

Release Notes

Version 8.2



Release Notes

Version 8.2

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About the release notes

The release notes contain the latest information about DB2[®] Information Integrator Version 8.2.

The release notes are in two parts. The first part contains the details of the problems, limitations, and workarounds that were known at the time of publication and apply to the latest version of the product. Read these notes to become familiar with any known outstanding issues with this release of DB2 Information Integrator. The second part contains corrections and updates to previously released HTML, PDF, and printed documentation.

DB2 Information Integrator support on the Web

For more information about DB2 Information Integrator and the latest support issues, see the DB2 Information Integrator support Web page at www.ibm.com/software/data/integration/db2ii/support.html.

DB2 Universal Database for Linux, UNIX, and Windows support

For information about known issues with DB2 Universal Database[™] for Linux, UNIX, and Windows Version 8 products, see the DB2 Technical Support Web page at www.ibm.com/software/data/db2/udb/winos2unix/support.

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Known problems, limitations, and workarounds

The following information describes the currently known limitations, problems, and workarounds for DB2[®] Information Integrator Version 8.2. Any limitations and restrictions might or might not apply to other releases of the product.

DB2 Information Integrator installation issues

The DB2 Information Integrator installer fails when the directory name contains a blank character

If you copy the DB2 Information Integrator installer or DB2 Universal Database installer to a directory path that contains a blank character in its name, the installation will fail. To avoid this problem, take one of the following actions:

- Install DB2 Information Integrator installer using the provided CDs.
 UNIX systems only: Ensure there are no space characters in the mount point name.
- Ensure that no blank characters are used in the directory path name in which the DB2 Information Integrator installer or the DB2 installer is copied.

The DB2 Information Integrator installer fails when the DB2 Administration Server and database instance user names are identical

The DB2 Administration Server provides support services for DB2 Universal Database tools such as the Control Center and Configuration Assistant. Every computer that uses DB2 Universal Database also contains a DB2 Administration Server.

If DB2 Universal Database is not installed on the computer on which you are installing DB2 Information Integrator, the DB2 Information Integrator Installer will automatically install a DB2 Administration Server. The DB2 Information Integrator Installer prompts you to specify names for the DB2 Administration Server user and for the related database instance user. You must specify unique names for the DB2 Administration Server user and for the related database instance user, or the installation will fail.

To avoid this installation failure, specify a database instance user name that is different from the current DB2 Administration Server user name during the DB2 Information Integrator installation process.

The DB2 Information Integrator installer fails on Red Hat Enterprise Linux Version 3.0 (Linux only)

If you are trying to install DB2 Information Integrator on a computer that runs the Red Hat Enterprise Linux Version 3.0 operating system, the DB2 Information Integrator Installer will fail.

To avoid this problem, enter the following command before you start the DB2 Information Integrator Installer:

export LD ASSUME KERNEL=2.2.5

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Required task after installing DB2 Information Integrator upgrades or fix packs

After you install a DB2 Information Integrator upgrade or fix pack, you must run the djxlink script for each of the wrappers that you installed and the db2iupdt command for each DB2 instance. See the DB2 Information Integrator support site at www.ibm.com/software/data/integration/db2ii/support.html for instructions on installing DB2 Information Integrator fix packs and running the djxlink script and the db2iupdt command.

DB2 Information Integrator installer Asian fonts limitation (UNIX systems only)

IBM offers additional font packages for UNIX that contain additional double-byte character set support for Asian characters. The font packages that IBM offers are necessary with some versions of UNIX that install only the fonts that are necessary to display the country-specific or region-specific characters.

If characters are missing when you run the iisetup program, the necessary fonts are likely not installed on your UNIX system.

To enable the **iisetup** program to properly reference the fonts embedded in the installation CD:

- 1. Copy the tnrmt30.ttf font file to a directory on your system. The file is in the root directory of the DB2 Information Integrator installation software.
- Export the JAVA_FONT environment variable by running the following command:

```
export JAVA FONT=<path to font>
```

<path to font> is the path to the directory where you copied the font file.

- 3. Run the **iisetup** program.
- 4. Remove the font file from the hard disk.

The fonts that IBM supplies do not replace the system fonts. Use the IBM-supplied fonts with DB2 Information Integrator. You cannot engage in the general or unrestricted sale or distribution of these fonts.

Migration issues

Accessing DB2 family remote data sources after migration

If you need to access a DB2 family remote data source after you migrate to DB2 Information Integrator from either DB2 Universal Database Version 7 or from DataJoiner® Version 2.1.1, you must start the bind utility to reestablish a connection from the server to the remote data source. DB2 family remote data sources include databases on DB2 Universal Database for UNIX and Windows, DB2 Universal Database for z/OS^{TM} and $OS/390^{CM}$, DB2 Universal Database for iSeries $OS/390^{CM}$, and DB2 Server for VM and VSE.

If you do not reestablish the connection by using the bind utility, you receive an SQL0805N error message.

You must use the bind utility to reestablish a connection from the server to the remote data source for each DB2 family remote database that you want to access. You need to perform this task only one time for each remote database that you want to access.

To reestablish a connection to a remote data source after migration:

- 1. Access the remote data source with the DB2 CONNECT command.
- 2. Access the required DB2 Information Integrator directory.

On UNIX systems, issue the following command:

cd db2_instance_directory/sqllib/bnd

db2_instance_directory is the directory that contains the database instance that you want to access.

On Windows systems, issue the following command:

cd db2_install_directory\sqllib\bnd

db2_install_directory is the directory where DB2 Information Integrator is installed.

- 3. Access the bind utility by issuing the following command: db2 bind @db2cli.lst grant public
- 4. Disconnect from the remote data source.

Federated function and data source support issues

Requirement for federated server computers (AIX 64-bit systems only)

If you intend to use or you are already using an AIX 64-bit computer as a federated server, you must install AIX APAR fix number IY53887 on that computer.

If you do not install AIX APAR fix number IY53877, your wrappers might not load correctly when you use a CREATE SERVER statement or CREATE NICKNAME statement. If your wrappers do not load correctly, you receive an SQL0901N error that indicates NULL WRAPPER.

Data type restrictions

DB2 Information Integrator does not support some data types. You cannot create nicknames for data source objects (such as tables and views) that contain any of these unsupported data types. Additionally, DB2 Information Integrator does not allow insert, update, and delete operations on data source objects that contain certain data types.

Unsupported data types

You cannot create nicknames for data source objects that contain the data types listed in the following table:

Table 1. Unsupported data source data types

Data source	Unsupported data types
Extended Search	DECIMAL
Microsoft® SQL Server	SQL_VARIANT

Table 1. Unsupported data source data types (continued)

Data source	Unsupported data types	
Oracle (NET8 wrapper only)	TIMESTAMP (fractional_seconds_precision) WITH TIME ZONE TIMESTAMP (fractional_seconds_precision) WITH LOCAL TIME ZONE NCHAR* NVARCHAR2*	
	* These data types are unsupported only when the federated database does not use the UTF-8 code page (Unicode). If the federated database does use the UTF-8 code page, then you can create nicknames for remote data source objects that contain these data types.	
Oracle (SQLNET wrapper only)	BLOB CLOB NCHAR NVARCHAR2 TIMESTAMP TIMESTAMP (fractional_seconds_precision) WITH TIME ZONE TIMESTAMP (fractional_seconds_precision) WITH LOCAL TIME ZONE	
Sybase (DBLIB wrapper only)	unichar univarchar	

For the data types that DB2 Information Integrator does not support, you can create a view at the data source that is based on the data source object, and create a nickname for the view. The view must not contain any columns that use the unsupported data types. Or you can create a view that is based on the data source object and change the unsupported data types to supported data types.

Insert, update, and delete restrictions on data types

DB2 Information Integrator does not allow insert, update, and delete operations on data source objects that contain certain data types. You cannot perform write operations on data source objects that contain the data types listed in the following table.

Where upper and lower length limits are provided in the following table, character data types specify the length in bytes. Graphic data types specify the length in double bytes.

Table 2. Write operation restrictions on data types

Data source	Unsupported data types	
DB2 family (DRDA®)	BLOB CLOB DBCLOB	
Informix [®]	BLOB CLOB BYTE TEXT Exceptions: You can perform insert, update, and delete operations on TEXT data	
	types if you alter the nickname column to the VARCHAR data type. You can perform insert, update, and delete operations on BYTE data types if you alter the nickname column to the VARCHAR FOR BIT DATA data type.	

Table 2. Write operation restrictions on data types (continued)

Data source	Unsupported data types	
Microsoft SQL Server	image ntext text SQL_VARIANT	
	Exceptions: You can perform insert, update, and delete operations on text and ntext data types if you alter the nickname column to the VARCHAR or VARGRAPHIC data type. You can perform insert, update, and delete operations on image data types if you alter the nickname column to the VARCHAR FOR BIT DATA data type.	
ODBC	SQL_LONGBINARY (length > 32672) SQL_LONGVARCHAR (length > 32672) SQL_WLONGVARCHAR (length > 32672)	
Oracle (NET8 wrapper only)	INTERVAL DAY (day_precision) TO SECOND	
	Exceptions: You can perform insert, update, and delete operations on LONG data types if you alter the nickname column to the VARCHAR data type. You can perform insert, update, and delete operations on LONG RAW data types if you alter the nickname column to the VARCHAR FOR BIT DATA data type. * These data types are unsupported only when the federated database does not use the UTF-8 code page (Unicode). If the federated database does use the UTF-8 code	
	page, then you can perform insert, update, and delete operations for remote data source objects that contain these data types.	
Oracle (SQLNET wrapper only)	BLOB CLOB INTERVAL DAY (day_precision) TO SECOND	
Sybase (CTLIB wrapper only)	image text	
	Exceptions: You can perform insert, update, and delete operations on text data types if you alter the nickname column to the VARCHAR data type. You can perform insert, update, and delete operations on image data types if you alter the nickname column to the VARCHAR FOR BIT DATA data type.	
Sybase (DBLIB wrapper only)	All data types. Write operations are not supported by the DBLIB wrapper.	
Teradata	char (32673 to 64000) varchar (32673 to 64000) byte (32673 to 64000) varbyte (32673 to 64000) graphic (16337 to 32000) vargraphic (16337 to 32000)	

Importing data into nicknames is not supported

Importing or inserting data from any kind of file into a nickname is not supported. If you try to import or insert data into a nickname, you will receive error SQL30090N with reason code 21.

Mapping to the federated GRAPHIC and VARGRAPHIC data types

If the federated database does not use the UTF-8 code page (Unicode), only the DB2 family and Teradata data sources can override the default data type mappings to map remote data types to the federated GRAPHIC and VARGRAPHIC data types. You use either the CREATE TYPE MAPPING statement or the ALTER NICKNAME statement to override the default data type mappings, depending on the circumstances in which you want the mapping to apply.

UTF-8 code page data expansion

If the federated database uses the UTF-8 code page and the data source client converts to the UTF-8 code page, the conversion process might result in data expansion. For example, if you select a character that is stored as 1 byte at the remote data source, the data source might return 2 bytes after converting the selected character to UTF-8. Ensure that the local columns in the catalog are wide enough to contain any expanded data. If the columns are not wide enough, use the ALTER NICKNAME statement to make the columns wider.

LIKE predicate applied to a CHAR column

For Informix, Microsoft SQL Server, Oracle, and Sybase data sources, the LIKE predicate that is applied to a CHAR column is not processed at the data source. These data sources use different blank padding rules than DB2 Universal Database. For example, if a CHAR(10) column contains 'a', then the predicate char_col LIKE 'a' is false in DB2 Universal Database, but true in the other data sources.

Additionally, for Microsoft SQL Server data sources, the LIKE predicate performs case-insensitive string comparisons, which cannot be processed at the data source.

You can improve performance by creating a function mapping for the LIKE(CHAR, *column_type* (*length*)) function so that the LIKE predicate is processed at the data source. For example:

```
CREATE FUNCTION MAPPING FOR SYSIBM.LIKE(SYSIBM.CHAR,SYSIBM.VARCHAR(1)) SERVER infx server;
```

However, if you use a function mapping, LIKE predicates might return different results than DB2 Universal Database returns.

CHAR columns that contain DBCS data

Predicates that compare CHAR columns that contain DBCS data might return incorrect results when the federated server and the data source use different blank padding characters. You might avoid the incorrect results by using the ALTER NICKNAME statement to change the local column type from CHAR to VARCHAR.

