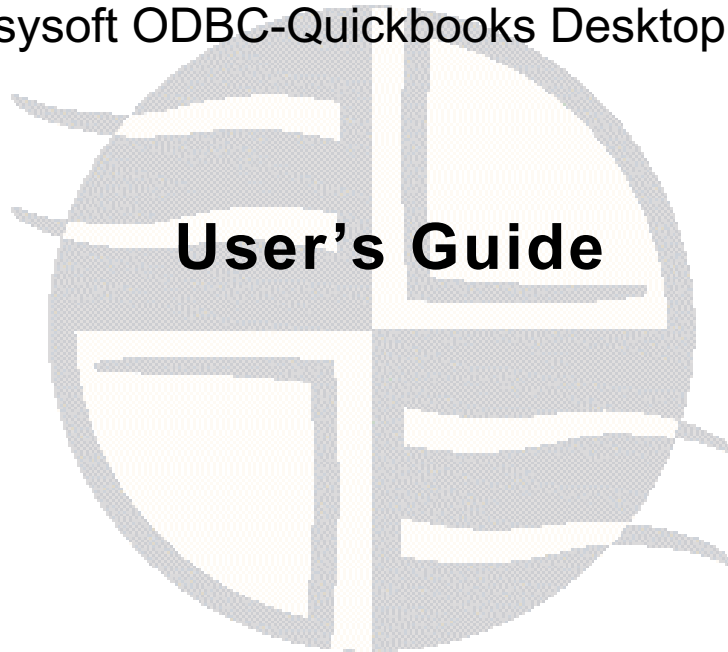


Easysoft Data Access

Easysoft ODBC-Quickbooks Desktop Driver



User's Guide

This manual documents version 1.0.n of the Easysoft ODBC-QuickBooks Desktop Driver.

Publisher: Easysoft Limited

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Chapter 1	Preface	9
	Displaying the Manual	10
	Notational Conventions	10
	Typographical Conventions	11
	Contents	11
	Trademarks	12
Chapter 2	Introduction	13
	Overview	14
	Product Status	14
Chapter 3	Installation	15
	Obtaining the Easysoft ODBC-QuickBooks Desktop Driver.....	16
	What to Install.....	17
	Installing the Easysoft ODBC-QuickBooks Desktop Driver.....	18
	Uninstalling the Easysoft ODBC-QuickBooks Desktop Driver... ..	23
Chapter 4	Configuration	25
	Configuring the Easysoft ODBC-QuickBooks Desktop Driver... ..	26
	Setting Up Data Sources on Windows	27
	Attribute Fields	31
	DSN-less Connections	39



CONTENTS

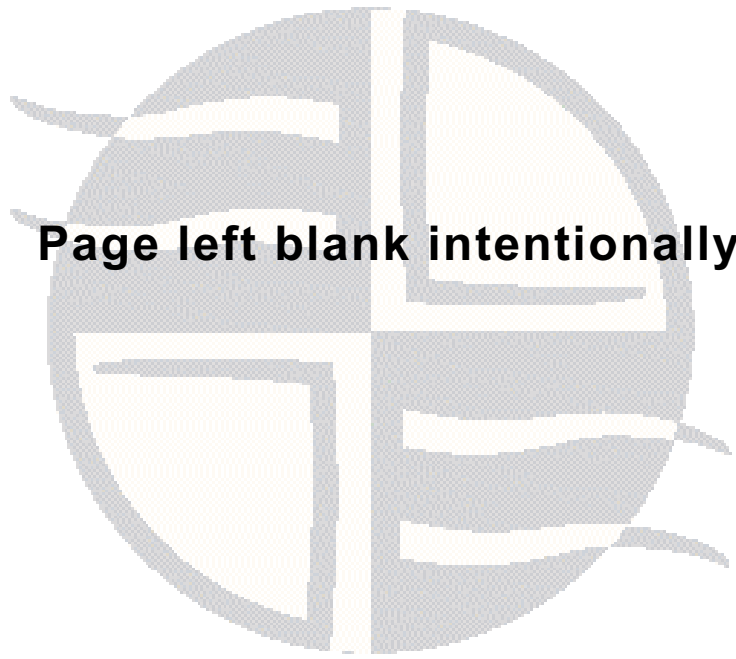
Easysoft ODBC-QuickBooks Desktop Driver

Chapter 5	Technical Reference	41
	ODBC Conformance	42
	Inserting and Updating QuickBooks Data	43
	Tracing	44
Chapter 6	Glossary	45

LIST OF FIGURES

Easysoft ODBC-QuickBooks Desktop Driver

Figure 1: The ODBC Data Source Administrator dialog box.	27
Figure 2: The Create New Data Source dialog box	28
Figure 3: The Easysoft ODBC-QuickBooks Desktop Driver DSN Setup dialog box	29



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PREFACE

About this manual

This manual is intended for use by anyone who wants to install the Easysoft ODBC-QuickBooks Desktop Driver, configure it, and then access QuickBooks Desktop from an ODBC-enabled application.

Chapter Guide

- **Notational Conventions**
- **Typographical Conventions**
- **Contents**
- **Trademarks**

PREFACE

Easysoft ODBC-QuickBooks Desktop Driver

Displaying the Manual

This manual is available in the following formats:

- Portable Document Format (PDF), which can be displayed and printed by using the Adobe Reader, available free from Adobe at <http://www.adobe.com>.
- HTML.

