

# TRAVELPORT GLOBALWARE & 3<sup>RD</sup> PARTY OPEN DATABASE CONNECTIVITY (ODBC)

April 2022



## **Overview**

Open Database Connectivity (ODBC) is an open standard application programming interface for accessing a database. By using ODBC statements in a program, you can access files contained in a database and use the information in different programs such as Access and Excel.

This configuration is used when a connection from 3<sup>rd</sup> party software is required to access the GlobalWare database. A Sybase SQL driver, available as a free download online, is required for the connection.

Note: A GlobalWare login, with Edit User View, and password are required to connect to the database.

## **Download Driver**

Where to get the driver:

https://wiki.scn.sap.com/wiki/display/SQLANY/SAP+SQL+Anywhere+Database+Client+Download

Dashboard / SAP SQL Anywhere / SQL Anywhere	
SAP SQL Anywhere Database Client Download Created by Jose Ramos on Feb 26, 2019	
The SAP SQL Anywhere Database Client includes the following components:	
Full set of available client interfaces, such as ODBC, JDBC, ADO.NET and so on.     Administration tools such as SQL Central and Interactive SQL	
Note: During installation you will be prompted to review and accept the SQL Anywhere software license as a 60-day evaluation edition (subject to a software evaluation license).	reement. If you do not accept the License Agreement you can either end the product installation or download
Please click on the links below to obtain the appropriate software.	
SAP SQL Anywhere Version	Software (Database Client only)
SAP SQL Anywhere 17.0	
	Windows x86 and x64
	Windows x86 and x64 Linux x86 and x64
	Viindows x86 and x64 Linux x86 and x64 OS X
	Viindows x86 and x64 Linux x86 and x64 OS X Solaris SPARC
	Viindows x86 and x64 Linux x86 and x64 OS X Solaris SPARC Solaris x64

- Click the Windows x86 and x64 option above and save it to your **Downloads** folder.
- Open the **Downloads** folder and Right Click <u>SQLA17 Windows Client</u>. Select "Run as Administrator" and follow on- screen prompts.

SQLA17_Windows_Client.exe	5/12/2021 2:22 PM	Application	200,876 KB
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- This installs a 200MB program with a full set of tools to use.
- Installs to C:\Program Data\SQL Anywhere 17.
- If User Account Control (UAC) is turned on, you must click 'Yes' when prompted.



Follow the on-screen defaults in the Welcome to the InstallShield Wizard.

• Click Next.



• Choose English as the Language and select OK.



- Choose United States of America from the drop-down list of countries. The License Agreement will populate.
- Change the radio button to accept the terms of the agreement.
- Click Next.





For the Setup type, select Typical and click Next.



- On the Ready to Install the Program screen, uncheck both boxes.
  - o Uncheck Create a desktop shortcut for Sybase Central etc.
  - Uncheck Allow SQL Anywhere 17 to send information about product/feature usage.
- Click Install.





- On the InstallShield Wizard Completed screen, uncheck both boxes, unless you want to read them.
  - Uncheck View the Readme File.
  - Uncheck View the SQL Anywhere Online Resources.
- Click Finish.

# SQL Anywhere 17 - InstallShield Wizard InstallShield Wizard Completed InstallShield Wizard has successfully installed SQL Anywhere 17. Click Finish to exit the wizard. View the ReadMe file. View the SQL Anywhere Online Resources, including online registration and checking for updates.

## Manually Configure ODBC

Once the driver is installed, you are ready to configure ODBC by adding the new DSN. NOTE: instructions for single user ODBC setup are at the bottom of this section.

Prior to configuring your ODBC connection, verify there is a ClientID.pem file located in C:\Windows directory. If not, copy the ClientID.pem from a current GlobalWare client machine to the C:\Windows directory.

If you are using a 32bit version of a third-party program, (such as Microsoft Access) you will configure the C:\Windows\SysWow64\odbcad32.exe.

If you are using a 64bit version of a third-party program, (such as Microsoft Access) you will configure the C:\Windows\System32\odbcad32.exe.

- On the 3<sup>rd</sup> party machine, navigate to C:\Windows\SysWow64\odbcad32.exe or C:\Windows\System32\odbcad32.exe and double click to open.
- On the User DSN tab, click Add.

er DSN	Custom DCN	Die DON Dimen Terr	ing Connetting Dec	line Abaut	
er D'Sin	System DSN	File DSN   Drivers   Trac	ing   Connection Poo	iing   About	
lser Data	Sources:				
Name	Platform	Driver			Add
dBASE F	Files N/A	Microsoft Access dBAS	E Driver (".dbf, ".ndx, "	".mdx)	
Excel File	es 32-bit	Microsoft Excel Driver (	'xls, "xlsx, "xlsm, "xls	b)	Remove
GIODAIWa	are N/A	SQL Anywhere 16			
MS Acce	ess 32-bit	Microsoft Access Univer	(".mdb, ".accdb)		Configure
	An ODBC Us User data sou	er data source stores infom Irce is only visible to you ar	nation about how to co nd can only be used or	onnect to the inc	ficated data provider. A



• On Create New Data Source screen, select SQL Anywhere 17, then click Finish.

Create New Data Source	
Name     Microsoft ODBC for Oracle       Microsoft ODBC for Oracle       Microsoft Paradox-Treiber (*.db )       Microsoft Text Driver (*.bt; *.csv)       Microsoft Text-Treiber (*.bt; *.csv)       SQL Anywhere 17       SQL Server	V         ∧           6         6           6         6           1         ≡           6         ∨           >         >
 < Back Finish	Cancel

• On ODBC tab, enter a new Data source name and Check the Delphi applications box.

