Installation Guide for Replication and Event Publishing on Linux, UNIX, and Windows
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Chapter 1. Installation scenarios for Linux, UNIX, and Windows

The steps to install IBM® InfoSphere™ Replication Server or InfoSphere Data Event Publisher differ depending on the DB2® for Linux®, UNIX®, and Windows® software that currently exists on your system.

The products use programs and libraries that are found in DB2. If no DB2 is installed, the replication or publishing product installs the DB2 parts that it needs for its own use. The following installation scenarios describe the process:

- **“You have no DB2, replication, or event publishing products installed”**
- **“You have an older version of DB2 installed”**
- **“DB2 is installed and it is the same version as the replication or event publishing product that you want to install”**

### You have no DB2, replication, or event publishing products installed

If the system does not have a DB2 database product installed on it, the InfoSphere installation program installs the DB2 version that corresponds to the version of the replication or publishing product. For example, the Version 9.7 installation program detects that DB2 is not installed on the system and after prompting you installs DB2 Restricted Enterprise Edition Version 9.7 for Linux, UNIX, or Windows.

After DB2 is installed, the InfoSphere installation program installs InfoSphere Replication Server or InfoSphere Data Event Publisher. The product license keys are automatically registered during installation.

**Non-DB2 targets:** If you are replicating to non-DB2 databases such as Oracle or Microsoft® SQL Server, the installer asks you to select a relational wrapper for your target. A relational wrapper is the replication or publishing product’s interface to non-DB2 databases.

### You have an older version of DB2 installed

The latest version of InfoSphere Replication Server can capture from and apply data to an older version of DB2 that is still supported by IBM. However, replication uses programs and libraries that are found in the version of DB2 that is the same as the version of InfoSphere Replication Server. If a matching version of DB2 is not found, InfoSphere Replication Server installs the DB2 parts that it needs for its own use. This does not affect your existing DB2 or its databases.

### DB2 is installed and it is the same version as the replication or event publishing product that you want to install

Installation steps for this scenario differ depending on whether your DB2 installation has a fix pack applied to it.

**Your DB2 has no fix pack applied to it**

You can install InfoSphere Replication Server or InfoSphere Data Event Publisher on top of a DB2 database edition with a matching version. The
installation program detects any existing copies of DB2 database systems during the installation process and offers the following options:

- Install InfoSphere Replication Server or InfoSphere Data Event Publisher with a separate DB2 database system that is independent of the existing DB2 installation.
- Install InfoSphere Replication Server or InfoSphere Data Event Publisher on top of the existing DB2 installation.

**Non-DB2 targets:** If the installation program cannot detect the correct version of any specified relational wrappers installed on the system, it installs the newer version of the wrappers and configures the DB2 instance for federated support. You also have the option of installing additional wrappers.

**Your DB2 has a fix pack applied to it**
If you have a DB2 fix pack installed and you are installing InfoSphere Replication Server or InfoSphere Data Event Publisher, the installation program warns you that a newer version of DB2 is already installed on the system, but continues to register product license keys. You can ignore this warning if you are not replicating to a non-DB2 target database.

**Non-DB2 targets:** If the DB2 version on your system has a fix pack applied that is newer than the version of InfoSphere Replication Server that you are installing, you cannot update relational wrappers because the wrappers would be older than the wrapper version in the fix pack.
Chapter 2. Pre-installation

Planning for installation of InfoSphere Replication Server or InfoSphere Data Event publisher involves checking hardware and software requirements, and optionally performing other pre-installation tasks if you plan to replicate to a non-DB2 database through a federated server.

Hardware and software requirements

Ensure that the system you choose has the necessary requirements for IBM InfoSphere Replication Server or InfoSphere Data Event Publisher, and that it meets the expected performance demands. The main installation-time requirements include DB2 and WebSphere MQ.

System requirements

Make sure that your platform meets the requirements for installing DB2: System requirements for DB2 for Linux, UNIX, and Windows.

