

Logon to INFORMIX dialog box

Database Name

Enter the name of the database you wish to access or select the name from the Database Name box.

If you set the GetDBListFromInformix option to 1 in the ODBC Informix Advanced Driver Setup dialog box, the Database Name box automatically displays names returned from the INFORMIX server.

If you set the GetDBListFromInformix option to 0 in the ODBC Informix Advanced Driver Setup dialog box, you must enter the database names you want to select from in the Database List box. The Database Name box displays and lets you select from those database names.

Host Name

Enter the name of the machine on which the INFORMIX 7 server resides.

User Name

Enter the name of the user as specified on the INFORMIX 7 server.

Password

Enter the user's password.

Options

Click to specify the Service Name and Protocol type.

```
{button ,AL(^H_CONNECTING_TO_INFORMIX7_USING_A_CONNECTION_STRING_REF;H_CONNECTING_TO_I
NFORMIX7_USING_A_LOGON_DIALOG_BOX_STEPS;H_INF7_NUMBER_OF_CONNECTIONS_AND_STATE
MENTS_SUPPORTED_REF;',0)} See related topics
```

INFORMIX Server Options dialog box

Service Name

Name of the service as it appears on the host machine. This service is assigned by the system administrator. If you entered a service name in the Setup dialog box, that name is displayed; you can change it.

Protocol Type

This list displays the protocols specified in the Setup dialog box. Select a communications protocol.

Connecting to INFORMIX using a connection string

If your application requires a connection string to connect to a data source, you must specify the data source name that tells the driver which ODBC.INI section of the registry to use for the default connection information. Optionally, you may specify *attribute=value* pairs in the connection string to override the default values stored in the ODBC.INI section of the registry.

You can specify either long or short names in the connection string. The connection string has the form:

```
DSN=data_source_name[:attribute=value[:attribute=value]...]
```

An example of a connection string for INFORMIX 7 is

```
DSN=INFORMIX TABLES;DB=PAYROLL
```

The following table gives the long and short names for each attribute, as well as a description.

The defaults listed in the table are initial defaults that apply when no value is specified in either the connection string or the data source definition in the ODBC.INI section of the registry. If you specified a value for the attribute when configuring the data source, that value is your default.

| Attribute | Description |
|----------------------|--|
| DataSourceName (DSN) | A string that identifies an INFORMIX data source configuration in the ODBC.INI section of the registry. Examples include "Accounting" or "INFORMIX-Serv1." |
| Database (DB) | The name of the database to which you want to connect. |
| HostName (HOST) | The name of the machine on which the INFORMIX 7 server resides. |
| LogonID (UID) | Your user name as specified on the INFORMIX 7 server. |
| Password (PWD) | A password. |
| Service (SERV) | The name of the service as it appears on the host machine. This service is assigned by the system administrator. |
| Protocol (PRO) | Protocol={FTP IPX LANMAN TCP-IP}. The protocol used to communicate with the server. Values can be FTP, IPX, LANMAN, or TCP-IP. You can specify one or more values; separate the names with commas. |
| YieldProc (YLD) | <p>A value that determines if you can work in other Windows applications when INFORMIX 7 is busy. This attribute is useful to users of ODBC applications.</p> <ul style="list-style-type: none">• YieldProc=0 (peek and dispatch) causes the driver to check the Windows message queue and send any messages to the appropriate Windows application.• YieldProc=1 (no yielding, the initial default) does not let you work in non-Windows applications.• YieldProc=2 (INFORMIX's yield procedure) uses INFORMIX's default yield procedure.• YieldProc=3 (dispatch via Windows Yield function) turns control over to the Windows kernel. The Windows kernel checks the message queue and sends any messages to the appropriate application window. <p>This attribute is not available for editing in Windows NT or Windows 95. YieldProc is set to 1 as the default. This lets you work in other Windows applications when INFORMIX 7 is busy. If YieldProc=0, 2, or 3 then you cannot work in other Windows applications when INFORMIX 7 is busy.</p> |
| Cursor Behavior (CB) | CursorBehavior={0 1}. A value that determines whether cursors will be preserved or closed at the end of each transaction. Valid values are 1 (preserve) and 0 (close, the initial default). Set this attribute to 1 if you want cursors to be held at the current position when the transaction ends. The value CursorBehavior=1 may impact the performance of your database operations. |

| | |
|-----------------------------------|--|
| EnableScrollable Cursors (ESC) | EnableScrollableCursors={0 1}. A value that determines whether the driver can use scrollable cursors. The initial default value is 0 (no use of scrollable cursors). The INFORMIX driver can use scrollable cursors only if there are no long columns (SQL_LONGVARCHAR or SQL_LONGVARIABLE) in a Select list. If you set this option to use scrollable cursors (EnableScrollableCursors=1), you must not include long columns in the Select list. |
| EnableInsertCursors (EIC) | EnableInsertCursors={0 1}. A value that determines whether the driver can use INSERT cursors during parameterized inserts. The initial default value is 0 (driver does not use INSERT cursors). Using INSERT cursors improves performance during multiple INSERT operations using the same statement. This option enables insert data to be buffered in memory before being written to the disk. When EnableInsertCursors=0, the driver does not use INSERT cursors. |
| GetDBListFromInformix (GDBLFI) | GetDBListFromInformix={0 1}. A value that determines whether the driver requests the database list to be returned from the INFORMIX server or from the database list that the user entered at driver setup. When set to 1, the initial default, the driver requests the database list from the INFORMIX server. When set to 0, it uses the list that was entered by the user at driver setup. |

Connecting to INFORMIX using a Logon dialog box

Some ODBC applications display a Logon dialog box when you are connecting to a data source. In these cases, the data source name has already been specified.

