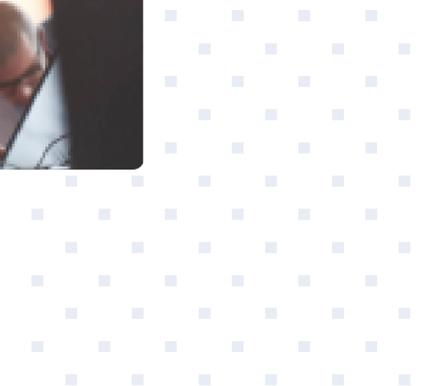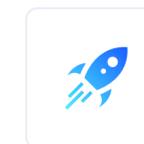devart

ODBC Driver for ASE

Reliable and simple to use data connector for SAP ASE

Support for standard ODBC API functions | Easy access to live data from anywhere | Direct Connection without DB Client Libraries

About Us

Devart is a software development company that specializes in creating database management and data connectivity tools for developers. We offer a wide range of products for Windows, macOS, and Linux, and for various databases, such as MySQL, Oracle, SQL Server, and more.

Some of our popular data connectivty products include ODBC Drivers, Delphi Data Access Components, ADO.NET providers for various databases and clouds, SQL Server Integration Services and Excel Add-ins. The company was founded in 1997 and is based in Prague, Czech Republic.

devart

About ODBC Driver for ASE

Devart's ODBC driver offers a seamless connection between various database management systems and applications, facilitating smooth data access and manipulation. Its appeal lies in its versatility, as it allows users to work with different databases using a unified interface, enhancing productivity and reducing compatibility issues.

ODBC Driver for ASE offer advanced features:

Direct connection to data source without client software

Verified compatibility with multiple BI and ETL tools

Auto-install in a few clicks

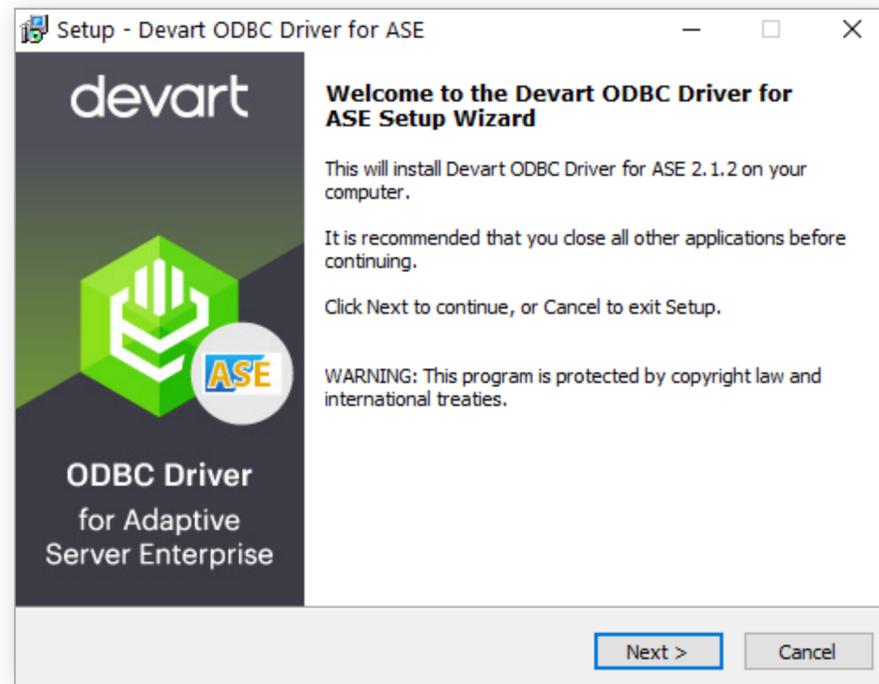Advanced support for stored procedures

HTTPS Proxy communication

Full compliance with ODBC API and data types
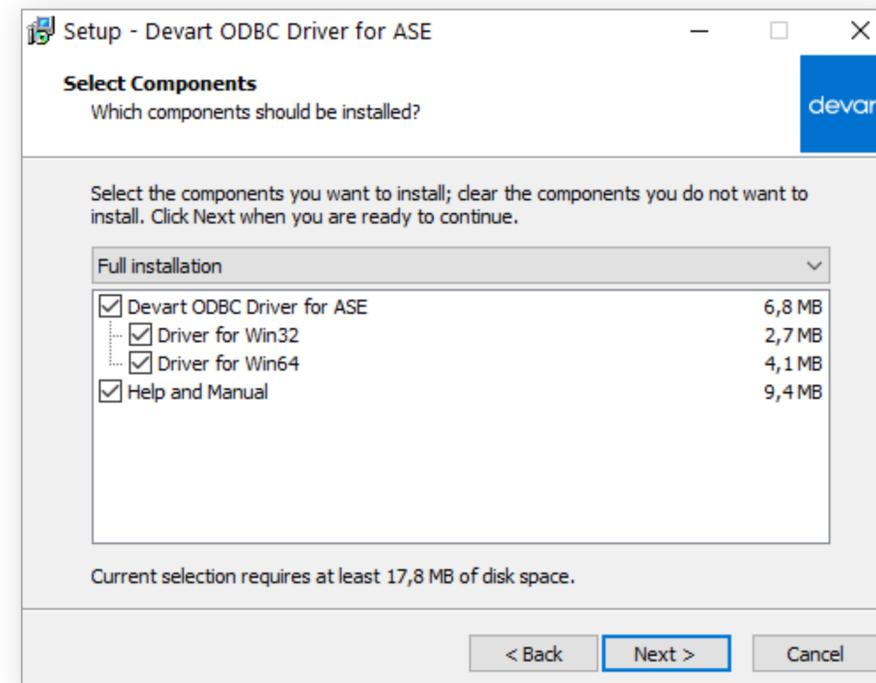
Getting Started: Installation

Install the connector on Windows

1. Download and run the installer.

2. Follow the instructions in the wizard.

3. In case if you already have the specified installation folder on the PC or another Driver version is installed, you will get a warning. Click **Yes** to overwrite the old files with the current installation, but it is recommended to completely uninstall the previous driver version first, and then install the new one.
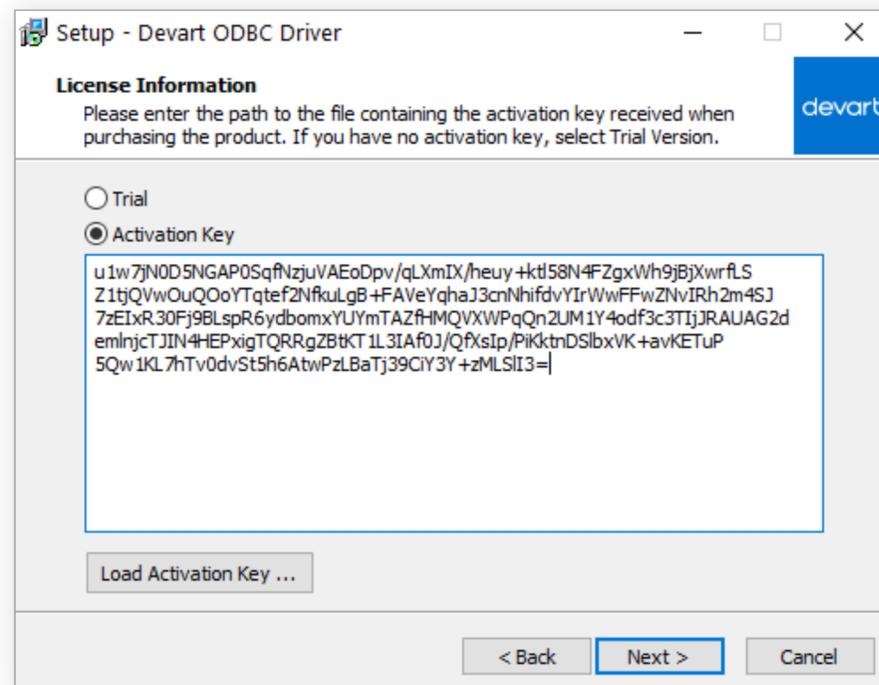
4. On the Select Components page you can select whether to install the **64-bit** version of the driver or not. Clear the check box if you need no 64-bit installation. There is also a check box on this page, that allows you to select whether to install Help and Manual.
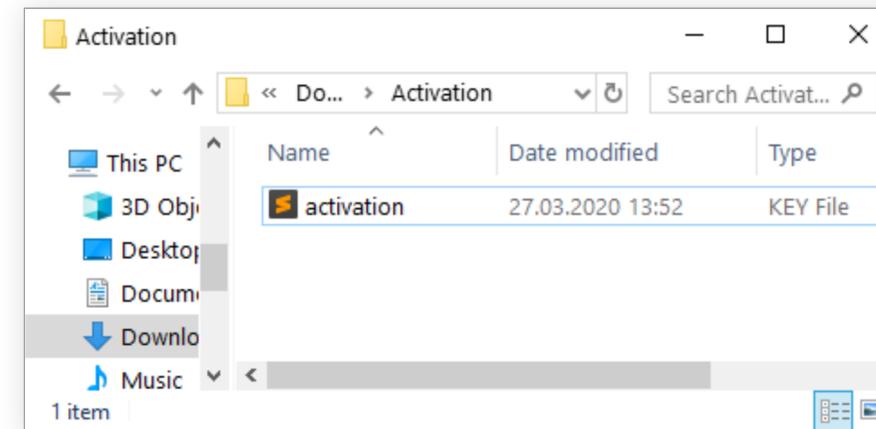