Q replication and event publishing require WebSphere MQ. Ensure that your platform supports WebSphere MQ and that WebSphere MQ is installed on the system where the Q Capture and Q Apply programs run: System requirements for IBM WebSphere MQ.

Visit the following web pages for the most up-to-date list of requirements for the replication or event publishing products you are installing:

System requirements for IBM InfoSphere Replication Server
System requirements for IBM InfoSphere Data Event Publisher

Disk space requirements

The total amount of required disk space is the sum of the components that are listed in Table 1 with slight variation depending on the product installed.

- If you plan to use a target other than a DB2 database, you can specify which type of database while installing replication, and the installation program installs a relational wrapper for that database. Relational wrappers have additional pre-installation requirements, which are described in the following topic: Prerequisites for installing relational wrappers.
- If a compatible edition of DB2 Version 9.7 database system is not already installed, DB2 Restricted Enterprise Edition will be installed.
- The installer needs temporary disk space while the product is being installed.

Table 1. Disk space requirements, in megabytes

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Relational wrappers</th>
<th>DB2</th>
<th>Installer</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIX 5L™</td>
<td>5-20</td>
<td>490-630</td>
<td>50-80</td>
</tr>
<tr>
<td>HP-UX</td>
<td>5-20</td>
<td>510-640</td>
<td>50-80</td>
</tr>
<tr>
<td>Linux</td>
<td>5-20</td>
<td>380-480</td>
<td>50-80</td>
</tr>
<tr>
<td>Solaris</td>
<td>5-20</td>
<td>530-640</td>
<td>50-80</td>
</tr>
</tbody>
</table>
Table 1. Disk space requirements, in megabytes (continued)

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Relational wrappers</th>
<th>DB2</th>
<th>Installer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows</td>
<td>5-20</td>
<td>390</td>
<td>50-80</td>
</tr>
</tbody>
</table>

Additional disk space considerations:

- The disk space requirements vary depending on your configuration and the type of disk drive that you have.
- Significantly more disk space might be required on FAT drives with large cluster sizes than NTFS drives.
- Include required client software and communication products when you calculate the amount of disk space that is needed for your installation.

Pre-installation when using non-DB2 data sources

If you plan to use non-DB2 data sources, consider the requirements for installing and testing the non-DB2 client software. If possible, install and test the client software before installing the replication software.

For details about installing the federation software that is required for replication to non-DB2 targets, see [Planning for IBM InfoSphere Federation Server installation](#).
Chapter 3. Installing products and components

The IBM InfoSphere Replication Server and IBM InfoSphere Data Event Publisher products and components are installed with a multiplatform installation wizard.

Installing InfoSphere Replication Server and Data Event Publisher (Windows)

IBM InfoSphere Replication Server and Data Event Publisher Version 9.7 use the run-time software found in DB2 Version 9.7 for Linux, UNIX, and Windows. If you do not have a compatible DB2 installed, the InfoSphere Replication Server and Data Event Publisher installation wizard can install DB2 Restricted Enterprise Edition for you.

Before you begin

- Ensure that your system meets installation, memory, and disk space requirements for all of the products and components that you want to install. For details, see [Installation requirements for DB2 database products](#).
- If you want to use a DB2 Version 9.7 edition other than DB2 Restricted Enterprise Edition, you must install it before you install the InfoSphere product. See the installation documentation for the DB2 Version 9.7 edition that you are installing for instructions.
- Unless you want to run the installation wizard in silent mode, the system where you are installing must support graphical interfaces.
- If you intend to migrate databases from earlier versions of DB2, refer to the migration section and perform pre-migration tasks first.
- You must have a local administrator user account with the recommended user rights to perform the installation.

About this task

If a supported edition and version of DB2 is already installed at the correct level, the InfoSphere installation wizard detects it.