Cursor with hold semantics for certain relational wrappers

The Microsoft SQL Server, ODBC, OLE DB, Oracle, Sybase, and Teradata wrappers do not currently support DECLARE CURSOR WITH HOLD semantics.

Limitation on file code page specifications for Unicode support of table-structured file and XML data sources (Windows only)

On Windows operating systems, you can create file names and directory names using any Unicode character. However, the FILE_PATH and DIRECTORY_PATH options of the CREATE NICKNAME and ALTER NICKNAME statements must use characters that the operating system code page supplies. If you specify Unicode characters in either of the PATH nickname options using either the table-structured file wrapper or the XML wrapper, and those Unicode characters are not part of the Windows code page, the wrapper issues an error that indicates that the resource cannot be located.

For example, on an English language Windows-based computer, you cannot specify a FILE_PATH option value that uses Japanese Unicode characters, because the create or alter nickname operation will fail. In this situation, you must specify a FILE_PATH option value that uses only English characters. Likewise, on a Japanese language Windows-based computer, you must specify FILE_PATH or DIRECTORY PATH option values using only Japanese characters, otherwise the create or alter nickname operation will fail.

Using the CREATE TYPE MAPPING statement with ODBC, Microsoft SQL Server, and Teradata data sources

You cannot omit a remote data type length with a data type that uses parameters. Specify a length or empty parentheses. For example, for Teradata, the default length for the CHAR data type is 1. If you want to map CHAR(1) of Teradata to VARCHAR(1) of DB2 Information Integrator, issue the following CREATE TYPE MAPPING statement:

```
CREATE TYPE MAPPING tml from local type varchar(1)
to server type teradata remote type char(1);
```

You cannot use the synonym of the remote data type. You must use the short data type name. For example, in case of Teradata, the following CREATE TYPE MAPPING works correctly:

```
CREATE TYPE MAPPING tml from local type varchar()
to server type teradata remote type char();
```

The following CREATE TYPE MAPPING does not work because the synonym, character, is used for the character data type. The short data type name, char, must be used.

```
CREATE TYPE MAPPING tml from local type varchar()
to server type teradata remote type character();
```

DRDA wrapper support

Insert, update, and delete operations not allowed on graphic data types for UTF-8 databases

If the federated database uses the UTF-8 code page (Unicode), you cannot perform insert, update, and delete operations on GRAPHIC, VARGRAPHIC, and DBCLOB data types for DB2 Server for VM and VSE data source objects. These operations are not allowed for graphic data types because DB2 Server for VM and VSE does not contain a conversion table for UTF-16 (code page 1200). UTF-8 (Unicode) federated databases require a UTF-16 conversion table for graphic encoding.

Using the DRDA wrapper to connect to partitioned databases

When you use the DRDA wrapper to connect to a DB2 Universal Database system with remote partitions, and that remote system uses different partition numbers than the federated server uses, the connection might fail. The connection failure results in an SQL1822N error message that refers to error SQL1469N. Error SQL1469N is a remote data source error that indicates that node numbers were not specified for a particular database instance.

Before you use the DRDA wrapper to connect to a DB2 Universal Database system with remote partitions, you must ensure that the federated server is aware of the partition number that is associated with port 0 on that DB2 Universal Database system.

To determine the partition number that is associated with port 0 on a remote DB2 Universal Database system:

- 1. Open the sqllib/db2nodes.cfg file on the remote system.
- 2. Look for the partition number that is associated with port 0 on that remote system, and record that partition number.
 - For example, if the host name of the remote system is nori, then look for the partition number that is associated with port 0 for host nori.
- 3. Close the db2nodes.cfg file.

Use one of the following three methods to notify the federated server of the partition number that is associated with port 0 on a remote DB2 Universal Database system:

- Edit the db2cli.ini file on the federated server. Set the CONNECTNODE parameter to the partition number that is associated with port 0 on the remote DB2 Universal Database system.
 - This method changes the federated server environment. Using this method can potentially affect your applications.
- Set environment variable DB2NODE on the federated server to the partition number that is associated with port 0 on the remote DB2 Universal Database system. You must stop and then restart DB2 Universal Database on the federated server after you set the environment variable.
 - This method changes the federated server environment. Using this method can potentially affect your applications.
- If you use SQL statements from the DB2 Command Line Processor, issue the following command on the federated server before you connect to the remote DB2 Universal Database system:
 - ${\tt SET\ CLIENT\ CONNECT_DBPARTITIIONNUM\ partition_number}$
 - partition_number is the partition number that is associated with port 0 on the remote DB2 Universal Database system.

This method sets the partition number only for the duration of the Command Line Processor session.

Example:

The host name of the DB2 Universal Database system to which you want to connect is palmetto. In the db2nodes.cfg file on the palmetto system, partition number 10 is associated with port 0. To notify the federated server that partition number 10 is associated with port 0 on palmetto, you can perform any one of the following actions:

• Specify the value CONNECTNONDE=10 in the db2cli.ini file on the federated server.

• Set the DB2NODE environment variable to 10 on the federated server, stop DB2 Universal Database, and start DB2 Universal Database again. For example, on a UNIX system, use the following commands:

```
db2stop
export DB2NODE=10
db2start
```

Before you connect to palmetto, issue this command:
 SET CLIENT CONNECT DBPARTITIIONNUM 10

Nicknames on DB2 Universal Database tables that contain LONG VARCHAR FOR BIT DATA columns

When you create a nickname on a DB2 Universal Database table that contains a LONG VARCHAR FOR BIT DATA data type column, the corresponding local nickname column is automatically set to the BLOB data type. If you assign a column of data type BLOB from a nickname to a LONG VARCHAR FOR BIT DATA data type column, an SQL0408N error occurs.

To avoid this data type incompatibility, alter the local data type of the BLOB nickname column from BLOB to CLOB.

Example:

You create a nickname, MY_NICK, on a table with column LONG_COL1 of data type LONG VARCHAR FOR BIT DATA. You create a local table, MY_TABLE, with column LONG_COL2 of data type LONG VARCHAR FOR BIT DATA. Then you try to perform the following insert operation:

INSERT INTO my table(long col2) SELECT long col1 FROM my nick;

The operation fails with error SQL0408N. The local column data type of LONG_COL1 was automatically set to BLOB, which is not compatible with the data type of LONG_COL2 (LONG VARCHAR FOR BIT DATA).

To avoid the data type incompatibility, alter the local data type of the LONG_COL1 column to CLOB using the ALTER NICKNAME statement: ALTER NICKNAME my nick ALTER COLUMN long col1 LOCAL TYPE CLOB(32770);

Potential error when using the DRDA wrapper for multiple local database connections on the same computer (AIX only)

If a 32-bit DB2 Universal Database server is run on an AIX system, and an application that is running on the same system has more than one federated database connection through the DRDA wrapper, then the application might get following error:

SQL1822N Unexpected error code "-1224" received from data source "W3_SERVER2". Associated text and tokens are "func="DriverConnect" msg=" SQL1224N A database agent". SQLSTATE=560BD

There are two potential workarounds for this error:

- Add the entry EXTSHM=0N to the federated configuration file, instance_directory/cfg/db2dj.ini. Setting the EXTSHM variable to ON increases the amount of shared memory segments that can be used.
 - When you make changes to the federated configuration file, you must stop and then restart DB2 Universal Database to activate the changes.
- Catalog the federated database on a TCP/IP node. For example:

```
CATALOG TCPIP NODE my_node REMOTE my_host SERVER 123;
CATALOG DB mydb AT NODE my_node;
CREATE WRAPPER drda;
CREATE SERVER my_server TYPE DB2/UDB VERSION 8 WRAPPER drda
AUTHORIZATION "my_id" PASSWORD "my_pw"
OPTIONS(ADD DBNAME 'MYDB');
```

If the error persists after you try both of the workarounds, contact IBM Support.

Documentum wrapper support

Custom function query limitation

You cannot use Documentum custom functions that do not include a column reference as an argument in queries with joins between multiple Documentum nicknames. Some examples of functions of this type are CABINET and FOLDER.

The following example shows a query that will fail:

```
SELECT D.object_name, L.sv_char1
FROM dmdoc_sr_1 D, lsdoc_sr_1 L
WHERE DCTM.CABINET('/Cabinet1')=1 AND D.object name = L.object name;
```

Use Documentum custom functions that do not have a column reference argument (such as CABINET and FOLDER) only in queries that involve one Documentum nickname.

Microsoft SQL Server wrapper support

Microsoft SQL Server insert, update, and delete restriction on tables with triggers

When you issue an insert, update, or delete statement on a Microsoft SQL Server table through a nickname, and that table has an insert, update, or delete trigger, Microsoft SQL Server will not process any further statements until the current statement has been closed.

To close the insert, update, or delete statement, issue a commit statement immediately after issuing the original insert, update, or delete statement. Issuing a commit statement after issuing the original the insert, update, or delete statement closes the original statement, and enables other statements to process.

ODBC wrapper support

CREATE TABLE restrictions

If you specify an invalid option on the CREATE TABLE statement, DB2 Universal Database ignores the option and does not issue an error message. For example, in the following statement, DB2 Universal Database ignores the option, invalid option:

```
CREATE TABLE my_table(c1 INT) OPTIONS(remote_server 'MY_ODBC_SERVER',
  remote schema 'J15USER1', invalid option 'non option');
```

The following options are valid CREATE TABLE options:

- REMOTE_SERVER
- REMOTE_SCHEMA
- REMOTE_TABNAME
- SQL_SUFFIX

Problems after migrating wrapper user-defined reverse data type mappings

ODBC wrapper user-defined reverse data type mappings for data types that do not allow parameters (for example, the INTEGER data type) might not work correctly after migration.

If the user-defined data type mappings for data types that do not allow parameters do not work after you migrate, you must drop the problem data type mappings, and then redefine the mappings in DB2 Information Integrator Version 8.2.

Oracle wrapper support

djxlinkOracle script errors

If you use the djxlinkOracle script on AIX to link the SQLNET wrapper and the AIX Base Application Development Math Library is not installed, then the script will fail with linkage editor errors.

You can determine if the library is installed by issuing the following AIX command:

lslpp -l bos.adt.libm

To avoid linkage editor errors, either install the AIX Base Application Development Math Library or edit the djxlinkOracle script and remove all occurrences of option -lm from the **ld** (linkage editor) commands.

Using the Oracle wrapper with different code pages (Windows only)

This information applies to both the SQLNET and NET8 versions of the Oracle wrapper.

If you use more than one Oracle wrapper in different federated databases in the same instance at the same time, and each federated database uses a different code page, the Oracle client performs the correct code page conversion for only the first federated database that connects to an Oracle server.

When a wrapper connects to the Oracle server, the wrapper uses the code page of the federated database to determine the setting of the NLS_LANG environment variable. However, Oracle does not allow the code page portion of the NLS_LANG variable setting to be changed after the variable is set in a process. So when wrappers in the other federated databases that have different code pages connect to the Oracle server, those wrappers use the value of NLS_LANG that the first wrapper invocation set.

Place the federated databases with different code pages in different instances so that all of the federated databases in one instance use the same code page.

Sybase wrapper support

Required version of Sybase Adaptive Server Enterprise

If you are using the Sybase wrappers with Sybase Adaptive Server Enterprise 11.9, you must use version 11.9.2.6 or later. If you do not have one of these versions installed, you must install the latest emergency bug fix (EBF) from Sybase on your Sybase server.

Recommendation: Use Sybase Adaptive Server Enterprise version 12.5.0.3 or later. Other versions of Sybase Adaptive Server Enterprise have a known array overrun problem.

Calculations on SMALLINT columns in remote tables

An SQL statement that includes a calculation on a SMALLINT column in a remote table might cause an arithmetic overflow error. To avoid this error, explicitly define the column as an INTEGER data type.

This problem occurs with both the DBLIB and CTLIB wrappers.

Run the CTLIB wrapper in trusted mode to optimize performance (UNIX systems only)

On UNIX systems, the Sybase CTLIB wrapper is not threadsafe, and should be run in trusted mode for best performance.

Update and delete operation limitation (CTLIB wrapper only)

If you create a nickname for a Sybase view, and that Sybase view was created using a Sybase subquery, you might receive error SQL1822N, "unexpected error code 7732", when you use that nickname to perform update or delete operations from the federated server.

