

Easysoft Data Access

Easysoft ODBC-QOnline Driver



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

Publisher: Easysoft Limited

Thorp Arch Grange

Thorp Arch

Wetherby

LS23 7BA

United Kingdom

Copyright © 1993-2024 by Easysoft Limited.

All rights reserved.

You may not reverse engineer, decompile or disassemble this manual. Information in this document is subject to change without notice. Companies, names, and data used in examples are fictitious unless otherwise noted.

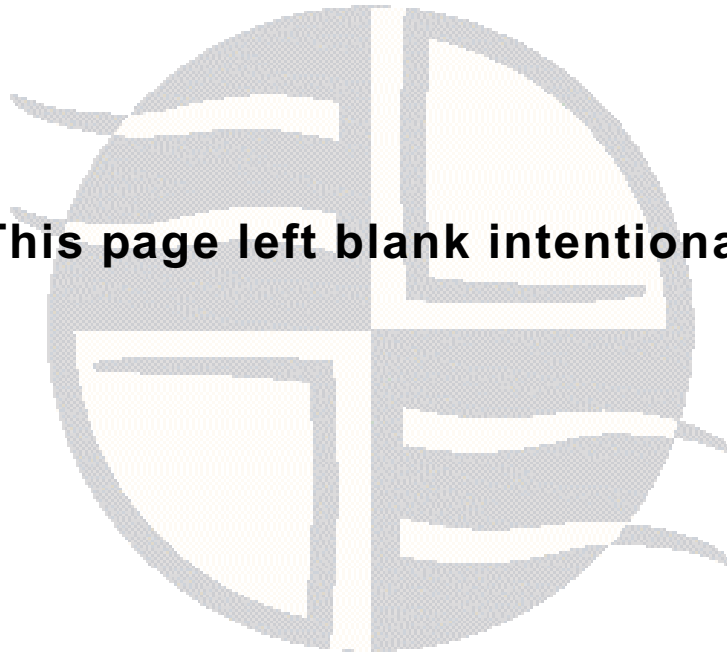
The names of companies referred to herein, their corporate logos, the names of their hardware and software may be trade names, trademarks or registered trademarks of their respective owners.

Easysoft and the Easysoft logo are registered trademarks of Easysoft Limited.

The software described in this document is provided under a licence agreement and may be used only in accordance with the terms of that agreement (see the [Easysoft License Agreement](#)).

Chapter 1	Preface	5
	Displaying the Manual	6
	Notational Conventions	6
	Typographical Conventions	7
	Contents	7
	Trademarks	8
Chapter 2	Introduction	9
	Overview	10
	Product Status	10
Chapter 3	Installation	11
	Obtaining the Easysoft ODBC-QOnline Driver	12
	What to Install	13
	Installing the Easysoft ODBC-QOnline Driver on Windows	14
	Uninstalling the Easysoft ODBC-QOnline Driver on Windows	19
Chapter 4	Configuration	21
	Configuring the Easysoft ODBC-QOnline Driver	22
	Setting Up Data Sources on Windows	23
	Attribute Fields	26
Chapter 5	Technical Reference	31
	ODBC Conformance	32
	Tracing	33
Chapter 6	Glossary	35

This page left blank intentionally



PREFACE

About this manual

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

Chapter Guide

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

PREFACE

Easysoft ODBC-QOnline 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 monotype 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 monotype font.

Contents

- **Introduction**
Introduces the Easysoft ODBC-QOnline Driver.
- **Installation**
Explains how to install the Easysoft ODBC-QOnline Driver.
- **Configuration**
Explains how to configure the Easysoft ODBC-QOnline Driver.
- Appendices
Technical Reference and **Glossary**.