In the Logon dialog box, do the following:

1. Type the name of the database you want to access or select the name from the Database Name drop-down box.
This list displays names returned from the INFORMIX server. If you set the Get DB List from Informix option to 0 in the Setup dialog box, this list displays the names you specified.
2. Type the name of the server (host name) on which INFORMIX 7 resides.
3. If required, type your user name as specified on the INFORMIX 7 server.
4. If required, type your password.
5. Optionally, click Options to display the INFORMIX Server Options dialog box.
This dialog box enables you to change the Service Name and Protocol Type that you specified in the ODBC Setup dialog box.
6. Click OK to accept any changes you make.
7. Click OK to complete the logon and to update these values in ODBC.INI.

ODBC INFORMIX Advanced Driver Setup dialog box

To configure optional settings for an INFORMIX data source, specify values as follows:

Database List

The list of databases that display in the Logon dialog box.

If the Get DB List From Informix option is set to 0 in the ODBC Informix Advanced Driver Setup dialog box, you must enter the database names you want to select from in the Database List box.

If the Get DB List From Informix option is set to 1 in the ODBC Informix Advanced Driver Setup dialog box, the list of databases that will be displayed in the logon dialog box is created from the database list returned for INFORMIX at logon time.

When you specify the database names in the Database List box, separate them with commas.

Default User Name

The name of the user as specified on the INFORMIX 7 server.

Host Name

The name of the machine on which the INFORMIX 7 server resides.

Service Name

The name of the service as it appears on the host machine. This service is assigned by the system administrator. The name you specify is displayed in the INFORMIX Server Options dialog box.

Protocol Type

The protocol used to communicate with the server. Specify one or more values; separate the names with commas. Values can be FTP, IPX, LANMAN, TCP-IP. This list is displayed in the Logon Options dialog box.

Yield Proc

A numeric value that determines whether you can work in other Windows applications when INFORMIX 7 is busy. This attribute is useful to users of ODBC applications. Valid values are:

- 0 (peek and dispatch), which causes the driver to check the Windows message queue and send any messages to the appropriate Windows application.
- 1 (no yielding, the default), which does not let you work in non-Windows applications.
- 2 (INFORMIX's yield procedure), which uses INFORMIX's default yield procedure.
- 3 (dispatch via Windows Yield function), which turns control over to the Windows kernel. The Windows kernel checks the message queue and sends any messages to the appropriate application window.

This attribute is not available for editing in Windows NT or Windows 95. YieldProc is set to 1 as the default. This lets you work in other Windows applications when INFORMIX 7 is busy. If YieldProc=0, 2, or 3 then you cannot work in other Windows applications when INFORMIX 7 is busy.

Cursor Behavior

Select Preserve if you want cursors to be held at the current position when the transaction ends. Otherwise, leave this set to Close. Selecting Preserve may impact the performance of your database operations.

Enable Scrollable Cursors

A value that determines whether the driver can use scrollable cursors. The initial default value is 0 (no use of scrollable cursors). The INFORMIX driver can use scrollable cursors only if there are no long columns in a Select list. If you set this option to use scrollable cursors (EnableScrollableCursors=1), you must not include long columns in the Select list.

Get DB List From Informix

A value that determines whether the driver requests the database list to be returned from the INFORMIX server or from the database list that the user entered at driver setup.

When set to 1, the initial default, the driver requests the database list from the INFORMIX server. When set to 0, it uses the list that was entered by the user at driver setup.

Translate

Displays the Select Translator dialog box to allow you to perform a translation of your data from one character set to another. Choose the OEM to ANSI translator to translate your data from the IBM PC character set to the ANSI character set.

Close

Returns to the INFORMIX 7 ODBC Setup dialog box, where you can click the OK button to write these settings to the ODBC.INI file.

Configuring data sources

To configure an INFORMIX 7 data source, do the following:

1. Start the ODBC Administrator by running ODBCAD32.EXE.
A list of data sources appears.
2. If you are configuring a new data source, click Add.
A list of installed drivers appears.
3. Select INTERSOLV OEM 2.12 32-BIT INFORMIX 7 and click OK.
4. If you are configuring an existing data source, select the data source name and click Setup.
The ODBC INFORMIX Driver dialog box appears.
5. Specify a data source name.
6. (Optional) Enter a description and a database name.
7. Click Advanced to configure optional data source settings.
The ODBC INFORMIX Advanced Driver Setup dialog box appears.
8. Click Translate to perform a translation of your data from one character set to another.
The Select Translator dialog box appears.
9. Select a translator to perform the translation.
The OEM to ANSI translator translates your data from the IBM PC character set to the ANSI character set.
10. Click OK to perform the translation and close the Select Translator dialog box.
The translators listed in this dialog box are determined by the values listed in the ODBC Translators section of your ODBCINST.INI file.
11. Click OK to write these values to the ODBC.INI section of the registry.

