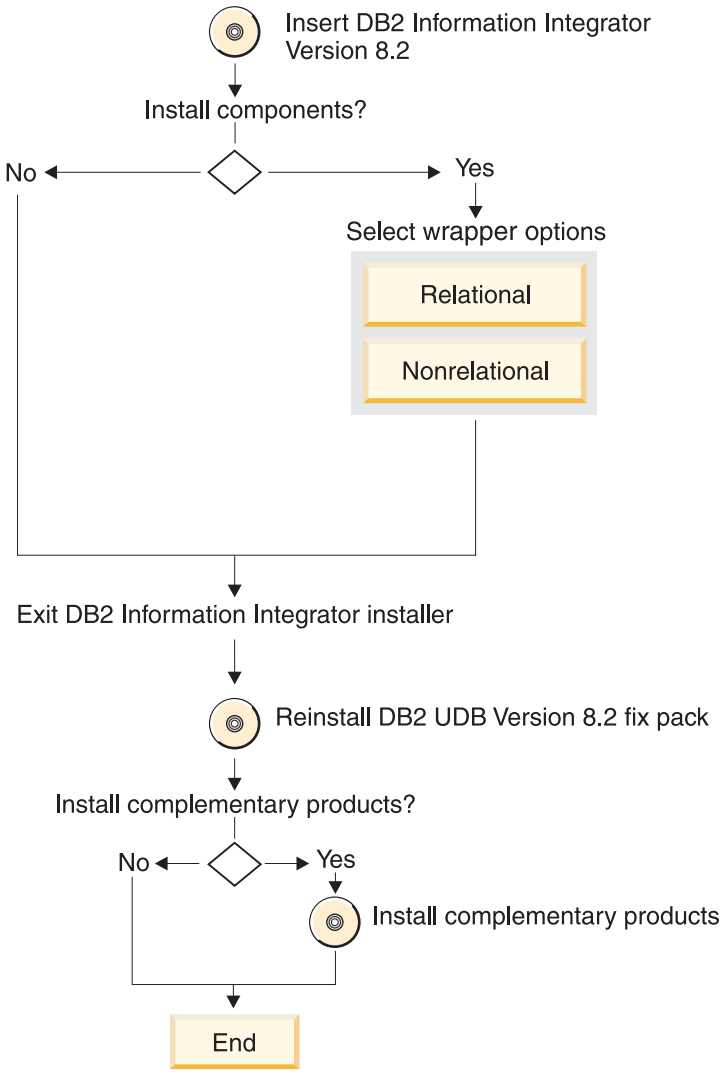


Figure 5. A supported edition of DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed

Installation flow:

The flow of the installation varies depending on the software that is currently installed on your system. Detailed steps for installing DB2 Information Integrator are given in other topics.

1. Insert or mount the DB2 Information Integrator CD, or navigate to the directory where the iisetup file is located. Start the DB2 Information Integrator installation wizard. The installation wizard detects that a supported edition of DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed.
2. Select the products and components that you want to install.
3. Follow the instructions in the DB2 Information Integrator installation wizard to complete the installation.
4. Reinstall the DB2 Universal Database Version 8.2 fix pack.
5. Configure the federated system and any wrappers that you installed. See the *IBM DB2 Information Integrator Data Source Configuration Guide* for information about configuring a federated system and DB2 Information Integrator wrappers.

6. Optional: Install the complementary products that accompany DB2 Information Integrator.

Related reference:

- "DB2 Universal Database Version 8.1.2 or later is installed" on page 26
- "DB2 Universal Database Version 8.2 is installed" on page 22
- "Clean installation" on page 20
- "Migration" on page 18
- "An unsupported edition or version of DB2 Universal Database is installed" on page 28

DB2 Universal Database Version 8.1.2 or later is installed

If DB2 Universal Database Version 8.1.2, DB2 Universal Database Version 8.1 Fix Pack 3, DB2 Universal Database Version 8.1.4, DB2 Universal Database Version 8.1 Fix Pack 5, or DB2 Universal Database Version 8.1.6 is installed, you must install the DB2 Universal Database Version 8.2 Fix Pack 7 or later before you install DB2 Information Integrator.

Figure 6 on page 27 shows the installation flow.

DB2 Information Integrator Replication Edition and DB2 Information Integrator Event Publisher Edition do not include nonrelational wrappers.

Q replication is installed with the supported editions of DB2 Universal Database except DB2 Universal Database Connect Enterprise Edition. Q replication is enabled when the DB2 Information Integrator product license is registered.

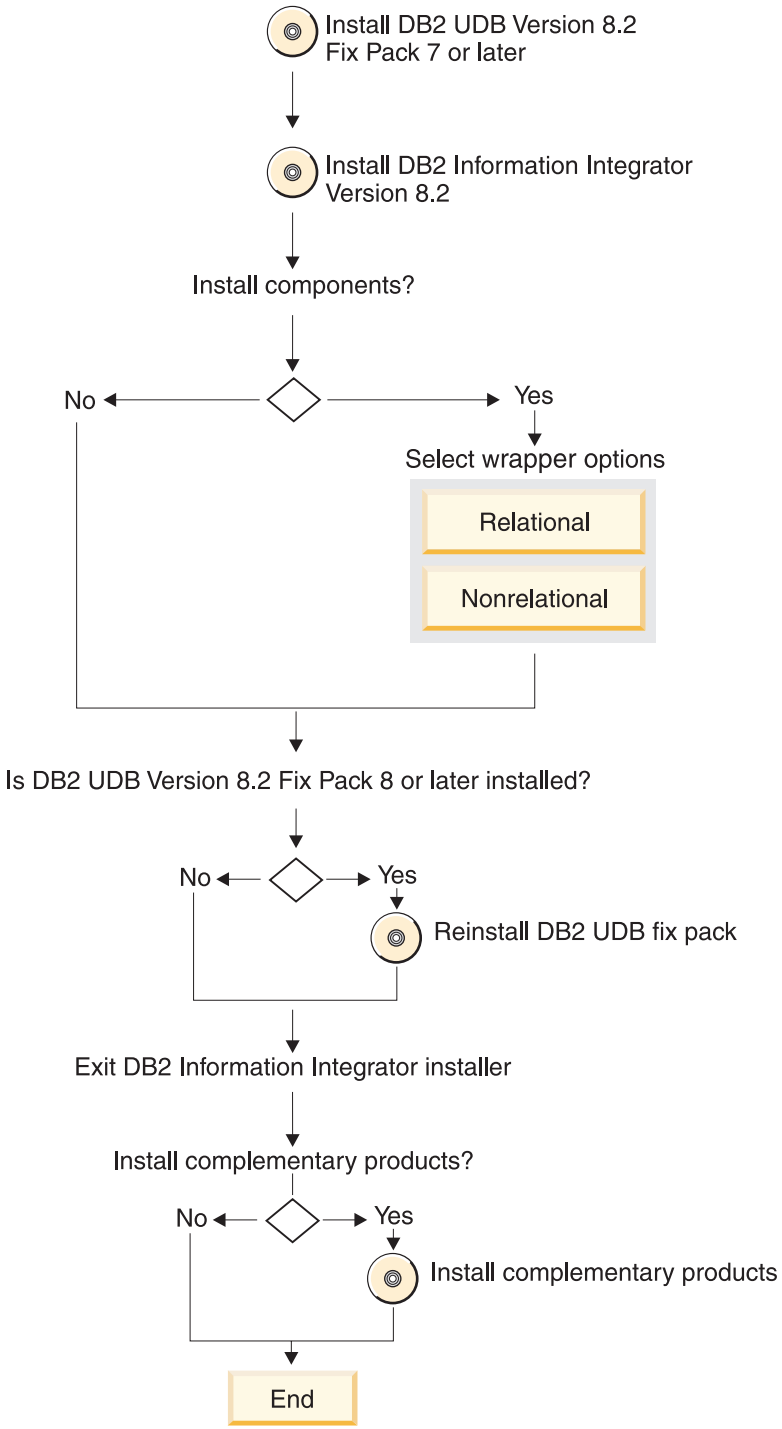


Figure 6. DB2 Universal Database Version 8.1.2 or later is installed

Installation flow:

The flow of the installation varies depending on the software that is currently installed on your system. Detailed steps for installing DB2 Information Integrator are given in other topics.

1. Install DB2 Universal Database Version 8.2 Fix Pack 7 or later.

2. Insert or mount the DB2 Information Integrator CD, or navigate to the directory where the iisetup file is located. Start the DB2 Information Integrator installation wizard.
3. Select the products and components that you want to install.
4. Follow the instructions in the DB2 Information Integrator installation wizard to complete the installation.
5. If DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed, you must reinstall the fix pack.
6. Configure the federated system and any wrappers that you installed. See the *IBM DB2 Information Integrator Data Source Configuration Guide* for information about configuring a federated system and DB2 Information Integrator wrappers.
7. Optional: Install the complementary products that accompany DB2 Information Integrator.

Related reference:

- "DB2 Universal Database Version 8.2 is installed" on page 22
- "Clean installation" on page 20
- "Migration" on page 18
- "DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed" on page 24
- "An unsupported edition or version of DB2 Universal Database is installed" on page 28

An unsupported edition or version of DB2 Universal Database is installed

A supported edition of DB2 Universal Database Version 8.2 or later is required for DB2 Information Integrator to be installed. If an unsupported edition or version of DB2 Universal Database is installed on a Windows system, or an unsupported edition of DB2 Universal Database Version 8.2 is installed on a UNIX system, the DB2 Information Integrator installation wizard displays a message instructing you to migrate to a supported edition and version of DB2 Universal Database.

If a supported edition of DB2 Universal Database, Version 8.1 is installed, you can install the latest DB2 Universal Database fix pack.

Related concepts:

- "Installation procedures for migrating to DB2 Information Integrator" in the *IBM DB2 Information Integrator Migration Guide*
- "Overview of migrating to DB2 Information Integrator" in the *IBM DB2 Information Integrator Migration Guide*

Related reference:

- "DB2 Universal Database Version 8.1.2 or later is installed" on page 26
- "Clean installation" on page 20
- "Migration" on page 18

Installation requirements for DB2 Information Integrator

Ensure that your system meets the following installation requirements for DB2 Information Integrator.

Hardware requirements for DB2 Information Integrator

The hardware requirements for DB2 Information Integrator products and components vary depending on your configuration.

General requirements

Ensure that the federated server has sufficient disk space and that it is configured to manage any temporary tables and sorts that exceed the available memory on the federated server.

Ensure that the federated server has sufficient memory to process the temporary tables and sorts performed by the federated server without using disk input and output on the federated server system.

The disk space requirements vary depending on your configuration and the type of disk drive that you have. Significantly more disk space might be required on FAT drives with large cluster sizes than NTFS drives.

Include required software, communication products, and documentation when you calculate the amount of disk space that is needed for your installation.

Disk space requirements (AIX)

The following table shows the minimum amount of disk space that is required to install DB2 Information Integrator.

Table 5. Disk space requirements for installing DB2 Information Integrator on AIX

Product or component	Disk space for AIX® 4.3.3	Disk space for AIX 5L
DB2 Information Integrator installation wizard	50 MB to 80 MB	50 MB to 80 MB
DB2 Universal Database Enterprise Server Edition, Version 8.2. Q replication is included in the disk space for DB2 Universal Database™. The DB2 Information Integrator license is required to use Q replication.	330 MB to 460 MB	490 MB to 630 MB
Relational wrappers	5 to 20 MB	5 to 20 MB
Nonrelational wrappers	5 to 20 MB	5 to 20 MB
DB2 XML Metadata Registry	40 MB	40 MB
application server for DB2	110 MB	110 MB

Disk space requirements (HP-UX)

The following table shows the minimum amount of disk space that is required to install DB2 Information Integrator.

Table 6. Disk space requirements for installing DB2 Information Integrator on HP-UX

Product or component	Disk space
DB2 Information Integrator installation wizard	50 MB to 80 MB
DB2 Universal Database Enterprise Server Edition, Version 8.2. Q replication is included in the disk space for DB2 Universal Database. The DB2 Information Integrator license is required to use Q replication.	480 MB to 620 MB
Relational wrappers	5 to 20 MB

Table 6. Disk space requirements for installing DB2 Information Integrator on HP-UX (continued)

Product or component	Disk space
Nonrelational wrappers	5 to 20 MB
DB2 XML Metadata Registry	40 MB
application server for DB2	250 MB

Disk space requirements (Linux)

The following table shows the minimum amount of disk space that is required to install DB2 Information Integrator.

Table 7. Disk space requirements for installing DB2 Information Integrator on Linux

Product or component	Disk space
DB2 Information Integrator installation wizard	50 MB to 80 MB
DB2 Universal Database Enterprise Server Edition, Version 8.2. Q replication is included in the disk space for DB2 Universal Database. The DB2 Information Integrator license is required to use Q replication.	380 MB to 480 MB
Relational wrappers	5 to 20 MB
Nonrelational wrappers	5 to 20 MB
DB2 XML Metadata Registry	40 MB
application server for DB2	100 to 120 MB

Disk space requirements (Sun Solaris)

The following table shows the minimum amount of disk space that is required to install DB2 Information Integrator.

Table 8. Disk space requirements for installing DB2 Information Integrator on Solaris

Product or component	Disk space
DB2 Information Integrator installation wizard	50 MB to 80 MB
DB2 Universal Database Enterprise Server Edition, Version 8.2. Q replication is included in the disk space for DB2 Universal Database. The DB2 Information Integrator license is required to use Q replication.	530 MB to 640 MB
Relational wrappers	5 to 20 MB
Nonrelational wrappers	5 to 20 MB
DB2 XML Metadata Registry	40 MB
application server for DB2	143 MB

Disk space requirements (Windows)

The following table shows the minimum amount of disk space that is required to install DB2 Information Integrator.

Table 9. Disk space requirements for installing DB2 Information Integrator on Windows

Product or component	Windows
DB2 Information Integrator installation wizard	50 MB to 80 MB

Table 9. Disk space requirements for installing DB2 Information Integrator on Windows (continued)

Product or component	Windows
DB2 Universal Database Enterprise Server Edition, Version 8.2. Q replication is included in the disk space for DB2 Universal Database. The DB2 Information Integrator license is required to use Q replication.	390 MB
Relational wrappers	5 to 20 MB
Nonrelational wrappers	5 to 20 MB
DB2 XML Metadata Registry	40 MB
application server for DB2	110 MB

Memory requirements

The following table shows the minimum memory requirements for installing DB2 Information Integrator. The memory requirements for installing each product vary depending on your configuration. Close any programs that are running when you install DB2 Information Integrator to ensure that there is enough available memory to complete the installation.

Table 10. Memory requirements for DB2 Information Integrator

Product or component	Minimum required memory
DB2 Universal Database (Windows® and UNIX®)	256 MB
Relational wrappers, nonrelational wrappers, and Q replication	The wrappers and Q replication have no special requirements beyond those required by DB2 Universal Database.
DB2 XML Metadata Registry	The DB2 XML Metadata Registry has no special requirements beyond those required by DB2 Universal Database and the application server for DB2.
application server for DB2	256 MB

To determine the memory requirements for your installation, consider the following factors:

- Software in addition to DB2 Information Integrator software might require additional memory.
- Additional memory is required to support database clients.
- Specific performance requirements can determine the amount of memory that is needed.
- Memory requirements are affected by the size and complexity of your configuration.
- Memory requirements are affected by the extent of database activity and the number of clients that access your system.

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

Related reference:

- "Installation requirements for DB2 servers (Windows)" in the *Quick Beginnings for DB2 Servers*
- "Installation requirements for DB2 servers (AIX)" in the *Quick Beginnings for DB2 Servers*
- "Installation requirements for DB2 servers (HP-UX)" in the *Quick Beginnings for DB2 Servers*
- "Installation requirements for DB2 servers (Linux)" in the *Quick Beginnings for DB2 Servers*
- "Installation requirements for DB2 servers (Solaris Operating Environment)" in the *Quick Beginnings for DB2 Servers*
- "Documentation for installing DB2 Information Integrator" on page 16
- "Software requirements for DB2 Information Integrator" on page 32
- "DB2 Information Integrator installation worksheet" on page 42

Software requirements for DB2 Information Integrator

The software requirements for DB2 Information Integrator products and components vary depending on your configuration.

