SDK Installation Guide

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Microsoft ODBC SDK Preliminary Release

The preliminary release of the ODBC SDK provides you with the basic tools to develop ODBC drivers and applications. There are three principle components in the SDK: the Driver Manager, a sample driver and the Microsoft Interrogator (GATOR).

Briefly, the Driver Manager loads ODBC drivers and assists in managing connections to data sources on behalf of ODBC applications and drivers. The sample driver provides a very simple, self-contained working model of an ODBC driver. It is useful for verify your SDK installation, trying-out GATOR and, since the source code is included in the SDK, as reference for beginning to develop your own driver. Finally, GATOR provides a very complete, full-functioned test tool for ODBC driver developers. With GATOR a driver developer may test each ODBC API function that they implement and may implement suites of tests against multiple driver functions.

Each of these components is described in detail in the documentation included in the SDK.

Installing the ODBC SDK Preliminary Release

The following sections provide you with:

- An overview of the contents of your ODBC SDK Preliminary Release package

- A summary of the hardware and software requirements for the SDK

- Instructions telling you how to install the SDK

- A list of the directories and files that will be installed on your computer

Developer's Kit Contents

Your software development kit should contain the following items:

- Cover letter

- License agreement

- ODBC Application Programmer's Guide

- ODBC Driver Developer's Guide

- ODBC API Reference

- ODBC Test Application User's Guide

- One 3.5-inch 1.44 Mb disk and one 5.25-inch disk, both containing:

  - Installation batch file and utilities (INSTALL.BAT, INSTALL2.BAT, CHKDIR.EXE, etc.)

  - Driver Manager DLL (DRVRMGR.DLL)

  - Driver Manager import library (DRVRMGR.LIB)

  - Microsoft Interrogator test application (GATOR.EXE)

  - Sample driver DLL (SAMPLE.DLL)

  - ODBC core functions header file (SQL.H)

  - ODBC extension functions header file (SQLEXT.H)

  - ODBC initialization file (ODBC.INI)

  - Microsoft Interrogator test application initialization file (GATOR.INI)

  - Common dialogs DLL (COMMDLG.DLL)

  - Test application source files, header files, object files, makefile, etc. necessary to build a customized version of the test application.

  - Sample driver source files, header files, makefile, etc. necessary to build a customized version of the sample driver.

  - Other common header file(s)

  - Other common libraries

ODBC SDK Development Requirements

Hardware Requirements

Approximately 2 megabytes of disk space for the installation of the SDK files and additional disk space for assembling, compiling and linking the test application and sample driver.

The SDK software has been tested on the following hardware, though it may be possible to use other configurations:

Personal computer with an 80386 processor with at least 5 megabytes of RAM.

Software Requirements

The SDK software has been tested with the following system and development software, though it may be possible to use other configurations:

MS-DOS 5.0

Microsoft Windows 3.0 or Windows 3.1 Beta-3

Microsoft C6.00A

Microsoft Windows 3.0 SDK or Windows 3.1 Beta-3 SDK

Microsoft MASM 5.3 (required for building a customized sample driver)

Environment Requirements

When using the supplied makefiles to build customized versions of the test application (gator.exe) or the sample driver (sample.dll) you must be sure that the \INCLUDE and \LIB directories in your ODBC SDK directory are either specified in your PATH or in environment variables as specified in the Microsoft C Compiler Reference manual. These two directories should be searched first during the compile and link process. You must also make sure that the source, object and other files for the test application or sample driver can be found by the assembler, compiler and linker. Please review the makefiles and any necessary assembler, compiler and linker documentation to ensure that you have your environment correctly defined for your particular configuration.

Installation Instructions

The Microsoft ODBC SDK Preliminary Release software is provided on both a high density 3.5-inch, 1.44 MB disk and a high density 5.25-inch, 1.2 MB disk. Each disk contains a complete copy of the ODBC SDK.

Before you install the ODBC SDK on your system you should make a backup of one or both of the original SDK disks.

The installation of the SDK must be performed from a DOS prompt. To install the SDK, insert one of the disks into a drive on your computer.

Change the current drive to the drive in which you have inserted the SDK disk. For example:

    C:> A: <enter>
    A:>

At the DOS prompt type, install, followed by the path specification of the directory in which you have Windows installed and the path specification for the directory in which you want to install the ODBC SDK.

 If you do not specify the path to your Windows directory, the installation process will attempt to locate the default Windows directory on drive C, i.e. C:\WINDOWS. If the default Windows directory cannot be found, you will have to enter the correct path specification. The installation process places the ODBC initialization file (ODBC.INI) in your Windows directory.