You can view the documentation for each separate connector by following this link

Getting Started: Installation

Install the connector on Windows

5. In the License Information dialog box, you should select the license type and activate the product. If you have no activation key, you can select Trial and use the driver for evaluation purposes.

6. If you have an activation key, select the Activation Key option. Copy the activation key from the registration email or your Customer Portal account and paste it into the Activation Key edit box.

7. If you have the activation key file, click the Load Activation Key button and browse to it.

8. Click Next.

9. Click Install, then Finish.

10. After the installation is completed, you need to configure the driver

Getting Started: Installation

Install the connector on Linux DEB

PREREQUISITES

ODBC Driver for SAP Sybase Adaptive Server Enterprise works under control of an ODBC driver manager. ODBC driver manager is not distributed along with our driver and must be installed separately.

ODBC Driver for SAP Sybase Adaptive Server Enterprise is compatible with UnixODBC driver manager. You can install the unixODBC driver manager using the command below:

```
sudo apt-get install odbcinst1debian2 libodbc1 odbcinst unixodbc
```
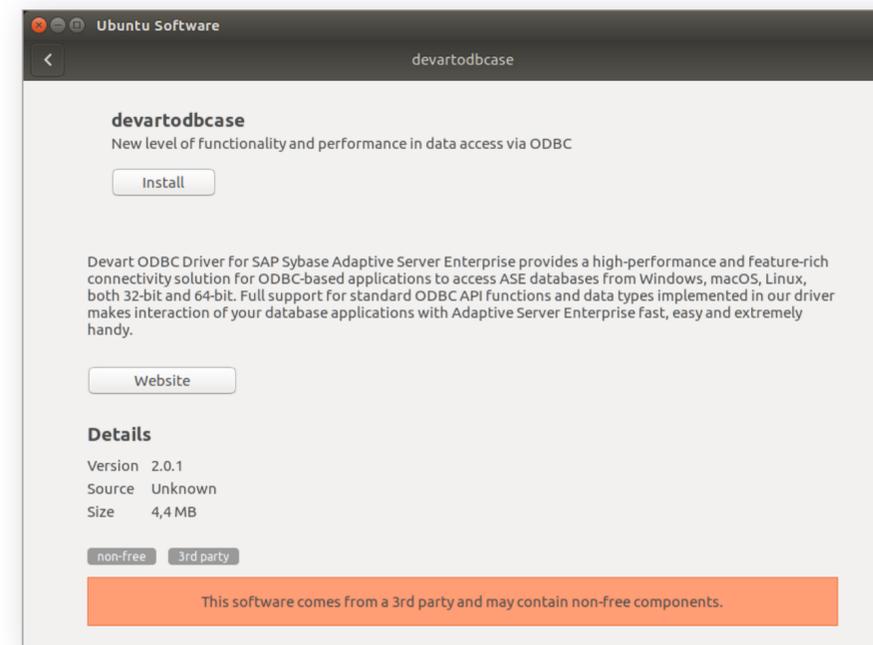
In case when using other ODBC driver managers, ODBC Driver for SAP Sybase Adaptive Server Enterprise will be installed, but it will require manual modification of configuration files of these managers.