Ensure that your system meets the following software requirements before you install DB2 Information Integrator:

- The system where you install DB2 Information Integrator must support graphical user interfaces. Graphical user interface support is required to run the DB2 Information Integrator installation wizard and the DB2 Setup wizard, and to use some of the DB2 Universal Database tools such as the DB2 Control Center.
- Any data source client software that is required must be installed. Remember to include the hardware and software requirements for the data source client software in your planning.
- You must install the edition of DB2 Universal Database that supports the products and components that you want to use. Ensure that the components that you want to install are supported for use with the edition of DB2 Universal Database that you want to use. See the topics Supported operating systems for DB2 Information Integrator (32-bit) and Supported operating systems for DB2 Information Integrator (64-bit) for information about the products and components that are supported for use with each edition of DB2 Universal Database for your operating system. The following editions of DB2 Universal Database are supported:
  - DB2 Universal Database Enterprise Server Edition. This edition is installed during the DB2 Information Integrator installation process if DB2 Universal Database is not already installed.
  - DB2 Universal Database Connect Enterprise Edition.
  - DB2 Universal Database Personal Edition.
  - DB2 Universal Database Workgroup Server Edition.
  - DB2 Universal Database Express Edition.
- You need the appropriate SDK to use Java-based tools like the DB2 Control Center, and to create and run Java™ applications, including stored procedures and user-defined functions. When you install DB2 Universal Database on 32-bit operating systems by running the DB2 Setup wizard or by running the DB2 Information Integrator installation wizard, the correct SDK is installed. If you install DB2 Universal Database on AIX, HP-UX, or Solaris, only the 32-bit SDK is

installed. You must install the 64-bit SDK from the CD in the DB2 Information Integrator or DB2 Universal Database media pack.

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

Related reference:

- "Installation requirements for DB2 servers (Windows)" in the *Quick Beginnings for DB2 Servers*
- "Installation requirements for DB2 servers (AIX)" in the *Quick Beginnings for DB2 Servers*
- "Installation requirements for DB2 servers (HP-UX)" in the *Quick Beginnings for DB2 Servers*
- "Installation requirements for DB2 servers (Linux)" in the *Quick Beginnings for DB2 Servers*
- "Installation requirements for DB2 servers (Solaris Operating Environment)" in the *Quick Beginnings for DB2 Servers*
- "Disk and memory requirements (Windows and UNIX)" in the *Quick Beginnings for DB2 Servers*
- "Hardware requirements for DB2 Information Integrator" on page 29
- "Documentation for installing DB2 Information Integrator" on page 16
- "DB2 Information Integrator installation worksheet" on page 42

Supported operating systems for DB2 Information Integrator (32-bit)

The following 32-bit operating systems are supported by DB2 Information Integrator. See the DB2 Information Integrator support site for the latest information about supported operating systems: www.ibm.com/software/data/integration/db2ii/support.html.

AIX

The following DB2 Information Integrator products and components are supported for use with the specified editions of DB2 Universal Database on 32-bit IBM® AIX 4.3.3 and IBM AIX 5L:

DB2 Universal Database Editions	Products and components
DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition	Q replication (with DB2 Universal Database Enterprise Server Edition)
	All of the relational wrappers except OLE DB
	All of the nonrelational wrappers except Microsoft® Excel
	Life sciences user-defined functions
	KEGG user-defined functions
	Wrapper development kit
	DB2 Net Search Extender
	DB2 XML Metadata Registry

DB2 Universal Database Editions	Products and components
DB2 Universal Database Workgroup Server Edition	Q replication

HP-UX

The following DB2 Information Integrator products and components are supported for use with the specified editions of DB2 Universal Database on 32-bit HP-11i:

DB2 Universal Database Editions	Products and components
DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition	Q replication (with DB2 Universal Database Enterprise Server Edition) The following relational wrappers are supported: • DRDA® • Informix® • Microsoft SQL Server • Oracle NET8 • ODBC • Sybase CTLIB • Teradata The following nonrelational wrappers are supported: • Table-structured files • XML Wrapper development kit DB2 Net Search Extender DB2 XML Metadata Registry
DB2 Universal Database Workgroup Server Edition	Q replication

Linux

DB2 Information Integrator is supported for use on the following Linux operating systems:

- Red Hat Linux, Version 7.2 or later
- Red Hat Enterprise Linux versions 2.1 and 3.0
- SUSE LINUX Enterprise Server 8

The following DB2 Information Integrator products and components are supported for use with the specified editions of DB2 Universal Database on 32-bit Linux:

DB2 Universal Database Editions	Products and components
DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition	Q replication (with DB2 Universal Database Enterprise Server Edition) The following relational wrappers are supported: • DRDA • Informix • Microsoft SQL Server • ODBC • Oracle NET8 • Sybase CTLIB The following nonrelational wrappers are supported: • BioRS • BLAST • Entrez • IBM Lotus® Extended Search • HMMER • Table-structured files • XML Life sciences user-defined functions KEGG user-defined functions Wrapper development kit DB2 Net Search Extender DB2 XML Metadata Registry (Linux for Intel™)
DB2 Universal Database Workgroup Server Edition	Q replication
DB2 Universal Database Personal Edition	Q replication
DB2 Universal Database Express Edition	Q replication

Solaris

The following DB2 Information Integrator products and components are supported for use with the specified editions of DB2 Universal Database on 32-bit Solaris versions 7, 8, and 9:

DB2 Universal Database Editions	Products and components
DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition	Q replication (with DB2 Universal Database Enterprise Server Edition) The following relational wrappers are supported: • DRDA • Informix • Microsoft SQL Server • ODBC • Oracle NET8 • Sybase CTLIB • Teradata The following nonrelational wrappers are supported: • BioRS • BLAST • Documentum • Entrez • IBM Lotus Extended Search • HMMER • Table-structured files • XML Life sciences user-defined functions KEGG user-defined functions Wrapper development kit DB2 Net Search Extender DB2 XML Metadata Registry
DB2 Universal Database Workgroup Server Edition	Q replication

Windows

DB2 Information Integrator is supported for use on the following Windows operating systems:

- Microsoft Windows NT® 4 Workstation
- Microsoft Windows NT 4 Server Enterprise Edition
- Microsoft Windows 2000 Professional Edition
- Microsoft Windows XP Professional Edition
- Microsoft Windows XP Home Edition
- Microsoft Windows Server 2000
- Microsoft Windows Server 2003

DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition are supported for development and testing on Windows XP Professional Edition, Windows 2000 Professional Edition, and Windows NT Workstation.

The DB2 XML Metadata Registry is supported for use with the following editions of Windows:

- Windows NT 4 Workstation
- Windows NT 4 Server Enterprise Edition
- Windows 2000
- Windows XP
- Windows Server 2003

The following DB2 Information Integrator products and components are supported for use with the specified editions of DB2 Universal Database on 32-bit Windows:

DB2 Universal Database Editions	Products and components
DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition	Q replication (with DB2 Universal Database Enterprise Server Edition) All of the relational wrappers All of the nonrelational wrappers All of the life sciences user-defined functions except GeneWise KEGG user-defined functions Wrapper development kit DB2 Net Search Extender DB2 XML Metadata Registry
DB2 Universal Database Workgroup Server Edition	Q replication
DB2 Universal Database Personal Edition	Q replication
DB2 Universal Database Express Edition	Q replication

Supported operating systems for DB2 Information Integrator (64-bit)

DB2 Information Integrator can be installed on the operating systems that are described in this topic. See the DB2 Information Integrator support site for the latest information about supported operating systems: www.ibm.com/software/data/integration/db2ii/support.html.

AIX

The following DB2 Information Integrator products and components are supported for use with DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition on 64-bit AIX 5L:

- Relational wrappers:
  - DRDA
  - Informix
  - Oracle NET8
  - Sybase CTLIB
- Nonrelational wrappers: table-structured files.
- DB2 Net Search Extender

- Q replication (with DB2 Universal Database Enterprise Server Edition)

HP-UX

The following DB2 Information Integrator products and components are supported for use with the DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition on 64-bit HP-UX 11i:

- Relational wrappers:
  - DRDA
  - Informix
  - Oracle NET8
  - Sybase CTLIB
- Nonrelational wrappers: table-structured files
- DB2 Net Search Extender
- Q replication (with DB2 Universal Database Enterprise Server Edition)

Linux

DB2 Information Integrator is supported for use on the following Linux operating systems:

- Red Hat Linux, Version 7.2 or later
- Red Hat Enterprise Linux 3.0
- SuSE Linux Enterprise Server 8

The DRDA wrapper is supported for use with DB2 Information Integrator and DB2 Universal Database Enterprise Server Edition or DB2 Universal Database Connect Enterprise Edition on 64-bit Linux operating systems.

Solaris

The following DB2 Information Integrator components are supported for use with DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition on 64-bit Solaris versions 7, 8, and 9:

- Relational wrappers:
  - DRDA
  - Informix
  - Oracle NET8
  - Sybase CTLIB
- Nonrelational wrappers:

  Table structured files.
- DB2 Net Search Extender
- Q replication (with DB2 Universal Database Enterprise Server Edition)

Windows

The following DB2 Information Integrator components are supported for use with DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition on Microsoft Windows XP and Microsoft Windows Server 2003 64-bit operating systems:

- DRDA
- OLE DB

The DB2 Information Integrator installation wizard is supported for installations on Windows 32-bit operating systems. To install the OLE DB or DRDA wrappers on Windows 64-bit operating systems, you must install DB2 Universal Database separately.

DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Connect Enterprise Edition are supported for development and testing on Windows XP Professional Edition.

Related concepts:

- "DB2 Information Integrator installation process - overview" on page 15

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47

Supported data sources

There are many data sources that you can access using a federated system. The following table lists the supported data sources:

Table 11. Supported data source versions and access methods.

Data source	Supported versions	Access method
DB2 Universal Database™ for Linux, UNIX, and Windows®	7.2, 8.1, 8.2	DRDA®
DB2 Universal Database for z/OS™ and OS/390®	6.1, 7.1 with the following APARs applied: • PQ62695 • PQ55393 • PQ56616 • PQ54605 • PQ46183 • PQ62139 8.1	DRDA
DB2 Universal Database for iSeries™	5.1 • with the following APARs applied: – SE06003 – SE06872 – II13348 • with the following PTFs applied: – SI05990 SI05991 5.2 with PTF SI0735 applied.	DRDA
DB2 Server for VM and VSE	7.1 (or later) with fixes for APARs for schema functions applied.	DRDA

Table 11. Supported data source versions and access methods. (continued)

Data source	Supported versions	Access method
Informix™	7.31, 8.32, 8.4, 9.3, 9.4	Informix Client SDK V2.7 (or later)
ODBC	3.x	ODBC driver for the data source, such as Redbrick ODBC Driver to access Redbrick.
OLE DB	2.7, 2.8	OLE DB 2.0 (or later)
Oracle	8.0.6, 8.1.6, 8.1.7, 9.0, 9.1, 9.2, 9i, 10g	Oracle net client or NET8 client software
Microsoft SQL Server	7.0, 2000 SP3 and later service packs on that release	On Windows, the Microsoft SQL Server Client ODBC 3.0 (or later) driver. On UNIX, the DataDirect Technologies (formerly MERANT) Connect ODBC 3.7 (or later) driver.
Sybase	11.9.2, 12.x	Sybase Open Client ctlib interface
Teradata	V2R3, V2R4, V2R5	Teradata Call-Level Interface, Version 2 (CLIv2) Release 04.06 (or later)
BLAST	2.2.3 and later 2.2 fixpacks supported	BLAST daemon (supplied with the wrapper)
BioRS	v5.0.14	None
Documentum	3.x, 4.x	Documentum Client library/APL3.1.7a (or later)
Entrez (PubMed and GenBank data sources)	1.0	None
HMMER	2.2g, 2.3	HMMER daemon (supplied with the wrapper)
IBM Lotus Extended Search	4.0.1, 4.0.2	Extended Search Client Library (supplied with the wrapper)
Microsoft Excel	97, 2000, 2002, 2003	Excel 97, 2000, 2002, or 2003 installed on the federated server
PeopleSoft	8.x	IBM WebSphere Business Integration Adapter for PeopleSoft v2.3.1, 2.4
SAP	3.x, 4.x	IBM WebSphere Business Integration Adapter for mySAP.com v2.3.1, 2.4
Siebel	7, 7.5, 2000	IBM WebSphere Business Integration Adapter for Siebel eBusiness Applications v2.3.1, 2.4
Table-structured files		None
User-defined functions for KEGG	Supported	

Table 11. Supported data source versions and access methods. (continued)

Data source	Supported versions	Access method
User-defined functions for Life Sciences	Supported	
Web services	SOAP 1.0., 1.1, WSDL 1.0, 1.1 specifications	HTTP
XML	1.0 specification	None

Related concepts:

- "What is a data source?" on page 3

Supported Web browsers for the DB2 XML Metadata Registry

The following Web browsers are supported for use with the DB2 XML Metadata Registry:

Operating system	Supported browser
AIX	Netscape 6 or later
HP-UX	• Microsoft Internet Explorer 5 or later • Netscape 6.1 or later
Linux	• Netscape 7 or later • Mozilla 1.0.2 or later
Solaris	Netscape 6 or later
Windows	Microsoft Internet Explorer 6 or later

Related tasks:

- "Installing the XML Metadata Registry" on page 74

DB2 Information Integrator installation worksheet

This worksheet contains tables where you can write the requirements for each component that you install. Fill in the information that applies to your installation.

1. Specify the operating system of the computer where you want to install DB2 Information Integrator:

   ____

2. In the following table, specify the requirements for each of the products and components that you want to install. Also specify the requirements for the data source software that you need to install.

Product or component	Hardware requirements	Software requirements	Disk space requirements	Memory requirements
		Totals		

3. Ensure that you have the correct authentication and authorization. On UNIX, you must have root authority to the system. On Windows, you must have a local administrator account.

Related concepts:

- "DB2 Connect" in the *DB2 Connect User's Guide*
- "DB2 Information Integrator installation process - overview" on page 15

Related reference:

- "Hardware requirements for DB2 Information Integrator" on page 29
- "Supported operating systems for DB2 Information Integrator (32-bit)" on page 33
- "Documentation for installing DB2 Information Integrator" on page 16
- "Software requirements for DB2 Information Integrator" on page 32
- "Supported operating systems for DB2 Information Integrator (64-bit)" on page 37
- "Supported Web browsers for the DB2 XML Metadata Registry" on page 41

Chapter 3. Installing DB2 Information Integrator

This chapter describes how to complete the following tasks:

- Install DB2 Information Integrator products and components
- Add wrappers and user-defined functions after DB2 Information Integrator is installed
- Change from one edition of DB2 Information Integrator to another
- Install DB2 Information Integrator fix packs
- Install the DB2 Information Center

Prerequisites for installing DB2 Information Integrator Relational Wrappers

Before you install DB2 Information Integrator Relational Wrappers, ensure that the prerequisites for each of the wrappers that you want to install are met. Ensure that you install any PTFs or APARs for your system and client software that are required for DB2 Information Integrator. See the DB2 Information Integrator support site www.ibm.com/software/data/integration/db2ii/support.html for information about required PTFs and APARs.

If data source client software is required, install, configure, and test the client software for each federated data source that you want to access before you install the wrappers. Use the query tool that is provided with the data source client software to test the connection. Installing the software in the recommended order sets the environment variables and links the client software to DB2 Universal Database. If you install a relational wrapper that requires data source software before you install the data source client software, you must complete these tasks manually.

