

Distribution Instructions for LabWindows®/CVI Executables Using the DLLs of the SQL Toolkit Database Driver

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Overview

These release notes tell you about distributing run-time applications built with the LabWindows/CVI SQL Toolkit. Because applications built with the SQL Toolkit require database drivers for direct database access, you must install the appropriate database drivers and support files onto your target computers in addition to your executable files. These release notes outline the files required for direct database access from your target computer. In addition, these notes contain instructions for building a distribution kit for your application in LabWindows/CVI.

You need the following file types to support a standalone executable or DLL file built with the SQL Toolkit:

- Open Database Connectivity (ODBC) Administrator files
- SQL Toolkit Instrument Driver support files
- SQL Toolkit ODBC Database Driver files

You also need to register the database drivers in the ODBC Administrator on the target computer by updating the ODBC . INI Registry entry in the Registry for Windows 95 and NT, or the ODBC . INI file for Windows 3.1.

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Note: *Please refer to your LabWindows/CVI SQL Toolkit Run-Time License Agreement to learn what files you have the right to redistribute. You cannot redistribute the database driver files included in the SQL Toolkit without purchasing a LabWindows/CVI SQL Toolkit Database Driver Run-Time License. Contact National Instruments for further information on database driver file redistribution and on purchasing a LabWindows/CVI SQL Toolkit Database Driver Run-Time License.*

ODBC Administrator

Before you can use a Windows ODBC driver, you must install the ODBC Administrator on your target computer. To install the ODBC Administrator, you must add the following support files to the Windows SYSTEM directory (SYSTEM32 for Windows NT).

Files required for Windows 95 and NT:

ODBC32.DLL	ODBC Driver Manager
ODBCAD32.EXE	ODBC Administrator
ODBCCP32.DLL	ODBC Driver Installation DLL
ODBCCP32.CPL	ODBC Control Panel File
ODBCCR32.DLL	ODBC Cursor Library DLL
ODBCINST.HLP	ODBC Driver Installation DLL Help
ODBCINT.DLL	ODBC Support DLL
CTL3D32.DLL	3-D Dialog Box DLL
MSVCRT10.DLL	Microsoft Run-Time DLL
MSVCRT20.DLL	Microsoft Run-Time DLL

Files required for Windows 3.1:

ODBCINST.DLL	ODBC Setup Program
ODBCINST.HLP	ODBC Driver Installation DLL Help
ODBC.DLL	ODBC Driver Manager DLL
ODBCCURS.DLL	ODBC Cursor Library
CTL3DV2.DLL	3-D Dialog Box DLL

SQL Toolkit Instrument Driver Support Files

LabWindows/CVI programs that use the SQL Toolkit Instrument Driver must have the following files installed on the target computer.

Files required for Windows 95 and NT:

IVLIB.DLL	SQL Toolkit Instrument Driver Support DLL
IVSQL08.DLL	Utility DLL used by IVLIB.DLL
IVUTL08.DLL	Utility DLL used by IVLIB.DLL

Files required for Windows 3.1:

CVI_DB.DLL	SQL Toolkit Instrument Driver DLL
CVI_DB.PTH	SQL Toolkit Instrument Driver path file
QELIB.DLL	Utility DLL used by CVI_DB.DLL
QESQL07.DLL	Utility DLL used by QELIB.DLL
QEUTL07.DLL	Utility DLL used by QELIB.DLL
QEGUI07.DLL	Utility DLL used by QELIB.DLL

The SQL Toolkit Instrument Driver must have the DLL files to implement the database functions that your program uses. You must either place the DLL files in the Windows SYSTEM directory (SYSTEM32 under Windows NT), or a directory contained in the DOS PATH statement on your target computer. For Windows 3.1, you must place CVI_DB.PTH in the same directory as your LabWindows/CVI standalone executable file. The CVI_DB.PTH specifies the name of the DLL that contains the SQL Toolkit Instrument Driver functions.