INSTALLATION

Let's consider how to install the Devart ODBC driver on Linux from a DEB package, for example, on Ubuntu. There are two ways to install the driver either manually or via the command line.

GUI installation

1. Download the DEB package of the required bitness from the Devart website.

2. Navigate to the folder with the downloaded package ("Downloads" by default) and double-click it.

3. In the opened dialog, click the **Install** button.

4. If the installation is successfully completed, the Install button changes into the Remove one.

You can view the documentation for each separate connector by following this link

Getting Started: Installation

Install the connector on Linux DEB

Command-line installation

1. Download the DEB package from the Devart website. By default the required package will be downloaded into the ~/Downloads folder (or the selected one);

2. Run the 'Terminal' program;

3. Navigate to the folder with the downloaded package cd ~/Downloads (if you downloaded the package into another folder, you need to specify the path to this folder as the cd command parameter):

```
cd ~/Downloads/
```

```
test@ubuntu:~$ cd ~/Downloads/
test@ubuntu:~/Downloads$
```

4. To install the devartodbcase_i386.deb on a 32-bit system, use the following command:

```
sudo dpkg -i devartodbcase_i386.deb
```

```
test@ubuntu:~$ cd ~/Downloads/
test@ubuntu:~/Downloads$ sudo dpkg -i devartodbcase_i386.deb
```

5. To install the devartodbcase_amd64.deb on a 64-bit system, use the following command:

```
sudo dpkg -i devartodbcase_amd64.deb
```

6. Driver is installed successfully.

```
test@ubuntu:~$ cd ~/Downloads/
test@ubuntu:~/Downloads$ sudo dpkg -i devartodbcase_i386.deb
[sudo] password for test:
Selecting previously unselected package devartodbcase.
(Reading database ... 238032 files and directories currently installed.)
Preparing to unpack devartodbcase_i386.deb ...
Unpacking devartodbcase (2.0.1) ...
Setting up devartodbcase (2.0.1) ...
test@ubuntu:~/Downloads$
```

To activate the driver, perform the steps described in the Product Activation article.

You can view the documentation for each separate connector by following this link

Getting Started: Installation

Install the connector on Linux RPM

PREREQUISITES

ODBC Driver for SAP Sybase Adaptive Server Enterprise works under control of an ODBC driver manager. ODBC driver manager is not distributed along with our driver and must be installed separately.

ODBC Driver for SAP Sybase Adaptive Server Enterprise is compatible with UnixODBC driver manager.

In case when using other ODBC driver managers, ODBC Driver for SAP Sybase Adaptive Server Enterprise will be installed, but it will require manual modification of configuration files of these managers.

INSTALLATION

Let's consider how to install the Devart ODBC driver on Linux from an RPM package, for example, on CentOS. To install the driver, you should download the .rpm package and install it via the command line. See the detailed description of these steps below:

1. Download the RPM package from the Devart website.
   By default the required package will be downloaded into the ~/Downloads folder (or the selected one);

2. Run the 'Konsole' program;

3. Navigate to the folder with the downloaded package cd ~/Downloads (if you downloaded the package into another folder, you need to specify the path to this folder as the cd command parameter):

   ```
   cd ~/Downloads/
   ```

   ```
   [test@centos7x64 ~]$ cd ~/Downloads/
   [test@centos7x64 Downloads]$ 
   ```

4. To install the devart-odbc-ase.i386.rpm on a 32-bit system, use the following command:

   ```
   sudo rpm -ivh devart-odbc-ase.i386.rpm
   ```

   ```
   [test@localhost ~]$ sudo rpm -ivh devart-odbc-ase.i386.rpm
   ```

   To install the devart-odbc-ase.x86_64.rpm on a 64-bit system, use the following command:

   ```
   sudo rpm -ivh devart-odbc-ase.x86_64.rpm
   ```

   ```
   [test@centos7x64 ~]$ cd ~/Downloads/
   [test@centos7x64 Downloads]$ sudo rpm -ivh devart-odbc-ase.x86_64.rpm 
   ```