Procedure

To install IBM InfoSphere Replication Server and Data Event Publisher:

1. Log on to the target system with a user ID that has administrator authority.
2. Close all open programs so that the installation wizard can update files as required.
3. Insert the product DVD. The installation wizard opens. If you are installing from a network drive, open a command prompt and navigate to the root directory of the installation software. Enter one of the following commands to start the wizard, depending on the product:

   - **InfoSphere Replication Server**
     ```shell`
     `isrssetup`
   - **InfoSphere Data Event Publisher**
     ```shell`
     `isepsetup`
Installing InfoSphere Replication Server and Data Event Publisher  
(UNIX and Linux)

IBM InfoSphere Replication Server and Data Event Publisher Version 9.7 use the run-time software in DB2 Version 9.7 for Linux, UNIX, and Windows. If you do not have a compatible DB2 installed, the InfoSphere Replication Server and Data Event Publisher installation wizard can install DB2 Restricted Enterprise Edition for you.

Before you begin

- You can install as root or as a non-root user. If you install as a non-root user, the product is installed in the DB2 instance location, $HOME/sqllib.
- Ensure that your system meets installation, memory, and disk space requirements for all of the products and components that you want to install. For details, see Installation requirements for DB2 database products.
- If you want to use an edition of DB2 Version 9.7 other than DB2 Restricted Enterprise Edition, you must install DB2 before you install the InfoSphere product. See the installation documentation for the DB2 edition that you are installing for instructions.
- Unless you want to run the installation wizard in silent mode, the system where you are installing must support graphical interfaces.
- If you intend to migrate databases from earlier versions of DB2, you must perform pre-migration tasks first.

About this task

Q replication is enabled when you install InfoSphere Replication Server. To use Q replication or event publishing, install WebSphere® MQ Version 6 or later.

If a supported edition and version of DB2 is already installed at the correct level, the installation wizard detects it.

IBM offers font packages for UNIX that contain additional double-byte character set (DBCS) support for Asian characters. These font packages are necessary with some versions of UNIX. For information about installing the font package, see the support site.

Procedure

To install InfoSphere Replication Server and Data Event Publisher products on a UNIX system:

1. Log on to the system with a user ID that has root authority to install the product in a system-wide location, or you can log on as a non-root user to install the product in the user’s home directory.

   **Root user**
   
   You can install in any location. The default location for InfoSphere Replication Server is /opt/IBM/isrs/V9.7. For InfoSphere Data Event Publisher, the default location is /opt/IBM/isep/V9.7.

   **Non-root user**
   
   The installation directory must be $HOME/sqllib, where $HOME is your user home directory and your DB2 instance location (for example, /home/DB2INST).
Note: Installing InfoSphere Replication Server Version 9.7 also installs DB2 Restricted Enterprise Edition V9.7 and can create a DB2 9.7 instance. You can leave your existing DB2 Version 9.5 instance as is and do not need to migrate it. You will have two DB2 installations (Version 9.5 and Version 9.7) and two instances (Version 9.5 and Version 9.7). The two installations do not share directories. You do not need to start the 9.7 instance unless you plan to use federated function.

2. Close all open programs so that the installation wizard can update files as required.

3. Insert and mount the product DVD. Or, navigate to the directory that contains the installation files.

4. At the prompt, enter one of the following commands to start the installation wizard, depending on the product:

   InfoSphere Replication Server
   .\isrssetup

   InfoSphere Data Event Publisher
   .\isepsetup

Silent installation

Information integration products can be installed from the command-line using the values provided in a response file. This is useful if you are running from a terminal incapable of displaying graphics or if you are installing on multiple machines over a network.

To run a silent installation:

1. Create a response file.
   • You can run the installation wizard in graphical mode once and capture the values you enter to a response file. Provide a new file name when the wizard asks if you want to write to a response file.
   • You can create the response file manually by using the templates provided. The response files have a .rsp extension and are located in the samples directory on the information integration product DVD. Be sure to use the correct response file for the operating system you are installing on, because the names of some of the settings are different for each operating system.