To avoid errors when performing update or delete operations, do not use nicknames that are based upon a Sybase view that uses a Sybase subquery. Create a new nickname that directly references the table in the required Sybase view, then create a federated view that uses the new nickname. Run your update or delete operations on that federated view.

For more information about creating and using federated views, see the "Creating and using federated views" topic in the DB2 Information Center.

Using host variables in pass-through sessions (DBLIB wrapper only)

When you use statements that reference a host variable in a pass-through session of the DBLIB wrapper, you must add a trailing space to the host variable. For example, to insert data into remote table, you might issue a statement like this one: INSERT INTO remote table name VALUES (:H0 , :H1);

In the previous example, :H0, :H1 are host variables to which trailing spaces have been added.

Using SELECT statements on LOB columns (DBLIB wrapper only)

To select a LOB column, the data source table must have a unique index and a TIMESTAMP column.

Teradata wrapper support

Run the Teradata wrapper in trusted mode to optimize performance (UNIX systems only)

On UNIX systems, the Teradata wrapper is not threadsafe, and should be run in trusted mode for best performance.

UPDATE or **DELETE** operation errors on nicknames

By default, rows are not uniquely identified on Teradata data source tables. You might receive an SQL30090N, RC="21" error when you try to update or delete a nickname that is associated with a Teradata table or a Teradata view.

If the SQL30090N, RC="21" error occurs, create at least one unique index on the Teradata table that is being updated or deleted, and then try the operation again.

GRAPHIC and VARGRAPHIC Teradata data types are not allowed for EUC-JP databases (DB2 Universal Database for AIX only)

Teradata uses the EUC-JP encoding in GRAPHIC and VARGRAPHIC data types. If the federated database uses the EUC-JP code page, you cannot create a nickname for a Teradata table that contains GRAPHIC or VARGRAPHIC columns. You also cannot use transparent DDL to create a Teradata table that contains GRAPHIC or VARGRAPHIC columns. DB2 Universal Database uses UCS-2 encoding because some EUC-JP characters are 3 bytes.

If you try to create a nickname on a Teradata table with GRAPHIC or VARGRAPHIC columns or use transparent DDL to create a Teradata table with GRAPHIC or VARGRAPHIC columns, you will get error message SQL3324N.

GRAPHIC and VARGRAPHIC Teradata data types are not allowed for UTF-8 databases

Teradata does not support GRAPHIC and VARGRAPHIC data types for the UTF-8 character set. If the federated database uses the UTF-8 code page, you cannot create a nickname on a Teradata table that contains GRAPHIC or VARGRAPHIC columns. You cannot use transparent DDL to create a Teradata table that contains GRAPHIC or VARGRAPHIC columns.

WebSphere Business Integration wrapper support

New nickname option for detecting business object not found conditions

The WebSphere Business Integration wrapper is including a nickname option for detecting business object not found conditions. Because SAP and PeopleSoft APIs do not follow a standardized error reporting model, it is possible for each API to return a different message for the same error condition. Specifically, SAP and PeopleSoft business application APIs do not issue consistent error messages for a record not found condition.

For example, when a record for a given identifier cannot be located in the SAP application, the getdetail2 BAPI for the CUSTOMER business object might return error code 502, while the getdetail BAPI for the COMPANY business object might return a different error code.

Because of the inconsistent error messages, the WebSphere Business Integration adapters for mySAP.com and PeopleSoft cannot map these errors to the specific BO_NOT_FOUND status flag, which is in the response business object that is returned to the wrapper. The lack of information in the status flag can cause certain types of DB2 Information Integrator application queries to fail, even if a single record is missing or cannot be located in the application data source. The application failure might not be the desired behavior for the DB2 Information Integrator application.

The following example is a join of a WebSphere Business Integration SAP nickname that represents the Customer.get_detail2 BAPI with a local table that contains the customer identifiers:

```
Select name from sap_bapi_customer_getdetail2_NN a,
local table b where b.customerid=a.customerno;
```

If the local_table contains a single customer ID that does not exist in the SAP application, the query fails.

As a workaround for this problem, the WebSphere Business Integration wrapper provides an additional nickname option that allows users to specify specific error codes that should be processed as a record not found rather than an error for the nickname. The nickname option is: BO_NOT_FOUND_CODES. The value is a comma delimited list of business application error codes. The following example shows the new nickname option:

DB2 Control Center issues

db2updv8 command

If you are using a federated database with DB2 Information Integrator, Version 8.2 that was created using DB2 Universal Database, Version 8.1 or later, you must upgrade your federated database to use the DB2 Control Center with DB2 Information Integrator, Version 8.2. To update your federated database, use the **db2updv8** command.

```
An example of this command is: db2updv8 -d testdb -u dbadmin -p dbpasswd
```

For more information about using this command, see the "db2updv8 - Update Database to Version 8 Current Level Command" topic in the DB2 Information Center.

Federated client and server compatibility

If you use DB2 Universal Database, Version 7 or Version 8.1 clients with a DB2 Information Integrator, Version 8.2 server, you must upgrade your clients to DB2 Information Integrator, Version 8.2 to use the new federated function in the DB2 Control Center.

If you use DB2 Information Integrator, Version 8.2 clients and a DB2 Universal Database Version 7 or Version 8.1 server, you must upgrade your server to DB2 Information Integrator, Version 8.2 to use the new federated function in the DB2 Control Center.

Blast data sources

If the BlastSeq column for a BLAST nickname is defined as a CLOB data type, you must create sequence match function templates before you can query BLAST data sources. The SQL statements that you issue on the federated database to create the function templates are documented in "Documentation updates" on page 21.

HMMER data sources

If the HMMQSEQ column for a HMMER nickname is defined as a CLOB data type, you must create sequence match function templates before you can query HMMER data sources. The SQL statements that you issue on the federated database to create the function templates are documented in "Documentation updates" on page 21.

WebSphere MQ issues

WebSphere MQ 5.3 configuration Issues for Solaris

After you install WebSphere MQ Version 5.3 with corrective service diskette 05 (CSD05) on a Solaris Operating Environment system, open a command prompt, and type:ulimit -n 1024.

This command sets the limit for the number of files that are opened and will allow you to create a queue manager in the Solaris Operating Environment.

Wrapper development issues

Workaround for ClassNotFoundException error in Java wrappers that use J2EE Application Programming Interfaces

A Java $^{\text{\tiny TM}}$ wrapper might fail to load a valid class that is specified in the CLASSPATH. The error is thrown when the wrapper tries to load the initial class context.

For example, the following exception information was logged from a wrapper that attempted to create a new javax.naming.InitialContext instance:

```
Exception :javax.naming.NoInitialContextException: Cannot instantiate class: org.jnp.interfaces.NamingContextFactory
[Root exception is java.lang.ClassNotFoundException: org/jnp/interfaces/NamingContextFactory]
javax.naming.NoInitialContextException:
Cannot instantiate class: org.jnp.interfaces.NamingContextFactory.
Root exception is java.lang.ClassNotFoundException:
org/jnp/interfaces/NamingContextFactory
at java.lang.Class.forName0(Native Method)
at java.lang.Class.forName(Class.java:256)
at com.sun.naming.internal.VersionHelper12.loadClass(VersionHelper12.java:59)
at javax.naming.spi.NamingManager.getInitialContext(NamingManager.java:661)
at javax.naming.InitialContext.getDefaultInitCtx(InitialContext.java:256)
at javax.naming.InitialContext.init(InitialContext.java:232)
at javax.naming.InitialContext. <init> (InitialContext.java:208)
```

In the example, the org.jnp.interfaces.NamingContextFactory class is included in the CLASSPATH, but the Java Virtual Machine fails to load the class. This error occurs because the com.sun.naming.internal.VersionHelper12 class loads the application-specific InitialContext subclass by using the class loader of the current

thread, as returned by the Thread.currentThread().getContextClassLoader() method. However, the value that the method returned is null.

A potential workaround for class load failures that have a similar structure to the example error is to explicitly set the class loader for the current thread as a valid non-null ClassLoader instance, and to add the following code in the wrapper. Insert the following code immediately before the call that caused the ClassNotfoundException to be thrown:

The class to which this code is added might need to import the package java.security.* to successfully compile.

XML Metadata Registry issues

Required TCP/IP ports to enable Web browser access to the XML Metadata Registry

To allow Web browsers to access the XML Metadata Registry, you must enable unrestricted access to the following TCP/IP ports on the computer where the XML Metadata Registry is deployed:

- 20000 (for http)
- 20010 (for htpps)
- 20020 (for the XSLTLoader utility)

Reset Password utility

The XML Metadata Registry administrator account password on the application server for DB2 is used when you deploy the XML Metadata Registry. If you change the XML Metadata Registry administrator account password on the application server for DB2, you must also immediately register that password change in the XML Metadata Registry program. If you do not register a password change, the XML Metadata Registry program will not function correctly.

To register changes to the XML Metadata Registry administrator account password on the application server for DB2 in the XML Metadata Registry, use the Reset Password utility. The Reset Password utility is in the uil directory.

You must stop the Enterprise Application Server before you run the Reset Password utility. You can usually stop the Enterprise Application Server by using the old password. If you cannot stop the Enterprise Application Server with the old password, you can safely terminate the Java process that is associated with the application server for DB2.

To run the Reset Password utility, issue the following command: resetPassword -u <userid> -o <oldpassword> -n <newpassword>

- <userid> is the XML Metadata Registry administrator account name.
- <oldpassword> is the old XML Metadata Registry administrator account password on the application server for DB2.
- < newpassword > is the new XML Metadata Registry administrator account password on the application server for DB2.

To help recover in case of failure, the Reset Password utility creates a copy of the security.xml configuration file in the directory where the application server for DB2 is installed.

Scripts to start and stop the XML Metadata Registry

You can now stop and start the XML Metadata Registry after it is deployed without stopping the application server for DB2, and any other application server for DB2 programs. The scripts (for UNIX and Linux[™] systems) or batch files (for Windows systems) that enable you to perform these stop and start operations are in the <eas_install_dir>/xmr/bin directory. <eas_install_dir> is the directory where the application server for DB2 is installed.

The application server for DB2 must be running to use the scripts or batch files.

To stop the XML Metadata Registry, enter the following command: stopXMR -user <userID> -password <password>

To start the XML Metadata Registry, enter the following command: startXMR <userID> -password <password>

<userID> and <password> is the same user ID and password combination that is used for the deployXMR command (the XML Metadata Registry administrator ID and password combination).

Large document storage

To prevent errors when large documents are stored in the XML Metadata Registry, you can use the Jython wsadmin script nlc.py. You can also use this script to tune the performance of the XML Metadata Registry program in general.

The nlc.py script changes the noLocalCopies (pass by reference) setting of the Object Request Broker (ORB) that the XML Metadata Registry uses. The script changes the noLocalCopies current setting (true or false) to its opposite setting. The default setting for noLocalCopies when the XML Metadata Registry is installed is false. Changing noLocalCopies to true can eliminate errors, and can improve performance when large documents are stored in the XML Metadata Registry.

The nlc.py script is in the util directory. To run the nlc.py script on UNIX systems, issue the following command:

```
<application server for DB2 installation directory>/bin/wsadmin
-user <xmradmin>
-password <password>
-lang jython
-f <application server for DB2 installation directory>/xmr/util/nlc.py
```

To run the nlc.py script on Windows systems, issue the following command:

```
<application server for DB2 installation directory>\bin\wsadmin
```

- -user <xmradmin>
- -password <password>
- -lang jython
- -f <application server for DB2 installation directory>\xmr\util\nlc.py

<xmradmin> is the XML Metadata Registry administrator account name.

<password> is the XML Metadata Registry administrator account password.

After you run the nlc.py script, you must restart the application server for DB2 to activate the changes.

Patch required when using Microsoft Internet Explorer browser

Anyone who accesses the XML Metadata Registry by using the Internet Explorer browser must download and apply Microsoft critical update patch Q831167.

The easiest way to notify XML Metadata Registry users about this requirement is to modify the "About This Registry" message that displays on the XML Metadata Registry Log In page.