SQL Toolkit ODBC Database Drivers

Each LabWindows/CVI SQL Toolkit ODBC database driver contains files required for database operations on your target computer. You must either place these files into the Windows SYSTEM directory (SYSTEM32 under Windows NT), or into a directory contained in the DOS PATH statement on your target computer.

All the SQL Toolkit ODBC drivers require the following support files.

Files required for Windows 95 and NT:

CDBAS09.DLL	Utility DLL used by the ODBC drivers
CDUTL09.DLL	Utility DLL used by the ODBC drivers

CDFLT09.DLL	Flat-file ODBC driver shared library
IVCD.LIC	License file to use the SQL Toolkit ODBC drivers

Files required for Windows 3.1:

CDBAS07.DLL	Utility DLL used by the ODBC drivers
CDUTL07.DLL	Utility DLL used by the ODBC drivers
CDFLT07.DLL	Flat-file ODBC driver shared library
QECD.LIC	License file to use the SQL Toolkit ODBC drivers

Table 1 lists the database driver files required for direct database access with the LabWindows/CVI SQL Toolkit. Some of these ODBC database drivers may require additional files from your database system vendor. In many cases, you will receive these files with the purchase of your database system. Contact your database system vendor to obtain these additional files and information concerning distribution rights of these files.

Note: *Some filenames in the following table contain the characters “xx” which represent a numeric version for the DLL. Consult the SQL Toolkit Readme file for the specific filenames. (For version 1.1 of the SQL Toolkit, the Windows 95/NT value is “09”, and the Windows 3.1 value is “07”).*

Table 1. Database Driver Files

Database System Used	Required files from SQL Toolkit	Required DLLs from Other Vendors
Btrieve	CDBTRxx.DLL CDFLTxx.DLL	Windows 3.1: WBTRCALL.DLL* WDDLSVCS.DLL Windows 95/NT: WBTRV32.DLL
DB2/2 for OS/2 (formerly called Database Manager for OS/2) DB2/6000, SQL/400 (through the DDCS/2 or DDCS/6000 gateway) MVS DB2 (through the DDCS/2 or DDCS/6000 gateway) SQL/DS (through the DDCS/2 or DDCS/6000 gateway)	CDDMBxx.DLL QECSV1.BND QERRV1.BND QEURV1.BND QECSWHV1.BND** QERRWHV1.BND** QEURWHV1.BND**	Windows 3.1: PCDRDLL.DLL Windows 95/NT: See the system requirements section in the driver online help.
dBase II, III, IV, and V files, Clipper files, FoxPro, and FoxBASE files	CDDBFxx.DLL CDFLTxx.DLL	none
Excel versions 2, 3, and 4	CDXLSxx.DLL CDFLTxx.DLL	none
Excel version 5	CDXLS5xx.DLL CDFLTxx.DLL	COMPOBJ.DLL STORAGE.DLL
HP ALLBASE/SQL and HP IMAGE/SQL	CDHPxx.DLL	SQLAPIW.DLL
IBM Database 2 and Teradata via the MicroDecisionware Database Gateway	CDMDIxx.DLL	W3DBLIB.DLL DBNMP3.DLL
INFORMIX	CDINFxx.DLL	LDLLSQLW.DLL
INFORMIX 5	CDINF5xx.DLL	I-NET 5.0 DLLs
INFORMIX 7	CDINF7xx.DLL	I-NET 7.1 DLLs
INGRES Release 6.4/03 or earlier	CDINGxx.DLL	CLW.DLL, ADFW.DLL LIBQW.DLL, GCCW.DLL

(continues)

Table 1. Database Driver Files (Continued)