Notational Conventions

A *note box* provides additional information that may further your understanding of a particular topic in this manual:

Note Note boxes often highlight information that you may need to be aware of when using a particular feature.

A *platform note* provides platform-specific information for a particular procedural step:

Linux

On Linux, you must log on as the `root` user to make many important changes.

A *caution box* provides important information that you should check and understand, prior to starting a particular procedure or reading a particular section of this manual:

Caution!

Be sure to pay attention to these paragraphs because Caution boxes are important!

Typographical Conventions

This manual uses the following typographical conventions:

- User interface components such as icon names, menu names, buttons and selections are displayed in **bold**, for example:

Click **Next** to continue.

- Commands to be typed are displayed in a monospace font, for example:

At the command prompt, type `admin`.

- File listings and system names (such as file names, directories and database fields) are displayed in a monospace font.

Contents

- **Introduction**

Introduces the Easysoft ODBC-QuickBooks Desktop Driver.

- **Installation**

Explains how to install the Easysoft ODBC-QuickBooks Desktop Driver.

- **Configuration**

Explains how to configure the Easysoft ODBC-QuickBooks Desktop Driver.

- Appendices

Technical Reference and **Glossary**.



PREFACE

Easysoft ODBC-QuickBooks Desktop Driver

Trademarks

Throughout this manual, *Windows* refers generically to Microsoft Windows 7, 8, 2012 R2, 10, 2016, 2019 or 2022, which are trademarks of the Microsoft Corporation. The X Window system is specifically excluded from this and is referred to as *The X Window System* or just *X*.

QuickBooks is a trademark or registered trademark of Intuit Corporation.

Easysoft and Easysoft Data Access are trademarks of Easysoft Limited.

CHAPTER 1 INTRODUCTION

Introducing the Easysoft ODBC-QuickBooks Desktop Driver

The Easysoft ODBC-QuickBooks Desktop Driver is an ODBC 3.51 driver for QuickBooks Desktop. It lets ODBC-enabled applications access QuickBooks Desktop from Windows platforms.

Chapter Guide

- [Overview](#)
- [Product Status](#)



INTRODUCTION

Easysoft ODBC-QuickBooks Desktop Driver

Overview

The Easysoft ODBC-QuickBooks Desktop Driver connects ODBC-enabled applications on Windows to QuickBooks Desktop. For example, access QuickBooks Desktop from Excel, Access, PHP, SQL Server and more.

Product Status

The Easysoft ODBC-QuickBooks Desktop Driver is currently available on Windows platforms. The most up to date list of Easysoft ODBC-QuickBooks Desktop Driver platforms is available at:

http://www.easysoft.com/products/data_access/odbc-quickbooks-driver/index.html

Software problems can be reported to support@easysoft.com by users who have either purchased support or registered at the Easysoft web site at <http://www.easysoft.com> and are evaluating Easysoft products.

CHAPTER 2 INSTALLATION

Installing the Easysoft ODBC-QuickBooks Desktop Driver

This chapter explains how to install, license and remove the Easysoft ODBC-QuickBooks Desktop Driver on Windows.

The Windows installation can be carried out by anyone with local administrator privileges for the target machine.

Chapter Guide

- **Obtaining the Easysoft ODBC-QuickBooks Desktop Driver**
- **What to Install**
- **Installing the Easysoft ODBC-QuickBooks Desktop Driver on Windows**
- **Uninstalling the Easysoft ODBC-QuickBooks Desktop Driver on Windows**



INSTALLATION

Easysoft ODBC-QuickBooks Desktop Driver

Obtaining the Easysoft ODBC-QuickBooks Desktop Driver

There are three ways to obtain the Easysoft ODBC-QuickBooks Desktop Driver:

- The Easysoft web site is available 24 hours a day at <http://www.easysoft.com> and lets you download product releases and documentation.

Choose **Download** from the Easysoft ODBC-QuickBooks Desktop Driver section of the web site and then choose the platform release that you require.

If you have not already done so, you will need to register at the web site to download Easysoft software.

- The Easysoft FTP site is available 24 hours a day at <ftp://ftp.easysoft.com> and lets you download free patches, upgrades, documentation and beta releases of Easysoft products, as well as definitive releases.

Change to the `pub/quickbooks` subdirectory and then choose the platform release that you require.

What to Install

The name of the Easysoft ODBC-QuickBooks Desktop Driver distribution file varies from platform to platform. The file name format is:

- `odbc-quickbooks_desktop-x_y_z-windows.exe`
(Windows)

where x is the major version number, y is the minor version number and z is the build index, which is incremented when minor changes are made.

platform depends on the operating system distribution you require. File names may have this format:

Note

Select the highest release available for your platform within your licensed major version number (installing software with a different major version number requires a new Easysoft license).

INSTALLATION

Easysoft ODBC-QuickBooks Desktop Driver

To continue, refer to the installation instructions for your platform:

- **"Installing the Easysoft ODBC-QuickBooks Desktop Driver on Windows" on page 18**

Installing the Easysoft ODBC-QuickBooks Desktop Driver on Windows

INSTALLING THE EASYSOFT ODBC-QUICKBOOKS DESKTOP DRIVER

- Execute the file distribution that you downloaded in **"Obtaining the Easysoft ODBC-QuickBooks Desktop Driver" on page 16**

Follow the on screen instructions.