2. Run the installer in silent mode from the command-line.
   .\isrssetup -options response_file_name -silent

Enabling more detailed error logging for the installation wizard

When you install replication or event publishing products, installation log files are created by default to record high-level information about any errors that you encounter. You can also specify that the installer log additional debugging information.

About this task

The default log file name is isrs.log for InfoSphere Replication Server and isep.log for InfoSphere Data Event Publisher. The file is saved in $TEMP/isv97/ directory on Linux and UNIX and %TEMP%\isv97\ on Windows, where $TEMP and %TEMP% are the default temporary directories that are defined for the system.
If the replication installer is used to install DB2, the DB2 log file, ese.log, and trace file, ese.trc, are saved in $TEMP/isv97/db2 or %TEMP%\isv97\db2. If you use the installer to add relational wrappers, the log and trace files are saved in $TEMP/isv97/rw or %TEMP%\isv97\rw.

In addition to these log files, you can use commands to specify that additional debugging information be logged, including Java™ exception stack traces and system error information. If the log file that is used to record this information does not exist, it is created. If the log file exists, the error logging information is appended to the existing file.

**Procedure**

To enable more detailed error logging for the installation program, use one of the following commands depending on your operating system:

**Windows**

```bash
isrssetup.exe -is:javaconsole -debug -is:log logfilename
```

**Linux/UNIX**

```bash
./isrssetup -is:javaconsole -debug > logfilename 2>&1
```

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

```bash
isrssetup.exe -is:javaconsole -debug -is:log C:\temp\is\isrssetup_debug.log
```

**Registering the product license keys**

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

**About this task**

You must register a license key on each computer where InfoSphere Replication Server or Data Event Publisher is installed. The license file is located in the license directory under which the installer ZIP file is unzipped.

**Table 2. License file names**

<table>
<thead>
<tr>
<th>Product</th>
<th>Full license</th>
<th>Try-and-buy license</th>
</tr>
</thead>
<tbody>
<tr>
<td>InfoSphere Data Event Publisher</td>
<td>isep.lic</td>
<td>isep_t.lic</td>
</tr>
<tr>
<td>InfoSphere Replication Server</td>
<td>isrs.lic</td>
<td>isrs_t.lic</td>
</tr>
</tbody>
</table>

**Procedure**

To register the product license key:

Enter the following command at a command prompt:

For Unix:

```bash
/adm/db2licm -a filename
```

For Windows:
\sqllib\bin\db2licm.exe -a filename

filename is the mounted DVD drive and location of the license file. For example, on Windows you might enter the following:
\sqllib\bin\db2licm.exe -a D:\license\isrs.lic

**Manual installation**

If the installation wizard fails to properly install IBM InfoSphere Replication Server or IBM InfoSphere Data Event Publisher, you can manually install these products.

**Procedure**

To manually install InfoSphere Replication Server or InfoSphere Data Event Publisher:

1. Install the DB2 software from the installation DVD location:
   /ESE/setup.exe
2. Optional: If you are installing InfoSphere Replication Server and planning to replicate to non-DB2 targets through a federated server, install the relational wrappers from the installation DVD location:
   /platform_dir/RCON/setup.exe
3. Register the product license keys, as described in "Registering the product license keys" on page 8.
Chapter 4. Updating locally installed documentation

The most up-to-date replication and event publishing documentation is available in the online information center. You can also install the documentation into a DB2 information center on your local system by using the Updater feature of the information center.

The Version 9.7 online information center is available at [http://publib.boulder.ibm.com/infocenter/db2luw/v9r7/](http://publib.boulder.ibm.com/infocenter/db2luw/v9r7/). Look for the “Replication and event publishing” branch in the left-side navigation pane.