Database System Used	Required files from SQL Toolkit	Required DLLs from Other Vendors
INGRES Release 6.4/04	CDING4xx.DLL	Windows 3.1: CLW.DLL, ADFW.DLL LIBQW.DLL, GCCW.DLL Windows 95/NT: LIBQ32.DLL, ADF32.DLL, CL32_1.DLL, GCA32.DLL
InterBase	CDINTxx.DLL	GDS.DLL, REMOTE.DLL
NetWare SQL (Scalable SQL)	CDXQLxx.DLL	WXQLCALL.DLL
Oracle version 6	CDORAx.x.DLL	ORA6WIN.DLL
Oracle version 7	CDOR7xx.DLL	Windows 3.1: ORA7WIN.DLL, COREWIN.DLL, USDMEM.DLL Windows 95/NT: DLLs for SQL*Net and OCIW32.DLL
Paradox 3.0, 3.5, 4.0, and 4.5 tables	CDPDXxx.DLL CDFLTxx.DLL	PXENGWIN.DLL
Paradox 3.0, 3.5, 4.0, 4.5, and 5.0 tables	CDIDPxx.DLL CDFLTxx.DLL	IDAPI01.DLL, IDPDX01.DLL, IDRL0009.DLL, ILD01.DLL
Paradox 3.0, 3.5, 4.0, 4.5, 5.0 and 7.0 tables (Windows 95/NT)	CDIDPxx.DLL CDFLTxx.DLL	IDAPI32.DLL
PROGRESS	CDPROxx.DLL CDPNETxx.DLL ***	none
SQL Server	CDSSxx.DLL	Windows 3.1: W3DBLIB.DLL Windows 95/NT: NTWDBLIB.DLL Note: The NET-Library DLL depends on network protocol.

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Table 1. Database Driver Files (Continued)

Database System Used	Required files from SQL Toolkit	Required DLLs from Other Vendors
SQL Server 6	CDSS6xx.DLL	NTWDBLIB.DLL <i>Note: The NET-Library DLL depends on network protocol.</i>
SQLBase	CDGUPxx.DLL	SQLAPIW.DLL and other SQLBase communication files.
Sybase System 10	CDSYBxx.DLL	Windows 3.1: WCSLIB.DLL, WCTLIB.DLL or other Sybase Net-Library DLL Windows 95/NT: LIBCS.DLL, LIBCOMN.DLL, LIBCT.DLL, LIBINTL.DLL, LIBTCL.DLL
Text files	CDTXTxx.DLL CDFLTxx.DLL	none
XDB	CDXDBxx.DLL	XUTILW.DLL, MEMRESW.DLL, WINROUTE.DLL, MEMR30WD.DLL
* Network version. The SQL Toolkit supplies non-network version. ** Files do not work with SQL/DS. *** There are four different versions, each for different network configurations.		

Registering the Installed Database Driver Files in the ODBC Administrator

To use a database driver on your target computer, you must register the database driver files in the ODBC Administrator. To register driver files you must update the ODBC.INI and ODBCINST.INI Registry entries for Windows 95 and NT, or the ODBC.INI and ODBCINST.INI files for Windows 3.1, on your target computer. The SQL Toolkit includes a utility, CVIDBDRV.EXE, that can automatically update the entries or files for you. After you install your application, you can run the CVIDBDRV.EXE program using the following syntax.

```
CVIDBDRV.EXE <DriverOrDataSourceName> [QUIET]
```

The **DriverOrDataSourceName** parameter is the name of the data source that you are using. The valid values for Windows 95 and NT are,

Btrieve, dBase, DB2, Excel, Excel5, FoxPro, Informix5, Informix7, INGRES, Oracle7, Paradox, SQLServer, SQLServer6, SQLBase, Sybase, Textfile, All (for all drivers), or SampConfig (configure the LabWindows/CVI Samples data source).

The valid values for Windows 3.1 are,

Btrieve, dBase, DB2, Excel, Excel5, Allbase, MDI, Informix4, Informix5, Ingress, Ingress4, Interbase, NetwareSQL, Oracle6, Oracle7, Paradox4, Paradox5, Progress, SQLServer, SQLBase, Sybase, Textfile, XDB, All (for all drivers), or SampConfig (configure the LabWindows/CVI Samples data source).