UPDATING FILES THAT ARE IN USE

To avoid rebooting your computer, the Easysoft ODBC-QuickBooks Desktop Driver installer prompts you when files that it needs to update are in use by another application or service. This frees the locked files and allows the installation to complete without a system restart.

On Windows Vista and later, the Easysoft ODBC-QuickBooks Desktop Driver installer uses the Restart Manager to locate the applications that are using files that need updating. These applications are displayed in the Files in Use dialog box. To avoid a system restart, choose **Automatically close applications and attempt to restart them after setup is complete**. The Easysoft ODBC-QuickBooks Desktop Driver installer then uses the Restart Manager to try to stop and restart each application or service in the list. If possible, the Restart Manager restores applications to the same state and with the same data that they were in before it shut them down.

On earlier versions of Windows, when the Files in Use dialog is displayed, manually shut down each application in the list and then click **Retry** to avoid a system restart.

LICENSING ON WINDOWS

The install program starts the Easysoft License Manager (documented in the [Licensing Guide](#)), because you cannot use the Easysoft ODBC-QuickBooks Desktop Driver until a license is obtained.

The following types of license are available:

- a *free time-limited trial license* which gives you free and unrestricted use of the product for a limited period (usually 14 days).
- a *full license* if you have purchased the product. On purchasing the product you are given an authorization code, which you use to obtain a license.



INSTALLATION

Easysoft ODBC-QuickBooks Desktop Driver

1. Enter your contact details.

You **MUST** enter the **Name**, **E-Mail Address** and **Company** fields.

The **Telephone** and **Facsimile** fields are important if you require Easysoft to contact you by those methods.

The **E-Mail Address MUST** be the same as the address used to register and download from the Easysoft web site or you will be unable to obtain trial licenses.

2. Click **Request License**.

You are asked for a license type.

3. For a trial license click **Time Limited Trial** and then click **Next**.

The License Manager asks what software you are licensing:

Select your required version of the Easysoft ODBC-QuickBooks Desktop Driver (Standard or Remote, for example) from the drop-down list and then click **Next**.

– OR –

If you have obtained an authorization code for a purchased license, select **Non-expiring License** and then click **Next**.

The License Manager requests your authorization code.

Enter the authorization code and then click **Next**.

4. The License Manager displays a summary of the information you entered and allows you to choose the method of applying for your license.
5. Choose **On-line Request** if your machine is connected to the internet and can make outgoing connections to port 8884.

The License Manager then sends a request to the Easysoft license server to activate your license key automatically. This is the quickest method and results in your details being entered immediately into our support database. You can now go to **step 6 on page 22**.

NB Only your license request identifier and contact details as they are displayed in the main License Manager screen are sent to Easysoft.

The remaining three options (**Email Request**, **Print Request** and **View Request**) are all ways to obtain a license if your machine is off-line (i.e. does not have a connection to the internet).

Each of these methods involves providing Easysoft with information including your machine number (a number unique to your machine) and then waiting to receive your license key.

Instead of emailing your details to Easysoft, you can enter them directly at the Easysoft web site and your license key will be emailed to you automatically.

To use this method, click **View Request**, and then visit:

- http://www.easysoft.com/support/licensing/trial_license.html
(trial licenses)
- http://www.easysoft.com/support/licensing/full_license.html
(purchased licenses)

In the Licensing page, enter your machine number (and authorization code for purchased license), click **Submit** and your license key will be emailed to you.

NB You can copy your machine number from the **View Request** dialog box using CTRL-C and then paste it into the License Generator by using CTRL-V.

INSTALLATION

Easysoft ODBC-QuickBooks Desktop Driver

When you receive the license key, you can activate it either by double-clicking the email attachment or by clicking **Enter License** on the License Manager main screen and pasting the license key into the dialog box.

6. A message tells you how many licenses have been added.

NB

If you use the **Email Request** option, the license key is emailed to the email address as displayed on the License Manager screen, not the `from:` address of your email.

For more information about the licensing procedure refer to the [Licensing Guide](#).

7. Click **Finish** in the License Manager.

The installation is complete.

REPAIRING THE EASYSOFT ODBC-QUICKBOOKS DESKTOP DRIVER INSTALLATION

The installer can repair a broken Easysoft ODBC-QuickBooks Desktop Driver installation. For example, you can use the installer to restore missing Easysoft ODBC-QuickBooks Desktop Driver files or registry keys.

In Windows Vista and later versions of Windows:

1. In **Control Panel**, open **Programs and Features**.
2. Right-click **Easysoft ODBC-QuickBooks Desktop Driver**, and then click **Repair**.

In earlier versions of Windows:

1. In **Control Panel**, open **Add or Remove Programs**.
2. Select **Easysoft ODBC-QuickBooks Desktop Driver** and click **Change/Remove**.

Uninstalling the Easysoft ODBC-QuickBooks Desktop Driver on Windows

This section explains how to remove the Easysoft ODBC-QuickBooks Desktop Driver from your system.

REMOVING EASYSOFT ODBC-QUICKBOOKS DESKTOP DRIVER DATA SOURCES

Easysoft ODBC-QuickBooks Desktop Driver data sources are not removed when you uninstall. You therefore do not need to recreate your Easysoft ODBC-QuickBooks Desktop Driver data sources if you reinstall or upgrade. If you do not want to keep your Easysoft ODBC-QuickBooks Desktop Driver data sources, use ODBC Administrator to remove them, **before** uninstalling the Easysoft ODBC-QuickBooks Desktop Driver.