DB2 family data sources

If you want to install DB2 family data source support and you install DB2 Universal Database before you install DB2 Information Integrator, you must complete the following steps during the installation:

- Select the Typical or Custom installation option to install federated support for DB2 family data sources.
- Create a DB2 instance on the system where you install DB2 Universal Database and specify the authorities for the instance.

To access the following DB2 family data sources with the DRDA wrapper, you must install DB2 Universal Database Enterprise Server Edition:

- DB2 Universal Database for Linux, UNIX, and Windows
- DB2 Universal Database for z/OS and OS/390
- DB2 Universal Database for iSeries
- DB2 Server for VM and VSE

To access DB2 Universal Database for Linux, UNIX, and Windows data sources with the DRDA wrapper, you must install DB2 Universal Database Enterprise Server Edition or DB2 Universal Database Workgroup Server Edition. This includes local and remote data sources.

Informix data sources

- If you install DB2 Universal Database using the DB2 Information Integrator installation wizard, you must select the **Custom data source support** option on the Product Selection page of the wizard.

  However, if you install DB2 Universal Database before you install DB2 Information Integrator, you must complete the following steps when you install DB2 Universal Database:

  – Select the **Custom** installation option to install federated support for Informix data sources.

  – Create a DB2 instance on the system where you install DB2 Universal Database and specify the authorities for the instance.

- On AIX, the Informix Client SDK requires the AIX Base Application Development Math Library.

Microsoft SQL Server data sources

- Install and configure the ODBC driver on the server that will act as the federated server.

  – On UNIX, install and configure the DataDirect Technologies Connect ODBC driver.

  – On Windows, the Microsoft SQL Server Client Version 2000 driver is typically installed when you install Windows. You must confirm that the driver is installed, and configure the driver to access Microsoft SQL Server data sources:

    - To confirm that the driver is installed, access the Microsoft ODBC Data Source Administrator through the Windows Control Panel. Click the **Drivers** tab to confirm that the 2000 driver is installed.

    - To register the Microsoft SQL Server data source as a System DSN, click **Configure** to test the connection to the Microsoft SQL Server data source.

    If you are using Microsoft SQL Server 2000 Personal Edition, you must use the SQL Server Client Network Utility to add a new SQL Server ODBC data source to your ODBC System DSN list.

  See the installation procedures in the documentation that comes with the ODBC driver for details on how to install and configure the driver.

- The installation wizard prompts you for the following information when you install the Microsoft SQL Server wrapper:

  – The local path where the ODBC driver is installed

  – The local path of the ODBC Driver Manager directory

  – The local path of the ODBC trace directory

  – The local path of the ODBC library

ODBC data sources

Install and configure the ODBC driver on the federated server. See the documentation for the ODBC driver for installation and configuration procedures.

If you are using the Microsoft ODBC Data Source Administrator, register the ODBC data source as a System DSN to enable DB2 Universal Database to find the DSN.

OLE DB data sources

The OLE DB wrapper requires OLE DB provider. OLE DB components are part of Microsoft Data Access Components (MDAC) and are available on the DB2 Universal Database CD or from the Microsoft Web site.

Oracle data sources

- Ensure that you are using the correct version of the data source software for Oracle.
- If you intend to use the following configuration, you must edit the genclntsh script and create the libclntsh.so file before you install DB2 Information Integrator. Otherwise, the federated instance will fail when you attempt a remote operation that includes Oracle and the NET8 wrapper.
  - The Oracle 9i client
  - The Oracle NET8 wrapper
  - A federated server that runs either Linux, Solaris, or HP-UX operating system
- The 64-bit Oracle NET8 wrapper on UNIX federated servers uses the Oracle 9i client library `libclntsh.<suffix>`, where `<suffix>` is a suffix that is determined by the operating system. The `libclntsh` library is in the $ORACLE_HOME/lib directory. To ensure that this library is installed, you must install the Oracle 9i client using a server installation. You can use the custom option to remove any server-specific features.

Sybase data sources

If you are using Sybase Adaptive Server Enterprise in an environment where it is accessed frequently, install version 12.5.0.3 or later. Other versions of Sybase Adaptive Server Enterprise have a known array overrun problem.

If you are using the Sybase wrapper with Sybase Adaptive Server Enterprise Version 11.9, you must use version 11.9.2.6 or later. If one of these versions is not installed, you must install the latest Emergency Bug Fix (EBF) from Sybase on your Sybase server.

Teradata data sources

- Set up the Teradata TCP/IP hosts file. On AIX, the hosts file is in the `/etc` directory. On Windows, it is in the *X*:\WINNT\system32\drivers\etc\hosts directory. *X* is the drive where the \WINNT directory is located. You need to set up this file on each client before you can successfully request a connection to a remote Teradata server. For example, add a line to the hosts file that is similar to the following line:

  ```
  nnn.nnn.nnn.nnn tdatsvr.companyname.com  tdatsvrCOP1
  ```

  - nnn.nnn.nnn.nnn is the TCP/IP address of the remote server.
  - tdatsvr.companyname.com is a symbolic name that is associated with the remote server.
  - tdatsvrCOP1 is the alias for the remote server. The alias must begin with an alphabetic string and end with the `COP`*n* suffix, where *n* is a number between 1 and the total number of applications processors that are associated with the Teradata communications processor.
- To ensure that the client software can connect to the server, use the Basic Teradata Query (BTEQ) tool to test the connection. The tool is provided by Teradata and it must be installed before you can use it.
- On AIX, the DB2 Information Integrator installation program requires the following information:
  - The local path where the `libcliv2.so` library is installed
  - The local path where the `errmsg.txt` file resides

On Windows, you do not need to provide this information.

- See the Teradata documentation for more information about installing, configuring, and testing the Teradata client.

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

Related reference:

- "Supported data sources" on page 39
- "Supported operating systems for DB2 Information Integrator (32-bit)" on page 33
- "Supported operating systems for DB2 Information Integrator (64-bit)" on page 37

Environment variables for DB2 Information Integrator

If the data source client software is installed before you install DB2 Information Integrator, the installation wizard sets the required environment variables for the relational wrappers that you install. If the data source client software is not installed when you install DB2 Information Integrator, you must set the environment variables manually in the db2dj.ini file in the DB2 instance directory when you configure the federated system to access data sources.

The db2dj.ini file is located in one of the following directories depending on your operating system:

- Windows: x:\SQLLIB\cfg

  x:\SQLLIB is the path that is specified in the DB2PATH registry variable or environment variable.
- UNIX: INSTHOME/sqllib/cfg

  INSTHOME is the home directory of the instance owner.

You can override the default path for the db2dj.ini file by setting the DB2_DJ_INI registry variable to a different path.

Table 12. Valid data source environment variables

Data source	Required environment variables	Optional environment variables
Documentum	You do not need to specify both of the following environment variables for Documentum. DOCUMENTUM DMCL_CONFIG	None
Informix	INFORMIXDIR INFORMIXSERVER	INFORMIXSQLHOSTS CLIENT_LOCALE DB_LOCALE DBNLS

Table 12. Valid data source environment variables (continued)

Data source	Required environment variables	Optional environment variables
Oracle	ORACLE_HOME	ORACLE_BASE
		ORA_NLS
		TNS_ADMIN
		NLS_LANG
Microsoft SQL Server	The following environment variables are required for UNIX systems:	None
	DJX_ODBC_LIBRARY_PATH	
	ODBCINI	
	DB2LIBPATH	
	DB2ENVLIST	
	LD_LIBRARY_PATH (Solaris)	
	SHLIB_PATH (HP-UX)	
Sybase	SYBASE	SYBASE_CHARSET
	SYBASE_OCS (required for Sybase, Version 12 or later)	
Teradata	COPERR (UNIX)	TERADATA_CHARSET
	COPLIB	

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55
- "Setting the data source environment variables" in the *IBM DB2 Information Integrator Data Source Configuration Guide*

Installing DB2 Information Integrator (Windows)

The following topics describe how to install DB2 Information Integrator on a Windows system.

Installing DB2 Information Integrator (Windows)

DB2 Universal Database Enterprise Server Edition Version 8.2 is installed with DB2 Information Integrator using the Typical installation option. If you want to use the Custom or Compact options for installing DB2 Universal Database, you must install DB2 Universal Database first. When you install DB2 Information Integrator, you can also install relational wrappers, nonrelational wrappers. KEGG and life sciences user-defined functions are installed with the Life sciences user-defined functions component of the nonrelational wrappers. Q replication is enabled when the DB2 Information Integrator product license key is installed.

DB2 Universal Database is installed in the \Program Files\IBM\SQLLIB directory by default if you do not specify a different directory.

If a supported edition and version of DB2 Universal Database is already installed at the correct level, the DB2 Information Integrator installation wizard will detect it.

If DB2 Universal Database, Version 8.2 Fix Pack 8 or later is installed, you need to reinstall the fix pack after you install DB2 Information Integrator. Follow the instructions for installing DB2 Information Integrator fix packs on the DB2 Information Integrator Support site at www.ibm.com/software/data/integration/db2ii/support.html.

Prerequisites:

- Ensure that your system meets installation, memory, and disk space requirements for all of the products and components that you want to install. If you are installing relational wrappers, see the topic Prerequisites for installing DB2 Information Integrator Relational Wrappers before you install DB2 Information Integrator.
- If you are using a supported edition and version of DB2 Universal Database other than DB2 Universal Database Enterprise Server Edition, you must install DB2 Universal Database before you install DB2 Information Integrator. See the installation documentation for the DB2 Universal Database edition that you are installing for instructions.
- The target system must support graphical interfaces to run the DB2 Information Integrator installation wizard.
- If DB2 Universal Database, Version 8.1 is installed, you must migrate to a supported edition and version before you install DB2 Information Integrator. See the DB2 Information Integrator Support site for instructions on installing DB2 Information Integrator fix packs: www.ibm.com/software/data/integration/db2ii/support.html.
- If you plan to use LDAP on Windows 2000 to register the DB2 server in Active Directory, you must extend the directory schema before you install the DB2 server software.
- You must have a local administrator user account with the recommended user rights to perform the installation.
- If you are installing DB2 Universal Database from a compressed file, you must decompress the file before you begin your installation.

Restrictions:

DB2 Information Integrator products and components must be installed on the same server.

DB2 Universal Database domain users are not supported. The DB2 Universal Database user ID and password that you use must be local.

Procedure:

To install DB2 Information Integrator:

1. Log on to the target system with a user ID that has administrator authority.
2. Close all open programs so that the DB2 Information Integrator installation program can update files as required.

3. Insert the DB2 Information Integrator CD into your drive. The launchpad opens.

   If you are installing DB2 Information Integrator from a network drive, open a command prompt and navigate to the root directory of the DB2 Information Integrator installation software. Enter the following command to start the launchpad:

   ```
   iisetup [-nolp] [-fontsize n]
   ```

   Optional: Use the -nolp parameter to open the installation wizard without opening the launchpad.

   Optional: Use the -fontsize *n* parameter to specify the font size of the text in the installation wizard. *n* is the font size. For example, `./iisetup -fontsize 20`. The value that you specify must be between 8 and 72. The default font size is 12.
4. From the launchpad, click **Install Products** and follow the instructions in the wizard. If you used the -nolp parameter, this step is not necessary.
5. After DB2 Information Integrator is installed, set the DB2 license policy for the wrappers that you installed.
6. Enter the following command from a DB2 command line to enable the federated server to access data sources.

   ```
   UPDATE DATABASE MANAGER CONFIGURATION USING FEDERATED YES
   ```
7. Configure access to the data sources that you installed.
8. Optional: Install the complementary products and components that you want to use.

Related concepts:

- "DB2 Information Integrator Nonrelational Wrappers" on page 6
- "DB2 Universal Database" on page 5
- "DB2 Information Integrator Relational Wrappers" on page 7
- "Known problems, limitations, and workarounds" in the *DB2 Information Integrator Release Notes*
- "Fast track to configuring your data sources" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "KEGG user-defined functions - overview" on page 8
- "Life sciences user-defined functions - overview" on page 7

Related tasks:

- "Setting the DB2 license policy using the db2licm command" in the *Installation and Configuration Supplement*
- "Setting the DB2 license policy using the License Center" in the *Installation and Configuration Supplement*
- "Enabling error logging for the DB2 Information Integrator installation wizard" on page 80
- "Installing DB2 Information Integrator fix packs" on page 62
- "Adding data sources to a federated server using the DB2 UDB Control Center" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "Creating a federated database" in the *IBM DB2 Information Integrator Data Source Configuration Guide*

Related reference:

- "Prerequisites for installing DB2 Information Integrator Relational Wrappers" on page 43
- "Environment variables for DB2 Information Integrator" on page 46
- "Documentation for installing DB2 Information Integrator" on page 16
- "Software requirements for DB2 Information Integrator" on page 32

Confirming and registering the Microsoft SQL Server Client Version 2000 driver (Windows)

The Microsoft SQL Server Client Version 2000 driver is typically installed when you install Windows. To access Microsoft SQL Server data sources, the driver must be installed, registered, and configured.

Procedure:

To confirm that the driver is installed and to test the connection:

1. Open the Windows control panel.
2. Open the **Administrative Tools** folder.
3. Double-click **Data Sources (ODBC)** to open the ODBC Data Source Administrator window.
4. Click the **Drivers** tab and locate the SQL Server entry in the list of ODBC drivers that are installed on your system. If the SQL Server entry is in the list, the driver is installed.
5. Click the **System DSN** tab.
6. Click **Configure** to register the driver and test the connection to the Microsoft SQL Server data source. If you are using Microsoft SQL Server 2000 Personal Edition, you must use the SQL Server Client Network Utility to add a new SQL Server ODBC data source to your ODBC System DSN list.

See the installation procedures in the documentation that comes with the ODBC driver for specific details on how to install and configure the driver.

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

Related reference:

- "Prerequisites for installing DB2 Information Integrator Relational Wrappers" on page 43

Installing the DB2 Information Center using the DB2 Setup wizard (Windows)

DB2 product documentation can be accessed in three ways: on the IBM Web site, on an intranet server, or on a version installed on your computer. By default, DB2 products access DB2 documentation on the IBM Web site. If you want to access the DB2 documentation on an intranet server or on your own computer, you must install the DB2 documentation from the *DB2 Information Center CD*. Using the DB2 Setup wizard, you can define your installation preferences and install the DB2 Information Center on a computer that uses a Windows operating system.

Prerequisites:

This section lists the hardware, operating system, software, and communication requirements for installing the DB2 Information Center on Windows.

- **Hardware requirements**

  You require one of the following processors:

  – 32-bit computers: a Pentium or Pentium compatible CPU

- **Operating system requirements**

  You require one of the following operating systems:

  – Windows 2000

  – Windows XP

  Note: The DB2 Information Center runs on a subset of the Windows operating systems on which DB2 clients are supported. It is therefore recommended that you either access the DB2 Information Center on the IBM Web site, or that you install and access the DB2 Information Center on an intranet server.

- **Software requirements**

  – The following browsers are supported:

    - Mozilla 1.0 or greater

    - Internet Explorer Version 5.5 or 6.0 (Version 6.0 for Windows XP)

- **Communication requirements**

  – TCP/IP

Restrictions:

- You require an account with administrative privileges to install the DB2 Information Center.

Procedure:

To install the DB2 Information Center using the DB2 Setup wizard:

1. Log on to the system with the account that you have defined for the DB2 Information Center installation.
2. Insert the CD into the drive. If enabled, the auto-run feature starts the IBM DB2 Setup Launchpad.
3. The DB2 Setup wizard determines the system language and launches the setup program for that language. If you want to run the setup program in a language other than English, or the setup program fails to auto-start, you can start the DB2 Setup wizard manually.

   To start the DB2 Setup wizard manually:

   a. Click **Start** and select **Run**.

   b. In the **Open** field, type the following command:

      ```
      x:\setup.exe /i 2-letter language identifier
      ```

      where *x:* represents your CD drive, and *2-letter language identifier* represents the language in which the setup program will be run.

   c. Click **OK**.