PREFACE

Easysoft ODBC-QOnline 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-QOnline Driver

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

Chapter Guide

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



INTRODUCTION

Easysoft ODBC-QOnline Driver

Overview

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

Product Status

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

http://www.easysoft.com/products/data_access/odbc-qonline-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-QOnline Driver

This chapter explains how to install, license and remove the Easysoft ODBC-QOnline 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-QOnline Driver**
- **What to Install**
- **Installing the Easysoft ODBC-QOnline Driver on Windows**
- **Uninstalling the Easysoft ODBC-QOnline Driver on Windows**



INSTALLATION

Easysoft ODBC-QuickBooks Online Driver

Obtaining the Easysoft ODBC-QOnline Driver

There are three ways to obtain the Easysoft ODBC-QOnline 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-QOnline 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/qonline` subdirectory and then choose the platform release that you require.

What to Install

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

- `odbc-quickbooksol-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 Online Driver

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

- **"Installing the Easysoft ODBC-QOnline Driver on Windows" on page 14**

Installing the Easysoft ODBC-QOnline Driver on Windows

INSTALLING THE EASYSOFT ODBC-QONLINE DRIVER

- Execute the file distribution that you downloaded in **"Obtaining the Easysoft ODBC-QOnline Driver" on page 12**

Follow the on screen instructions.

UPDATING FILES THAT ARE IN USE

To avoid rebooting your computer, the Easysoft ODBC-QOnline 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-QOnline 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-QOnline 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-QOnline 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 Online 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 the Easysoft ODBC-QOnline Driver 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 18**.

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 Online 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-QONLINE DRIVER INSTALLATION

The installer can repair a broken Easysoft ODBC-QOnline Driver installation. For example, you can use the installer to restore missing Easysoft ODBC-QOnline 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-QOnline Driver**, and then click **Repair**.

In earlier versions of Windows:

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

Uninstalling the Easysoft ODBC-QOnline Driver on Windows

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

REMOVING EASYSOFT ODBC-QONLINE DRIVER DATA SOURCES

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

1. In **Control Panel**, double-click **Administrative Tools** and then **Data Sources (ODBC)**.
2. Select the data source in the **ODBC Administrator** and click the **Remove** button.

64-bit Windows

There is both a 32-bit and a 64-bit version of ODBC Administrator. The 64-bit ODBC Administrator is located in Control Panel under Administrative tools. To access the 32-bit ODBC Administrator, in the Windows Run dialog box, type:

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

If you do not see the data source in the 64-bit ODBC Administrator, look for it in the 32-bit ODBC Administrator.



INSTALLATION

Easysoft ODBC-QuickBooks Online Driver

REMOVING THE EASYSOFT ODBC-QONLINE DRIVER

In Windows Vista and later versions of Windows:

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

In earlier versions of Windows:

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

The uninstall process is complete.

Any licenses you obtained for the Easysoft ODBC-QOnline 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-QOnline Driver

The Easysoft ODBC-QOnline 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-QOnline Driver.

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

For Easysoft ODBC-QOnline Driver installation instructions, see ["Installation" on page 11](#).

Chapter Guide

- [Configuring the Easysoft ODBC-QOnline Driver](#)
- [Setting Up Data Sources on Windows](#)
- [Attribute Fields](#)
- [DSN-less Connections](#)



CONFIGURATION

Easysoft ODBC-QOnline Driver

Configuring the Easysoft ODBC-QOnline Driver

This section describes how to configure the Easysoft ODBC-QOnline Driver to connect to QuickBooks Online 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 23**

Setting Up Data Sources on Windows

1. Open ODBC Data Source Administrator:
 - For Microsoft Windows 10 and later, use the Windows search facility to look for "ODBC".
 - For Microsoft Windows 8, in the Windows desktop, point to the upper-right corner of the screen, move the mouse pointer down, and then choose **Settings > Control Panel > Administrative Tools > ODBC Data Sources (64-bit)**.
 - For Microsoft Windows Vista and Windows 7, choose **Start > Control Panel > Administrative Tools > Data Sources (ODBC)**.
 - For Microsoft Windows Server 2008 and Windows Server 2008 R2, choose **Start > Administrative Tools > Data Sources (ODBC)**.
 - For Microsoft Windows 2000, Windows XP and Windows Server 2003, choose **Start > Settings > Control Panel > Administrative Tools > Data Sources**.