1. In the Windows Run dialog box, type:
`%windir%\syswow64\odbcad32.exe`
2. Select the data source in the **ODBC Administrator** and click the **Remove** button.



INSTALLATION

Easysoft ODBC-QuickBooks Desktop Driver

REMOVING THE EASYSOFT ODBC-QUICKBOOKS DESKTOP DRIVER

In Windows Vista and later versions of Windows:

1. In **Control Panel**, open **Programs and Features**.
2. Double-click **Easysoft ODBC-QuickBooks Desktop Driver**.

In earlier versions of Windows:

1. In **Control Panel**, open **Add or Remove Programs**.
2. Select **Easysoft ODBC-QuickBooks Desktop Driver** and click **Change/Remove**.

The uninstall process is complete.

Any licenses you obtained for the Easysoft ODBC-QuickBooks Desktop Driver and other Easysoft products are held in the Windows registry.

When you uninstall, your licenses are not removed so you do not need to relicense the product if you reinstall or upgrade.

CHAPTER 3 CONFIGURATION

Configuring the Easysoft ODBC-QuickBooks Desktop Driver

The Easysoft ODBC-QuickBooks Desktop Driver is installed on the computer where your applications are running. ODBC applications access ODBC drivers through the ODBC Driver Manager and a data source. The data source tells the Driver Manager which ODBC driver to load, how the driver should connect to QuickBooks. This chapter describes how to create data sources, use DSN-less connections and configure the Easysoft ODBC-QuickBooks Desktop Driver.

Before setting up a data source, you must have successfully installed the Easysoft ODBC-QuickBooks Desktop Driver.

For Easysoft ODBC-QuickBooks Desktop Driver installation instructions, see **"Installation" on page 15**.

Chapter Guide

- **Configuring the Easysoft ODBC-QuickBooks Desktop Driver**
- **Setting Up Data Sources on Windows**
- **Attribute Fields**
- **DSN-less Connections**



CONFIGURATION

Easysoft ODBC-QuickBooks Desktop Driver

Configuring the Easysoft ODBC-QuickBooks Desktop Driver

This section describes how to configure the Easysoft ODBC-QuickBooks Desktop Driver to connect to QuickBooks by using a data source or a DSN-less connection string. The section assumes you are, or are able to consult with, a database administrator.

Refer to the section relevant to your platform to continue:

- **["Setting Up Data Sources on Windows" on page 27](#)**

Setting Up Data Sources on Windows

To connect an ODBC application on a Windows machine to a Salesforce database:

1. Open ODBC Data Source Administrator:

- In the Windows Run dialog box, type:

```
%windir%\syswow64\odbcad32.exe
```

The **ODBC Data Source Administrator** dialog box is displayed:

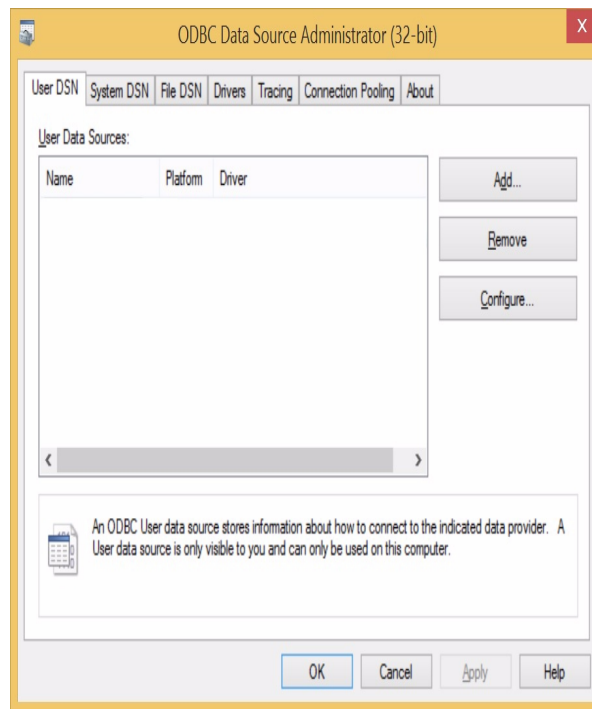


Figure 1: The ODBC Data Source Administrator dialog box

CONFIGURATION

Easysoft ODBC-QuickBooks Desktop Driver

2. Select the **User DSN** tab to set up a data source that only you can access.

– OR –

Select the **System DSN** tab to create a data source which is available to anyone who logs on to this Windows machine.