4. The IBM DB2 Setup Launchpad opens. To proceed directly to the installation of the DB2 Information Center, click **Install Product**. Online help is available to guide you through the remaining steps. To invoke the online help, click **Help**. You can click **Cancel** at any time to end the installation.
5. On the **Select the product you would like to install** page, click **Next**.

6. Click **Next** on the **Welcome to the DB2 Setup wizard** page. The DB2 Setup wizard will guide you through the program setup process.
7. To proceed with the installation, you must accept the license agreement. On the **License Agreement** page, select **I accept the terms in the license agreement** and click **Next**.
8. Select **Install DB2 Information Center on this computer** on the **Select the installation action** page. If you want to use a response file to install the DB2 Information Center on this or other computers at a later time, select **Save your settings in a response file**. Click **Next**.
9. Select the languages in which the DB2 Information Center will be installed on **Select the languages to install** page. Click **Next**.
10. Configure the DB2 Information Center for incoming communication on the **Specify the DB2 Information Center port** page. Click **Next** to continue the installation.
11. Review the installation choices you have made in the **Start copying files** page. To change any settings, click **Back**. Click **Install** to copy the DB2 Information Center files onto your computer.

You can install the DB2 Information Center using a response file. You can also use the **db2rspgn** command to generate a response file based on an existing installation.

For information on errors encountered during installation, see the `db2.log` and `db2wi.log` files located in the '`My Documents`'`\DB2LOG\` directory. The location of the '`My Documents`' directory will depend on the settings on your computer.

The `db2wi.log` file captures the most recent DB2 installation information. The `db2.log` captures the history of DB2 product installations.

Related concepts:

- "DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "DB2 Information Center installation scenarios" in the *Infrastructure Topics (DB2 Common Files)*

Related tasks:

- "Installing a DB2 product using a response file (Windows)" in the *Installation and Configuration Supplement*
- "Updating the DB2 Information Center installed on your computer or intranet server" on page 63
- "Displaying topics in your preferred language in the DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "Invoking the DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "Installing the DB2 Information Center using the DB2 Setup wizard (UNIX)" on page 58

Related reference:

- "db2rspgn - Response File Generator Command (Windows)" in the *Command Reference*

Installing DB2 Information Integrator (UNIX)

The following topics describe how to install DB2 Information Integrator on a UNIX system.

Editing the Oracle genclntsh script and creating the libclntsh file before you install DB2 Information Integrator (HP-UX, Linux, Solaris)

Complete this task if DB2 Information Integrator is not installed.

If you use the following configuration, your DB2 federated instance will fail when you attempt any remote operation that includes Oracle and the NET8 wrapper:

- The Oracle 9i client
- The Oracle NET8 wrapper
- A federated server that runs the HP-UX, Linux, or Solaris operating systems

Prerequisites:

- Install the Oracle 9i client if it is not already installed.
- Back up the following files:
  - HP-UX 32-bit: $ORACLE_HOME/bin/genclntsh, $ORACLE_HOME/lib/libclntsh.sl.9.0, $ORACLE_HOME/lib/libclntst9.a
  - HP-UX 64-bit: $ORACLE_HOME/lib32/libclntsh.sl.9.0, $ORACLE_HOME/lib32/libclntst9.a
  - Linux 32-bit: $ORACLE_HOME/bin/genclntsh, $ORACLE_HOME/lib/libclntsh.so.9.0, $ORACLE_HOME/lib/libclntst9.a
  - Linux 64-bit: $ORACLE_HOME/lib32/libclntsh.so.9.0, $ORACLE_HOME/lib32/libclntst9.a
  - Solaris 32-bit: $ORACLE_HOME/bin/genclntsh, $ORACLE_HOME/lib/libclntsh.so.9.0, $ORACLE_HOME/lib/libclntst9.a
  - Solaris 64-bit: $ORACLE_HOME/lib32/libclntsh.so.9.0. $ORACLE_HOME/lib32/libclntst9.a

Procedure:

To edit the genclntsh script and create the libclntsh file before you install DB2 Information Integrator:

1. In a text editor, open the $ORACLE_HOME/bin/genclntsh script.

   On HP-UX, add -Bsymbolic to the link line. For example:

   ```
   LD="ld -v -G -b +s -L${ORACLE_HOME}/${LIB} -Bsymbolic"
   # shared library link command
   ```

   On Linux, add -Wl,-Bsymbolic to the link line. For example:

   ```
   LD="gcc -shared -Wl,-relax -L${ORACLE_HOME}/lib -Wl,-Bsymbolic"
   # shared library link command
   ```

   On Solaris, add -Bsymbolic to the link line. For example:

   ```
   LD="ld -m -i -G -z text -L${ORACLE_HOME}/${LIB} -Bsymbolic"
   # shared library link command
   ```

2. From a command prompt, run the genclntsh script to create the libclntsh file.

When DB2 Information Integrator is installed, the changes that were made to the genclntsh script are recorded in the Oracle wrapper library.

Related tasks:

- "Editing the Oracle genclntsh script and creating the libclntsh file after you install DB2 Information Integrator (HP-UX, Linux, Solaris)" on page 57
- "Installing DB2 Information Integrator (UNIX)" on page 55

Installing the DataDirect Technologies Connect ODBC driver (UNIX)

If you are installing DB2 Information Integrator on UNIX and setting up the server to access Microsoft SQL Server data sources, you need to install the DataDirect Technologies Connect ODBC driver.

Procedure:

To install the DataDirect Technologies Connect ODBC driver:

1. Specify the Connect library directory as the first entry in the LIBPATH.
2. Make the Connect ODBC libraries available to other users by checking the permissions on the Connect ODBC libraries.
3. Test the configuration of the `.odbc.ini` file and the connection to the Microsoft SQL Server data source using the DataDirect Technologies Connect ODBC **demoodbc** test tool. The **demoodbc** test tool is in the `/demo` subdirectory of Connect ODBC. The **demoodbc** test tool attempts to connect to a requested SQL Server data source and query the EMP table. Because the Microsoft SQL Server data source probably does not have an EMP table, you should expect to receive error messages. The test is successful if any of the following results occur:
   - Messages indicate that no EMP table exists.
   - Records from an EMP table are returned.
   - Messages indicate that there is an EMP table, but that the requested columns are not present.

   The **demoodbc** test tool must be run by a user on the UNIX system without root authority. If no other user is on the system, a user with root authority can create a group and user ID for the DB2 instance. Use this user ID to run the **demoodbc** test tool. For example, the root user can create the group db2admin1 and the user db2inst1. A new user ID is added that will be the instance owner. To run **demoodbc** tool, the db2inst1 user needs to:
   - Add the DataDirect Technologies Connect ODBC `lib` subdirectory to the LIBPATH system environment variable value. Typically the directory is `/opt/odbc/lib` and can be set with this command:

     ```
     export LIBPATH=/opt/odbc/lib:$LIBPATH
     ```
   - Set the ODBCINI environment variable to point to the location of the `odbc.ini`. file that has ODBC connection information for the SQL Server data source. Use the export command to set the ODBCINI environment variable. For example, if the location of the `odbc.ini` file is the home directory of DB2 instance owner user db2inst1 and the federated server operating system is AIX, the command is:

     ```
     export ODBCINI=/home/db2inst1/.odbc.ini
     ```

   See the installation procedures in the documentation that comes with the ODBC driver for details on how to install and configure the driver.

Related tasks:

- "Installing DB2 Information Integrator (UNIX)" on page 55

Related reference:

- "Prerequisites for installing DB2 Information Integrator Relational Wrappers" on page 43

Installing DB2 Information Integrator (UNIX)

DB2 Universal Database Enterprise Server Edition Version 8.2 is installed with DB2 Information Integrator using the Typical installation option. If you want to use the Custom or Compact options for installing DB2 Universal Database, you must install DB2 Universal Database first. When you install DB2 Information Integrator, you can also install relational wrappers, nonrelational wrappers. KEGG and life sciences user-defined functions are installed with the Life sciences user-defined functions component of the nonrelational wrappers. Q replication is enabled when the DB2 Information Integrator product license key is installed.

DB2 Universal Database is installed in the one of the following directories by default depending on your operating system:

AIX: /usr/opt/db2_08_01

HP-UX, Linux, and Solaris: /opt/IBM/db2/V8.1

If a supported edition and version of DB2 Universal Database is already installed at the correct level, the DB2 Information Integrator installation wizard will detect it.

If DB2 Universal Database, Version 8.2 Fix Pack 8 or later is installed, you need to reinstall the fix pack after you install DB2 Information Integrator. Follow the instructions for installing DB2 Information Integrator fix packs on the DB2 Information Integrator Support site at www.ibm.com/software/data/integration/db2ii/support.html.

IBM offers font packages for UNIX that contain additional double-byte character set (DBCS) support for Asian characters. These font packages are necessary with some versions of UNIX. For information about installing the font package for DB2 Information Integrator, see the DB2 Information Integrator Release Notes for Version 8.2 on DB2 Information Integrator Support site at www.ibm.com/software/data/integration/db2ii/support.html.

Prerequisites:

- Ensure that your system meets installation, memory, and disk space requirements for all of the products and components that you want to install. If you are installing relational wrappers, see the topic Prerequisites for installing DB2 Information Integrator Relational Wrappers, before you install DB2 Information Integrator.
- The system where you are installing DB2 Information Integrator must support graphical interfaces to run the installation wizard.
- If you are using a supported edition and version of DB2 Universal Database other than DB2 Universal Database Enterprise Server Edition, you must install DB2 Universal Database before you install DB2 Information Integrator. See the installation documentation for the DB2 Universal Database edition that you are installing for instructions.
- If DB2 Universal Database, Version 8.1 is installed, you must migrate to a supported edition and version before you install DB2 Information Integrator. For

instructions on installing DB2 Information Integrator fix packs, see the DB2 Information Integrator Support site at www.ibm.com/software/data/integration/db2ii/support.html.

- You must have root authority to perform the installation.
- If you are installing DB2 Universal Database from a compressed file, you must decompress the file before you begin your installation.

Restrictions:

DB2 Information Integrator products and components must be installed on the same server.

DB2 Universal Database domain users are not supported. The DB2 Universal Database user ID and password that you use must be local.

Procedure:

To install the DB2 Information Integrator on a UNIX system:

1. Log on to the system with a user ID that has root authority.
2. Close all open programs so that the DB2 Information Integrator installation wizard can update files as required.
3. Mount the DB2 Information Integrator CD or navigate to the directory that you are installing DB2 Information Integrator from.
4. At the prompt, enter the following command to start the DB2 Information Integrator launchpad:

   ```
   ./iisetup [-nolp] [-fontsize n]
   ```

   Optional: Use the -nolp parameter to open the installation wizard without opening the launchpad.

   Optional: Use the -fontsize parameter to specify the font size of the text in the installation wizard. The value that you specify must be between 8 and 72. The default font size is 12.

   n is the font size. For example, `./iisetup -fontsize 20`.
5. Click **Install Products** and follow the instructions in the wizard. If you used the -nolp parameter, this step is not necessary.
6. After DB2 Information Integrator is installed, set the DB2 license policy for the wrappers that you installed.
7. Enter the following command from a DB2 command line to enable the federated server to access data sources.

   ```
   UPDATE DATABASE MANAGER CONFIGURATION USING FEDERATED YES
   ```
8. Configure access to the data sources that you installed.
9. Optional: Install the complementary products and components that you want to use.

Related concepts:

- "DB2 Information Integrator Nonrelational Wrappers" on page 6
- "DB2 Universal Database" on page 5
- "DB2 Information Integrator Relational Wrappers" on page 7
- "Fast track to configuring your data sources" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "KEGG user-defined functions - overview" on page 8
- "Life sciences user-defined functions - overview" on page 7

Related tasks:

- "Mounting the CD-ROM (AIX)" in the *Quick Beginnings for DB2 Servers*
- "Mounting the CD-ROM (HP-UX)" in the *Quick Beginnings for DB2 Servers*
- "Mounting the CD-ROM (Linux)" in the *Quick Beginnings for DB2 Servers*
- "Installing database partition servers on participating computers using a response file (UNIX)" in the *Quick Beginnings for DB2 Servers*
- "Setting the DB2 license policy using the db2licm command" in the *Installation and Configuration Supplement*
- "Setting the DB2 license policy using the License Center" in the *Installation and Configuration Supplement*
- "Mounting the CD-ROM (Solaris Operating Environment)" in the *Quick Beginnings for DB2 Servers*
- "Enabling error logging for the DB2 Information Integrator installation wizard" on page 80
- "Editing the Oracle genclntsh script and creating the libclntsh file after you install DB2 Information Integrator (HP-UX, Linux, Solaris)" on page 57
- "Installing the DataDirect Technologies Connect ODBC driver (UNIX)" on page 54
- "Installing DB2 Information Integrator fix packs" on page 62
- "Editing the Oracle genclntsh script and creating the libclntsh file before you install DB2 Information Integrator (HP-UX, Linux, Solaris)" on page 53
- "Adding data sources to a federated server using the DB2 UDB Control Center" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "Creating a federated database" in the *IBM DB2 Information Integrator Data Source Configuration Guide*

Related reference:

- "Prerequisites for installing DB2 Information Integrator Relational Wrappers" on page 43
- "Environment variables for DB2 Information Integrator" on page 46

Editing the Oracle genclntsh script and creating the libclntsh file after you install DB2 Information Integrator (HP-UX, Linux, Solaris)

Complete this task if you did not edit the genclntsh script before you installed DB2 Information Integrator.

If you use the following configuration, your DB2 federated instance will fail when you attempt any remote operation that includes Oracle and the NET8 wrapper:

- The Oracle 9i client
- The Oracle NET8 wrapper
- A federated server that runs the HP-UX, Linux, or Solaris operating system

Prerequisites:

Back up the following files:

- HP-UX 32-bit: $ORACLE_HOME/bin/genclntsh, $ORACLE_HOME/lib/libclntsh.sl.9.0, $ORACLE_HOME/lib/libclntst9.a

- HP-UX 64-bit: $ORACLE_HOME/lib32/libclntsh.sl.9.0, $ORACLE_HOME/lib32/libclntst9.a
- Linux 32-bit: $ORACLE_HOME/bin/genclntsh, $ORACLE_HOME/lib/libclntsh.so.9.0, $ORACLE_HOME/lib/libclntst9.a
- Linux 64-bit: $ORACLE_HOME/lib32/libclntsh.so.9.0, $ORACLE_HOME/lib32/libclntst9.a
- Solaris 32-bit: $ORACLE_HOME/bin/genclntsh, $ORACLE_HOME/lib/libclntsh.so.9.0, $ORACLE_HOME/lib/libclntst9.a
- Solaris 64-bit: $ORACLE_HOME/lib32/libclntsh.so.9.0. $ORACLE_HOME/lib32/libclntst9.a

Procedure:

To edit the genclntsh script and create the libclntsh file after you install DB2 Information Integrator:

1. In a text editor, open the $ORACLE_HOME/bin/genclntsh script.

   On HP-UX, add -Bsymbolic to the link line. For example:

   ```
   LD="ld -v -G -b +s -L${ORACLE_HOME}/${LIB} -Bsymbolic"
   # shared library link command
   ```

   On Linux, add -Wl,-Bsymbolic to the link line. For example:

   ```
   LD="gcc -shared -Wl,-relax -L${ORACLE_HOME}/lib -Wl,-Bsymbolic"
   # shared library link command
   ```

   On Solaris, add -Bsymbolic to the link line. For example:

   ```
   LD="ld -m -i -G -z text -L${ORACLE_HOME}/${LIB} -Bsymbolic"
   # shared library link command
   ```

2. Run the genclntsh script from a command prompt to create the libclntsh file.
3. Run the djxlinkOracle script from a command prompt to update the Oracle wrapper library.
4. Run the db2iupdt command on each DB2 instance to enable federated access to the data sources.