The XML Metadata Registry administrator can change the "About This Registry" message text from the Welcome page. The Welcome page appears after you successfully log in to the XML Metadata Registry. To change the "About This Registry" message text, go to the appropriate area of the Welcome page, enter the text changes in HTML, then click **Save**. The changed text appears on the XML Metadata Registry Log In page for all users.

The following example shows sample HTML that you can use to document the Microsoft patch requirement in the "About This Registry" message.

```
If you encounter the following problems when you attempt to register or log in using Microsoft Internet Explorer, you need to download and install a patch from Microsoft.<br/>
1. You receive an invalid user ID or password error when you use a valid user ID and password to log in.<br/>
2. The Registration page indicates that required fields are empty when they are not.<br/>
See the Microsoft Knowledge Base Article 831167 at <a href "http://support.microsoft.com/default.aspx?kbid=831167"> http://support.microsoft.com/default.aspx?kbid=831167</a> for instructions on downloading and installing the patch.
```

Changing the Administrator ID name value

The XML Metadata Registry administrator user account is given the name "XMR Administrator" by default when the XML Metadata Registry is deployed. The administrator user account name, not the administrator user ID value, appears in the XML Metadata Registry user interface.

To change the name of the XML Metadata Registry administrator account:

- 1. In the XML Metadata Registry program, browse through Business Objects.
- 2. Select the XML Metadata Registry administrator user name.
- 3. Click the user name to display the user information.
- 4. On the Basics page, change the value in the Name field.
- 5. Click Save to store the changes.

Do not use the back function in a Web browser

Do not use the back function (including the Back button) of your Web browser with the XML Metadata Registry interface. Using the Back function can cause problems in the XML Metadata Registry interface.

Double byte character strings do not work in Mozilla Web browsers

Web browsers that use Mozilla file upload controls do not properly handle file names that contain double-byte character set (DBCS) and multi-byte character set (MBCS) characters. Any attempt to upload files with names that contain DBCS or MBCS characters in Mozilla Web browsers will not work.

To avoid this problem, you can either rename the file that you are trying to upload, or use a Web browser that does not use the Mozilla file upload controls (for example, Microsoft Internet Explorer).

HTML limitation affects navigation tree display

XML Metadata Registry objects can contain consecutive white space characters (for example, spaces and tabs). However, because of HTML constraints, the object names as displayed in the XML Metadata Registry navigation tree show any consecutive white space in the name as a single space character.

Invalid HTML markup in About This Registry message causes display problems

The "About This Registry" message text is shown on the XML Metadata Registry Log In page. You can customize the "About This Registry" message by adding HTML markup as needed.

However, if invalid HTML is used (for example, a tag is missing an end tag), the Log In window might be displayed incorrectly. For example, it might be difficult to identify the Username and Password text boxes and controls.

Web services issues

Using WebSphere Studio Application Developer Version 5 applications with DB2 Information Integrator Version 8.2 Web services

If you create a Web services application in WebSphere Studio Application Developer Version 5, the Web applications that are generated are not compatible with the DB2 Information Integrator Version 8.2 Web services engine. You will not be able to deploy that Web application into an application server that uses DB2 Information Integrator Version 8.2 Web services provider. Also, if you manually create a Web application that uses the DB2 Information Integrator Version 8.2 Web services engine, and then import that application into WebSphere Studio Application Developer Version 5, you cannot run that Web application.

You must manually update a Web application that is generated with WebSphere Studio Version 5 to deploy the application in an application server that has DB2 Information Integrator Web services provider Version 8.2. To update the Web application:

- 1. Optional: Copy the Web application into a file system to modify the files in the application easily. Use the following command from the command line: jar xf myWebapp.war
- 2. Replace the worf-servlets.jar file in the \WEB-INF\lib directory of the Web application with the worf-servlets.jar file that is found in the dxxworf.zip file.
- 3. If a soap.xml file exists in the root of the Web application, and it contains the com.ibm.soap.server.XMLDrivenConfigManager specification (this driver is the custom configuration manager that is used by WebSphere Application Server 5.1 when using Apache SOAP), then you are using the custom configuration manager that is used by WebSphere Application Server 5.1. Perform one of the following actions:
 - Use the default Apache SOAP configuration manager. The Web services provider automatically redeploys all of the Web services when you access them.
 - Manually regenerate the Apache SOAP deployment descriptors.
 Modify the dds.xml file by regenerating the deployment descriptors:
 - a. Issue the following command:

```
com.ibm.etools.webservice.rt.dadx2dd.Dadx2Dd -r list.dadx
   -p /db2sample -n /dxx_sample
   -i "classes\groups\dxx_sample\list.dadx"
   -o "classes\dds\dxx_sample\list.isd"
```

You must precede the group name and the directory name with a slash.

b. Add or replace the generated deployment descriptor (list.isd) to the dds.xml file.

The dds.xml file contains all of the Apache SOAP deployment descriptors for the current Web application.

4. For each application that you deployed, replace the JavaServer Pages in the worf directory of that application, with the files in the worf directory of the apache-services.war or the axis-services.war. Then deploy the application again.

Documentation updates

Corrections to documentation

The following information describes corrections to previously released HTML, PDF, and printed documentation.

All of the navigational references to the DB2 Information Center in this section assume that you are using the DB2 Information Center navigation tree as the starting point.

Product overviews

Topic Title: Supported data sources

Location in the DB2 Information Center:

Product overviews —> Information Integration —> DB2 Information Integrator overview —> Federated systems overview

Addition 1 of 6

For Microsoft SQL Server: If you use the Microsoft SQL Server wrapper with a UTF-8 database on UNIX you must use DataDirect Connect for ODBC 4.2 Service Pack 2 or later.

Addition 2 of 6

For Informix data sources:

- On Solaris, the Informix client version 2.81.xC2 is not supported. If you are using the Informix client version 2.81.xC2, update the client to version 2.81.xC2R1 or later.
- On Windows, the Informix SDK client version 2.81.TC2 or later is required.
- If you use Informix Dynamic Server 9.3 as a data source, you must use Informix Dynamic Server 9.30.xC4 or later.
- On the 64-bit mode zLinux operating system, you must use the Informix client version 2.81.FC3.

Addition 3 of 6

For Teradata data sources: On Windows, you must use the Teradata client TTU 7.0 or later and the Teradata API library CLIv2 4.7.0 or later on the federated server.

Addition 4 of 6

For Oracle data sources: Oracle 8.0.6 and 8.1.6 are not supported versions

Addition 5 of 6

For BioRS and Entrez, the access method should be HTTP.

Addition 6 of 6

For BioRS the supported versions are: 5.0.14, 5.2.x.x.

Migrating

Topic title: Verifying that your databases are ready for migration

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Location in the DB2 Information Center:

Migrating —> Database Systems —> DB2 Universal Database Version 8.2 —> Migrating from previous versions of DB2 Universal Database —> Servers —> Migrating DB2 Servers (Linux and UNIX) —> Premigration tasks

Correction 1 of 2

The second sentence in the topic should read as follows:

Use the db2ckmig command to verify that databases that are owned by the current instance are ready to be migrated.

Correction 2 of 2

The following paragraph should be added to step 3:

On UNIX (AIX), you can run the db2ckmig command from the install_directory/instance where install_directory is /usr/opt/db2_08_01/ on AIX and /opt/IBM/db2_V* on all other UNIX systems.

Installing

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

Location in the DB2 Information Center

Installing —> Information Integration —> Planning to install DB2 Information Integrator —> Hardware and software requirements

Correction

The Web services wrapper is supported on Solaris.

Topic Title: Installing DB2 Information Integrator (Windows) and Installing DB2 Information Integrator (UNIX)

Location in the DB2 Information Center:

Installing —> Information Integration —> Installing DB2 Information Integrator on Windows and UNIX —> Installing DB2 Information Integrator on UNIX and Windows

Correction

To use Q replication or event publishing, you must install WebSphere MQ version 5.3 Fix Pack 05 (CSD05).

Topic Title: deployXMR syntax

Location in the DB2 Information Center:

Installing —> Information integration —> Installing DB2 Information Integrator on Windows and UNIX -> Installing the DB2 XML Metadata Registry - overview

Correction

The following correction shows the updated explanation of the -doc parameter of the deployXMR command:

-doc helpSystemHomePageURL:Port

The URL of the help system home page and its port number. If you do not specify a port number, the default port number for the protocol is used. The documentation for the XML Metadata Registry is in the DB2 Information Center. The information center can be installed locally or on an intranet server from the CD that is included with the DB2 Universal Database product CDs.

For example, if you installed the information center on myhost.example.org on port 8081, specify -doc http://myhost.example.org:8081/db2help/index.jsp. If you choose not to install the DB2 Information Center, you can specify the URL of the online information center:
-doc http://publib.boulder.ibm.com/infocenter/db2help/index.jsp

Topic Title: Changing to a different edition of DB2 Information Integrator

Location in the DB2 Information Center:

Installing —> Installing DB2 Information Integrator on Windows and UNIX

Addition 1

The following information is added to the existing information in this topic.

If DB2 Information Integrator Advanced Edition or DB2 Information Integrator Advanced Edition Unlimited is installed and you change to another edition of DB2 Information Integrator, you must you must remove the IBM Tivoli License Manager (ITLM) file from your system before you install a different edition.

The following table shows the name of the ITLM file depending on your operating system and edition.

Table 3. Table of file names for the DB2 Information Integrator ITLM file

Operating system	Advanced Edition ITLM file name	Advanced Edition Unlimited ITLM file name
AIX	db2iiaex080200.sys	db2iiuex080200.sys
Linux	db2iiael080200.sys	db2iiuel080200.sys
HP-UX	db2iiaeh080200.sys	db2iiueh080200.sys
Solaris	db2iiaes080200.sys	db2iiues080200.sys
Windows	db2iiaew080200.sys	db2iiuew080200.sys

Addition 2

Administrator authority is also required for removing the ITLM file from your system.

Addition 3

The following step is added between steps 4 and 5 of the original topic.

5. If Advanced Edition or Advanced Edition Unlimited is installed, remove the ITLM file from one of the following directories depending on your operating system.

Windows

x:\Program Files\IBM\DB2InformationIntegrator\V8\

x is the drive where DB2 Information Integrator is installed.

UNIX /opt/IBM/DB2InformationIntegrator/V8/

Topic Title: Removing the DB2 Information Integrator and DB2 product license keys

Location in the DB2 Information Center:

Installing —> Information integration —> Removing DB2 Information Integrator from your system

Addition 1

If you are removing Advanced Edition or Advanced Edition Unlimited, you must remove the IBM Tivoli License Manager file in addition to removing the product license keys.

The following table shows the ITLM files for each edition and operating system.

Table 4. Table of file names for the DB2 Information Integrator ITLM file

Operating system	Advanced Edition ITLM file name	Advanced Edition Unlimited ITLM file name
AIX	db2iiaex080200.sys	db2iiuex080200.sys
Linux	db2iiael080200.sys	db2iiuel080200.sys
HP-UX	db2iiaeh080200.sys	db2iiueh080200.sys
Solaris	db2iiaes080200.sys	db2iiues080200.sys
Windows	db2iiaew080200.sys	db2iiuew080200.sys

Addition 2

To remove the DB2 Information Integrator license key and the ITLM file, you must have administrator authority.

Addition 3

The following step is added to the original topic:

9. If you are removing Advanced Edition or Advanced Edition Unlimited, remove the ITLM file from one of the following directories depending on your operating system:

Windows

x:\Program Files\IBM\DB2InformationIntegrator\V8\

x is the drive where DB2 Information Integrator is installed.

UNIX /opt/IBM/DB2InformationIntegrator/V8/

Configuring

Topic Title: Transparent DDL

Location in the DB2 Information Center:

Configuring —> Federated systems and data sources —> Configuring a federated system —> Creating and modifying remote tables by using transparent DDL

Addition

In a multiple partitioned environment, you must run transparent DDL statements at the catalog partition.

Topic title: Adding data sources to a federated server using the DB2 UDB Control Center

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Data source configuration - overview

Correction

The following prerequisite should be added to this topic:

Prerequisite: To use the discover feature to create server definitions for Microsoft SQL Server data sources, you must edit the data source configuration file before you use the discover feature.