3. Click **Add...** to add a new data source.

The **Create New Data Source** dialog box displays a list of drivers:

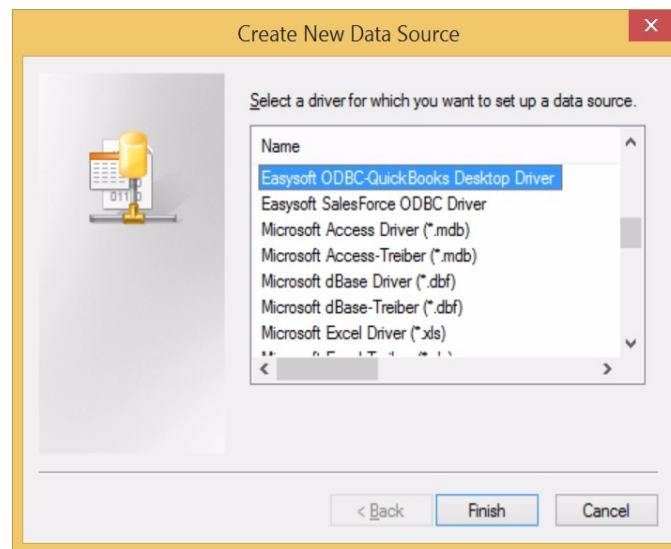


Figure 2: The Create New Data Source dialog box

4. Select **Easysoft ODBC-QuickBooks Desktop Driver** and click **Finish**.

The Easysoft ODBC-QuickBooks Desktop Driver DSN Setup dialog box is displayed:

The screenshot shows the 'Easysoft ODBC-QuickBooks Desktop Driver DSN Setup' dialog box. It features a title bar with a question mark icon and a close button. The main area contains the following fields and controls:

- DSN:** A text input field.
- Description:** A text input field.
- Company File:** A text input field with a 'Browse' button to its right.
- Connection Mode:** A dropdown menu currently set to 'Same as QuickBooks'.
- Application ID:** A text input field.
- Application Name:** A text input field.
- QB Edition:** A dropdown menu currently set to 'UK'.
- QB Reply Format:** A dropdown menu currently set to 'UTF-8'.
- Application is a Service:** An unchecked checkbox.
- Driver Logging:** An unchecked checkbox.
- Driver Tracing:** An unchecked checkbox.
- Log File:** A text input field.

At the bottom of the dialog, there are three buttons: 'Test', 'OK', and 'Cancel'.

Figure 3: The Easysoft ODBC-QuickBooks Desktop Driver DSN Setup dialog box

For details of the attributes that can be set on this dialog box, see **"Attribute Fields" on page 31**.

CONFIGURATION

Easysoft ODBC-QuickBooks Desktop Driver

64-bit Applications

QuickBooks Desktop is a 32-bit application, which can only be used with 32-bit libraries. The Easysoft ODBC-QuickBooks Desktop Driver is a library and is therefore 32-bit as well. The implications of this are:

You need to use the 32-bit version of Microsoft's ODBC Administrator, which you can access by typing the following command in the Windows Run Dialog box:

```
%windir%\syswow64\odbcad32.exe
```

If you want to use the Easysoft ODBC-QuickBooks Desktop Driver to connect a 64-bit application to QuickBooks, you also need to install the Easysoft ODBC-ODBC Bridge and enable the Application is a Service Easysoft ODBC-QuickBooks Desktop Driver attribute.

Attribute Fields

This section lists the attributes which can be set for the Easysoft ODBC-QuickBooks Desktop Driver in a table showing:

- The label of the attribute on the Windows dialog box
- The string to be used in a call to `SQLDriverConnect` or in a connect string for ADO type use.

Attributes which are text fields are displayed as *value*.

Attributes which are logical fields can contain either 0 (to set to off) or 1 (to set to on) and are displayed as "0 | 1".

If an attribute can contain one of several specific values then each possible entry is displayed and separated by a pipe symbol.

For example, in the statement:

```
DIALECT=1 | 2 | 3
```

the value entered may be "1", "2" or "3".

DSN

The name of the User or System data source to be created, as used by the application when calling the `SQLConnect` or `SQLDriverConnect` functions.

Interface	Value
DSN Dialog Box (Windows)	DSN
odbc.ini file (Unix)	[<i>value</i>]
Connect String	DSN= <i>value</i>

CONFIGURATION

Easysoft ODBC-QuickBooks Desktop Driver

DESCRIPTION

Descriptive text that may be retrieved by certain applications to describe the data source.

Interface	Value
DSN Dialog Box (Windows)	Description
Connect String	Not Used

COMPANY FILE

The full path to your QuickBooks file (.qbw). For example, C:\Users\Public\Documents\Intuit\QuickBooks\Sample Company Files\QuickBooks 2014\Sample_Pro_ServiceBased.qbw.

If you choose to specify a file, QuickBooks does not have to be running. (Although connecting to a named file will cause a QuickBooks instance to be launched in the background.)

By default, the Easysoft ODBC-QuickBooks Desktop Driver will open the company file that's currently open in QuickBooks, which means that you can switch between files without having to create separate data sources for each company file.

Interface	Value
DSN Dialog Box (Windows)	Company File
Connect String	COMPANYFILE= <i>value</i>

CONNECTION MODE

How to open a QuickBooks file.

EASYSOFT ODBC-QUICKBOOKS DESKTOP DRIVER

Easysoft ODBC-QuickBooks Desktop Driver

If you choose `Same as Quickbooks`, the Easysoft ODBC-QuickBooks Desktop Driver will use whatever mode is currently set on the company file.

If you choose `Multiuser`, the Easysoft ODBC-QuickBooks Desktop Driver will set the file to Multi-user mode, where multiple users can update the file simultaneously.

If you require exclusive write access to the file (for record deletes for example), select `Single User`.