Related tasks:

- "Installing DB2 Information Integrator (UNIX)" on page 55
- "Editing the Oracle genclntsh script and creating the libclntsh file before you install DB2 Information Integrator (HP-UX, Linux, Solaris)" on page 53

Installing the DB2 Information Center using the DB2 Setup wizard (UNIX)

DB2 product documentation can be accessed in three ways: on the IBM Web site, on an intranet server, or on a version installed on your computer. By default, DB2 products access DB2 documentation on the IBM Web site. If you want to access the DB2 documentation on an intranet server or on your own computer, you must install the documentation from the *DB2 Information Center CD*. Using the DB2 Setup wizard, you can define your installation preferences and install the DB2 Information Center on a computer that uses a UNIX operating system.

Prerequisites:

This section lists the hardware, operating system, software, and communication requirements for installing the DB2 Information Center on UNIX computers.

- **Hardware requirements**

You require one of the following processors:
  - PowerPC (AIX)
  - HP 9000 (HP-UX)
  - Intel 32–bit (Linux)
  - Solaris UltraSPARC computers (Solaris Operating Environment)
- **Operating system requirements**

  You require one of the following operating systems:
  - IBM AIX 5.1 (on PowerPC)
  - HP-UX 11i (on HP 9000)
  - Red Hat Linux 8.0 (on Intel 32–bit)
  - SuSE Linux 8.1 (on Intel 32–bit)
  - Sun Solaris Version 8 (on Solaris Operating Environment UltraSPARC computers)

  Note: The DB2 Information Center runs on a subset of the UNIX operating systems on which DB2 clients are supported. It is therefore recommended that you either access the DB2 Information Center from the IBM Web site, or that you install and access the DB2 Information Center on an intranet server.
- **Software requirements**
  - The following browser is supported:
    - Mozilla Version 1.0 or greater
- The DB2 Setup wizard is a graphical installer. You must have an implementation of the X Window System software capable of rendering a graphical user interface for the DB2 Setup wizard to run on your computer. Before you can run the DB2 Setup wizard you must ensure that you have properly exported your display. For example, enter the following command at the command prompt:

  ```
  export DISPLAY=9.26.163.144:0.
  ```
- **Communication requirements**
  - TCP/IP

Procedure:

To install the DB2 Information Center using the DB2 Setup wizard:

1. Log on to the system.
2. Insert and mount the DB2 Information Center product CD on your system.
3. Change to the directory where the CD is mounted by entering the following command:

   ```
   cd /cd
   ```

   where */cd* represents the mount point of the CD.
4. Enter the **./db2setup** command to start the DB2 Setup wizard.
5. The IBM DB2 Setup Launchpad opens. To proceed directly to the installation of the DB2 Information Center, click **Install Product**. Online help is available to guide you through the remaining steps. To invoke the online help, click **Help**. You can click **Cancel** at any time to end the installation.
6. On the **Select the product you would like to install** page, click **Next**.
7. Click **Next** on the **Welcome to the DB2 Setup wizard** page. The DB2 Setup wizard will guide you through the program setup process.

8. To proceed with the installation, you must accept the license agreement. On the **License Agreement** page, select **I accept the terms in the license agreement** and click **Next**.
9. Select **Install DB2 Information Center on this computer** on the **Select the installation action** page. If you want to use a response file to install the DB2 Information Center on this or other computers at a later time, select **Save your settings in a response file**. Click **Next**.
10. Select the languages in which the DB2 Information Center will be installed on **Select the languages to install** page. Click **Next**.
11. Configure the DB2 Information Center for incoming communication on the **Specify the DB2 Information Center port** page. Click **Next** to continue the installation.
12. Review the installation choices you have made in the **Start copying files** page. To change any settings, click **Back**. Click **Install** to copy the DB2 Information Center files onto your computer.

You can also install the DB2 Information Center using a response file.

The installation logs `db2setup.his`, `db2setup.log`, and `db2setup.err` are located, by default, in the `/tmp` directory.

The `db2setup.log` file captures all DB2 product installation information, including errors. The `db2setup.his` file records all DB2 product installations on your computer. DB2 appends the `db2setup.log` file to the `db2setup.his` file. The `db2setup.err` file captures any error output that is returned by Java, for example, exceptions and trap information.

When the installation is complete, the DB2 Information Center will be installed in one of the following directories, depending upon your UNIX operating system:

- AIX: /usr/opt/db2_08_01
- HP-UX: /opt/IBM/db2/V8.1
- Linux: /opt/IBM/db2/V8.1
- Solaris Operating Environment: /opt/IBM/db2/V8.1

Related concepts:

- "DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "DB2 Information Center installation scenarios" in the *Infrastructure Topics (DB2 Common Files)*

Related tasks:

- "Installing DB2 using a response file (UNIX)" in the *Installation and Configuration Supplement*
- "Updating the DB2 Information Center installed on your computer or intranet server" on page 63
- "Displaying topics in your preferred language in the DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "Invoking the DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "Installing the DB2 Information Center using the DB2 Setup wizard (Windows)" on page 50

Adding relational wrappers, nonrelational wrappers, and user-defined functions to your DB2 Information Integrator system

If you need to add relational wrappers, nonrelational wrappers, or user-defined functions to your system after you install DB2 Information Integrator, you can run the installation wizard again to add them. The installation wizard will detect that a supported edition and version of DB2 Universal Database is installed. Ensure that the wrappers and user-defined functions that you want to install are supported for use on your operating system.

Procedure:

To add relational wrappers, nonrelational wrappers, and user-defined functions to your DB2 Information Integrator system:

1. Follow the procedure for installing DB2 Information Integrator on your operating system:
   - Installing DB2 Information Integrator (Windows)
   - Installing DB2 Information Integrator (UNIX)
2. Configure the wrappers and user-defined functions that you installed.

Related concepts:

- "Fast track to configuring your data sources" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "Fast track to configuring your data sources" in the *IBM DB2 Information Integrator Data Source Configuration Guide*
- "KEGG user-defined functions - overview" on page 8
- "Life sciences user-defined functions - overview" on page 7

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55
- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

Changing to a different edition of DB2 Information Integrator

Before you change from one edition of DB2 Information Integrator to another, you must remove the existing DB2 Information Integrator license key and add the new DB2 Information Integrator license key to your system. If you change to DB2 Information Integrator Replication Edition, you must remove any nonrelational wrappers or user-defined functions that are installed.

The license files for DB2 Information Integrator are:

DB2 Information Integrator Edition	License file name
DB2 Information Integrator Replication Edition and DB2 Information Integrator Event Publisher Edition	db2iire.lic
DB2 Information Integrator Standard Edition	db2iise.lic
DB2 Information Integrator Advanced Edition	db2iiae.lic
DB2 Information Integrator Advanced Edition Unlimited	db2iiue.lic

DB2 Information Integrator Edition	License file name
DB2 Information Integrator Developer Edition	db2iide.lic

Prerequisites:

You must have administrator authority to remove the DB2 Information Integrator license key.

Procedure:

To change to a different edition of DB2 Information Integrator:

1. Log on to the system with a user ID that has administrator authority on the DB2 instance.
2. Close all open programs so that the DB2 Information Integrator installation program can update files as required.
3. From a command prompt, change to the directory where the DB2 License Manager is installed.

   By default, the DB2 License Manager is installed in the one of the following directories, depending on your operating system:

   - AIX: /usr/opt/db2_08_01/adm
   - HP-UX, Linux, Solaris: /opt/IBM/db2/V8.1/adm
   - Windows: \Program Files\IBM\SQLLIB\bin
4. Enter the following command to remove the previous DB2 Information Integrator license key from your system:

   ```
   db2licm -r db2ii
   ```
5. Follow the procedure for installing DB2 Information Integrator. Read the license agreement carefully when you run the installation wizard. You do not need to install any products or components to register the DB2 Information Integrator product license key.

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Removing the DB2 Information Integrator and DB2 product license keys" on page 82
- "Removing relational wrappers, nonrelational wrappers, and life sciences user-defined functions (Windows)" on page 83
- "Removing wrappers, user-defined functions, and the wrapper development kits (UNIX)" on page 83

Installing DB2 Information Integrator fix packs

DB2 Information Integrator fix packs contain updates, fixes for problems and updates that are based on Authorized Program Analysis Reports (APARs). APARs are problems that are found during internal testing at IBM. The APARLIST.TXT file accompanies every fix pack. The APARLIST.TXT file describes the problem fixes that are contained in the fix pack. Each fix pack contains all of the updates from previous fix packs for the same version of DB2 Information Integrator.

Procedure:

To obtain the latest DB2 Information Integrator fix pack, go to the DB2 Information Integrator support Web site at www.ibm.com/software/data/integration/db2ii/support.html.

Follow the instructions on the Web site to install the fix pack.

Related reference:

- "DB2 Universal Database Version 8.1.2 or later is installed" on page 26
- "DB2 Universal Database Version 8.2 Fix Pack 8 or later is installed" on page 24

Updating the DB2 Information Center installed on your computer or intranet server

The DB2 Information Center available from http://publib.boulder.ibm.com/infocenter/db2help/ will be periodically updated with new or changed documentation. IBM may also make DB2 Information Center updates available to download and install on your computer or intranet server. Updating the DB2 Information Center does not update DB2 client or server products.

Prerequisites:

You must have access to a computer that is connected to the Internet.

Procedure:

To update the DB2 Information Center installed on your computer or intranet server:

1. Open the DB2 Information Center hosted on the IBM Web site at: http://publib.boulder.ibm.com/infocenter/db2help/
2. In the Downloads section of the welcome page under the Service and Support heading, click the **DB2 Universal Database documentation** link.
3. Determine if the version of your DB2 Information Center is out of date by comparing the latest refreshed documentation image level to the documentation level you have installed. The documentation level you have installed is listed on the DB2 Information Center welcome page.
4. If a more recent version of the DB2 Information Center is available, download the latest refreshed *DB2 Information Center* image applicable to your operating system.
5. To install the refreshed *DB2 Information Center* image, follow the instructions provided on the Web page.

Related concepts:

- "DB2 Information Center installation scenarios" in the *Infrastructure Topics (DB2 Common Files)*

Related tasks:

- "Invoking the DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "Installing the DB2 Information Center using the DB2 Setup wizard (UNIX)" on page 58

- "Installing the DB2 Information Center using the DB2 Setup wizard (Windows)" on page 50

Chapter 4. Installing the wrapper development kit

The following topics describe how to install the wrapper development kit for use with DB2 Information Integrator.

Wrapper development kit

DB2® Information Integrator includes a software development kit (SDK) for developing wrappers in C++ and Java™.

The wrapper development kit contains:

- Sample C++ wrapper
- Sample Java wrapper
- Tools and samples for adding wrappers to the DB2 Control Center

The default Windows® directory path is `C:\Program Files\IBM\SQLLIB`. %DB2PATH% is the environment variable that is used to specify the directory path where DB2 Information Integrator is installed on Windows.

Sample C++ wrapper

Table 13 shows which directory for each platform where the sample C++ wrapper is located.

Table 13. Directory for sample C++ wrapper by platform

Platform	Wrapper installation directory
AIX®	`/usr/opt/db2_08_01/samples/wrapper_sdk`
HP/Sun/Linux	`/opt/IBM/db2/V8.1/samples/wrapper_sdk`
Windows	`%DB2PATH%\samples\wrapper_sdk`

The sample C++ wrapper contains:

- Header files showing the wrapper APIs (wrapper class declarations)
- A file that allows a wrapper to be linked with the federated server
- The wrapper common library (a stub library provided that loads and invokes the custom wrapper's libraries)
- Sample wrapper source code used to demonstrate the use of the C++ API for developing wrappers
- A sample makefile to build the sample wrapper

Sample Java wrapper

Table 14 shows which directory for each platform where the sample Java wrapper is located.

Table 14. Directory for sample Java wrapper by platform

Platform	Wrapper installation directory
AIX	`/usr/opt/db2_08_01/samples/wrapper_sdk_java`
HP/Sun/Linux	`/opt/IBM/db2/V8.1/samples/wrapper_sdk_java`

Table 14. Directory for sample Java wrapper by platform (continued)

Platform	Wrapper installation directory
Windows	`%DB2PATH%\samples\wrapper_sdk_java`

The sample Java wrapper contains:

- Javadoc describing the Java API classes and methods
- Sample wrapper source code used to demonstrate the use of the Java API for developing wrappers

Tools and samples for adding wrappers to the DB2 Control Center

The wrapper development kit includes tools and sample files to help you add support for custom wrappers to the DB2 Control Center:

- The Develop XML Configuration File wizard, which creates a configuration file for adding a custom wrapper to the options in the DB2 Control Center. Table 15 shows which directory contains the file that starts the wizard for each platform.

Table 15. Directory for starting the Develop XML Configuration File wizard by platform

Platform	Wrapper installation directory
AIX	`/usr/opt/db2_08_01/lib/db2wrapperconfig`
HP/Sun/Linux	`/opt/IBM/db2/V8.1/lib/db2wrapperconfig`
Windows	`%DB2PATH%\bin\db2wrapperconfig.bat`

- Sample output files from the Develop XML Configuration File wizard. Table 16 shows which directory contains the sample output files for each platform.

Table 16. Directory for sample output files from the Develop XML Configuration File wizard by platform

Platform	Wrapper installation directory
AIX	`/usr/opt/db2_08_01/samples/wrapper_sdk/cc_plugin`
HP/Sun/Linux	`/opt/IBM/db2/V8.1/samples/wrapper_sdk/cc_plugin`
Windows	`%DB2PATH%\samples\wrapper_sdk\cc_plugin`

- A basic discovery tool, which you can use if you want the wrapper to support the DB2 Control Center's discovery feature. The tool is a simple Java GUI that displays whatever has been discovered for the wrapper's data source. This tool is also included with the DB2 Control Center. Table 17 shows which directory provides the tool as a Java `.jar` file for each platform.

Table 17. Directory for basic discovery tool by platform

Platform	Wrapper installation directory
AIX	`/usr/opt/db2_08_01/tools/db2WrapperDiscoverySDK.jar`
HP/Sun/Linux	`/opt/IBM/db2/V8.1/tools/db2WrapperDiscoverySDK.jar`
Windows	`%DB2PATH%\tools\db2WrapperDiscoverySDK.jar`

- The sample Java stored procedure provided here is an example of how the build-in discovery can help the wrapper writer to develop the plug-in to the Control Center. Table 18 on page 67 shows which directory contains the stored procedure, a makefile to compile the stored procedure, and a script to install the markup file into the federated server.

Table 18. Directory for sample Java stored procedure by platform

Platform	Wrapper installation directory
AIX	`/usr/opt/db2_08_01/samples/wrapper_sdk\cc_plugin`
HP/Sun/Linux	`/opt/IBM/db2/V8.1/samples/wrapper_sdk\cc_plugin`
Windows	`%DB2PATH%\samples\wrapper_sdk\cc_plugin`

Related concepts:

- "Wrapper development process" in the *IBM DB2 Information Integrator Wrapper Developer's Guide*
- "Typical procedure for developing a wrapper" in the *IBM DB2 Information Integrator Wrapper Developer's Guide*

Related tasks:

- "Adding data sources to the DB2 Control Center" in the *IBM DB2 Information Integrator Wrapper Developer's Guide*
- "Installing the wrapper development kit" on page 67

Installing the wrapper development kit

Use this procedure to install the software development kit (SDK) for developing wrappers in C++ and Java.

To install the wrapper development kit, you must install one of the following products with the specified server installation.

Product	Type of server installation
DB2 Application Development Client	Typical and Compact
DB2 Universal Database Enterprise Server Edition	Custom
DB2 Universal Database Connect Enterprise Edition	Custom

Procedure:

To install the wrapper development kit:

1. In the DB2 Setup wizard, click **Install Products**. Follow the instructions in the wizard until you see the ″Select the features you want to install″ page. Select the server installation type that is appropriate for the product that you are installing.
2. Expand the **Application Development tools** tree.
3. Click **Base Application Development Tools**, and select an installation option from the drop-down list.
4. Optional: To install the sample wrapper, click **Sample Applications**, and select an installation option from the drop-down list.
5. Follow the instructions in the wizard to complete the installation.