If you have installed the information center locally, you must use the Updater feature to add the Version 9.7 documentation for Q replication and event publishing to your locally installed information center.

For information on how to perform an update, see Updating the DB2 Information Center installed on your computer or intranet server.
Chapter 5. Installing fixes for replication and publishing

Maintenance updates for InfoSphere Replication Server and InfoSphere Data Event Publisher on Linux, UNIX, and Windows are provided through executable files called DB2 fix packs.

About this task

A DB2 fix pack contains updates and fixes for problems (Authorized Program Analysis Reports, or APARs) that were found during testing at IBM, as well as fixes for problems that were reported by customers. Each fix pack contains an APARLIST.TXT file that describes the fixes that it contains and is available for download at ftp://ftp.software.ibm.com/ps/products/db2/fixes/english-us/aparlist/.

Fix packs are cumulative. The latest fix pack for any given version of DB2, Replication Server, or Data Event Publisher contains all of the updates from previous fix packs for the same version of DB2, Replication Server, or Data Event Publisher.

If you installed Replication Server or Data Event Publisher on top of an existing DB2 installation, a DB2 fix pack updates both DB2 and Replication Server or Data Event Publisher. Follow the fix pack process for DB2 to update your DB2 product and Replication Server or Data Event Publisher. See [Applying fix packs] in the DB2 Information Center for more details.

You can obtain the latest fix packs from the DB2 for Linux, UNIX, and Windows support Web site at the following URL: http://www.ibm.com/software/data/db2/support/db2_9/.

Note: The installation wizard that is used for Replication Server or Data Event Publisher is updated only for major releases (like version 9.7) and not for fix packs. If you are installing the product for the first time and it is at the fix pack level (for example, V9.5 Fix Pack 3), you can choose to install the major release portion manually or with the installation wizard, but you can only install the fix pack portion by manually downloading the fix pack and separately installing it.

If you installed Replication Server to replicate to a non-DB2 database such as Oracle, you must install a DB2 Universal fix pack for a given fix pack number (for example, the Universal fix pack for 9.5 Fix Pack 3).

Procedure

To install fixes, follow one of these procedures, depending on the scenario:

Scenario 1: The fix pack updates an existing installation of Replication Server or Data Event Publisher

DB2 targets
Download and install the fix pack, which brings DB2, Replication Server, and Data Event Publisher to the fix pack level.

Non-DB2 targets
If you are replicating to a non-DB2 target, the procedure depends on your operating system:
Linux UNIX
Download and install the Universal fix pack, which brings
DB2 and the wrappers to the latest fix pack level.

Windows
The DB2 fix pack and the relational wrappers fix pack are
separate downloads. Download and install the DB2 fix
pack and the wrapper fix pack that applies to your
product.

Scenario 2: The fix pack is the first installation of Replication Server or Data
Event Publisher on the system, and DB2 is not installed.

DB2 targets
1. Run the installation wizard from the GA release of your
   product, which installs the GA version of DB2
2. Download and install the fix pack, which brings DB2,
   Replication Server, and Data Event Publisher to the fix pack
   level.

Non-DB2 targets
If you are replicating to a non-DB2 target, the procedure depends
on your operating system:

Linux UNIX
1. Run the installation wizard from the GA release of your
   product, which installs the GA version of DB2 and the
   wrappers.
2. Download and install the DB2 Universal fix pack,
   which brings DB2 and the wrappers to the latest fix
   pack level.

Windows
1. Run the installation wizard from the initial GA release
   of your product, which installs the GA version of DB2
   and the wrappers.
2. The DB2 fix pack and the relational wrappers fix pack
   are separate downloads. Download and install the DB2
   fix pack and the wrapper fix pack that applies to your
   product.