Interface	Value
DSN Dialog Box (Windows)	Connection Mode
Connect String	MODE=0 1 2 0 is Single User 1 is Multi User 2 is Same as Quick-Books

CONFIGURATION

Easysoft ODBC-QuickBooks Desktop Driver

APPLICATION ID

The Application ID is a text value that identifies the Easysoft ODBC-QuickBooks Desktop Driver to QuickBooks. When you first connect, QuickBooks asks you to allow the driver to access your QuickBooks data. The Application ID (and Application Name) are then stored in QuickBooks. The Application ID is used internally in QuickBooks and is exposed in the QuickBooks log file qbsdklog.txt.

Interface	Value
DSN Dialog Box (Windows)	Application ID
Connect String	APPID= <i>value</i>

APPLICATION NAME

The Application Name is a descriptive text value that identifies the Easysoft ODBC-QuickBooks Desktop Driver to QuickBooks. After you allow the Easysoft ODBC-QuickBooks Desktop Driver to access your QuickBooks data, the Application Name is stored in QuickBooks under **Edit > Preferences > Integrated Applications > Company Preferences**.

Although you can use the same Application Name and Application ID across multiple Easysoft ODBC-QuickBooks Desktop Driver data sources, you may choose to use different values. For example, you might use one pair of Application IDs and Names to identify a connection from Excel, and another pair to identify a connection from Access.

Interface	Value
DSN Dialog Box (Windows)	Application ID
Connect String	APPNAME= <i>value</i>

QB EDITION

The QuickBooks editions supported by the Easysoft ODBC-QuickBooks Desktop Driver. Different editions of Quickbooks have different tables, and so you need to make sure that you choose the correct edition.

Interface	Value
DSN Dialog Box (Windows)	QB Edition
Connect String	EDITION = 0 1 2 0 is UK 1 is US 2 is Canada

CONFIGURATION

Easysoft ODBC-QuickBooks Desktop Driver

QB REPLY FORMAT

How non ASCII characters returned by the Easysoft ODBC-QuickBooks Desktop Driver are encoded.

If you set this to HTML, a non ASCII character is returned as an HTML entity. For example, a pound symbol (£) is returned as `£`.

If you set this to HTML (Modified), a non ASCII character is returned as an extended ASCII character. For example, a pound symbol (£) is returned as £.

Interface	Value
DSN Dialog Box (Windows)	QB Reply Format
Connect String	RESPONSE=0 1 2 0 is UTF-8 1 is HTML 2 is HTML Modified

APPLICATION IS A SERVICE

Enable this setting if the application you want to connect to QuickBooks is a Windows service. For example, the Oracle listener (DG4ODBC) or the Easysoft ODBC-ODBC Bridge server.

Interface	Value
DSN Dialog Box (Windows)	Application is a Service
Connect String	Service=Yes No

DRIVER LOGGING

If you experience a problem when using the Easysoft ODBC-QuickBooks Desktop Driver, Easysoft Technical Support may ask you to enable driver logging to help provide you with a solution.

Interface	Value
DSN Dialog Box (Windows)	Driver Logging
Connect String	Logging = Yes No

DRIVER TRACING

If you experience a problem when using the Easysoft ODBC-QuickBooks Desktop Driver, Easysoft Technical Support may ask you to enable driver tracing to help provide you with a solution.

Interface	Value
DSN Dialog Box (Windows)	Driver Tracing
Connect String	Tracing = Yes No

CONFIGURATION

Easysoft ODBC-QuickBooks Desktop Driver

LOG FILE

The file where debug and trace information from the Easysoft ODBC-QuickBooks Desktop Driver gets written. For example, C:\Windows\Temp\QB.log.

Interface	Value
DSN Dialog Box (Windows)	Log File
Connect String	LOGFILE = <i>value</i>

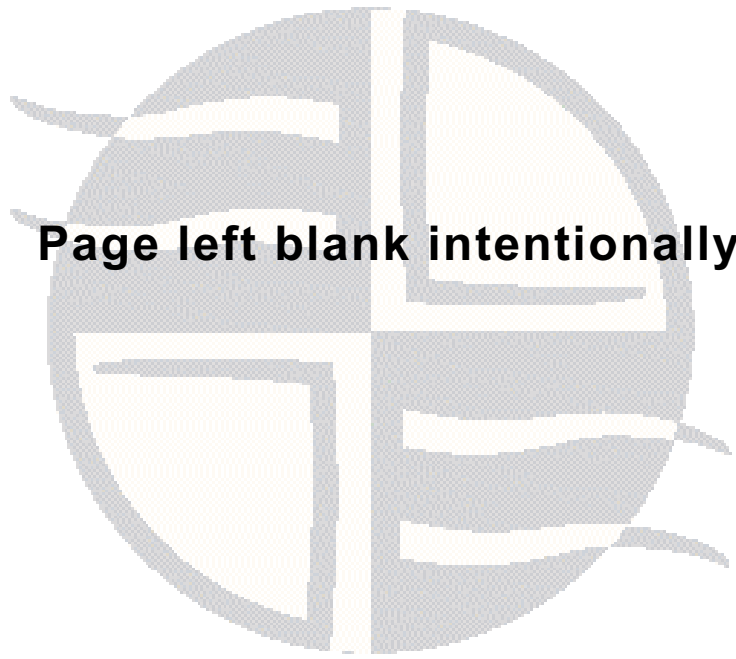
DSN-less Connections

In addition to using a data source, you can also connect to a database by using a DSN-less connection string of the form:

```
SQLDriverConnect (... "connection_string" ...)
```

An example *connection_string* is:

```
DRIVER={Easysoft ODBC-QuickBooks Desktop  
Driver};appid=QBFROMEXCELID;AppName=QBFROMEXCELID;Mode=2;
```



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APPENDIX A TECHNICAL REFERENCE

Technical Reference for the Easysoft ODBC-Quickbooks Desktop Driver

This section contains extra information relating to the deployment of the Easysoft ODBC-Quickbooks Desktop Driver.