5. Driver is installed successfully.

   ```
   [test@centos7x64 ~]$ cd ~/Downloads/
   [test@centos7x64 Downloads]$ sudo rpm -ivh devart-odbc-ase.x86_64.rpm
   [sudo] password for test:
   Preparing...                          ############################### [100%]
   Updating / installing...
      1:devart-odbc-ase-2.0.1-1          ############################### [100%]
   [test@centos7x64 Downloads]$ 
   ```

   To activate the driver, perform the steps described in the Product Activation article.

   You can view the documentation for each separate connector by following this link

![devart](devart logo)

Getting Started: Installation

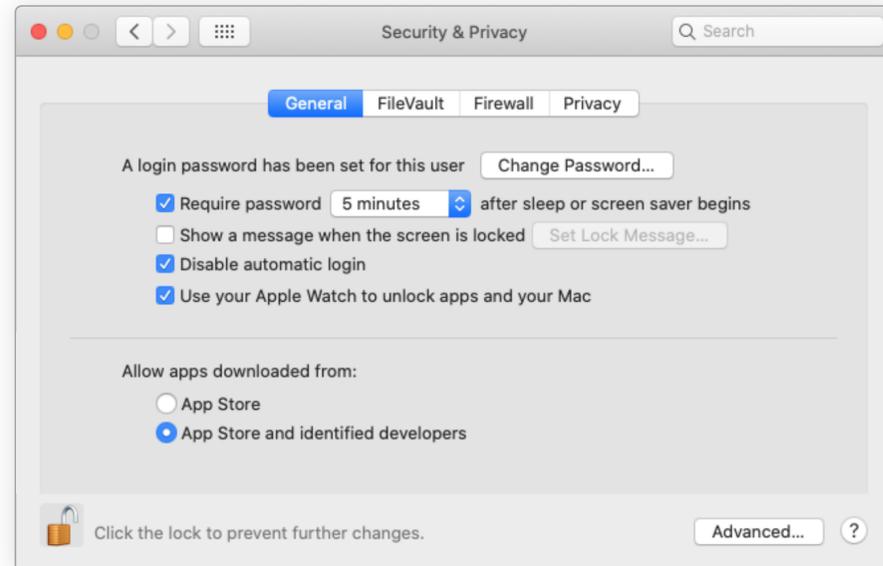## Install the connector on macOS

PREREQUISITES

ODBC Driver for SAP Sybase Adaptive Server Enterprise works under control of an ODBC driver manager. ODBC driver manager is not distributed along with our driver and must be installed separately.

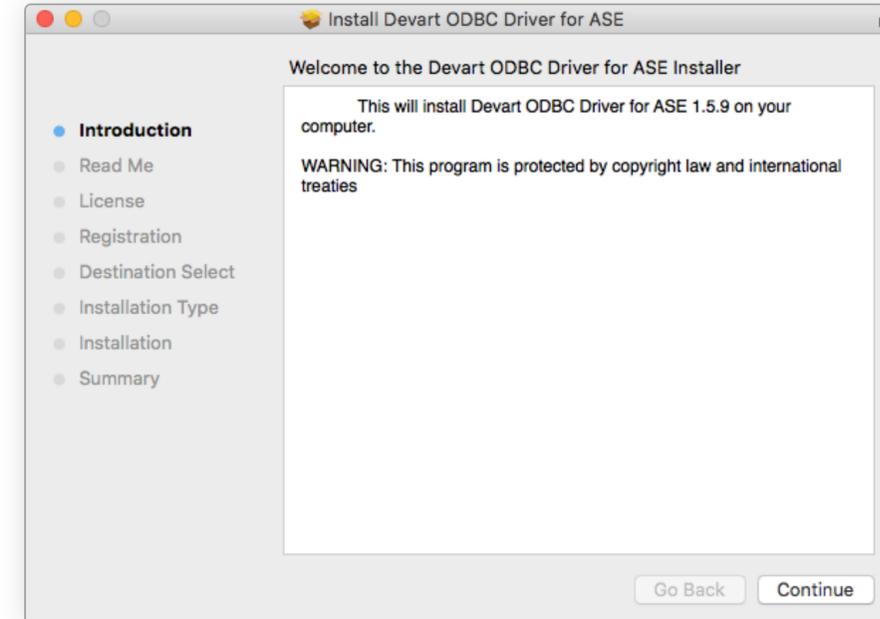ODBC Driver for SAP Sybase Adaptive Server Enterprise is compatible with iODBC driver manager.