Related concepts:

- "Wrapper development kit" on page 65

Related tasks:

- "Installing DB2 clients (Windows)" in the *Quick Beginnings for DB2 Clients*
- "Installing DB2 clients (UNIX)" in the *Quick Beginnings for DB2 Clients*
- "Adding the wrapper development kit to a system where DB2 Universal Database is installed (Windows)" on page 68
- "Installing DB2 Information Integrator (Windows)" on page 47

Adding the wrapper development kit to a system where DB2 Universal Database is installed (Windows)

If DB2 Universal Database Version 8.2 or later is installed on your system, you can install the software development kit (SDK) for developing wrappers in C++ and Java without reinstalling DB2 Universal Database. If an earlier version is installed, migrate or upgrade to DB2 Universal Database Version 8.2 or later to install wrapper development kit.

Procedure:

To add the wrapper development kit to a system where DB2 Universal Database is installed:

1. Stop all of the DB2 services that are running.
2. Click **Start —> Settings —> Control Panel —> Add/Remove Programs**.
3. In the Currently installed programs window, click **DB2 Enterprise Server Edition**, and click **Change**. The DB2 Setup wizard opens.
4. Click **Next**. The Program Maintenance page opens.
5. Click **Modify**.
6. Click **Next**. The "Select the features you want to install" page opens.
7. Expand the **Application Development tools** tree.
8. Click **Base Application Development Tools**, and select an installation option from the drop-down list.
9. Optional: To install the sample wrapper, click **Sample Applications**, and select an installation option from the drop-down list.
10. Follow the instructions in the wizard to complete the installation.

Related tasks:

- "Installing DB2 clients (Windows)" in the *Quick Beginnings for DB2 Clients*
- "Installing DB2 clients (UNIX)" in the *Quick Beginnings for DB2 Clients*
- "Installing the wrapper development kit" on page 67
- "Installing DB2 Information Integrator (Windows)" on page 47

Adding the wrapper development kit to a system with DB2 Universal Database installed (UNIX)

If DB2 Universal Database Version 8.2 or later is installed on your system, you can install the software development kit (SDK) for developing wrappers in C++ and Java without reinstalling DB2 Universal Database. If an earlier version is installed, migrate or upgrade to DB2 Universal Database Version 8.2 or later to install wrapper development kit.

Prerequisites:

Before you install a DB2 Universal Database client on UNIX:

- Ensure that your system meets all of the memory, hardware, and software requirements to install your DB2 product.
- If you are installing a DB2 Universal Database client on Solaris or HP-UX, update your kernel configuration parameters and restart your system.

Procedure:

To add the wrapper development kit to a system with DB2 Universal Database installed:

1. Log in as a user with root authority.
2. Insert and mount the appropriate CD.
3. Change to the directory where the CD is mounted by entering the `cd /cdrom` command where `/cdrom` is the CD mount point.
4. Enter the following command at a command prompt:

   ```
   ./db2setup
   ```

   The DB2 Setup wizard opens.
5. Click **Install Products**. The "Select the products you want to install" page opens.
6. Expand the **Application Development tools** tree.
7. Click **Base Application Development Tools**, and select an installation option from the drop-down list.
8. Optional: To install the sample wrapper, click **Sample Applications**, and select an installation option from the drop-down list.
9. Follow the instructions in the wizard to complete the installation.

Related tasks:

- “Adding the wrapper development kit to a system where DB2 Universal Database is installed (Windows)” on page 68
- “Installing the wrapper development kit” on page 67

Chapter 5. Installing the XML Metadata Registry

The following topics describe how to install the DB2 XML Metadata Registry.

Installing the XML Metadata Registry - overview

This procedure describes the basic tasks for installing the XML Metadata Registry. The tasks are explained in greater detail in other topics.

Security requirement: The global security features of the application server for DB2 are enabled when the XML Metadata Registry is installed. After the XML Metadata Registry is installed, all of the applications on the application server for DB2 and the remote administration procedures must have a user ID and password to connect to the application server for DB2.

Prerequisites:

Ensure that your system meets the hardware and software requirements for installing the application server for DB2 and the XML Metadata Registry.

Procedure:

To install the XML Metadata Registry:

1. Install the application server for DB2.
2. Create the XMR database and run the deployXMR command to install the DB2 XML Metadata Registry.

Related tasks:

- "Installing the application server for DB2" on page 71
- "Installing the XML Metadata Registry" on page 74

Related reference:

- "Hardware requirements for DB2 Information Integrator" on page 29
- "Supported operating systems for DB2 Information Integrator (32-bit)" on page 33
- "Software requirements for DB2 Information Integrator" on page 32
- "Supported operating systems for DB2 Information Integrator (64-bit)" on page 37
- "Supported Web browsers for the DB2 XML Metadata Registry" on page 41

Installing the application server for DB2

The application server for DB2 provides an embedded application server. This enables DB2-supplied Web applications to run without relying on an application server to be installed separately.

The application server for DB2 is available on one of two CDs:

- CD1 *DB2 Embedded Application Server and applications (XML registry, Web Administration tools and Java distributed debugger)* for Linux (x86, 32-bit) , Linux (iSeries and pSeries), Linux (S/390, zSeries), and Windows 32-bit.
- CD2 *DB2 Embedded Application Server and applications (XML registry, Web Administration tools and Java distributed debugger)* for AIX (32–bit), HP-UX, and Solaris Operating Environment.

The embedded application server is not supported on AIX 4.3.3.

Once the application server for DB2 is installed, you can start and stop it independent from DB2 using the **startServer** and **stopServer** commands in the *AppServer_install_path*/bin. The Web Administration Tools provided with DB2 can use the embedded application server.

Prerequisites:

Before you install the application server for DB2, ensure the following:

- DB2 ESE Version 8.2 or higher.
- At least one DB2 instance exists.

Restrictions:

The following restriction is for Red Hat Linux only.

The default Red Hat installation creates an association between the hostname of the machine and the loopback address, 127.0.0.1. In addition, the /etc/nsswitch.conf file is set up to use /etc/hosts before trying to look up the server using a name server (DNS). This loopback processing can hang utilities that start and stop a server, such as startServer.sh, even though the server might successfully start or stop.

Ensure that the host name is defined properly. The default configuration has localhost defined in the /etc/hosts file. The default /etc/nsswitch.conf looks only at the host file and not the DNS server.

To correct this problem, remove the 127.0.0.1 mapping to localhost in the /etc/hosts file, or, edit the name service configuration file /etc/nsswitch.conf to resolve the proper host name by using the name server. For example, remove the 127.0.0.1 mapping from the /etc/hosts file, which might look like this example:

```
# IP Address name of machine
n.n.n.n  hostname.domain.com
127.0.0.1 localhost
```

Otherwise, change the etc/nsswitch.conf file to search DNS before searching the hosts file. For example, hosts : dns files

Procedure:

To install the application server for DB2, perform the following:

1. Log on to the DB2 server as **root** on UNIX operating systems, or as a user with **Administrator** privileges on Windows operating systems.
2. For UNIX-based operating systems run the following command:

   ```
   . /db2instance_path/sqllib/db2profile
   ```

   where *db2instance_path* is where the DB2 instance was created.

3. Run the following command:

```
db2appserverinstall
     -asroot absolute_path_for_App_Server_install
     -hostname hostname
```

   where *absolute_path_for_App_Server_install* is where you will install the application server for DB2 and *hostname* is the hostname of the machine.

4. If the installation succeeds, the following message will be returned:

```
EAS001 installation successful.
```

   If the installation fails, an error message will be returned. All messages are written to a log file as follows:

   - On UNIX operating systems, the log file is located in `/tmp/easInstall.log`.
   - On Windows operating systems, the log file is located in `c:\%TEMP%\easInstall.log`.

Notes:

1. The default port used in the installation is **20000**. However, if you wish to use another port instead, edit the `UpdateExpressDB2Ports.bat` or the `UpdateExpressDB2Ports.sh` file with the port number that you wish to use and then run the **UpdateExpressPorts** command.
2. You must restart the application server for the port number change to take effect.
3. If you change the port values, remote administration will not be supported.

Once the application server for DB2 is installed, you can install DB2 Web Tools, enable the database for remote administration, or both. If you install DB2 Web Tools, you need to start the application server for DB2 locally. If you enable the application server for DB2, the application server starts automatically.

If you want your DB2 product to have access to DB2 documentation either on your local computer or on another computer on your network, then you must install the DB2 Information Center. The DB2 Information Center contains documentation for DB2 Universal Database and DB2 related products.

Related concepts:

- "DB2 Web Command Center" in the *Installation and Configuration Supplement*
- "DB2 Web Health Center" in the *Installation and Configuration Supplement*

Related tasks:

- "Deploying DB2 Web Tools on WebSphere application servers" in the *Installation and Configuration Supplement*
- "Uninstalling the application server for DB2" on page 86
- "Starting the application server for DB2 locally" in the *Installation and Configuration Supplement*
- "Stopping the application server for DB2 locally" in the *Installation and Configuration Supplement*
- "Enabling the application server for DB2" in the *Installation and Configuration Supplement*
- "Starting the application server for DB2 remotely" in the *Installation and Configuration Supplement*

Installing the XML Metadata Registry

The DB2 XML Metadata Registry installer is placed in the *RootAppServDB2*\xmr\bin directory when you install the application server for DB2. *RootAppServDB2* is the root directory of the application server for DB2. The XML Metadata Registry must be installed on the same server as DB2 Universal Database and the application server for DB2.

Security requirement: The global security features of the application server for DB2 are enabled when the XML Metadata Registry is installed. After the XML Metadata Registry is installed, all of the applications on the application server for DB2 and the remote administration procedures must have a user ID and password to connect to the application server for DB2.

Prerequisites:

- DB2 Universal Database, Version 8.2 and the application server for DB2 must be installed before you install the XML Metadata Registry.
- You need the following authority to install the XML Metadata Registry:
  - The user ID that you specify as the XML Metadata Registry administrator must have SYSADM authority for the XML Metadata Registry repository database. The user ID must also have execute privileges on stored procedures in the DB2EAS schema for the enabled database and SELECT, INSERT, UPDATE, and DELETE privileges on tables in the DB2EAS schema in the enabled database.
  - On a Windows system, the user ID that you use to install the XML Metadata Registry must have administrator authority.
  - On a UNIX system, the user ID that you use to install the XML Metadata Registry must have root authority.
- On UNIX systems, run the following command before you install the XML Metadata Registry:

  ```
  . /instance_home/sqllib/db2profile
  ```

  instance_home is the location of the DB2 instance that you want to use with the XML Metadata Registry.

Procedure:

To install the XML Metadata Registry:

1. Log on to the computer with the required authority.
2. Enter the following command at a prompt:

   ```
   db2set -all
   ```

   A list of DB2 Universal Database variables is displayed.
3. Record the values for the DB2_DOCHOST and DB2_DOCPORT variables.

   You must supply these values during the installation sequence, so that you can access the documentation from the XML Metadata Registry user interface. If the DB2_DOCHOST and DB2_DOCPORT variables are not displayed, the DB2 Information Center is not installed on your system. Install the information center on your system or specify the online information center at: http://publib.boulder.ibm.com/infocenter/db2help/index.jsp.
4. If you are not using an existing XMR repository database, enter the following command at a DB2 command prompt:

   ```
   create database xmr using codeset UTF-8 territory US
   ```

US represents the country or region code that you want to specify.

5. Run the **deployXMR** command.

   To use an existing XMR repository database, specify the -keepDB parameter for the deployXMR command. You can run the command from the \xmr\bin directory. The \xmr\bin directory is in the directory where you installed the application server for DB2. For example:

   ```
   deployXMR -u xmradmin -p p7sx9sa -s c:\program files\IBM\sqllib -doc
   publib.boulder.ibm.com/infocenter/db2help/index.jsp -ad myApplicationServerDB
   -language en_US
   ```

If you need to change the URL or port number of the information center for the XML Metadata Registry after the installation is complete, you must remove, and then reinstall the registry.

Related tasks:

- "Installing the application server for DB2" on page 71
- "Removing the XML Metadata Registry" on page 85

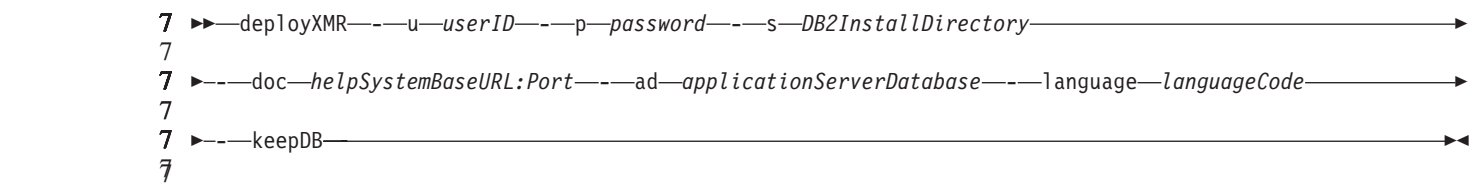
Related reference:

- "Supported Web browsers for the DB2 XML Metadata Registry" on page 41

deployXMR command syntax

Use the deployXMR command to install the DB2 XML Metadata Registry. The deployXMR command uses the following syntax.

Syntax



-u *userID*
: A user ID that has SYSADM access to the XML Metadata Registry repository database and the following authority on the enabled database:

  - Execute privileges on stored procedures in the DB2EAS schema for the enabled database
  - SELECT, INSERT, UPDATE, and DELETE privileges on tables in the DB2EAS schema in the enabled database

  You can log in to the registry with this user ID, and create additional administrators and users.

-p *password*
: The password for the user ID that you specify for the -u parameter.

-s *DB2InstallDirectory*
: The directory where DB2 Universal Database is installed.

-doc *helpSystemBaseURL:Port*
: The URL where the help system is installed and its port number. The default protocol is http://. If you do not specify a protocol, http:// is used. If you do not specify a port number, the default port number for the protocol is used. A port number must be specified if it is different from the

default port number for the protocol. The documentation for the XML Metadata Registry is part of the DB2 Universal Database Information Center. The information center can be installed locally from a separate CD that accompanies DB2 Universal Database, or you can specify the URL of the online information center:
publib.boulder.ibm.com/infocenter/db2help/index.jsp

To change the URL or port number of the information center as accessed by the XML Metadata Registry, you must remove and reinstall the registry.

-ad *applicationServerDatabase*
The name of the database that was enabled for the application server for DB2.

-language *languageCode*
Optional: The -language parameter specifies the language that is used in the DB2 XML Metadata Registry user interface. Specify the identifier for the language that you want the user interface to display in. If you do not use the language parameter, the user interface will display in the default language of the computer where you install the registry.

The language identifiers that are valid for this parameter are shown in the following table:

Language identifier	Language
zh_TW	Traditional Chinese
cs cs_CZ	Czech
da da_DK	Danish
de de_DE	German
en_US	English
es es_ES	Spanish
fi fi_FI	Finnish
fr fr_FR	French
it it_IT	Italian
ja ja_JP	Japanese
ko ko_KR	Korean
no no_NO	Norwegian
pl pl_PL	Polish
pt_BR	Brazilian Portuguese
ru ru_RU	Russian
sv sv_SE	Swedish
zh_CN	Simplified Chinese

-keepDB
Optional: Use this parameter to use an existing XML Metadata Registry repository database without initializing it as a new repository. If you do not specify this parameter, the XML Metadata Registry repository database is initialized as a new repository and the data that it contains is removed. If you specify this parameter, you must use the same user ID and password that you used to install the XML Metadata Registry.

Related tasks:

- "Installing the XML Metadata Registry" on page 74

Related reference:
- "Supported Web browsers for the DB2 XML Metadata Registry" on page 41

Chapter 6. Troubleshooting

This chapter describes some problems that you might encounter when you install DB2 Information Integrator and what to do about them.