If you do not specify the path in which you want to install the ODBC SDK, the installation process will attempt to create a default directory for the SDK. The default directory path specification is: C:\ODBC. If you want to specify a different directory in which to install the SDK, you must specify the Windows directory as well.

The following examples will be helpful in determining how to install your copy of the ODBC SDK successfully:

Example	Result
A:> install	If successful, this would install the ODBC.INI file in C:\WINDOWS and the balance of the ODBC SDK in C:\ODBC.
A:> install C:\MSWIN	If successful, this would install the ODBC.INI file in C:\MSWIN and the balance of the ODBC SDK in C:\ODBC.

A:> install C:\MSWIN C:\ODBCSDK	If successful, this would install the ODBC.INI file in C:\MSWIN and the balance of the ODBC SDK in C:\ODBCSDK.
A:> install C:\ODBCSDK	This example would, typically, be unsuccessful since it would indicate that your Windows directory was C:\ODBCSDK and that you want the ODBC SDK installed in the default installation directory, C:\ODBC.

Example	Result
C:> a:install	Attempting to install the ODBC SDK without first setting the drive in which the installation disk is inserted as the current driver will cause the installation to fail.

After you have determined where you want the components of the ODBC SDK installed and have started the installation process you should see the following messages (the default installation directories will be used for purposes of illustration):

Installing Microsoft ODBC SDK Preliminary Release
Using C:\WINDOWS for ODBC.INI and C:\ODBC for all other files
Copying ODBC Driver Manager and tools to C:\ODBC
Copying ODBC include files to C:\ODBC\INCLUDE
Copying ODBC libraries to C:\ODBC\LIB
Copying ODBC Gator source to C:\ODBC\GATOR
Copying ODBC sample driver to C:\ODBC\SAMPLE
ODBC SDK has been successfully installed

Once installation is complete you may remove the installation disk from the drive in which it was inserted.

Note that all of the ODBC SDK files on the installation disks are compressed and will be uncompressed as they are installed on your computer. DO NOT simply copy the ODBC SDK files from the installation disk onto your computer.

Upon completing installation of the ODBC SDK, you should be able to run the

GATOR against the Sample Driver. The ODBC initialization file provided in the SDK contains any entry for the sample driver DLL. One way in which you might set your system up to try out the SDK, would be to create a Windows program item specifying gator.exe on the Command Line with the appropriate path and specifying the same path as the Working Directory.

ODBC SDK Files

Upon successful completion of the installation process, your Windows directory should contain the ODBC initialization file (ODBC.INI). The directory that you specified for the installation of the balance of the SDK should contain the following directories and files (the directories C:\WINDOWS and C:\ODBC will be used for purposes of illustration):

Directory	Files	
C:\WINDOWS	ODBC.INI	
C:\ODBC	GATOR.EXE	SAMPLE.DLL
	DRVRMGR.DLL	GATOR.INI
	COMMDLG.DLL	
C:\ODBC\GATOR	AUTOTEST.C	L1QTEST.C
	AUTOTEST.H	L2QTEST.C
	CORQTEST.C	MAKEFILE
	CUSTOM.C	SQL_0001.ACT
	GATOR.DEF	SQL_0001.QRY
	GATOR.H	SQL_0001.RST

	GATOR.RES	TESTS.H
C:\ODBC\GATOR\OBJ	AUTO.OBJ	MISC.OBJ
	CONNECT.OBJ	RECEIVE.OBJ
	DDA.OBJ	SEND.OBJ
	GATOR.OBJ	SERVERCN.OBJ
	MFQENG.OBJ	
C:\ODBC\INCLUDE	SQL.H	WINDOWS.H
	SQLEXT.H	
C:\ODBC\LIB	COMMDLG.LIB	MDLLCEW.LIB
	DRVRMGR.LIB	MLIBCEW.LIB
	LIBW.LIB	

Directory	Files	
C:\ODBC\SAMPLE	CONNECT.C	LIBSTART.ASM
	DATABASE.C	MAKEFILE
	DATABASE.H	MEMORY.C
	ECONNECT.C	MISC.C
	EDATA.C	RESULTS.C
	EDICT.C	SAMPLE.DEF
	EMISC.C	SAMPLE.H
	ERESULTS.C	SAMPLE.RC
	ERR.H	TRANSACT.C
	EXECUTE.C	WEP.C
C:\ODBC\SAMPLE\DEBUG	Empty directory.	
C:\ODBC\SAMPLE\NODEBUG	Empty directory.	

The make file for creating a customized sample driver is set up to allow you to build a "debug" or "non-debug" version. The two empty directories are created to

contain the object files for either version. Should you wish to organize your development environment differently, you are not required to maintain the above structure.