To edit the data source configuration file:

- 1. Determine the name of the data source configuration file. The data source configuration file is specified in the db2dj.ini file in the ODBCINI entry. Typically, the name of the data source configuration file is odbc.ini or .odbc.ini.
- 2. Edit the data source configuration file.
- 3. In the data source configuration file, locate the Microsoft SQL Server data sources in the [ODBC Data Sources] section.
- 4. Add entries for the Microsoft SQL Server data sources that you want to access, if entries for the data sources do not already exist. The entry must include the text SQL Server.
 - For example, the entry for a DSN with the name mssqldsn is: mssqldsn=Microsoft SQL Server 2003
- 5. Save the changes to the data source configuration file.

Topic title: Registering server definitions for a data source

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Data source configuration - overview

Correction

The federated server does not verify whether the version of the server that you specify in the CREATE SERVER statement matches the version of the data source server. If you specify an incorrect version in the CREATE SERVER statement, you might receive SQL errors. Errors can occur when you issue SQL statements that specify a nickname that relies on the inaccurate server definition.

Topic title: CREATE SERVER statement options - BioRS wrapper

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring BioRS data sources —> Adding BioRS data sources to a federated server

Correction

The text that describes the VERSION parameter is not correct. The correct text is:

VERSION

Specifies the version of the BioRS server. Examples of valid values are 5.0 or 5.2.1.10. If you to do not specify the VERSION parameter, the default value 1.0 is used. This default value is used for backward compatibility, and is equivalent to specifying the version 5.0.

Topic title: Constructing BLAST SQL queries

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring BLAST data sources —> Adding BLAST to a federated system

Correction

Wrappers that require predicates, such as the BlastSeq fixed input column, cannot process queries that result in a left outer join on the required predicate.

```
For example, the following query returns an SQL0901N error:

SELECT n1.Score FROM blastNN1 n1

LEFT OUTER JOIN myseqs n2 ON N1.BlastSeq = n2.seq
```

Addition

If the BlastSeq column for a BLAST nickname is defined as a CLOB data type, you must create sequence match function templates before you can query BLAST data sources. The SQL statements that you issue on the federated database to create the function templates are:

```
CREATE FUNCTION lblast.sequence_match (CLOB, CLOB)

RETURNS INTEGER AS TEMPLATE DETERMINISTIC NO EXTERNAL ACTION;

CREATE FUNCTION lblast.sequence_match (CLOB, VARCHAR(1))

RETURNS INTEGER AS TEMPLATE DETERMINISTIC NO EXTERNAL ACTION;

CREATE FUNCTION lblast.sequence_match (VARCHAR(1), CLOB)

RETURNS INTEGER AS TEMPLATE DETERMINISTIC NO EXTERNAL ACTION;

CREATE FUNCTION lblast.sequence_match (VARCHAR(1), VARCHAR(1))

RETURNS INTEGER AS TEMPLATE DETERMINISTIC NO EXTERNAL ACTION;
```

Topic Title: Registering nicknames for business application data sources

Location in the DB2 Information Center:

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring business application data sources —> Adding business applications to a federated system

Correction

The following sentence should be included in the introduction to registering nicknames:

The DB2 Control Center generates unique nicknames by grouping part names or element names with the column name from the XML schema document.

Topic title: Custom functions and Entrez queries

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring Entrez data sources —> Adding Entrez to a federated system —> Queries and custom functions for Entrez data sources

Correction

When you use the CONTAINS function on a fetch key, the results of the query might not be accurate. The fetch key for PubMed nicknames is pmid. The fetch key for Genbank nicknames is gi.

For example, the following SELECT statement uses the CONTAINS function. When you issue this statement, no rows are returned:

```
SELECT g.gi,g.seqlength FROM gbseq g
WHERE entrez.contains(g.gi,'23273757')=1;
```

If you issue the SELECT statement with an equal predicate, the rows are returned:

```
SELECT g.gi,g.seqlength FROM gbseq g
WHERE g.gi = '23273757';
```

Rows that are not returned when you use the CONTAINS function, but are returned when you use an equal predicate, might be marked as dead in the Entrez database and not available for search.

Topic Title: What is Extended Search?

Location in the DB2 Information Center:

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring Extended Search data sources

Addition

To use Extended Search with WebSphere, you must have Extended Search 4.0.2 and WebSphere 5.1.1.

Topic title: Extended Search vertical tables

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring Extended Search data sources

Correction

The last table in this topic lists the fixed columns that the wrapper creates when the VERTICAL_TABLE option is used. In the list of valid data types that the column FIELD_DATATYPE can represent, the DOUBLE data type is also a valid data type.

Topic title: Extended Search wrapper - query guidelines

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring Extended Search data sources

Correction 1 of 5

When an SQL query contains predicates in the WHERE clause that the Extended Search wrapper cannot process, the following SQL0901N error is returned:

```
SQL0901N The SQL statement failed because of a non-severe system error. Subsequent SQL statements can be processed. (Reason "sqlno_crule_remote_pushdow[200]:rc(-2144272270) Error generatin".) SQLSTATE=58004
```

The following examples show queries that return the SQL0901N error.

Example of a query without a predicate::

```
SELECT E.COLUMN FROM ES_NICKNAME as E
```

Example of query that uses the ANY, ALL, SOME, or EXIST predicates::

```
SELECT E.COLUMN
FROM ES_NICKNAME as E
WHERE E.COLUMN = ALL (SELECT COL FROM TABLE)
```

Example of a query that uses the NOT IN predicate and is not supported with a FULL SELECT clause::

```
SELECT E.COLUMN
FROM ES_NICKNAME as E
WHERE E.COLUMN NOT IN (SELECT COL FROM TABLE)
```

Example of a query that uses the IN predicate and is not supported with a FULL SELECT clause::

```
SELECT E.COLUMN
FROM ES_NICKNAME as E
WHERE E.COLUMN IN (SELECT COL FROM TABLE)
```

Example of a query that uses a fixed column predicate::

```
SELECT E.COLUMN
FROM ES_NICKNAME as E
WHERE DOC ID = 'ABC'
```

If the SQL query contains at least one predicate that the Extended Search wrapper can process, the query is accepted and run.

The following example shows a query that does not return the error.

```
SELECT E.COLUMN
FROM ES_NICKNAME as E
WHERE E.COLUMN IN (SELECT COL FROM TABLE)
AND E.COLUMN = 'ABC
```

The predicate E.COLUMN IN (SELECT COL FROM TABLE) is rejected by the Extended Search wrapper, but the predicate E.COLUMN = 'ABC' can be processed by the Extended Search wrapper.

Correction 2 of 5

The Extended Search wrapper can process queries that specify the SQL LIKE predicate if the General Query Language (GQL) that Extended Search uses can process the LIKE predicate. The data sources that support the LIKE predicate are listed in the GQL support matrix in the *IBM Lotus Extended Search Programming*.

Examples of valid SQL statements with the LIKE predicate:

```
SELECT * FROM nickname WHERE title LIKE "%defense%"

SELECT * FROM nickname WHERE title LIKE "%defense"

SELECT * FROM nickname WHERE title LIKE "defense%"
```

Example of an invalid SQL statement with the LIKE predicate:

```
SELECT * FROM nickname WHERE title LIKE "defen e"
```

In this example, the Extended Search wrapper cannot convert the single character specification in the SQL query into a valid GQL statement.

Correction 3 of 5

Limitations of the Extended Search data sources affect the queries that you can run. Before you run queries on Extended Search data sources, check the data types, the operators in the predicates, and the target Extended Search data sources. For example, you cannot specify combinations of AND, OR, or SUBTRACT predicates in the es_search() table function queries for File System data sources on the Extended Search server. For a complete list of supported predicates, see the GQL support matrix in *IBM Lotus Extended Search Programming*.

Correction 4 of 5

When you use an SQL date expression with the Extended Search custom function ESWRAPPER.ES_SEARCH, you must use the YYYYMMDD date format. For example, for December 31, 2004, the date that you specify is 20041231.

Correction 5 of 5

Some of the Extended Search wrapper data sources do not support comparison operators in string fields. Examples of data sources that do not support comparison operators are File System, Lotus Notes Formula, Lotus Notes Full Text, and Web. The types of operators that are not supported include the greater than, less than, less than or equal to, and greater than or equal to operators.

For example, the following query returns an SQL1822N error. This query selects data from a VARCHAR column with the column name LA.

SELECT YEAR(JournalDate) FROM notes.alzheimer 13 WHERE LA > 'A';

The following error is returned from this query:

SQL1822N Unexpected error code "ES Non-critical Error" received from data source "ES Server: iisvtnt2.sv". Associated text and tokens are "DBCQAE0011 Cannot transla". SQLSTATE=560BD

The GQL support matrix that is in the *IBM Lotus Extended Search Programming* document lists the comparison operator limitations.

Topic title: Registering the Extended Search wrapper

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring Extended Search data sources —> Adding Extended Search data sources to a federated system

Correction

The following prerequisite applies to this topic:

Prerequisite: With IBM Lotus Extended Search, Version 4.0, values that are returned from the Extended Search server might not be converted from the Extended Search server operating system code page to UTF-8. Before you register the Extended Search wrapper, you must do either of these tasks:

- Install fix pack 1 for IBM Lotus Extended Search, Version 4.0 on the Extended Search server.
- Change the Extended Search server operating system code page. To change the Extended Search server operating system code page, you must add a line to the esNLS.ini file on the Extended Search server. The esNLS.ini file is in the Extended_Search_installation_path/config directory. Add the following line to the esNLS.ini file:

```
A.ALL.File\ System.Title=1
```

Then stop and restart the Extended Search Server and the Extended Search Remote Method Invocation Server.

Topic title: Construct new HMMER queries with samples

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring HMMER data sources —> Adding HMMER to a federated server

Correction

Wrappers that require predicates, such as the HmmerQSeq fixed input column, cannot process queries that result in a left outer join on the required predicates. For example, the following query returns an SQL0901N error:

```
SELECT n1.Score FROM hmmerNN1 n1
  LEFT OUTER JOIN myseqs n2 ON N1.HmmerQSeq = n2.seq
```

Addition

If the HMMQSEQ column for a HMMER nickname is defined as a CLOB data type, you must create sequence match function templates before you can query HMMER data sources. The SQL statements that you issue on the federated database to create the function templates are:

```
CREATE FUNCTION <code>lshmmer.sequence_match</code> (CLOB, CLOB)

RETURNS <code>INTEGER</code> AS TEMPLATE DETERMINISTIC NO EXTERNAL ACTION;

CREATE FUNCTION <code>lshmmer.sequence_match</code> (CLOB, VARCHAR(1))

RETURNS <code>INTEGER</code> AS TEMPLATE DETERMINISTIC NO EXTERNAL ACTION;

CREATE FUNCTION <code>lshmmer.sequence_match</code> (VARCHAR(1), CLOB)

RETURNS <code>INTEGER</code> AS TEMPLATE DETERMINISTIC NO EXTERNAL ACTION;

CREATE FUNCTION <code>lshmmer.sequence_match</code> (VARCHAR(1), VARCHAR(1))

RETURNS <code>INTEGER</code> AS TEMPLATE DETERMINISTIC NO EXTERNAL ACTION;
```

Topic title: KEGG user-defined functions - overview

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring KEGG data sources using KEGG user-defined functions

Correction 1 of 2

The KEGG user-defined functions use the KEGG API, Release 2.3.

Correction 2 of 2

On some networks, access to the Internet must go through a firewall. To use the KEGG user-defined functions with a firewall, you can set up proxy support using the steps described in the topic "The Web service consumer functions" in the *IBM DB2 Information Integrator Application Developer's Guide*.

Topic title: Registering the KEGG user-defined functions

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring KEGG data sources using KEGG user-defined functions

Correction 1 of 2

To use the KEGG user-defined functions, you must enable the XML Extender and the SOAP user-defined functions:

- 1. Run the dxxadm enable_db database_name command.
- 2. Run the db2enable soap udf -n database name command.
- 3. Run the enable_KEGGFunctions command.

Correction 2 of 2

There is a new flag for the command to enable the KEGG user-defined functions. The correct syntax is:

```
enable_KEGGFunctions -n dbName
-u userID -p password [-force] [-url endpointURL]
```

The definition for the endpointURL is: The endpoint URL for the KEGG Web services API, version 2.3. The default URL is set to http://soap.genome.ad.jp/keggapi/request_v2.3.cgi. The endpointURL flag is necessary only if the KEGG Web services API, version 2.3 changes the name or location of the endpoint URL.