Appendix Guide

- [ODBC Conformance](#)
- [Inserting and Updating QuickBooks Data](#)
- [Tracing](#)



TECHNICAL REFERENCE

Easysoft ODBC-Quickbooks Desktop Driver

ODBC Conformance

The Easysoft ODBC-Quickbooks Desktop Driver complies with the ODBC 3.51 specification.

The Easysoft ODBC-Quickbooks Desktop Driver is Level 2 compliant.

ODBC API SUPPORT

All ODBC 3.51 calls are supported.

Inserting and Updating QuickBooks Data

If the Easysoft ODBC-Quickbooks Desktop Driver implements a RQUseCachedID column for a table, a cache enabling requests to be batched together is available for that table.

The cache is committed or rolled back when an end transaction is sent. If your application allows you to turn autocommit off, you can execute several INSERTS or UPDATES in one batch. For example:

```
-- AUTOCOMMIT OFF
-- BEGIN TRANSACTION
INSERT INTO BillItemLine ("VendorRef_listID",
"RefNumber", "ItemGroupLine_ItemGroupRef_ListID" )
values ('8000007A-1356973501', 666, '80000089-
1349127814' )

INSERT INTO BillItemLine
("ItemGroupLine_ItemGroupRef_ListID",
"RQUseCachedID" ) values ('80000088-1349127627', 1
)

INSERT INTO BillItemLine
("ItemLine_ItemRef_ListID", "RQUseCachedID" )
values ('8000001A-1356973474', 1 )

-- END TRANSACTION
```

Each time a new record is inserted or a record is updated, the relevant ID (ListID or TxnID) is added to the cache along with the latest edit sequence.

When autocommit is on, RQUseCachedID or TxnID/ListID can be to insert or update records, however each insert or update is a separate transaction.

Tracing

The ODBC calls an application makes can be traced:

- Within the Driver Manager by an application.
- From within the Driver Manager.
- From within the Easysoft ODBC-Quickbooks Desktop Driver.

WITHIN THE DRIVER MANAGER BY AN APPLICATION

An application can turn tracing on in the Driver Manager by using the ODBC API `SQLSetConnectAttr (... ,SQL_ATTR_TRACE,...)`.

The trace file name may also be specified with the `SQLSetConnectAttr` attribute `SQL_ATTR_TRACEFILE`.

FROM WITHIN THE EASYSOFT ODBC-QUICKBOOKS DESKTOP DRIVER

Driver manager trace files show all the ODBC calls applications make, their arguments and return values. Easysoft ODBC-Quickbooks Desktop Driver driver tracing is specific to the Easysoft driver and is of most use when making a support call.

APPENDIX B GLOSSARY

Terms and definitions

Application Programmer Interface (API)

A published set of function calls and constants allowing different programmers to utilize a ready-written library of subroutines.

Authorization code

You must have an authorization code for the Easysoft product you wish to license in order to obtain a purchased license. When you purchase a product your authorization code is emailed to you. You do not need an authorization code to obtain a trial license.

Batch

A set of SQL statements submitted together and run as a group. A script is often a series of batches submitted one after the other.

Column

The vertical component of a database table. A column has a name and a particular data type (for example, character, decimal, or integer).

Commit

To end a unit of work by releasing locks so that the database changes made by that unit of work can be perceived by other processes. This operation makes the data changes permanent.

Cursor

An entity that maps over a result set and establishes a position on a single row within the result set. After the cursor is positioned on a row, operations can be performed on that row, or on a block of rows starting at that position. The most common operation is to fetch (retrieve) the current row or block of rows.

Data Definition Language

The subset of SQL statements that define all attributes and properties of a database and its objects. DDL statements typically start with CREATE, ALTER, or DROP.

Data Manipulation Language

The subset of SQL statements that is used to retrieve and manipulate data. DML statements typically start with SELECT, INSERT, UPDATE, or DELETE.

Data source

A database or other data repository coupled with an ODBC Driver, which has been given a Data Source Name (see ["DSN" on page 47](#)) to identify it to the ODBC Driver Manager.

Data type

An attribute that specifies what type of information can be stored in a column, parameter, or variable.

DBMS

Database Management System -- software that handles access to a database.

Distributed query

A single query that accesses data from multiple data sources.

Driver

See "[ODBC driver](#)" on page 49.

Driver Manager

Software whose main function is to load ODBC drivers. ODBC applications connect to the Driver Manager and request a data source name (DSN). The Driver Manager loads the driver specified in the DSN's configuration file. On Windows, the ODBC Data Source Administrator is used to set up the Driver Manager.

DSN

Data Source Name. A name associated with an ODBC data source. Driver Managers, such as unixODBC or the Microsoft Windows Driver Manager, use the Data Source Name to cross-reference configuration information and load the required driver.

DSN-less connection

A type of data connection that is created based on information in a data source name (DSN), but is stored as part of a project or application. DSN-less connections are especially useful for Web applications because they let you move the application from one server to another without re-creating the DSN on the new server.



