



IBM ILOG DB Link V5.3

Release Notes

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Notices

For further information see `<installdir>/license/notices.txt` in the installed product.

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About the Release Notes

These Release Notes highlight the changes implemented in IBM® ILOG® DB Link V5.3, ILOG DB Link V5.2, and ILOG DB Link 5.0.

You will find information on the following topics:

- ◆ *IBM ILOG DB Link V5.3 Release Notes*
- ◆ *ILOG DB Link 5.2 Release Notes*
- ◆ *ILOG DB Link 5.0 Release Notes*

IBM ILOG DB Link V5.3 Release Notes

These *Release Notes* highlight the changes between IBM ILOG DB Link V5.2 and IBM® ILOG® DB Link V5.3. They are divided into the following sections:

- ◆ *New Ports*
- ◆ *Changes in Application Programming Interface*
- ◆ *RDBMS Client Version Changes*
- ◆ *Compatibility with Versions 5.2*

New Ports

With this version, support has been added for the following ports:

- ◆ `ia64_hpux11_6.17`: This port is intended to be used on the Itanium® platform running under HP UX 11.23 or higher. The compiler to be used is a C++ version 6.17 in 64 bits mode.
- ◆ `ia64-32_hpux11_6.17`: This port is intended to be used on the Itanium platform under HP UX 11.23 or higher. The compiler to be used is a C++ 6.17 in 32 bits mode.
- ◆ `x64_solaris10_11`: This port is intended to be used on x86-64 platforms (also called AMD 64) running under Sun™ Solaris™ 10 or higher. The compiler to be used is Sun Studio 11 in 64 bits mode.
- ◆ `x86_solaris10_11`: This port is intended to be used on x86 platforms running under Sun Solaris 10 or higher. The compiler to be used is Sun Studio 11 in 32 bits mode

Note that on these new ports, only IBM® Informix® and Oracle® are supported.

Changes in Application Programming Interface

To adapt to the capabilities of recent database systems, the API managing accesses (read or write) to the result sets and parameter sets has been modified to allow handling of sets larger than an unsigned short integer (type `ILUShort`). All such member functions now accept an unsigned long integer (type `ILUInt`) for parameters designating a row in the set. For example, the function to retrieve the integer value from some column and some row in the result sets now has the signature: `ILDRequest::getColIntegerValue(ILUShort column, ILUInt row)`.

These changes may lead to warnings when recompiling the application using this new version.

Several undocumented member functions from the classes `ILDDBms` and `ILDRequest` have been removed.

RDBMS Client Version Changes

All drivers for IBM® Informix® have been ported to CSDK 3.5. This provides support for IBM Informix servers from version 5 to 11; hence, for most ports, only one Informix driver is now present.

While no specific driver has been developed for Sybase® version 15.x, tests have shown the drivers are compatible with Open Client™ version 15.

Compatibility with Versions 5.2

This version is not binary compatible with the previous version 5.2. To properly run with version 5.3, an application build over version 5.2 must be recompiled.

With the exception of changes mentioned in “*Changes in Application Programming Interface*” on page 8 this version is source compatible with the previous one providing that you have only used documented API.

ILOG DB Link 5.2 Release Notes

These *Release Notes* highlight the changes between ILOG DB Link 4.x and ILOG DB Link 5.2. They are divided into the following sections:

- ◆ *New Features*
- ◆ *New Samples*
- ◆ *Compatibility With Versions 4.x*

New Features

Numerous new features have been added to ILOG DB Link:

- ◆ New RDBMS versions:
 - Support for Oracle 10g and 11g: ILOG DB Link provides native libraries for these versions of Oracle.
 - Support for IBM DB2 9.x: New libraries are provided for all ports.
 - Support for IBM Informix: The former library for Informix version 9, has been compiled against Informix C SDK 3.0. Thus, as stated in the Informix documentation, provides support for Informix versions 5.x to 11.x
- ◆ New SQL types:
 - Oracle: type `BINARY_FLOAT` and `BINARY_DOUBLE` are supported by the libraries for versions 10 and 11.
 - DB2: The library for version 9.x supports the SQL type `DECFLOAT`.
- ◆ Limitation:
 - This is not a new feature but it lacked documentation in previous versions. ILOG DB Link does not provide proper support for long integer SQL types like Informix `INT8` or DB2 `BIGINT`. The size of integer values is limited to the C type `long`, ILOG DB Link does not use the `long long` (or `int64`) C type.

New Samples

To illustrate the new features, some of the existing samples have been modified and new ones have been added to the distribution.

More information concerning the sample files can be found in the *ILOG DB Link User's Manual*.

Compatibility With Versions 4.x

This release of ILOG DB Link is not compatible with previous 4.x releases.

New features are added, but all previously existing functions remain the same.

Compatibility with the previous 3.x versions is no longer supported.

ILOG DB Link 5.0 Release Notes

These *Release Notes* highlight the changes between ILOG DB Link 4.11/4.12 and ILOG DB Link 5.0. They are divided into the following sections:

- ◆ *New Features*
- ◆ *New Samples*
- ◆ *Compatibility With Versions 3.0 and 4.0*

New Features

Numerous new features have been added to ILOG DB Link:

- ◆ ILOG DB Link now enables inheritance from the connection and cursor classes.
Two new classes, `IldDbmsModel` and `IldRequestModel`, providing the same functionalities as `IldDbms` and `IldRequest`, respectively, may be inherited. (The `IldDbms` and `IldRequest` classes still cannot be inherited.) A sample is provided to demonstrate this new feature.
- ◆ The kernel of ILOG DB Link is now taken out from the RDBMS libraries. Therefore, RDBMS libraries get much smaller.
- ◆ A new port for IBM DB2 has been added.
- ◆ A new port for Microsoft SQL Server is provided using OLE DB technology instead of DBLIB. This is because Microsoft no longer develops DBLIB, and some new features of SQL Server 7 cannot be used via the DBLIB.

New Samples

To illustrate the new features, some of the existing samples have been modified and new ones have been added to the distribution.

More information concerning the sample files can be found in the *ILOG DB Link User's Manual*.

Compatibility With Versions 3.0 and 4.0

This release of ILOG DB Link is compatible with previous 4.x releases.

New features are added, but all previously existing functions remain the same. Porting an application built with ILOG DB Link 4.x to ILOG DB Link 5.0 consists simply in rebuilding the application, since the header files are modified.

Compatibility with the previous 3.x versions is no longer supported.

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