Topic title: Disabling the KEGG user-defined functions

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring KEGG data sources using KEGG user-defined functions

Correction

After you disable the KEGG user-defined functions, you can disable the XML Extender and the SOAP user-defined functions:

- 1. Run the disable KEGGFunctions command.
- 2. Run the db2disable_soap_udf -n database_name command.
- 3. Run the dxxadm disable db database name command.

Topic title: Adding ODBC data sources to a federated server

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring ODBC data sources

Correction

The following text has been added to the Restrictions section in this topic:

 The ODBC wrapper does not support operations on tables that contain columns with data types that use driver-specific SQL data type indicators. The type of operations that are not supported include the CREATE NICKNAME and SELECT statements in the pass-thrugh mode. The ODBC wrapper supports only the SQL data type indicators that are defined by the ODBC standard in the *Microsoft ODBC Programmer's Reference*.

Topic title: Tuning and troubleshooting the configuration to ODBC data sources

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring ODBC data sources —> Adding ODBC data sources to federated servers

Correction

If queries fail because of data source syntax errors, set the PUSHDOWN server option value to 'N', or remove the PUSHDOWN server option.

Topic title: Testing the connection to the Teradata server

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring Teradata data sources —> Adding Teradata data sources to a federated system

Correction

To verify that the character set that you want to use is installed on the Teradata server:

- 1. Log on to the Teradata server by using the BTEQ utility or any other valid logon utility.
- 2. Issue the following statement to display the dbc.chartranslations table: select * from dbc.chartranslations;
- 3. Check the value in the third column, InstallFlag, of the table that is returned. The value 'Y' in the third column indicates that the character set is installed and in use on the Teradata server.

Use the following table to determine if you have the correct character set installed:

Table 5. Character sets for Teradata

Double- byte character set	Single- byte character set	Teradata character set	Language	IBM DB2 code set
941	897	"KanjiSJIS_0S"	Japanese	IBM-943
1362	1126	"HANGULKSC5601_2R4"	Korean	1363
1385	1114	"SCHGB2312_1T0"	Simplified Chinese	GBk
380	1115	"SCHGB2312_1T0"	Simplified Chinese	IBM-1381
947	1114	"TCHBIG5_1R0"	Traditional Chinese	big5
1200	1208	"UTF8"	Unicode	UTF-8
0	819	"Latin1_0A"	English (Latin 1)	ISO8859-1
0	1252	"Latin1252_0A"	English (Win Latin)	ISO8859- 1/15

- 4. If you do not have the required character set installed, install the character set to use the Teradata wrapper.
 - If the character set that you want to use is listed in the dbc.chartranslations table, but the InstallFlag value is set to 'N', issue the following statement to change the InstallFlag to 'Y': update dbc.chartranslations
 - set installflag='Y' where CharSetName= 'character_set_name';
 - If the character set that you want to use is not listed in the dbc.chartranslations table, contact Teradata customer support.
- 5. Restart the Teradata server to update the list of character sets. In a Teradata command window, enter:

tpareset -f reason_for_restart

Topic Title: Registering nicknames for Web services data sources

Location in the DB2 Information Center:

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring Web services data sources —> Adding Web services to a federated system

Correction 1 of 2

The following sentence should be included in the introduction to registering nicknames:

If a WSDL operation has an input variable that contains optional grouping elements for the value, then the DB2 Control Center generates input-only child nicknames. You can use these nicknames to specify optional input by joining the input-only nickname with the root of the nickname hierarchy for that operation.

Correction 2 of 2

The following sentence should be included in the introduction to registering nicknames:

When the DB2 Control Center generates a child nickname that is used only for input, the XPATH nickname option contains a period, as in the following example:

XPATH '.'

Topic title: Web services wrapper library files

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources —> Configuring Web services data sources

Correction

The Web services wrapper is supported on Solaris. The name of the library file for Solaris is libdb2ws.so.

Topic title: What is XML?

Location in the DB2 Information Center

Configuring —> Federated systems and data sources —> Configuring data sources -> Configuring XML data sources

Correction

Vendor-defined characters are retrieved as alternative characters. The XML parser extracts the data from the XML document and converts it into UTF-16, the native code page of the XML parser. The XML wrapper then extracts the data from the XML parser. The wrapper receives the data in UTF-16 and converts it into the federated database code page.

The XML wrapper does not support vendor-defined characters in the XML instance documents.

Topic Title: Planning for SQL replication

Location in the DB2 Information Center:

Configuring -> Replication and event publishing -> Configuring for SQL replication

Correction

In the section entitled "Planning for conflict detection," the referential integrity rules are not restricted for conflict detection.

Topic Title: Setting up WebSphere MQ for Q replication and event publishing—Overview

Location in the DB2 Information Center:

Configuring —> Replication and event publishing —> Configuring for Q replication and event publishing

Correction

Q replication and event publishing require WebSphere MQ Express Version 5.3 Fix Pack 05 (CSD05).

Topic Title: WebSphere MQ objects required for bidirectional or peer-to-peer replication (two remote servers)

Location in the DB2 Information Center:

Configuring —> Replication and event publishing —> Configuring O replication and event publishing -> Setting up WebSphere MQ -> WebSphere MQ objects required for Q replication and event publishing

Correction

For bidirectional or peer-to-peer replication, only one transmission

queue and channel are needed at each server for each remote queue manager to which you need to send messages. The diagram in this topic should also show only one transmission queue and channel in each direction between the two servers.

Topic Title: Required settings for WebSphere MQ objects

Location in the DB2 Information Center:

Configuring —> Replication and event publishing —> Configuring Q replication and event publishing —> Setting up WebSphere MQ

Correction

The disconnect interval (DISCINT) parameter applies only to sender channels.

Topic Title: Configuring the source database to work with the Q Capture program (Linux, UNIX, Windows)

Location in the DB2 Information Center:

Configuring —> Replication and event publishing —> Configuring Q replication and event publishing —> Configuring servers —> Configuring databases for Q replication and event publishing (Linux, UNIX, Windows)

Correction

The command in step 1 of the procedure is incorrect. To check your current setting to see what the LOGRETAIN parameter is set to, enter the following command:

db2 get database configuration for database

Where *database* is the database that contains your source data.

Administering

Topic Title: Nickname statistics update facility - overview

Location in the DB2 Information Center:

Administering —> Federated systems —> Updating nickname statistics

Correction 1 of 2

The introductory sentence for the first list of statistics should read: You can update the following statistics for relational nicknames if the wrapper retrieved them when the nickname was created.

Correction 2 of 2

The introductory sentence for the second list of statistics should read: You can update the following statistics for nonrelational nicknames and relational nicknames that the wrapper cannot retrieve statistics for when the nickname was created.

Addition

Excel is added to the list of data sources that support nickname statistics.

Topic title: Event Publishing

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing

Correction

Tip: The asnqwxml sample program provides an example of a Web-based application that consumes the XML messages that the Q Capture program publishes. The sample demonstrates how to use XML publications in a business scenario.

Topic Title: Q subscriptions

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Objects for Q replication and event publishing

Correction

Recommendation: In a multiple partitioned database environment, if there are tables with referential integrity relationships, ensure that both the parent and child are on the same partition. If the parent and child are in a referential integrity relationship and are not on the same partition, you might see referential integrity issues at the target that might result in SQLSTATES 23504, 23001, or 23503 (which correspond to SQLCODES 530 and 532).

Topic Title: Starting bidirectional or peer-to-peer replication with two servers and Starting a peer-to-peer group with three or more servers

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Setting up Q replication —> Setting up multidirectional replication from sources to targets -> Starting multidirectional replication

Correction

You must start the Q Capture programs before you start the Q Apply programs for the Q subscriptions in bidirectional or peer-to-peer replication.

Topic Title: Changing attributes of Q subscriptions

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Changing a Q replication environment

Correction

You can change attributes for Q subscriptions that participate in unidirectional, bidirectional, or peer-to-peer replication. In addition to the attributes that are listed, you can change the following attributes for Q subscriptions:

- source_colname
- · target_colname
- target_colno
- description
- error_action
- has_loadphase
- load_type
- src_nickname
- src_nickname_owner

- sendq
- recvq
- target_name
- · target_owner
- target_type
- conflict_action
- before_values
- · conflict rule
- changed_cols_only
- is_key

For instructions on how to change these additional attributes for Q subscriptions, see the technote entitled "Changing attributes for Q replication and event publishing objects" at the DB2 Information Integrator support Web site:

www.ibm.com/software/data/integration/db2ii/support.html.

Topic Title: Adding columns to existing Q subscriptions

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Changing a Q replication environment

Correction

Perform an ALTER TABLE ADD COLUMN operation for the source table in the same transaction as the insert of the ADDCOL signal. You can perform the two SQL statements in any order.

Topic Title: Changing attributes of replication queue maps

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Changing a Q replication environment

Correction

In addition to the attributes that are listed, you can change the following attributes for replication queue maps:

- sendq
- recvq
- · description

For detailed instructions on how to change these additional attributes for replication queue maps, see the technote entitled "Changing attributes for Q replication and event publishing objects" at the DB2 Information Integrator support Web site: www.ibm.com/software/data/integration/db2ii/support.html.

Topic Title: Changing attributes of XML publications

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Changing an event publishing environment

Correction

In addition to the attributes that are listed, you can change the following attributes for XML publications:

- before values
- changed_cols_only
- description
- sendq
- src_colname
- is_key
- topic

For detailed instructions on how to change these additional attributes for XML publications, see the technote entitled "Changing attributes for O replication and event publishing objects" at the DB2 Information Integrator support Web site: www.ibm.com/software/data/integration/db2ii/support.html.

Topic Title: Adding columns to existing XML publications

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Changing an event publishing environment

Correction

Perform an ALTER TABLE ADD COLUMN operation for the source table in the same transaction as the insert of the ADDCOL signal. You can perform the two SQL statements in any order.

Topic Title: Changing attributes of publishing queue maps

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Changing an event publishing environment

Correction

In addition to the changeable attributes that are listed, you can change the following attributes for publishing queue maps:

- sendq
- · message_format

For detailed instructions on how to change these additional attributes for publishing queue maps, see the technote entitled "Changing attributes for Q replication and event publishing objects" at the DB2 Information Integrator support Web site: www.ibm.com/software/data/integration/db2ii/support.html.

Topic title: Running and saving SQL scripts from the Replication Center

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Running SQL scripts and commands from the Replication Center

Correction

Prerequisites

Before you run an SQL script from a command line, you

must connect to the server and specify a user ID and password for the server. If you will connect to the database from the command line, specify the CONNECT TO statement as follows:

CONNECT TO database USER user_ID USING password

Where *database* is the name of the server that you are connecting to, *user_ID* is a valid user ID, and *password* is the password for that user ID. If you specify the CONNECT TO statement in a file, use a semicolon (;) at the end of the statement. Here is an example:

CONNECT TO *database* USER *user ID* USING *password*;

database is the name of the server that you are connecting to, user_ID is a valid user ID, and password is the password for that user ID.

Topic Title: Considerations for general data types for Q replication and event publishing

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Data type considerations

Correction

Columns with the GRAPHIC data type at the source and target might not match when you use the tdiff utility to check that the source and target tables are the same. DB2 Universal Database columns with the GRAPHIC data type have blank padding after the graphic data. This padding might be single-byte or double-byte spaces, depending on the code page that the database was created in. This padding potentially can cause data to not match between the source and the target tables, especially if the source and target tables are in different code pages. This padding applies only to GRAPHIC data types and not other graphic data types such as VARGRAPHIC or LONG VARGRAPHIC.

To compare columns with GRAPHIC data types, you must remove the blank padding in the data before you compare the source and target tables by using the DB2 scalar function: rtrim(<column>)

This function eliminates the code page differences for single-byte or double-byte spaces and ensures that the tdiff utility compares the GRAPHIC data in a consistent manner.

Topic title: Starting Q Capture program

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Q replication and event publishing —> Using system services to operate the replication programs—> Operating the Q replication and event publishing programs by using system services (z/OS) —> Using JCL

Correction

Specifying the directory for the transaction log on z/OS

You must specify a path where the data set that contains the transaction log will be stored. The CAPTURE_PATH parameter contains the path where the replication and publishing programs send their transaction logs. If you do not specify the CAPTURE_PATH parameter, the Q Capture program writes its log files to the home directory of the user who submits the JCL to start the program.