In case when using other ODBC driver managers, ODBC Driver for SAP Sybase Adaptive Server Enterprise will be installed, but it will require manual modification of configuration files of these managers.

INSTALLATION

1. Go to Security & Privacy settings in the System Preferences.
2. Enable the *App Store and identified developers* option in the *Allows apps downloaded from* section.

Note: If the options in *Allow apps downloaded from* section are grayed out, click on the lock icon and enter your administrator password to proceed with the installation.
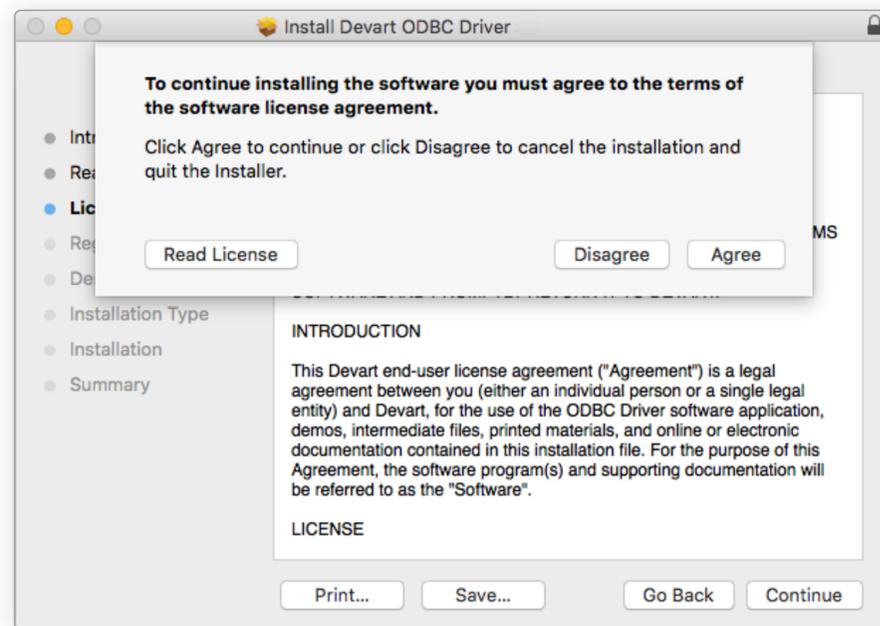
3. Download the PKG file from the Devart website
4. Run the downloaded file, press the Allow button to proceed with the installation.

You can view the documentation for each separate connector by following this link
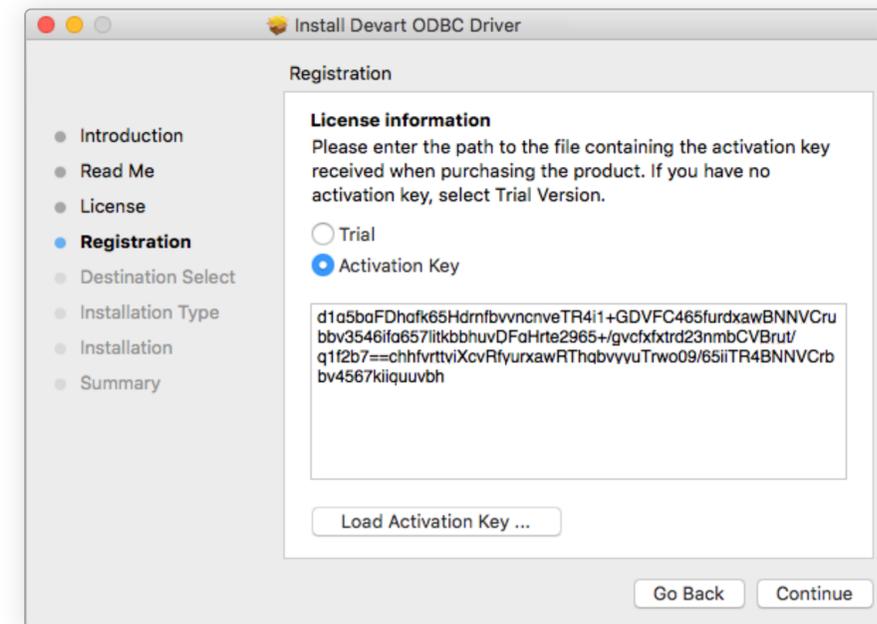
Getting Started: Installation