ODBC Configu	uration for SQL /	Anywhere	?	x
ODBC Login Network Securit	y Advanced			
Data source name: GlobalWare S	SQL17 User DSN			
Description:				
Isolation level:				
Microsoft applications (Keys in	SQLStatistics)			
<ul> <li>Delphi applications</li> </ul>				
Suppress fetch warnings				
Prevent driver not capable error	ors			
Delay AutoCommit until stateme	ent close			
Describe Cursor Behavior	-	_		
O Never	If required	⊖ Alw	ays	
		Test Co	ppection	
		1651 00	mection	
	ОК	Cancel	Help	>

- On Login tab, enter GlobalWare User ID and Password.
- For Action, select Connect to a running database on another computer.
- For Host,Port, Server name, enter the information for the GlobalWare database location and service name.
- On Network tab, nothing is needed so you can skip to the Security tab.

ODI	3C Configuration for SQL Anywhere	×	ODBC Configuration for SQL Anywhere
ODBC Login Net	work Security Advanced		ODBC Login Network Security Advanced
Authentication:	Database	~	TCP/IP Protocol Options:
User ID:	GWUSER1		Broadcast
Password:	•••••		ClientPort
Encode password:	None	~	Host
		-	LDAP
Action:	Connect to a running database on another computer	~	LocalOnly
Host:			MyIP
Parti			Port
FUIL.	2638		ReceiveBufferSize
Server name:	gwsrv		Sendburrersize
Database name:	<u> </u>	_	VerifyServerName

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- On Security tab, check the Encrypt communications box.
- For Encryption type, select TLS.
- For Certificate source, select A certificate file.
- For File, enter C:\Windows\ClientID.pem.
- For Certificate company, Travelport.
- For Certificate unit, enter IT.
- For Certificate name, enter Travelport.

ODBC (	Configuration for SQL Anywhere
ODBC Login Network	Security Advanced
Encrypt communication	ns with the database server
Encryption type:	TLS v
Certificate source:	A certificate file 🗸
File:	C:\Windows\ClientId.pem Browse
Use the certificate only if	it has the following attributes:
Certificate company:	Travelport
Certificate unit:	IT
Certificate name:	Travelport
Use FIPS-certified RS	A encryption
Other protocol options:	

OK Cancel Help

• On Advanced tab, copy/paste the following under Additional Connection Parameters.

### InitString='SET TEMPORARY OPTION

CONNECTION\_AUTHENTICATION="Company=Travelport;Application=Globalware;Signature=000fa 55157edb8e14d818eb4fe3db41447146f1571g3e73b64edb3cfc2a3e3b677187114ada73db31c0"

ODB	C Configuration	for SQL	Anywhere	? X
ODBC Login Netw	ork Security Advan	nced		
Name	Value			^
AppInfo				
Charset				=
ClientAutocommit				-
CommBufferSize				
Compress				
Compression Thresh	old			
ConnectionName				
DatabaseSwitches				
DisableMultiRowFe	ch			
Elevate				~
Additional connection throughout this dialog Init String='SET TEM CONNECTION_AUT e;Signature=000fa5! 2a3e3b677187114a	parameters (parameter where necessary): PORARY OPTION HENTICATION="Com 157edb8e14d818eb4f Ja73db31c0"	rs typed he pany=Trav e3db41447	re will override t elport:Applicatio 7146/1571g3e7	those set on=Globalwar 3b64edb3cfc
		ОК	Cancel	Help



- Return to the ODBC tab and test the connection by clicking: **Test Connection**.
- A successful ODBC set-up / DSN results in Connection Successful.

ODBC Configure	ation for SQL Anywhere 🛛 ? 🗙
ODBC Login Network Security	Advanced
Data source name: GlobalWare SQ	QL17 User DSN
Description:	Note ×
Isglation level:	Connection successful
Suppress fetch warnings  Prevent driver not capable errors  Delay AutoCommit until statement	ОК
Describe Cursor Behavior	lf required O Al <u>w</u> ays
	Test Connection
	OK Cancel Help

For a **single user** GlobalWare ODBC configuration - where the database is housed on same PC as 3<sup>rd</sup> party software:

The **Login Tab** and **Security Tab** will be configured as shown below, while the other tabs will remain the same as above.

DBC Login Net	twork Security Advanced
Authentication:	Database v
User ID:	GWUSER1
Password:	•••••
Encode password:	None v
Action:	Start and connect to a database on this computer $\qquad \lor$
Database file:	C:\Program Files (x86)\Gblware\db\gblware Browse
Encryption key:	
Database name:	Gblware
Server name:	gwsrv
Chart lines	

OK Cancel Help

DBC Login Network	Security Advanced
Encrypt communicati	ons with the database server
Encryption type:	SIMPLE Y
Certificate source:	The operating system certificate store $~~\lor~$
File:	Browse
Use the certificate only i	f it has the following attributes:
Certificate company:	
Certificate unit:	
Certificate name:	
Use FIPS-certified RS	SA encryption
Other protocol options:	

OK Cancel Help

## Troubleshooting

If your test connection is not successful, try below steps to resolve.

Error Message	Cause/Meaning	Resolution
Error       Connection failed: Encryption error: Unable to open certificate file       'C:\Windows\ClientId.pem'	The ClientID.pem file is missing from C:\windows directory	The ClientID.pem file needs to be copied from a GlobalWare client machine and saved to the C:\Windows directory
Error X Connection failed: Invalid user ID or password OK	Means the UserID and/or password are incorrect	Verify your GlobalWare login and be sure the password is typed in <u>all</u> <u>caps</u>
Error Connection failed: Database server not found	The parameters on the Login tab are incorrect	Verify the Host, Port & Server Name