Registering the DB2 Information Integrator product license key

If the DB2 Information Integrator product license key is not registered successfully during the installation process, you must register the key manually. You can use the db2licm command to register the DB2 Information Integrator product license key.

You must register a license key on each computer where DB2 Information Integrator is installed. The license file is located in the license directory of the DB2 Information Integrator installation software.

The license files for DB2 Information Integrator are:

- DB2 Information Integrator Replication Edition and DB2 Information Integrator Event Publisher Edition: db2iire.lic
- DB2 Information Integrator Standard Edition: db2iise.lic
- DB2 Information Integrator Advanced Edition: db2iiae.lic
- DB2 Information Integrator Advanced Edition Unlimited: db2iiue.lic
- DB2 Information Integrator Developer Edition: db2iide.lic

Procedure:

To register the DB2 Information Integrator product license key, enter the following command at a command prompt:

```
db2licm -a filename
```

filename is the full path and file name of your DB2 Information Integrator license file. For example:

```
db2licm -a d:\license\db2iiae.lic
```

d:\ is the drive where the DB2 Information Integrator CD is located.

Related tasks:

- "Registering the DB2 product license key using the db2licm command" in the *Installation and Configuration Supplement*
- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

Enabling error logging for the DB2 Information Integrator installation wizard

The iisetup.log file is created by default when you run the DB2 Information Integrator installation program. This file contains high-level information about any errors that you encounter when you install DB2 Information Integrator. The iisetup.log file is saved in the `%temp%\ii` directory on Windows systems and in the `/tmp/ii` directory on UNIX systems.

In addition to the iisetup.log file, you can create a log file that contains detailed information for debugging errors in the DB2 Information Integrator installation program, including Java exception stack traces and system error information. If the log file does not exist, it is created. If the log file exists, the error logging information is appended to the existing file.

Procedure:

To enable error logging for the DB2 Information Integrator installation program:

On a Windows system, enter the following command at a prompt:

```
iisetup.exe -is:log <logfilename> -debug
```

On a UNIX system, enter the following command at a prompt:

```
./iisetup -is:log logfilename -debug
```

logfilename is the complete path and file name for the log file. If a fully qualified file name is not specified, the log file might not contain all of the information that is necessary for debugging purposes. You can specify any name that you want for the file name. For example:

```
iisetup.exe -is:log c:\temp\ii\iisetup_debug.log -debug
```

Related tasks:

- "Installing DB2 Information Integrator (Windows)" on page 47
- "Installing DB2 Information Integrator (UNIX)" on page 55

Error logging in the XML Metadata Registry

Registry administrators can use the XML Metadata Registry log file to see more information about client and server errors. Error logging is automatically enabled when the registry is installed. Errors are written to the systemout.out log file in the logs directory of the application server for DB2®.

Related concepts:

- "Back up and recovery in the XML Metadata Registry" in the *DB2 XML Metadata Registry Help*
- "Administrators in the XML Metadata Registry" in the *DB2 XML Metadata Registry Help*

Chapter 7. Removing DB2 Information Integrator products and components

The following topics describe how to remove DB2 Information Integrator products and components from your system.

Removing DB2 Information Integrator

This topic describes the steps that are necessary to remove DB2 Information Integrator from your computer, including removing the product license key, relational wrappers, nonrelational wrappers, life sciences user-defined functions, and Q replication. To remove complementary products and components, see the documentation for those products.

If your entitlement to use DB2 Universal Database is restricted for use with your DB2 Information Integrator license, you must remove DB2 Universal Database when you remove DB2 Information Integrator. Your entitlement to use DB2 Universal Database is restricted for DB2 Information Integrator Replication Edition, DB2 Information Integrator Event Publisher Edition, and DB2 Information Integrator Standard Edition. You do not need to remove DB2 Universal Database Connect Enterprise Edition because it is not included with DB2 Information Integrator. See the *Installation and Configuration Supplement* for instructions for removing DB2 Universal Database from your system.

Prerequisites:

On UNIX, you must have root authority to remove relational wrappers and nonrelational wrappers.

Procedure:

To remove DB2 Information Integrator:

1. Remove the DB2 Information Integrator product license key. Q replication is disabled when you remove the DB2 Information Integrator license key. You must remove DB2 Universal Database to remove Q replication.
2. Remove relational wrappers, nonrelational wrappers, and life sciences user-defined functions if you installed them. The life sciences user-defined functions are a component of the nonrelational wrappers.
3. If your entitlement to use DB2 Universal Database is restricted for use with DB2 Information Integrator, remove DB2 Universal Database Enterprise Server Edition.

Related tasks:

- "Removing DB2 products using the db2_deinstall command (UNIX)" in the *Quick Beginnings for DB2 Servers*
- "Uninstalling DB2 UDB (Windows)" in the *Quick Beginnings for DB2 Servers*
- "Uninstalling DB2 UDB (UNIX)" in the *Quick Beginnings for DB2 Servers*
- "Removing the DB2 Information Integrator and DB2 product license keys" on page 82

- "Removing relational wrappers, nonrelational wrappers, and life sciences user-defined functions (Windows)" on page 83
- "Removing wrappers, user-defined functions, and the wrapper development kits (UNIX)" on page 83
- "Removing the wrapper development kit (Windows)" on page 84

Related reference:

- "Documentation for DB2 Information Integrator complementary products" on page 97

Removing the DB2 Information Integrator and DB2 product license keys

When you remove DB2 Information Integrator, you must remove the product license keys for DB2 Information Integrator and any of the complementary products that are installed.

You do not need to remove the license for DB2 Universal Database unless your entitlement to use DB2 Universal Database is restricted for use only with your DB2 Information Integrator license. Your entitlement to use DB2 is restricted for DB2 Information Integrator Replication Edition, DB2 Information Integrator Event Publisher Edition, and DB2 Information Integrator Standard Edition. The DB2 Information Integrator product license key must be removed manually. See the *Installation and Configuration Supplement* for detailed instructions for removing DB2 Universal Database from your system.

The license files for DB2 Information Integrator are:

- DB2 Information Integrator Replication Edition and DB2 Information Integrator Event Publisher Edition: db2iire.lic
- DB2 Information Integrator Standard Edition: db2iise.lic
- DB2 Information Integrator Advanced Edition: db2iiae.lic
- DB2 Information Integrator Advanced Edition Unlimited: db2iiue.lic
- DB2 Information Integrator Developer Edition: db2iide.lic

Procedure:

To remove the DB2 Information Integrator product license key:

1. From the DB2 Control Center, click **Tools —> License Center**. The License Center window opens.
2. In the **System name** field, specify the name of your system.
3. In the Installed products field, select **DB2 Information Integrator** *EdName* **Edition**.

   EdName is the name of the edition that is installed. For example, DB2 Information Integrator Advanced Edition.
4. Click **License —> Remove**.
5. In the Remove window, click **Yes** to remove the DB2 Information Integrator license.
6. In the Installed products field, select **DB2 Enterprise Server Edition**.
7. Click **License —> Remove**.
8. In the Remove window, click **Yes** to remove the DB2 Enterprise Server Edition license.

Related tasks:

- "Uninstalling DB2 UDB (Windows)" in the *Quick Beginnings for DB2 Servers*
- "Uninstalling DB2 UDB (UNIX)" in the *Quick Beginnings for DB2 Servers*
- "Removing DB2 Information Integrator" on page 81

Removing relational wrappers, nonrelational wrappers, and life sciences user-defined functions (Windows)

This task provides steps for removing relational wrappers, nonrelational wrappers, and life sciences user-defined functions from your Windows system. KEGG user-defined functions are part of the life sciences user-defined functions component of the nonrelational wrappers.

Nonrelational wrappers and life sciences user-defined functions are installed in components. Do not remove a component unless you are no longer using any of the wrappers or user-defined functions in that component. For example, do not remove the Application Data component if you are still using any of the wrappers that it contains, such as Entrez or Documentum.

Procedure:

To remove relational wrappers, nonrelational wrappers, and life sciences user-defined functions:

1. Stop all DB2 processes and services by using the Windows Services panel or by issuing a db2stop command.
2. In the Windows Control Panel, use the Add/Remove Programs window to remove the relational wrappers, nonrelational wrappers, and life sciences user-defined functions from your system. See the help for your operating system for more information about removing software products from your Windows operating system.

Related tasks:

- "Uninstalling DB2 UDB (Windows)" in the *Quick Beginnings for DB2 Servers*
- "Removing DB2 FixPaks" in the *Quick Beginnings for DB2 Servers*
- "Removing DB2 Information Integrator" on page 81

Removing wrappers, user-defined functions, and the wrapper development kits (UNIX)

This task provides the steps for removing relational wrappers, nonrelational wrappers, life sciences user-defined functions, and the wrapper development kit by using the native tools for your operating system. KEGG user-defined functions are part of the life sciences user-defined functions component of the nonrelational wrappers.

Nonrelational wrappers are installed in components. Do not remove a component unless you are no longer using any of the wrappers or user-defined functions in that component. For example, do not remove the Application Data component if you are still using any of the wrappers that it contains, such as Entrez or Documentum.

Prerequisites:

- You must have root authority to remove the DB2 Information Integrator components.
- Determine which file sets to remove by reviewing the `ComponentList.htm` file. For the wrappers and user-defined functions, the `ComponentList.htm` file is on the DB2 Information Integrator product CD in the following directory:

  `/cdrom/<platform>/<wrapperDir>/db2/<platform>/ComponentList.htm`

  For the wrapper development kit, the ComponentList.htm file is on the DB2 Universal Database Enterprise Server Edition CD, the DB2 Universal Database Connect Enterprise Edition CD, or the DB2 Universal Database Application Development Client CD in the following directory:

  `/cdrom/db2/<platform>/ComponentList.htm`

  – *cdrom* is where the CD is mounted.
  – *<platform>* is the directory name that corresponds to your platform.
  – *<wrapperDir>* is the directory that corresponds to the wrappers or wrapper development kits. The RCON directory corresponds to the relational wrappers and the LSDC directory corresponds to the nonrelational wrappers and user-defined functions.

Procedure:

To remove wrappers, user-defined functions, and the wrapper development kits:

1. Stop the DB2 Administration Server.
2. Stop DB2 instances.
3. Log in as user with root authority.

   Use one of the following methods to remove the wrappers, user-defined functions, and wrapper development kits from your system:
   - On AIX systems you can use the System Management Interface Tool (SMIT).
   - On HP-UX systems you can use the `swremove` command.
   - On Linux systems you can use the `rpm` command.
   - On Solaris, use the `pkgrm` command.

Related tasks:

- "Uninstalling DB2 UDB (UNIX)" in the *Quick Beginnings for DB2 Servers*
- "Removing DB2 FixPaks" in the *Quick Beginnings for DB2 Servers*
- "Removing DB2 Information Integrator" on page 81

Removing the wrapper development kit (Windows)

Use this procedure to remove the wrapper development kit from your Windows system.

Procedure:

To remove the wrapper development kit:

1. Stop all DB2 processes and services. This can be done by using the Windows Services panel or by issuing a `db2stop` command.
2. In the Windows Control Panel, click **Add/Remove Programs**. The Add/Remove Programs window opens.
3. Click **DB2 Enterprise Server Edition**, and click **Change**.
4. In the DB2 Setup wizard, click **Next**. The Program Maintenance page is displayed.

5. Select **Modify** and click **Next**.
6. In the "Select the features you want to install" page, expand the **Application Development tools** tree.
7. Click **Base Application Development Tools —> This feature will not be available.**
8. Click **Next** and follow the instructions in the wizard to complete the procedure.

Related tasks:

- "Removing DB2 Information Integrator" on page 81
- "Removing the DB2 Information Integrator and DB2 product license keys" on page 82
- "Removing wrappers, user-defined functions, and the wrapper development kits (UNIX)" on page 83

Removing the XML Metadata Registry

Use the undeployXMR command to remove the XML Metadata Registry from your computer.

Prerequisites:

- On a UNIX system, you must have root authority to the system where the XML Metadata Registry is installed. On a Windows system, you must have administrator authority.
- On UNIX systems, run the following command before you remove the XML Metadata Registry:

  ```
  . /instance_home/sqllib/db2profile
  ```

  instance_home is the location of the DB2 instance that you use with the XML Metadata Registry.

Procedure:

To remove the XML Metadata Registry from your computer:

1. Log on to the computer with the required authority.
2. Run the `undeployXMR` command. You can run the command from the /xmr/bin directory. The /xmr/bin directory is located in the directory where you installed the application server for DB2. The following command removes the XML Metadata Registry from your computer, but leaves the XMR repository database in tact. If you do not specify -keepDB, the repository database is removed with the XML Metadata Registry.

   ```
   undeployXMR -u xmradmin -p xiy9s0s -ad myApplicationServerDB -keepDB
   ```

Related tasks:

- "Installing the XML Metadata Registry" on page 74

Related reference:

- "undeployXMR command syntax" on page 85

undeployXMR command syntax

Use the undeployXMR command to remove the XML Metadata Registry from your computer. The undeployXMR command uses the following syntax.

Syntax

```
►►—undeployXMR—-u—userID—-p—password—-ad—applicationServerDatabase—-keepDB———————►◄
```

-u *userID*
The administrator user IDfor the XML Metadata Registry. It is the same user ID that was used in the deployXMR command.

-p *password*
The password for the user ID that you specify for the -u parameter.

-ad *applicationServerDatabase*
The name of the database that was enabled for the application server for DB2.

-keepDB
Optional: Use this parameter to preserve the XMR repository database. If you do not specify this parameter, the XMR database is removed from your system.

Related tasks:

- "Removing the XML Metadata Registry" on page 85

Uninstalling the application server for DB2

If the application server is no longer required for DB2-supplied Web applications, it can be removed from your system after it has been installed.

Restrictions:

The application server's uninstall program references DB2, therefore it should be invoked prior to the uninstalling DB2.

Procedure:

To uninstall the application server for DB2, perform the following:

1. Log on to the DB2 server as **root** on UNIX operating systems, or as a user with **Administrator** privileges on Windows operating systems.
2. For UNIX-based operating systems run the following command:
   ```
   ./db2instance_path/sqllib/db2profile
   ```
   where *db2instance_path* is where the DB2 instance was created.
3. Run the following command:
   ```
   AppServer_install_path/bin/db2appserveruninstall
   ```
   where the *AppServer_install_path* is the path where the application server for DB2 was installed.

Uninstalling DB2 Web Services Application from the application server for DB2

The DB2 Web Services Application was automatically installed when the application server for DB2 was enabled.

To uninstall the DB2 Web Services Application, enter the following command:

```
db2 "call db2eas.uninstallapp('DB2WebServices',[user_id,password],?,?)"
```

where:

- *user_id* is the user required to log on to the application server when global security is enabled in the application server for DB2.
- *password* is required to log on to the application server when global security is enabled in the application server for DB2.
- *?* is the output parameter message, used to return information such as error messages and warnings.
- *?* is the output parameter return code, used to return an integer return code used in error checking in calling applications.

Once the DB2 Web Services Application has been uninstalled, if you need to re-install it at a later time, enter the following command:

```
db2 "call db2eas.installApp('DB2WebServices',[user_id,password],?,?)"
```

where:

- *user_id* is the user required to log on to the application server when global security is enabled in the application server for DB2.
- *password* is required to log on to the application server when global security is enabled in the application server for DB2.
- *?* is the output parameter message, used to return information such as error messages and warnings.
- *?* is the output parameter return code, used to return an integer return code used in error checking in calling applications.

Related concepts:

- "DB2 Web Command Center" in the *Installation and Configuration Supplement*
- "DB2 Web Health Center" in the *Installation and Configuration Supplement*

Related tasks:

- "Deploying DB2 Web Tools on WebSphere application servers" in the *Installation and Configuration Supplement*
- "Installing the application server for DB2" on page 71
- "Starting the application server for DB2 locally" in the *Installation and Configuration Supplement*
- "Stopping the application server for DB2 locally" in the *Installation and Configuration Supplement*

Appendix. Technical documentation

You will find information about the following documentation for the following products in this appendix:

- DB2 Information Integrator
- Complementary products

DB2 Information Integrator documentation

This topic provides information about the documentation that is available for DB2 Information Integrator. The tables in this topic provide the official document title, form number, and location of each PDF book. To order a printed book, you must know either the official book title or the document form number. Titles, file names, and the locations of the DB2 Information Integrator release notes and installation requirements are also provided in this topic.