Scenario 3: The fix pack is the first installation of Replication Server or Data
Event Publisher on the system, and DB2 is installed
1. Install the license key for your GA replication or publishing product
   into the same directory as your DB2 installation. You can install the
   license in one of two ways:
   • By using the installation wizard of the GA product
   • By using the license management tool from the GA product. To use
     the tool:
     a. Insert the DVD for the GA release of your product (and mount it
        on Linux and UNIX), or obtain and extract the installation image
        from Passport Advantage® or your IBM representative. If the
        installation wizard opens automatically, close it.
     b. Use the DB2 license management tool to install the license key for
        each product for which you have a license. The product license
        files are:

14 Installation Guide for Replication and Event Publishing
- isrs.lic - InfoSphere Replication Server
- isep.lic - InfoSphere Data Event Publisher
- isrs_t.lic - InfoSphere Replication Server, trial
- isep_t.lic - InfoSphere Data Event Publisher, trial

Run the license management tool with the following command:

**Linux/UNIX**
```
db2_install_dir/adm/db2licm -a
ii_install_media/license/product_license_file
```

**Windows**
```
db2_install_dir/bin\db2licm.exe -a
ii_install_media\license\product_license_file
```

2. Install the fix packs. The DB2 fix pack and the relational wrappers fix pack are separate downloads. Download and install the DB2 fix pack and the wrapper fix pack that applies to your product. (In this scenario, do not use the Universal fix pack on Linux and UNIX systems. You must install the DB2 and wrapper fix packs separately.)
Chapter 6. Removing replication and event publishing products

Use this procedure to remove IBM InfoSphere Replication Server or IBM InfoSphere Data Event Publisher from your computer, including removing the product license key, relational wrappers, and Q replication. To remove complementary products and components, see the documentation for those products.

Procedure

To remove InfoSphere Replication Server or InfoSphere Data Event Publisher:
1. [Remove the product license key](#) for the product that is installed.
2. Optional: Remove the wrappers that you installed on [Windows](#) or on [Linux or UNIX](#).
3. Optional: If you installed the DB2 Restricted Enterprise Edition copy that came with your product, uninstall it. This copy of the DB2 database system is restricted for use with InfoSphere Replication Server or InfoSphere Data Event Publisher.

Removing the license for replication or event publishing products

When you remove InfoSphere Replication Server or InfoSphere Data Event Publisher, you must remove the product licensing and the licenses for any of the complementary products that are installed.

About this task

You do not need to remove the license for DB2 unless your entitlement to use DB2 is restricted for use only with InfoSphere Replication Server or InfoSphere Data Event Publisher. The product license keys must be removed manually.

The license files are:

<table>
<thead>
<tr>
<th>Product</th>
<th>Full license</th>
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</tr>
</thead>
<tbody>
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<tr>
<td>InfoSphere Replication Server</td>
<td>isrs.lic</td>
<td>isrs_t.lic</td>
</tr>
</tbody>
</table>

Procedure

To remove the product license keys:
1. From the DB2 Control Center, click [Tools → License Center](#). The License Center window opens.
2. In the [System name](#) field, specify the name of your system.
3. In the Installed products field, select the product you want to uninstall.
4. Click [License → Remove](#).
5. In the Remove window, click [Yes](#) to remove the license.
6. In the Installed products field, select [DB2 Enterprise Server Edition](#).
7. Click License → Remove.
8. In the Remove window, click Yes to remove the DB2 Enterprise Server Edition license.

Removing wrappers (Windows)

Use this procedure for removing wrappers from your Windows system.

About this task

Nonrelational wrappers are installed in components. Do not remove a component unless you are no longer using any of the wrappers in that component. For example, do not remove the Application Data component if you are still using any of the wrappers that it contains, such as Web Services.

Procedure

To remove wrappers:
1. Stop all DB2 processes and services by using the Windows Services panel or by issuing a db2stop command.
2. In the Windows Control Panel, use the Add/Remove Programs window to remove the wrappers that are associated with the DB2 copy that you installed.