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

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:

4. Select Easysoft ODBC-QOnline Driver and click Finish.

CONFIGURATION

Easysoft ODBC-QOnline Driver

The DSN Setup dialog box is displayed:

For details of the attributes that can be set on this dialog box, see **"Attribute Fields" on page 26.**

64-bit Windows

The Easysoft installer program installs both a 32-bit and a 64-bit version of the Easysoft ODBC-QOnline Driver. If you want to use a 64-bit ODBC application, you need to use the 64-bit Easysoft ODBC-QOnline Driver. If you want to use a 32-bit ODBC application, you need to use the 32-bit Easysoft ODBC-QOnline Driver.

There is both a 32-bit and a 64-bit version of ODBC Administrator. The 64-bit ODBC Administrator is located in Control Panel under Administrative tools. To access the 32-bit ODBC Administrator in Windows 7 and earlier, in the Windows Run dialog box, type:

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

On Windows 8 and later, both the 32-bit and 64-bit ODBC Administrator are located in Control Panel under Administrative tools: ODBC Data Sources (32-bit) and ODBC Data Sources (64-bit).

Easysoft ODBC-QOnline Driver data sources created in the 64-bit ODBC Administrator will specify the 64-bit version of the Easysoft ODBC-QOnline Driver. Easysoft ODBC-QOnline Driver data sources created in the 32-bit ODBC Administrator will specify the 32-bit version of the Easysoft ODBC-QOnline Driver.

If you want to create an Easysoft ODBC-QOnline Driver System data source for use with a 64-bit application, use the 64-bit ODBC Administrator. If you want to create an Easysoft ODBC-QOnline Driver System data source for use with a 32-bit application, use the 32-bit ODBC Administrator.

For Easysoft ODBC-QOnline Driver User data sources, it does not matter which version of the ODBC Administrator that you use.

5. Click the Connect to QuickBooks Online button.

The Intuit login page is displayed in your default browser.

6. Log into QuickBooks Online, and then close the browser when prompted.

You are returned to the Easysoft ODBC-QOnline Driver DSN Setup dialog box. Data source set up is complete.

CONFIGURATION

Easysoft ODBC-QOnline Driver

Attribute Fields

This section lists the attributes which can be set for the Easysoft ODBC-QOnline 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
Connect String	DSN= <i>value</i>

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

SANDBOX COMPANY

If your QuickBooks Online company is a private sandbox one, enable this attribute.

Interface	Value
DSN Dialog Box (Windows)	Sandbox Company
Connect String	SANDBOX= Yes No

CONFIGURATION

Easysoft ODBC-QOnline Driver

DRIVER LOGGING

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

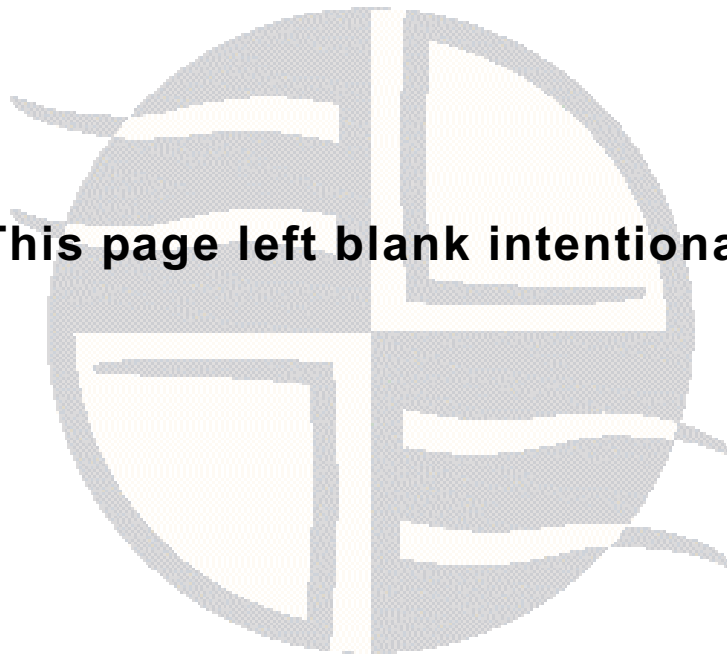
Interface	Value
DSN Dialog Box (Windows)	Driver Tracing
Connect String	Tracing = Yes No