GLOSSARY

Easysoft ODBC-QuickBooks Desktop Driver

Field

A placeholder for a single datum in a record, for example you can have a Surname field in a Contact Details record. Fields are sometimes referred to as cells.

Host

A computer visible on the network.

Index

In a relational database, a database object that provides fast access to data in the rows of a table, based on key values. Indexes can also enforce uniqueness on the rows in a table. The primary key of a table is automatically indexed. In full-text search, a full-text index stores information about significant words and their location within a given column.

Isolation level

An attribute that defines the degree to which an application process is isolated from other concurrently executing application processes. Isolation levels generally relate to the behavior of an application with respect to locks.

License key

A string that is provided by Easysoft for use in the licensing process.

NULL

An entry that has no explicitly assigned value. `NULL` is not equivalent to zero or blank. A value of `NULL` is not considered to be greater than, less than, or equivalent to any other value, including another value of `NULL`.

ODBC

Open Database Connectivity -- a programming interface that enables applications to access data in database management systems that use Structured Query Language (SQL) as a data access standard.

ODBC driver

Software that accesses a proprietary data source, providing a standardized view of the data to ODBC.

Record

A group of related fields (columns) of information treated as a unit. A record is more commonly called a row in a relational database.

Result set

A set of row values as returned by, for example, a cursor or procedure.

Row

The horizontal component of a table, consisting of a sequence of values, one for each column of the table.

Structured Query Language (SQL)

A standardised language for defining and manipulating data in a relational database.

SQL-92

The version of the SQL standard published in 1992. The international standard is ISO/IEC 9075:1992 Database Language SQL. The American National Standards Institute (ANSI) also published a corresponding standard (Data Language SQL X3.135-1192), so SQL-92 is sometimes referred to as ANSI SQL in the United States.

Stored procedure

An application program, possibly containing SQL statements, that is stored on the database server and can be invoked with the SQL CALL statement.

Table

A data set in a relational database, composed of rows and columns.

Transaction

An atomic series of SQL statements that make up a logical unit of work. All of the data modifications made during a transaction are either committed together as a unit or rolled back as a unit.



A

API conformance	42
Application ID attribute	34
Application is a Service attribute	36
Application Name attribute	35

C

client	
setup on Windows	27
Company File attribute	
overview	32
conformance levels	42
connection	
DSN-less	39
Connection Mode attribute	
overview	33
connection string	39
connection string attributes	
APPID	34
APPNAME	34
COMPANYFILE	32
Driver Logging	37
DSN	31
EDITION	35
LIMITLONG	41
MODE	32
RESPONSE	36
Service	36
TRACING	37
create data source	
for client on Windows	27



D

data source attributes	
Application ID	34
Application Name	35
Company File	32
Connection Mode	33
Description	32
DSN	31
IPv6	36
Log File	38
Logging	37
QB Edition	35
QB Reply Format	36
Tracing	37
data sources	27-38
adding	27
definitions	45
Description attribute	32
driver manager	
logging	44
DSN configuration dialog box	29
DSN-less connections	39
DSNs	27-38
adding	27

E

Easysoft ODBC-QuickBooks Desktop Driver	
downloading	16
logging	44

I

Installing on Windows	18
-----------------------------	----



L

license	
authorization code	19
Log File attribute	38
Logging attribute	37
logging ODBC API calls	44

O

ODBC	
conformance levels	42
tracing API calls	44
ODBC Data Source Administrator	27

Q

QB Edition attribute	
overview	35
QB Reply Format attribute	36

S

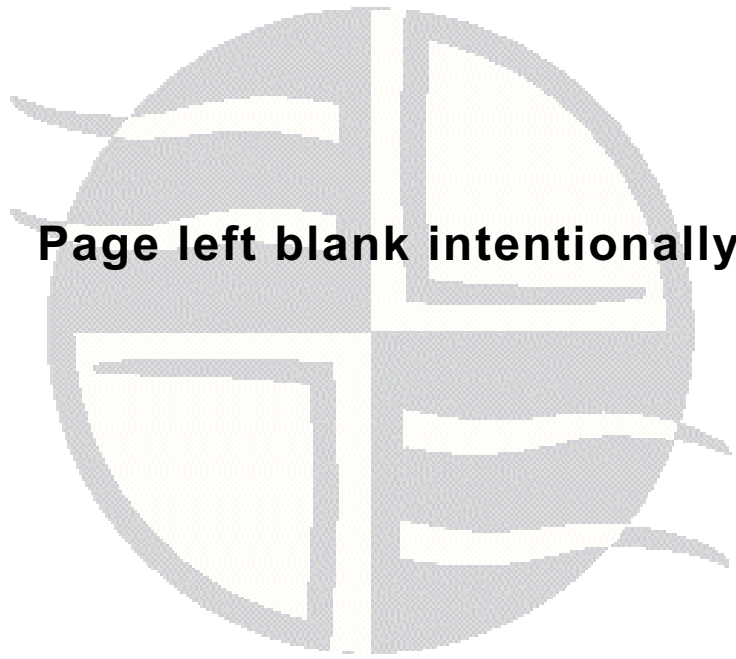
SQLDriverConnect function	39
SQLSetConnectAttr function	44
System DSN tab	28

T

Tracing attribute	37
tracing ODBC API calls	44

U

User DSN tab	28
--------------------	----



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