You can specify the path for the log file in JCL or in the IBMQREP_CAPPARMS table.

Procedure:

To specify the path in JCL:

Specify the CAPTURE_PATH parameter in the PARM field of the JCL statement that will start the Q Capture program.

• Here is an example that you can use to specify the CAPTURE_PATH parameter:

```
// PARM='/CAPTURE_SERVER=DSN7 CAPTURE_PATH=//JAYQC
// LOGSTDOUT capture_schema_JAY'
```

In this example, the Q Capture program writes its log files to the USER1.JAYQC.D7DP.JAY.QCAP.LOG file. USER1 is the user who submits the JCL.

• If you want the data set for the log to have a specific high level qualifier, use this example:

```
// PARM='/capture_server=DSN7 capture_schema=JAY
// CAPTURE_PATH=//''0EUSR01'
```

Now the Q Capture program writes its log files to the OEUSR01.DSN7.JAY.QCAP.LOG file.

• If you want to specify the path to SYSADM.XYZ, use one of the following examples:

```
// PARM='/CAPTURE_server=DSN7 Capture_path=//''SYSADM.XYZ
// capture_schema=JAY'
// PARM='/CAPTURE_server=DSN7 capture_schema=JAY
// capture_PATH=//''SYSADM.XYZ'
```

Ensure that the path name does not exceed the 44 character limit for MVS data sets. The user ID that runs this JCL must be authorized to write to the above data set.

To specify the path in the IBMQREP_CAPPARMS table:

• Use the following example:

• If you want the data set for the log to have a specific high level qualifier, use this example:

```
INSERT INTO JAY.IBMQREP_CAPPARMS (qmgr, restartq, adminq, startmode, memory_limit, commit_interval, autostop,monitor_interval,monitor_limit, trace_limit, signal_limit, prune_interval, sleep_interval, logreuse, logstdout, term,
```

• To specify the path to SYSADM.XYZ, use this example:

Topic Title: Tdiff: Table difference utility

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Administering Q replication and event publishing —> Detecting and repairing differences between source and target tables

Correction

When you run the **asntdiff** command, you specify an SQL WHERE clause that uniquely identifies the Q subscription or subscription set member:

Q replication

The WHERE clause identifies a row in the IBMQREP_SUBS control table at the Q Capture server, based on the value of the SUBNAME column, for example:

```
where="subname = 'my qsub'"
```

SQL replication

The WHERE clause identifies a row in the IBMSNAP_SUBS_MEMBR table at the Apply control server, based on the value of the SET_NAME column. For example:

```
where="set_name = 'my_set' and source_table='EMPLOYEE'"
```

You might need to use more predicates in the WHERE clause to uniquely identify the subscription set member. For example, you might need to add the APPLY_QUAL, the SOURCE_OWNER, the TARGET_OWNER, or the TARGET_TABLE column from the IBMSNAP_SUBS_MEMBR table to the clause.

Difference table:

The difference table uses three identifiers that indicate the operation that is needed to change the target table so that it matches the source table:

- D (delete): Indicates that a row with the key value exists at the target and not at the source.
- U (update): Indicates that rows with the same key value exist at both the source and target, but at least one non-key column is different at the target.

• I (insert): Indicates that a row with the key value exists at the source and not at the target.

A value of ? 1 indicates that there is an invalid character in one or more source columns.

A value of ? 2 indicates that there is an invalid character in one or more target columns.

Example:

The following list of values is returned by comparing an EMPLOYEE table at the source with a target copy of the same table. The key column for replication is the employee number, EMPNO:

D]	[F F	EMPN0
U	2	000010
Ι	2	000020
Ι	2	000040
D	2	000045
Ι	2	000050
D	2	000055

The second row in the example shows that a row with the key value 000010 exists at both the source and target tables, but at least one non-key column at the target has a different value. The next two rows show that rows with the key values 000020 and 000040 exist only at the source. The fourth row shows that a row with the key value 000045 exists only at the target.

In some cases, differences between the source and target tables are intentional, for example, if you use a search condition in Q replication to filter which rows are replicated. The asntdiff command does not show differences between source and target tables that are a result of the following options for Q replication or SQL replication:

Q replication

- A search condition that limits which rows are replicated
- The option to suppress replication of delete operations from the source

SQL replication

- A subscription set member predicate
- An SQL expression used to create the target column

Topic title: Considerations for rebinding packages and plans for Q replication and event publishing

Location in the DB2 Information Center:

Administering —> Replication and event publishing —> Q replication and event publishing —> Maintaining a Q replication and event publishing environment —> Maintaining control tables

Correction

For z/OS

The Q Capture program, Q Apply program, and Common packages are bound automatically. You can use the z/OS

sample ASNQBNDL to bind ASNCOMMON, ASNQCAPTURE, ASNQAPPLY, and ASNMON packages at a DB2 Universal Database subsystem.

DB2 Information Integrator Replication for z/OS specifies VERSION AUTO when it precompiles. So, DB2 Universal Database for z/OS automatically frees any packages that are older than the two most current versions.

Topic Title: Customizing the XML Metadata Registry home page

Location in the DB2 Information Center:

Administering —> Administering XML metadata with the XML Metadata Registry

Correction

The sentence in step 1 about where the registry home page is displayed has changed to include the login page:

The information in the About section of the home page is also displayed on the login page.

Topic Title: Enabling version control for objects in the XML Metadata Registry

Location in the DB2 Information Center:

Administering —> Administering XML metadata with the XML Metadata Registry —> Controlling versions

Correction

You must have full access to an object to enable version control.

Topic Title: Access groups in the XML Metadata Registry

Location in the DB2 Information Center:

Administering —> Administering XML metadata with the XML Metadata Registry —> Managing user registration, object access, and security

Correction

You must have Write access to an access group to add or remove members from it.

Topic Title: Disabling access to the XML Metadata Registry for users or access groups

Location in the DB2 Information Center:

Administering —> Administering XML metadata with the XML Metadata Registry —> Managing user registration, object access, and security

Correction

When you click **Enable** or **Disable** to grant or revoke access to the XML Metadata Registry, the change occurs immediately. If you are logged in as the user that you disable access for, the Login page is displayed when you click Disable. Otherwise, the notebook for the user or access group that you are editing does not change.

Topic Title: Enabling automatic registration for the XML Metadata Registry

Location in the DB2 Information Center:

Administering —> Administering XML metadata with the XML Metadata Registry —> Managing user registration, object access, and security

Correction

This topic incorrectly states that the **Enable the Register a user feature** link is in the About this Registry section of the home page. The link is in the Using the Registry section of the home page if automatic registration is not enabled. You might need to scroll down on the section to see the link.

Topic Title: Disabling automatic registration for the XML Metadata Registry

Location in the DB2 Information Center:

Administering —> Administering XML metadata with the XML Metadata Registry —> Managing user registration, object access, and security

Correction

This topic incorrectly states that the **Disable the Register a user feature** link is in the About this Registry section of the home page. The link is in the Using the Registry section of the home page if automatic registration is enabled. You might need to scroll down on the section to see the link.

Monitoring

Topic Title: The Replication Alert Monitor

Location in the DB2 Information Center:

Monitoring —> Replication and event publishing

Correction

Restrictions on z/OS servers

- The Replication Alert Monitor can send e-mail notifications by using an SMTP server, but cannot use the ASNMAIL exit routine to handle notification.
- A monitor that runs from a z/OS server can monitor status only for Capture, Q Capture, Apply and Q Apply programs that run on z/OS servers. The Replication Alert Monitor cannot check Linux, UNIX, and Windows environments for the following alert conditions when it runs from a z/OS server:
 - CAPTURE_STATUS
 - QCAPTURE_STATUS
 - APPLY_STATUS
 - QAPPLY_STATUS

However, a monitor that runs on a Linux, UNIX, or Windows server can monitor a Capture, Q Capture, Apply or a Q Apply program that runs on z/OS. Install the DB2 Administration Server on the system where the replication programs will run. For example, MONITOR1, which runs on SERVER_LINUX1 can monitor a Q Apply program that runs on SERVER_ZOS1 if the DB2 Administration Server is installed on SERVER_ZOS1.

Topic Title: Setting up the Replication Alert Monitor

Location in the DB2 Information Center:

Monitoring —> Replication and event publishing

Correction

Linux, UNIX, and Windows: To use the QAPPLY_QDEPTH and QAPPLY_SPILLQDEPTH alert conditions, copy the following library from the sqllib/bin/routine directory to the sqllib/function/unfenced directory:

Linux and UNIX

asnqmon

Windows

asnqmonasnqmon.dll

Developing

Topic Title: Why develop a wrapper?

Location in the DB2 Information Center:

Developing —> Connections (wrappers) to customer data sources —> Developing wrappers – overview

Correction

In the figure entitled "Query to request IDs of molecules similar to molecules with a result > 0.8 in a stomach experiment", the last line E.MOLE_ID should be E.MOLECULE_ID.

Topic Title: Wrapper development kit

Location in the DB2 Information Center:

Developing —> Connections (wrappers) to customer data sources —> Developing wrappers – overview

Correction

The Windows environment variable %DB2PATH% should be %DB2TEMPDIR%, which represents the environment variable that is used to specify a temporary directory path on Windows.

Topic Title: Control flow for query planning

Location in the DB2 Information Center:

Developing —> Connections (wrappers) to customer data sources —> Developing and documenting wrappers —> Overview of data flows —> Control flows for processes

Correctior

Some of the step numbers that are referenced from the process are incorrect:

- Step 10 should read: "The wrapper determines whether a data source can compute the value of the head expression that is represented by Request_Exp. The wrapper repeats step 9 [not step 12] recursively descending the Request_Exp tree until a the wrapper makes a decision."
- Step 12 should read: "Repeat steps 8-11 [not steps 9-12] for each additional head expression in the request."
- Step 17 should read: "Repeat steps 14-16 [not steps 15-17] for each additional predicate in the request."

Topic Title: Dynamic database queries that use the Web services provider

Location in the DB2 Information Center:

Developing —> Web services and federated Web applications —> Developing applications that use the Web services provider —> Using dynamic database queries

Correction

The supported functions for dynamic query services should include the delete function:

With dynamic query services, you can dynamically build and submit queries at run time that select, insert, update, and delete application data, and call stored procedures rather than run queries that are predefined at deployment time.

Topic Title: Starting and stopping the application server for DB2 in Information Integrator

Location in the DB2 Information Center:

Developing —> Web services and federated Web applications —> Deploying and testing Web applications

Correction

You can install and configure the Web services provider, the Web services provider applications (including the Web services provider samples), and JDBC providers and enable and disable a trace on an application server for DB2 by using a script that is included in the \bin directory of the dxxworf.zip file. The application server for DB2 must be running.

Prerequisite

To install and configure the Web services provider runtime on an application server for a DB2 Universal Database system, follow installation instructions steps 1–4 in the topic "Installing or migrating WORF to work with WebSphere Application Server Version 5 or later for Windows and UNIX."

You can use the worf_eas_admin.jacl script in these ways:

 Install the Web services provider samples on an application server for DB2

The following examples assume that you are familiar with deploying the Web services provider examples, as described in topic "Deploying WORF examples on WebSphere Application Server Version 5.1 or later for Windows and UNIX."

 Optional: Use the following command to install a JDBC provider that is used by the Web services provider samples Web application:

```
$appserv_install_dir\bin\wsadmin.bat -f worf_eas_admin.jacl
configureJDBC
  -name db2jdbc
  -classPath "C:\\SQLLIB\\java\\db2java.zip"
  -iClassName COM.ibm.db2.jdbc.app.DB2Driver
```

From the command line in Windows, use either \\ or /as the directory delimiter.

 Optional: Use the following command to install the Web services provider samples:

```
$appserv_install_dir\bin\wsadmin.bat -f worf_eas_admin.jacl
installApp
-warPath "C:\\worf\\lib\\axis-services.war"
-contextRoot services
-appName WorfAxis
```

From the command line in Windows, use either \\ or /as the directory delimiter.

