IBM InfoSphere Replication Server
IBM InfoSphere Data Event Publisher

適用於抄寫和事件發佈的安裝手冊 - Linux、UNIX 和 Windows
使用這個資訊和其支援的產品之前，請參閱第 25 頁的『注意事項』中的資訊。
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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.
第 2 章 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 the table 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.

表 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>
</tbody>
</table>

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表 1. Disk space requirements, in megabytes (繼續)

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<tbody>
<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>
<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.
- **Windows** 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](#).
第 3 章 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 runtime 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**
   
   isrssetup

   **InfoSphere Data Event Publisher**
   
   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 runtime 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/).

注: 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**

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

**Linux/UNIX**

./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:

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.
### 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:

```
/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](#).
A \leq G \leq o
M \leq w
Γ U
第 4 章 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:
   - 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.)
第 6 章 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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<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
      ```
產品文件

在許多位置以各種格式提供文件，包括在直接從產品介面開啓的說明書中、在遍及所有套組的文件中心以及在 PDF 檔案中心。

您也可以在線上或是透過您所在區域的 IBM 業務代表，訂閱印刷版本的 IBM 出版品。

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- 電子郵件： comments@us.ibm.com

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- IBM InfoSphere Replication Server
  www.ibm.com/software/data/integration/support/replication_server/
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- IBM InfoSphere Classic Data Event Publisher for z/OS
  www.ibm.com/software/data/integration/support/data_event_publisher_z/
- IBM InfoSphere Data Integration Classic Connector for z/OS
  www.ibm.com/software/data/integration/support/data_integration_classic_connector_z/

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产品意见

您可以透过位于 www.ibm.com/software/data/info/consumability-survey 的 Consumability Survey 来提供一般产品意见。

文件意见

您可以在资讯中心里按一下任何主题中的读者意见链结，以在资讯中心发表意见。

您也可以用下列方法传送关于 PDF 档案，资讯中心或其他文件的意见：

- 线上读者意见表：www.ibm.com/software/data/rcf/
- 电子邮件：comments@us.ibm.com
如何閱讀語法圖

下列規則適用於在本資訊中使用的語法圖：

- 從左到右、從上到下，遵循線的路徑閱讀語法圖。使用下列慣例：
  - >>> 符號表示語法圖的開頭。
  - --> 符號表示語法圖在下一行繼續。
  - >--> 符號表示語法圖接續上一行。
  - -->< 符號表示語法圖的結尾。

- 需要的項目出現在水平線上 (主要路徑)。

  >>>required_item

- 選用的項目出現在主要路徑下方。

  >>>required_item
  \optional_item

若一個選用的項目出現在主要路徑上方，則該項目乃僅為了可讀性而使用，並且不會影響語法元素的執行。

  >>>required_item
  \optional_item

- 若您可以從兩個以上的項目中選擇，它們會以堆疊方式垂直出現。

若您必須選擇其中一個項目，則堆疊中的一個項目會出現在主要路徑上。

  >>>required_item
  \required_choice1
  \required_choice2

若選擇其中一個項目為選用，則整個堆疊會出現在主要路徑下方。

  >>>required_item
  \optional_choice1
  \optional_choice2

若其中一個項目為預設，它會出現在主要路徑上方，而剩下的選擇則出現在主要路徑下方。

  >>>required_item
  \default_choice
  \optional_choice1
  \optional_choice2

- 轉向左邊的箭頭 (在主要路徑上方) 表示選項可以重複。
若重複箭頭包含逗點，您必須以逗點分隔重複的項目。

在堆疊上方的重複箭頭表示您可以重複堆疊中的項目。

- 有時圖解必須分割為片段。語法片段與主要語法圖會分別顯示，但應該把片段的內容當作好像是在圖中的主要路徑一樣來閱讀它們。

Fragment-name:

- 關鍵字（以及它們適用的最簡略縮寫）會以大寫出現。必須完全按照它們顯示的樣子拼寫它們。
- 變數會出現全部小寫的斜體字母（例如，column-name）。它們代表使用者提供的名稱或是值。
- 若圖中沒有顯示間隔標點，則至少用一個空格來分隔關鍵字及參數。
- 完全按照圖中所示來輸入標點符號、括弧、算術運算子及其他符號。
- 註腳是以在括弧中的數字來顯示，例如 (1)。
產品協助工具

您可以取得 IBM 產品的協助工具狀態相關資訊。

IBM InfoSphere Information Server 產品模組和使用者介面並未完全供存取。安裝程式安裝下列產品模組及元件：

- IBM InfoSphere Business Glossary
- IBM InfoSphere Business Glossary Anywhere
- InfoSphere DataStage® and QualityStage Administrator
- IBM InfoSphere FastTrack
- IBM InfoSphere Information Analyzer
- IBM InfoSphere Information Services Director
- IBM InfoSphere Metadata Workbench

關於 IBM 產品協助工具狀態的相關資訊，請至 http://www.ibm.com/able/product_accessibility/index.html。

具有協助功能的文件

在資訊中心裡有針對 IBM Information Server 產品提供具有協助功能的文件。資訊中心以 XHTML 1.0 格式呈現文件，這種文件可以用大部分的 Web 瀏覽器檢視。XHTML 允許您在瀏覽器中設置顯示喜好設定。它也允許您使用螢幕閱讀器或其他輔助技術來存取文件。
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