Removing wrappers (UNIX and Linux)

Use this procedure for removing wrappers by using the native tools for your operating system.

About this task

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

Procedure

To remove wrappers:
1. Stop the DB2 Administration Server.
2. Stop DB2 instances.
3. Log in with the same user ID used to install DB2 and the wrappers.
4. Remove the wrappers and user-defined functions from your system using the db2_deinstall command.
   a. Determine the feature ID of the wrapper that you want to uninstall:
      
      ```
      /usr/local/bin/db2ls -q -a -b install_path
      ```
   b. Remove the feature:
      
      ```
      install_path/install/db2_deinstall -F feature_ID
      ```
Product documentation

Documentation is provided in a variety of locations and formats, including in help that is opened directly from the product interface, in a suite-wide information center, and in PDF file books.

You can also order IBM publications in hardcopy format online or through your local IBM representative.

To order publications online, go to the IBM Publications Center at www.ibm.com/shop/publications/order.

You can send your comments about documentation in the following ways:
- Online reader comment form: www.ibm.com/software/data/rcf/
- E-mail: comments@us.ibm.com

Contacting IBM

You can contact IBM for customer support, software services, product information, and general information. You can also provide feedback on products and documentation.

Customer support

For customer support for IBM products and for product download information, go to the support and downloads site at www.ibm.com/support/us/

You can open a support request by going to the software support service request site at www.ibm.com/software/support/probsub.html.

My IBM

You can manage links to IBM Web sites and information that meet your specific technical support needs by creating an account on the My IBM site at www.ibm.com/account/us/

Software services

For information about software, IT, and business consulting services, go to the solutions site at www.ibm.com/businesssolutions/us/en

Information Management product support

For Information Management product support, news, and other product information, go to the Information Management support site at www.ibm.com/software/data/support/

Federation, replication, and event publishing products support

For support, go to:
- IBM InfoSphere Federation Server: www.ibm.com/software/data/integration/support/federation_server/
• IBM InfoSphere Replication Server
  www.ibm.com/software/data/integration/support/replication_server/
• IBM InfoSphere Data Event Publisher
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How to read syntax diagrams

The following rules apply to the syntax diagrams that are used in this information:

- Read the syntax diagrams from left to right, from top to bottom, following the path of the line. The following conventions are used:
  - The >>>--- symbol indicates the beginning of a syntax diagram.
  - The --> symbol indicates that the syntax diagram is continued on the next line.
  - The >--- symbol indicates that a syntax diagram is continued from the previous line.
  - The -->> symbol indicates the end of a syntax diagram.
- Required items appear on the horizontal line (the main path).

• Required items appear on the horizontal line (the main path).

• Optional items appear below the main path.

If an optional item appears above the main path, that item has no effect on the execution of the syntax element and is used only for readability.

• If you can choose from two or more items, they appear vertically, in a stack. If you must choose one of the items, one item of the stack appears on the main path.

If choosing one of the items is optional, the entire stack appears below the main path.

• If one of the items is the default, it appears above the main path, and the remaining choices are shown below.

• An arrow returning to the left, above the main line, indicates an item that can be repeated.
If the repeat arrow contains a comma, you must separate repeated items with a comma.

A repeat arrow above a stack indicates that you can repeat the items in the stack.

- Sometimes a diagram must be split into fragments. The syntax fragment is shown separately from the main syntax diagram, but the contents of the fragment should be read as if they are on the main path of the diagram.

**Fragment-name:**

- Keywords, and their minimum abbreviations if applicable, appear in uppercase. They must be spelled exactly as shown.  
- Variables appear in all lowercase italic letters (for example, column-name). They represent user-supplied names or values.  
- Separate keywords and parameters by at least one space if no intervening punctuation is shown in the diagram.  
- Enter punctuation marks, parentheses, arithmetic operators, and other symbols, exactly as shown in the diagram.  
- Footnotes are shown by a number in parentheses, for example (1).
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