Install the connector on macOS

5. After reading the license agreement, click Agree.

6. In the License Information dialog box, you should select the license type and activate the product. If you have no activation key, you can select Trial and use the driver for evaluation purposes.
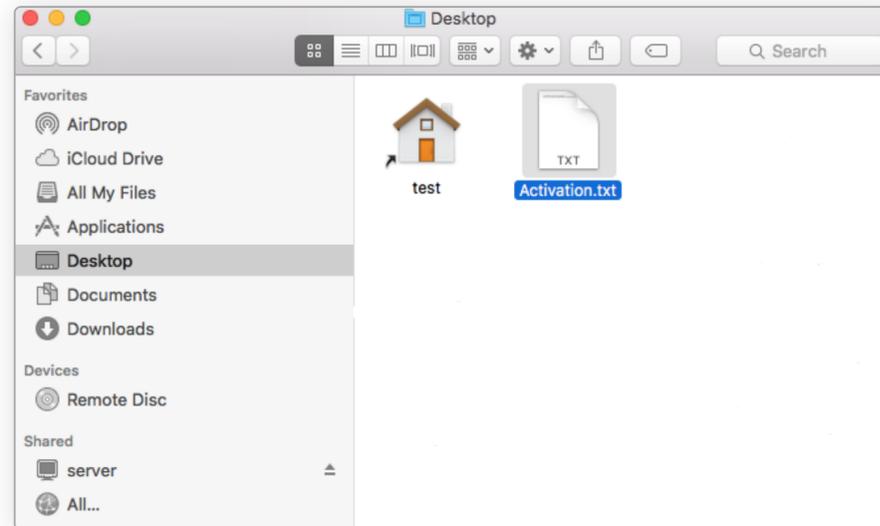
7. If you have an activation key, select the Activation Key option. Copy the activation key from the registration email or your Customer Portal account and paste it into the Activation Key edit box.
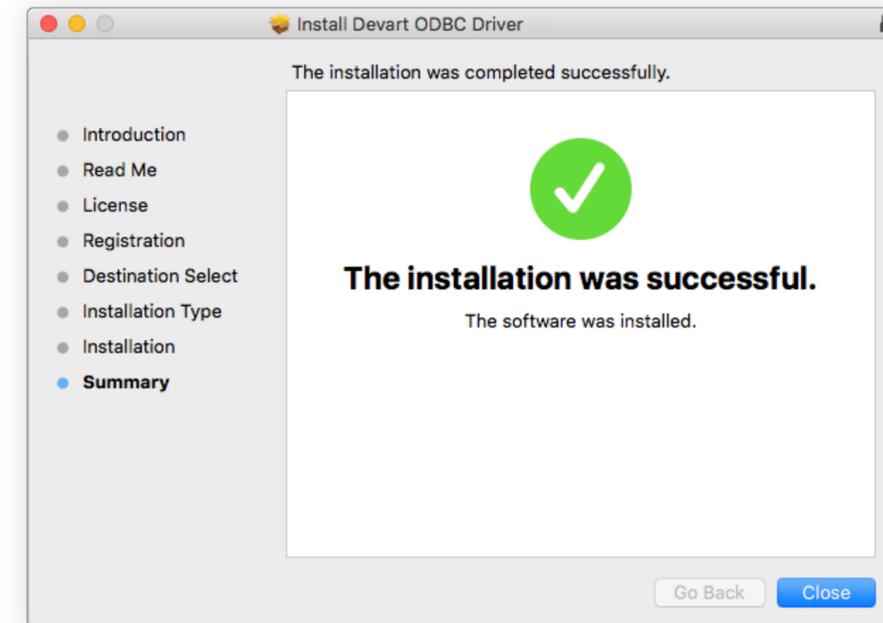

You can view the documentation for each separate connector by following this link

![devart]

Getting Started: Installation

Install the connector on macOS

8. If you have the activation key file, click the Load Activation Key button and browse to it.

9. To complete the installation click Continue, then Install buttons.

To activate the driver, perform the steps described in the Product Activation article.