LOG FILE

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

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

This page left blank intentionally



APPENDIX A TECHNICAL REFERENCE

Technical Reference for the Easysoft ODBC-QOnline Driver

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

Appendix Guide

- [ODBC Conformance](#)
- [Tracing](#)



TECHNICAL REFERENCE

Easysoft ODBC-QOnline Driver

ODBC Conformance

The Easysoft ODBC-QOnline Driver complies with the ODBC 3.51 specification.

The Easysoft ODBC-QOnline Driver is Level 2 compliant.

ODBC API SUPPORT

All ODBC 3.51 calls are supported.

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-QOnline Driver.

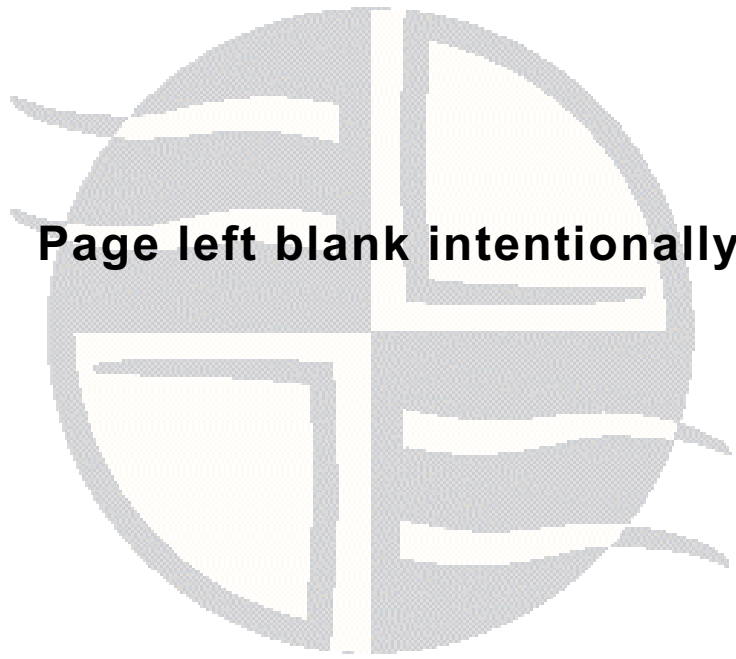
WITHIN THE DRIVER MANAGER BY AN APPLICATION

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-QONLINE DRIVER

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



Page left blank intentionally

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 37](#)) 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 39.

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-QOnline 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	32
-----------------------	----

C


conformance levels	32
connection string attributes	
Driver Logging	28
DSN	26
LIMITLONG	31
TRACING	28

D

data source attributes	
Description	27
DSN	26
Log File	29
Logging	28
Sandbox Company	27
Tracing	28
data sources	
adding	23
definitions	35
Description attribute	27
driver manager	
logging	33
DSN configuration dialog box	24
DSNs	
adding	23

E

Easysoft ODBC-QuickBooks Online Driver	
downloading	12
logging	33



I

Installing on Windows 14

L

license
 authorization code 15
Log File attribute 29
Logging attribute 28
logging ODBC API calls 33

O

ODBC
 conformance levels 32
 tracing API calls 33
ODBC Data Source Administrator 23

S

Sandbox Company attribute
 overview 27
SQLSetConnectAttr function 33
System DSN tab 23

T

Tracing attribute 28
tracing ODBC API calls 33

U

User DSN tab 23