This topic contains the following sections:

- Accessing DB2 Information Integrator documentation
- Documentation for replication function on z/OS
- Documentation for event publishing function for DB2 Universal Database on z/OS
- Documentation for event publishing function for IMS and VSAM on z/OS
- Documentation for event publishing and replication function on Linux, UNIX, and Windows
- Documentation for federated function on z/OS
- Documentation for federated function on Linux, UNIX, and Windows
- Documentation for enterprise search on Linux, UNIX, and Windows
- Release notes and installation requirements

Accessing DB2 Information Integrator documentation

All DB2 Information Integrator books and release notes are available in PDF files from the DB2 Information Integrator Support Web site at www.ibm.com/software/data/integration/db2ii/support.html.

To access the latest DB2 Information Integrator product documentation, from the DB2 Information Integrator Support Web site, click on the Product Information link, as shown in Figure 7 on page 90.

Figure 7. Accessing the Product Information link from DB2 Information Integrator Support Web site

You can access the latest DB2 Information Integrator documentation, in all supported languages, from the Product Information link:

- DB2 Information Integrator product documentation in PDF files
- Fix pack product documentation, including release notes
- Instructions for downloading and installing the DB2 Information Center for Linux, UNIX, and Windows
- Links to the DB2 Information Center online

Scroll though the list to find the product documentation for the version of DB2 Information Integrator that you are using.

The DB2 Information Integrator Support Web site also provides support documentation, IBM Redbooks, white papers, product downloads, links to user groups, and news about DB2 Information Integrator.

You can also view and print the DB2 Information Integrator PDF books from the *DB2 PDF Documentation* CD.

To view or print the PDF documentation:

1. From the root directory of the *DB2 PDF Documentation* CD, open the `index.htm` file.
2. Click the language that you want to use.
3. Click the link for the document that you want to view.

Documentation about replication function on z/OS

Table 19. DB2 Information Integrator documentation about replication function on z/OS

Name	Form number	Location
ASNCLP Program Reference for Replication and Event Publishing	N/A	DB2 Information Integrator Support Web site
Introduction to Replication and Event Publishing	GC18-7567	DB2 Information Integrator Support Web site
Migrating to SQL Replication	N/A	DB2 Information Integrator Support Web site
Replication and Event Publishing Guide and Reference	SC18-7568	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Replication Installation and Customization Guide for z/OS	SC18-9127	DB2 Information Integrator Support Web site
SQL Replication Guide and Reference	SC27-1121	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Tuning for Replication and Event Publishing Performance	N/A	DB2 Information Integrator Support Web site
Tuning for SQL Replication Performance	N/A	DB2 Information Integrator Support Web site
Release Notes for IBM DB2 Information Integrator Standard Edition, Advanced Edition, and Replication for z/OS	N/A	• In the DB2 Information Center, **Product Overviews** > **Information Integration** > **DB2 Information Integrator overview** > **Problems, workarounds, and documentation updates** • DB2 Information Integrator Installation launchpad • DB2 Information Integrator Support Web site • The *DB2 Information Integrator* product CD

Documentation about event publishing function for DB2 Universal Database on z/OS

Table 20. DB2 Information Integrator documentation about event publishing function for DB2 Universal Database on z/OS

Name	Form number	Location
ASNCLP Program Reference for Replication and Event Publishing	N/A	DB2 Information Integrator Support Web site
Introduction to Replication and Event Publishing	GC18-7567	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Replication and Event Publishing Guide and Reference	SC18-7568	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Tuning for Replication and Event Publishing Performance	N/A	DB2 Information Integrator Support Web site
Release Notes for IBM DB2 Information Integrator Standard Edition, Advanced Edition, and Replication for z/OS	N/A	• In the DB2 Information Center, **Product Overviews** > **Information Integration** > **DB2 Information Integrator overview** > **Problems, workarounds, and documentation updates** • DB2 Information Integrator Installation launchpad • DB2 Information Integrator Support Web site • The *DB2 Information Integrator* product CD

Documentation about event publishing function for IMS and VSAM on z/OS

Table 21. DB2 Information Integrator documentation about event publishing function for IMS and VSAM on z/OS

Name	Form number	Location
Client Guide for Classic Federation and Event Publisher for z/OS	SC18-9160	DB2 Information Integrator Support Web site
Data Mapper Guide for Classic Federation and Event Publisher for z/OS	SC18-9163	DB2 Information Integrator Support Web site
Getting Started with Event Publisher for z/OS	GC18-9186	DB2 Information Integrator Support Web site
Installation Guide for Classic Federation and Event Publisher for z/OS	GC18-9301	DB2 Information Integrator Support Web site
Operations Guide for Event Publisher for z/OS	SC18-9157	DB2 Information Integrator Support Web site
Planning Guide for Event Publisher for z/OS	SC18-9158	DB2 Information Integrator Support Web site

Table 21. DB2 Information Integrator documentation about event publishing function for IMS and VSAM on z/OS (continued)

Name	Form number	Location
Reference for Classic Federation and Event Publisher for z/OS	SC18-9156	DB2 Information Integrator Support Web site
System Messages for Classic Federation and Event Publisher for z/OS	SC18-9162	DB2 Information Integrator Support Web site
Release Notes for IBM DB2 Information Integrator Event Publisher for IMS for z/OS	N/A	DB2 Information Integrator Support Web site
Release Notes for IBM DB2 Information Integrator Event Publisher for VSAM for z/OS	N/A	DB2 Information Integrator Support Web site

Documentation about event publishing and replication function on Linux, UNIX, and Windows

Table 22. DB2 Information Integrator documentation about event publishing and replication function on Linux, UNIX, and Windows

Name	Form number	Location
ASNCLP Program Reference for Replication and Event Publishing	N/A	DB2 Information Integrator Support Web site
Installation Guide for Linux, UNIX, and Windows	GC18-7036	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Introduction to Replication and Event Publishing	GC18-7567	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Migrating to SQL Replication	N/A	DB2 Information Integrator Support Web site
Replication and Event Publishing Guide and Reference	SC18-7568	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
SQL Replication Guide and Reference	SC27-1121	DB2 Information Integrator Support Web site
Tuning for Replication and Event Publishing Performance	N/A	DB2 Information Integrator Support Web site
Tuning for SQL Replication Performance	N/A	DB2 Information Integrator Support Web site

Table 22. DB2 Information Integrator documentation about event publishing and replication function on Linux, UNIX, and Windows (continued)

Name	Form number	Location
Release Notes for IBM DB2 Information Integrator Standard Edition, Advanced Edition, and Replication for z/OS	N/A	• In the DB2 Information Center, **Product Overviews** > **Information Integration** > **DB2 Information Integrator overview** > **Problems, workarounds, and documentation updates** • DB2 Information Integrator Installation launchpad • DB2 Information Integrator Support Web site • The *DB2 Information Integrator* product CD

Documentation about federated function on z/OS

Table 23. DB2 Information Integrator documentation about federated function on z/OS

Name	Form number	Location
Client Guide for Classic Federation and Event Publisher for z/OS	SC18-9160	DB2 Information Integrator Support Web site
Data Mapper Guide for Classic Federation and Event Publisher for z/OS	SC18-9163	DB2 Information Integrator Support Web site
Getting Started with Classic Federation for z/OS	GC18-9155	DB2 Information Integrator Support Web site
Installation Guide for Classic Federation and Event Publisher for z/OS	GC18-9301	DB2 Information Integrator Support Web site
Reference for Classic Federation and Event Publisher for z/OS	SC18-9156	DB2 Information Integrator Support Web site
System Messages for Classic Federation and Event Publisher for z/OS	SC18-9162	DB2 Information Integrator Support Web site
Transaction Services Guide for Classic Federation for z/OS	SC18-9161	DB2 Information Integrator Support Web site
Release Notes for IBM DB2 Information Integrator Classic Federation for z/OS	N/A	DB2 Information Integrator Support Web site

Documentation about federated function on Linux, UNIX, and Windows

Table 24. DB2 Information Integrator documentation about federated function on Linux, UNIX, and Windows

Name	Form number	Location
Application Developer's Guide	SC18-7359	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site

Table 24. DB2 Information Integrator documentation about federated function on Linux, UNIX, and Windows (continued)

Name	Form number	Location
C++ API Reference for Developing Wrappers	SC18-9172	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Data Source Configuration Guide	N/A	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Federated Systems Guide	SC18-7364	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Guide to Configuring the Content Connector for VeniceBridge	N/A	DB2 Information Integrator Support Web site
Installation Guide for Linux, UNIX, and Windows	GC18-7036	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Java API Reference for Developing Wrappers	SC18-9173	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Migration Guide	SC18-7360	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Wrapper Developer's Guide	SC18-9174	• *DB2 PDF Documentation* CD • DB2 Information Integrator Support Web site
Release Notes for IBM DB2 Information Integrator Standard Edition, Advanced Edition, and Replication for z/OS	N/A	• In the DB2 Information Center, **Product Overviews** > **Information Integration** > **DB2 Information Integrator overview** > **Problems, workarounds, and documentation updates** • DB2 Information Integrator Installation launchpad • DB2 Information Integrator Support Web site • The *DB2 Information Integrator* product CD

Documentation about enterprise search function on Linux, UNIX, and Windows

Table 25. DB2 Information Integrator documentation about enterprise search function on Linux, UNIX, and Windows

Name	Form number	Location
Administering Enterprise Search	SC18-9283	DB2 Information Integrator Support Web site
Installation Guide for Enterprise Search	GC18-9282	DB2 Information Integrator Support Web site
Programming Guide and API Reference for Enterprise Search	SC18-9284	DB2 Information Integrator Support Web site
Release Notes for Enterprise Search	N/A	DB2 Information Integrator Support Web site

Release notes and installation requirements

Release notes provide information that is specific to the release and fix pack level for your product and include the latest corrections to the documentation for each release.

Installation requirements provide information that is specific to the release of your product.

Table 26. DB2 Information Integrator Release Notes and Installation Requirements

Name	File name	Location
Installation Requirements for IBM DB2 Information Integrator Event Publishing Edition, Replication Edition, Standard Edition, Advanced Edition, Advanced Edition Unlimited, Developer Edition, and Replication for z/OS	Prereqs	• The *DB2 Information Integrator* product CD • DB2 Information Integrator Installation Launchpad
Release Notes for IBM DB2 Information Integrator Standard Edition, Advanced Edition, and Replication for z/OS	ReleaseNotes	• In the DB2 Information Center, **Product Overviews** > **Information Integration** > **DB2 Information Integrator overview** > **Problems, workarounds, and documentation updates** • DB2 Information Integrator Installation launchpad • DB2 Information Integrator Support Web site • The *DB2 Information Integrator* product CD
Release Notes for IBM DB2 Information Integrator Event Publisher for IMS for z/OS	N/A	DB2 Information Integrator Support Web site

Table 26. DB2 Information Integrator Release Notes and Installation Requirements (continued)

Name	File name	Location
Release Notes for IBM DB2 Information Integrator Event Publisher for VSAM for z/OS	N/A	DB2 Information Integrator Support Web site
Release Notes for IBM DB2 Information Integrator Classic Federation for z/OS	N/A	DB2 Information Integrator Support Web site
Release Notes for Enterprise Search	N/A	DB2 Information Integrator Support Web site

To view the installation requirements and release notes that are on the product CD:

- On Windows operating systems, enter:

  `x:\doc\%L`

  x is the Windows CD drive letter and *%L* is the locale of the documentation that you want to use, for example, `en_US`.
- On UNIX operating systems, enter:

  `/cdrom/doc/%L/`

  cdrom refers to the UNIX mount point of the CD and *%L* is the locale of the documentation that you want to use, for example, `en_US`.

Documentation for DB2 Information Integrator complementary products

This section lists the documentation for products that are complementary to DB2 Information Integrator.

IBM WebSphere documentation

Information about IBM WebSphere products is available from the WebSphere Developer Domain at www7b.boulder.ibm.com/wsdd/.

IBM Lotus Extended Search documentation

For information about IBM Lotus Extended Search, see the Lotus Extended Search site at www.lotus.com/products/des.nsf/wdocuments/resources.

Related concepts:

- "Complementary products and components for DB2 Information Integrator" on page 13

Accessibility

Accessibility features help users with physical disabilities, such as restricted mobility or limited vision, to use software products successfully. The following list specifies the major accessibility features in DB2® Version 8 products:

- All DB2 functionality is available using the keyboard for navigation instead of the mouse. For more information, see "Keyboard input and navigation."
- You can customize the size and color of the fonts on DB2 user interfaces. For more information, see "Accessible display."
- DB2 products support accessibility applications that use the Java™ Accessibility API. For more information, see "Compatibility with assistive technologies" on page 100.
- DB2 documentation is provided in an accessible format. For more information, see "Accessible documentation" on page 100.

Keyboard input and navigation

Keyboard input

You can operate the DB2 tools using only the keyboard. You can use keys or key combinations to perform operations that can also be done using a mouse. Standard operating system keystrokes are used for standard operating system operations.

For more information about using keys or key combinations to perform operations, see Keyboard shortcuts and accelerators: Common GUI help.

Keyboard navigation

You can navigate the DB2 tools user interface using keys or key combinations.

For more information about using keys or key combinations to navigate the DB2 Tools, see Keyboard shortcuts and accelerators: Common GUI help.

Keyboard focus

In UNIX® operating systems, the area of the active window where your keystrokes will have an effect is highlighted.

Accessible display

The DB2 tools have features that improve accessibility for users with low vision or other visual impairments. These accessibility enhancements include support for customizable font properties.

Font settings

You can select the color, size, and font for the text in menus and dialog windows, using the Tools Settings notebook.

For more information about specifying font settings, see Changing the fonts for menus and text: Common GUI help.

Non-dependence on color

You do not need to distinguish between colors in order to use any of the functions in this product.

Compatibility with assistive technologies

The DB2 tools interfaces support the Java Accessibility API, which enables you to use screen readers and other assistive technologies with DB2 products.

Accessible documentation

Documentation for DB2 is provided in XHTML 1.0 format, which is viewable in most Web browsers. XHTML allows you to view documentation according to the display preferences set in your browser. It also allows you to use screen readers and other assistive technologies.

Syntax diagrams are provided in dotted decimal format. This format is available only if you are accessing the online documentation using a screen-reader.

Related concepts:

- "Dotted decimal syntax diagrams" in the *Infrastructure Topics (DB2 Common Files)*

Related tasks:

- "Keyboard shortcuts and accelerators: Common GUI help"
- "Changing the fonts for menus and text: Common GUI help"

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- In the United States: 1-888-426-4343
- In Canada: 1-800-465-9600

To locate an IBM office in your country or region, see the IBM Directory of Worldwide Contacts on the Web at www.ibm.com/planetwide.

Product information

Information about DB2 Information Integrator is available by telephone or on the Web.

If you live in the United States, you can call one of the following numbers:

- To order products or to obtain general information: 1-800-IBM-CALL (1-800-426-2255)
- To order publications: 1-800-879-2755

On the Web, go to www.ibm.com/software/data/integration/db2ii/support.html. This site contains the latest information about:

- The technical library
- Ordering books
- Client downloads
- Newsgroups
- Fix packs
- News
- Links to Web resources

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- Send your comments using the online readers' comment form at www.ibm.com/software/data/rcf.
- Send your comments by e-mail to comments@us.ibm.com. Include the name of the product, the version number of the product, and the name and part number of the book (if applicable). If you are commenting on specific text, please include the location of the text (for example, a title, a table number, or a page number).

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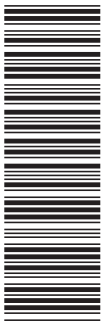

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