These values are now the defaults when you connect to the data source. You can change the defaults by configuring your data source again. You can override the defaults by connecting to the data source using a connection string with alternate values.

Data types

The INFORMIX 7 data types map to the standard ODBC data types as follows:

| <u>INFORMIX 7</u> | <u>ODBC</u> |
|---------------------------------|------------------|
| Byte* | SQL_LONGVARIABLE |
| Char | SQL_CHAR |
| Date | SQL_DATE |
| Datetime year to fraction(5) | SQL_TIMESTAMP |
| Decimal | SQL_DECIMAL |
| Float | SQL_DOUBLE |
| Integer | SQL_INTEGER |
| Money | SQL_DECIMAL |
| Serial | SQL_INTEGER |
| Smallfloat | SQL_REAL |
| Smallint | SQL_SMALLINT |
| Text* | SQL_LONGVARCHAR |
| Varchar* | SQL_VARCHAR |

*Not supported for Standard Engine Databases.

Note The Interval data type is not supported. Existing columns of this type are mapped to the ODBC SQL_CHAR data type.

Isolation and lock levels supported

INFORMIX 7 supports isolation levels 0 (read uncommitted), 1 (read committed), and 3 (serializable). The default is 1. The Standard Engine supports isolation level 0 (read uncommitted) only.

INFORMIX 7 also supports an alternative isolation level 1, called cursor stability. Your ODBC application can use this isolation level by calling `SQLSetConnectOption (1040,1)`.

Additionally, if transaction logging has not been enabled for your database, then transactions are not supported by the driver (the driver is always in auto-commit mode).

INFORMIX 7 supports page-level locking.

Number of connections and statements supported

The INFORMIX 7 database system supports multiple connections and multiple statements per connection.

ODBC conformance levels

The INFORMIX 7 driver supports the Core, Level 1, and Level 2 API functions listed in Supported ODBC Functions. In addition, the following Level 2 functions are supported:

- SQLBrowseConnect
- SQLProcedures
- SQLColumnPrivileges
- SQLTablePrivileges
- SQLPrimaryKeys

The driver supports the core SQL grammar.

System requirements

The 32-BIT Informix 7 driver works on Windows NT only; this driver is not supported on Windows 95.

To access remote INFORMIX databases, you need INFORMIX-Net 7.1 for Windows NT from INFORMIX.

Note The INFORMIX 7 driver for Windows NT does not work with versions of INFORMIX-Net other than 7.1.

Use the SETNET.EXE utility supplied with INFORMIX 7.1 to define servers and the location of the INFORMIX directory. Use ILOGIN.EXE to test your connection to the INFORMIX server.

The INFORMIX-Net 7.1 package includes ISQLI710.DLL. The path to this DLL must be in your PATH environment variable. If it is not, the following message appears:

"The setup routines for the INTERSOLV OEM 2.12 32-BIT INFORMIX 7 ODBC driver could not be loaded. You may be low on memory and need to quit a few applications."

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About the INFORMIX 7 Driver

The INFORMIX 7 driver supports multiple connections to the INFORMIX 5, 6, and 7 databases.

The 32-bit INFORMIX 7 driver works on Windows NT only; this driver is not supported on Window 95.

The driver filename is LOINF709.DLL.

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ODBC INFORMIX Driver Setup dialog box

Use the ODBC INFORMIX Driver Setup dialog box to create new data sources or configure existing data sources.

Data Source Name

A string that identifies this INFORMIX data source configuration in the ODBC.INI section of the registry. Examples include "Accounting" or "INFORMIX-Serv1."

Description

An optional long description of a data source name. For example, "My Accounting Database" or "INFORMIX 7 files on Server number 1."

Database Name

The name of the database to which you want to connect by default.

Advanced

Displays the [ODBC INFORMIX Advanced Driver Setup dialog box](#) to configure optional data source settings, such as host name and default user name.

OK

Creates or modifies the current data source using the options you specify.

Cancel

Exits the ODBC Setup dialog without creating or modifying a data source.

{button ,AL(^H_INF7_CONFIGURING_DATA_SOURCES_STEPS;H_INF7_ISOLATION_AND_LOCK_LEVELS_SUPPORTED_REF;H_INF7_NUMBER_OF_CONNECTIONS_AND_STATEMENTS_SUPPORTED_REF;H_INF7_ODBC_CONFORMANCE_LEVELS_REF;H_INF7_SYSTEM_REQUIREMENTS_REF;','0)} [See related topics](#)