You can view the documentation for each separate connector by following this link

Enabling ODBC Tracing

Creating an ODBC Trace Log on Windows

When you start or stop tracing in the 64-bit ODBC Administrator, the tracing is also enabled or disabled in the 32-bit ODBC Administrator, and vice versa.

If the ODBC client application you need to trace runs under Local System account or any other user login than your own, select `Machine-Wide tracing for all user identities` For example, this option may be necessary for SSMS.

To generate a trace file using ODBC Source Administrator on Windows, follow the steps below.

1. Type `ODBC Data Sources` in the Windows 10 search box (in earlier versions of Windows, open `Control Panel` > `Administrative Tools`) and choose the application of the needed bitness.
2. Select the `Tracing` tab.
3. If necessary, change the default `Log File Path` . Make sure that the path is writable by the application, then click `Apply` .
4. Click `Start Tracing Now` .
5. Restart all application processes.
6. Click `Test Connection` in the DSN settings to make sure the driver is able to connect.
7. Reproduce the issue.
8. Click `Stop Tracing Now` on the `Tracing` tab.
9. Send us the obtained log file (for example, devart.log).

Creating an ODBC Trace Log on macOS

To enable the trace option on macOS, use the Tracing tab within ODBC Administrator.

1. Open the ODBC Administrator.
2. Select the `Tracing` tab.
3. If necessary, change the default `Log file path` .
4. Select `All the time` in the `When to trace` option.

Creating an ODBC Trace Log on Linux

To trace the ODBC calls on Linux, set the `Trace` and `TraceFile` keyword/value pairs in the `[ODBC]` section of the `/etc/odbcinst.ini` file, for example:

```
[ODBC]
Trace=Yes
TraceFile=/home/test/devart.log
```

Make sure to disable logging after obtaining a log file since it affects the read/write speed.

Supported Data Types

The Devart ODBC Driver for ASE supports all ASE data types.
The following table describes how the ASE data types are mapped to the ODBC data types.

ASE Data Types	ODBC Data Types	ASE Data Types	ODBC Data Types
tinyint tinyint identity	SQL_TINYINT	decimal money smallmoney decimal() identity	SQL_DECIMAL
smallint smallint identity usmallint	SQL_SMALLINT	smallint smallint identity usmallint	SQL_SMALLINT
int int identity uint	SQL_INTEGER	numeric numeric() identity	SQL_NUMERIC
bigint bigint identity ubigint	SQL_BIGINT	char nchar	SQL_CHAR

Supported Data Types

ASE Data Types	ODBC Data Types
varchar nvarchar	SQL_VARCHAR
sysname univarchar	SQL_WVARCHAR
text ntext	SQL_LONGVARCHAR
binary timestamp	SQL_BINARY
datetimeoffset datetime2 datetime smalldatetime	SQL_TYPE_TIMESTAMP
unichar	SQL_WCHAR
unitext	SQL_WLONGVARCHAR

ASE Data Types	ODBC Data Types
varbinary	SQL_VARBINARY
time	SQL_TYPE_TIME
xml	SQL_XML
sql_variant	SQL_VARIANT
uniqueidentifier	SQL_GUID
bit	SQL_BIT
float	SQL_DOUBLE
image	SQL_LONGVARBINARY
real	SQL_REAL
date	SQL_TYPE_DATE

Using in Third-party Tools

DATABASES

ASE	Clipper	dBase	Firebird	FoxPro	Google BigQuery	InterBase	MariaDB
MySQL	Oracle	PostgreSQL	SQLite	SQL Server	Visual FoxPro	xBase	

CLOUDS

BigCommerce	Dynamics 365	Dynamics CRM	NetSuite	HubSpot	QuickBooks	Salesforce	Zoho CRM

Devart Python Connector for ASE

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