• Install user-created Web services provider Web applications on an application server for DB2

You can issue the following command to install and configure Web Services provider Web applications:

 worf_eas_admin.jacl (use one of the following six optional keywords)

```
installApp <parameters>
configureJDBC <parameters>
uninstallApp <parameters>
removeJDBC <parameters>
enableTrace
disableTrace
```

installApp

Installs a Web application that is based on the following parameters:

warPath

The path to the Web archive (WAR) package.

contextRoot

The context root of the application in the application server for DB2.

appName

The name of the application in the application server for DB2. The name must not contain any blank characters.

The following example shows the installApp mode:

```
$appserv_install_dir\bin\wsadmin.bat -f worf_eas_admin.jacl
installApp
   -warPath "C:\\My Files\\WORF\\axis-services.war"
   -contextRoot services
   -appName WorfAxis
```

From the command line in Windows, use either \\ or /as the directory delimiter.

configureJDBC

Configures a JDBC provider. The following parameters are required:

name The name of the JDBC provider in the application server for DB2.

classPath

The CLASSPATH to the Java[™] archive (JAR) packages of the JDBC driver.

iClassName

The name of the implementation class.

The following example shows the configureJDBC mode:

From the command line in Windows, use either \\ or /as the directory delimiter.

uninstallApp mode

Removes an installed application. You must provide the name of the application in the application server for DB2, as in the following example:

```
$appserv_install_dir\bin\wsadmin.bat -f worf_eas_admin.jacl
uninstallApp -appName WorfAxis
```

removeJDBC

Removes a JDBC provider. You must provide the name of the JDBC provider in the application server for DB2, as in the following example:

```
$appserv_install_dir\bin\wsadmin.bat -f worf_eas_admin.jacl
removeJDBC -name db2jcc
```

enableTrace

Enables the trace for the application server for DB2. The application server for DB2 must be running. The following example enables the trace:

```
$appserv_install_dir\bin\wsadmin -f worf_eas_admin.jacl
enableTrace
```

disableTrace

Disables the trace for the application server for DB2. The application server for DB2 must be running. The following example disables the trace:

```
$appserv_install_dir\bin\wsadmin -f worf_eas_admin.jacl
    disableTrace
```

Topic Title: Generating deployment descriptors

Location in the DB2 Information Center:

Developing —> Web services and federated Web applications —> Deploying and testing Web applications

Correction 1 of 3

The following parameters are new for the Dadx2Dd deployment descriptor class:

- -t Optional: Specifies the SOAP encoding style. The valid values are document for document style and RPC for remote procedure call style. The default value is RPC. The style that you select must match the style that is specified in the group.properties file of the group that contains the DADX file.
- -c Specifies the context path of the Web service. The valid values are any string values that are accepted by the Web server. The default is services. The context path must match the path that is used for the installation of the Web services provider Web application on the application server.
- -u Specifies the target namespace that is used in the generated

WSDL document and the XML schema files (XSD) for Web services in the group. The default is http://tempuri.org/<context_path>. The target namespace must match the namespace that you specified in the group.properties file of the group containing the DADX file

The default for the following parameter is changed:

-s If the soap-engine parameter is not specified in the web.xml file, the default soap engine is Apache SOAP.

Correction 2 of 3

All references to the Java package com.ibm.etools.webservice.rt.dadx should be com.ibm.etools.webservice.rt.dadx2dd.

The correction to the example is:

```
java com.ibm.etools.webservice.rt.dadx2dd.Dadx2Dd -r ZipCity.dadx
-p /travel
-n /dxx_travel -i classes\groups\dxx_travel\ZipCity.dadx
-o classes\dds\dxx_travel\ZipCity.isd -c services -t rpc
```

Correction 3 of 3

The dds.xml example is updated to specify an Apache service provider, and an Apache DxxMappingRegistry. The changes in the example are highlighted in the following example:

```
<isd:service xmlns:isd='http://xml.apache.org/xml-soap/deployment'</pre>
  id='http://tempuri.org/travel/ZipCity.dadx'>
   <isd:provider
    type='com.ibm.etools.webservice.rt.framework.apache.ApacheServiceProvider'
    scope='Request
    methods='findCityByZipCode insertZipCodeAndCity
       updateCityForZipCode deleteZipCode'>
    <isd:iava class='com.ibm.etools.webservice.rt.dxx.DxxService'/>
    <isd:option key='group.name' value='/dxx_travel'/>
<isd:option key='group.path' value='/travel'/>
    <isd:option key='group.class.name'</pre>
           value='com.ibm.etools.webservice.rt.dxx.DxxGroup'/>
   </isd:provider>
 <isd:faultListener>org.apache.soap.server.DOMFaultListener
 </id:faultListener>
 <isd:mappings
    defaultRegistryClass=
     'com.ibm.etools.webservice.rt.dxx.apache.DxxMappingRegistry'/>
</isd:service>
</dds>
```

Topic Title: Enabling tracing for the DB2 Web services provider—Apache Tomcat Version 4.0 or later Web application server

Location in the DB2 Information Center:

Developing —> Web services and federated Web applications —> Deploying and Testing Web applications —> Enabling Web services provider tracing

Correction

Specify the default level of trace information as INFO, instead of DEBUG, to maintain better performance. The following example is correct:

log4j.rootCategory=INFO, console, rollingFile

Topic Title: The Web service consumer functions

Location in the DB2 Information Center:

Developing —> Web services and federated Web applications —> Installing the Web services consumer

Correction

You cannot secure the Web services consumer by encrypting messages through HTTPS.

Tuning

Topic Title: Creating a federated materialized query table

Location in the DB2 Information Center:

Tuning —> Federated systems —> Materialized query tables

Addition

When you populate or update a user-maintained materialized query table by using the INSERT statement in a subselect statement, issue the following commands before you issue the INSERT statement so that the same materialized query table is not used as the source of the insert:

SET CURRENT REFRESH AGE 0
SET CURRENT MAINTAINED TABLE TYPE FOR OPTIMIZATION SYSTEM

Topic Title: Data source specific restrictions for materialized query tables

Location in the DB2 Information Center:

Tuning —> Federated systems —> Materialized query tables

Addition 1 of 3

For federated queries, you must specify the -u option for the DB2 Design Advisor command, db2advis. If this option is not specified, the DB2 Design Advisor recommends only refresh immediate materialized query tables. Because the refresh immediate function is not supported for materialized query tables that reference nicknames, no recommendations are provided by the DB2 Design Advisor.

Addition 2 of 3

If the materialized query table recommendation that is provided by the DB2 Design Advisor does not comply with the materialized query table restrictions of the data source, the materialized query table can be created, but it cannot be refreshed. To prevent this situation from occuring, follow the recommendations provided by the DB2 Design Advisor for materialized query tables and ensure that the recommended materialized query table definition is acceptable to the data source.

Addition 3 of 3

In a multi-partitioned environment, the DB2 Design Advisor does not provide materialized query table recommendations that involve nicknames.

Reference

Topic Title: asnqcap: Starting a Q Capture program

Location in the DB2 Information Center:

Reference —> Commands —> Q replication and event publishing commands

Correction

sleep_interval=n

Specifies the number of milliseconds that a Q Capture program is idle after processing the active log and any transactions that remain in memory. The default is 5000 milliseconds (5 seconds).

Topic Title: asntdiff: Comparing data in source and target tables

Location in the DB2 Information Center:

Reference —> Commands —> Q replication and event publishing commands

Correction

The following examples show how to use the asntdiff command.

Example 1

In Q replication, to find the differences between a source and target table that are specified in a Q subscription named my_qsub, on a Q Capture server named source_db with a Q Capture schema of myschema:

asntdiff DB=source db SCHEMA=myschema WHERE="subname = 'my qsub'"

Example 2

In SQL replication, to find the differences between a source and target table that are specified in a subscription set named my_set, with a target table named trg_table, on an Apply control server named apply_db, with an Apply schema of asn, and to name the difference table my_diff_table:

```
asntdiff DB=apply_db SCHEMA=asn WHERE="set_name = 'my_set'
and target_table = 'trg_table'" DIFF=my_diff_table
```

Topic Title: asntrep: Repairing differences between source and target tables

Location in the DB2 Information Center:

Reference —> Commands —> Q replication and event publishing commands

Correction

The following examples show how to use the **asntrep** command.

Example 1

In Q replication, to synchronize a source and target table that are specified in a Q subscription named my_qsub, on a Q Capture server named source_db, with a Q Capture schema of asn, and whose differences are stored in a table called q_diff_table:

```
asntrep DB=source_db SCHEMA=asn
WHERE="subname = 'my qsub'" DIFF=q diff table
```

Example 2

In SQL replication, to synchronize a source and target table that are specified in a subscription set called my_set, with a target table named trg_table, on an Apply control server named apply_db, with an Apply schema of asn, and whose differences are stored in a table called sql_diff_table:

```
asntrep DB=apply_db SCHEMA=asn WHERE="set_name = 'my_set'
and target table = 'trg table'" DIFF=sql diff table
```

Topic Title: Server options for federated systems

Location in the DB2 Information Center:

Reference —> Configuration parameters —> Federated systems and data sources

Addition 1 of 2

The following text should be added to the INFORMIX_LOCK_MODE server option description column:

If a deadlock or timeout error occurs when a federated server attempts to connect to an Informix data source, changing the lock mode setting on the federated server can often resolve the error. Use the ALTER SERVER statement to change the lock mode setting on the federated server.

For example:

ALTER SERVER TYPE informix VERSION 9 WRAPPER informix OPTIONS (ADD informix_lock_mode '60')

For more information about using the ALTER SERVER statement, see the topic "Altering server definitions and server options" in the DB2 Information Center. For more information about the INFORMIX_LOCK_MODE setting, see the topic "Server options for federated systems" in the DB2 Information Center.

If the deadlock or timeout error persists, contact IBM Software Support.

Addition 2 of 2

The following text should be added to the USE_CLOB_SEQUENCE server option description and default value columns:

If you specify a value of N, the data type is VARCHAR(32000). If you specify a value of Y, the data type is CLOB(5M). The default value is N, not Y.

Samples

Topic title: Samples to set up Q replication and event publishing (Linux, UNIX, Windows)

Location in the DB2 Information Center:

Samples —> Samples by functional area —> Q replication and event publishing samples —> Linux, UNIX, Windows

Correction

asnqdefq

This sample script shows which WebSphere MQ objects you need and how to create them. It includes commands to create queue managers and queues for two servers in unidirectional, remote replication. Use this sample script to quickly create and set up the WebSphere MQ objects for this type of Q replication environment.

Topic title: Samples to set up Q replication and event publishing (z/OS)

Location in the DB2 Information Center:

Samples —> Samples by functional area —> Q replication and event publishing samples —> z/OS

Correction

asnqdefq

This sample script shows which WebSphere MQ objects you need and how to create them). It includes commands to create queue managers and queues for two servers in unidirectional, remote replication. Use this sample script to quickly create and set up the WebSphere MQ objects for this type of Q replication environment.

New topics

The following topic will be added to the DB2 Information Integrator Installation Guide.

Installing the IBM Tivoli License Manager (ITLM) file on your system

When you install DB2 Information Integrator Advanced Edition or DB2 Information Integrator Advanced Edition Unlimited, the IBM Tivoli License Manager (ITLM) file is added to your system and renamed after the product license key is registered. If the ITLM file is not installed on your system successfully, you must install the file manually.

When it is installed, the ITLM file is renamed from db2ii080200.sys to one of the following file names depending on your edition and operating system.

Table C	Table of file		- DDO Information	Integrator ITLM file
ianie n	Table of file	names for the	a DBZ Information	integrator i i i ivi tile

Operating system	Advanced Edition ITLM file name	Advanced Edition Unlimited ITLM file name
AIX	db2iiaex080200.sys	db2iiuex080200.sys
Linux	db2iiael080200.sys	db2iiuel080200.sys
HP-UX	db2iiaeh080200.sys	db2iiueh080200.sys
Solaris	db2iiaes080200.sys	db2iiues080200.sys
Windows	db2iiaew080200.sys	db2iiuew080200.sys

Procedure

To install the db2ii080200.sys ITLM file on your system, copy the cprod_cd>\license\db2ii080200.sys to one of the following directories, and rename it to the name that corresponds to your edition and operating system in Table 6. cprod_cd> is the root level of the DB2 Information Integrator product CD.

Windows

x:\Program Files\IBM\DB2InformationIntegrator\V8\

x is the drive where DB2 Information Integrator is installed.

UNIX /opt/IBM/DB2InformationIntegrator/V8/

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

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