Note: *To display the full executable help, run the executable without any parameters. The parameter values are not case sensitive.*

Note: *Normally, you must set up the data source manually through the ODBC Administrator. However, the CVIDBDRV executable can perform this setup automatically for CVI_SAMPLES.*

Instructions for Creating a LabWindows/CVI Distribution Kit for SQL Toolkit Applications

In these instructions, the project to be distributed is the sample project called BROWSER, and it uses the dBase ODBC driver from the SQL Toolkit.

You need to set up the LabWindows/CVI Create Distribution Kit with the following file groups:

Group 1: Project Files, PTH file, and CVIDBDRV.EXE

Target directory for the files: \BROWSER

Files required:

BROWSER.EXE	Project standalone executable file
PICKUIR.UIR	Project UIR file for standalone executable file
CVIDBDRV.EXE	Executable file to update ODBC Administrator
CVI_DB.PTH	SQL Toolkit Instrument Driver path file (Windows 3.1 only)

Group 2: ODBC Administrator

Target directory for the files: \WINDOWS\SYSTEM

Files required for Windows 95 and NT:

ODBC32.DLL	ODBC Driver Manager
ODBCAD32.EXE	ODBC Administrator
ODBCCP32.DLL	ODBC Driver Installation DLL
ODBCCP32.CPL	ODBC Control Panel file
ODBCCR32.DLL	ODBC Cursor Library DLL
ODBCINST.HLP	ODBC Driver installation DLL Help
ODBCINT.DLL	ODBC Support DLL
CTL3D32.DLL	3-D Dialog Box DLL
MSVCRT10.DLL	Microsoft Runtime DLL
MSVCRT20.DLL	Microsoft Runtime DLL

Files required for Windows 3.1:

ODBCINST.DLL	ODBC Setup Program
ODBCINST.HLP	ODBC Driver Installation DLL Help
ODBC.DLL	ODBC Driver Manager DLL
ODBCCURS.DLL	ODBC Cursor Library
CTL3DV2.DLL	3-D Dialog Box DLL

Group 3: SQL Toolkit Instrument Driver support files

Target directory for the files: \WINDOWS\SYSTEM(32)

Files required for Windows 95 and NT:

IVLIB.DLL	SQL Toolkit Instrument Driver Support DLL
IVSQL08.DLL	Utility DLL used by IVLIB.DLL
IVUTL08.DLL	Utility DLL used by IVLIB.DLL

Files required for Windows 3.1:

CVI_DB.DLL	SQL Toolkit Instrument Driver DLL
CVI_DB.PTH	SQL Toolkit Instrument Driver path file
QELIB.DLL	Utility DLL used by CVI_DB.DLL
QESQL07.DLL	Utility DLL used by QELIB.DLL
QEUTL07.DLL	Utility DLL used by QELIB.DLL
QEGUI07.DLL	Utility DLL used by QELIB.DLL

Group 4: SQL Toolkit ODBC Database Drivers and support files

Target directory for the files: \WINDOWS\SYSTEM(32)

Files required for Windows 95 and NT:

CDBAS09.DLL	Utility DLL used by the ODBC drivers
CDUTL09.DLL	Utility DLL used by the ODBC drivers
CDFLT09.DLL	Flat-file ODBC driver shared library
IVCD.LIC	License file to use the SQL Toolkit ODBC drivers

Files required for Windows 3.1:

CDDBF07.DLL	dBase ODBC Driver file
CDBAS07.DLL	Utility DLL used by the ODBC drivers
CDUTL07.DLL	Utility DLL used by the ODBC drivers
CDFLT07.DLL	Flat-file ODBC driver shared library
QECD.LIC	License file to use the SQL Toolkit ODBC drivers

After you install the created BROWSER Distribution Kit, run the following command on your target computer to register the ODBC driver files into the ODBC Administrator.

```
C:\BROWSER\CVIDBDRV.EXE dBase QUIET
```



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