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ADWC supports connections from standard drivers including JDBC, ODBC, and ADO.NET. Analytic tools may use 3rd party drivers from providers such as Simba. In order to work with ADW, the driver must support Oracle Wallets and SSL encryption. Not all analytic tools package the latest driver versions, so you may be required to update the driver to connect successfully.

This document describes how to generally setup and configure Simba drivers, for tool vendors using this provider. Please check the analytic tool documentation in case they have specific connectivity interfaces.

Connector Vendor	Version
• Simba	ODBC 1.1.6 driver and higher
Oracle Client	12.1.0.2 or higher

## Simba ODBC Driver Configuration:

- 1. This document assumes that the Autonomous Data Warehouse has been provisioned and the corresponding credentials.zip file has been downloaded to the system that has the Simba ODBC Driver installed. For the Oracle documentation to provision ADWC please check <u>here</u>. Also check <u>Downloading Client Credentials (Wallets)</u>.
- 2. Download and install the latest version of Oracle Client or the Instant client from here.
- 3. Unzip the downloaded file and follow the instructions to install an Oracle Instant Client or an Oracle Client. Complete installation guidelines can be found <u>here</u>.
- 4. Steps 4, 5 and 6 configure and test the Oracle Database Client. Edit the sqlnet.ora file, replacing "?/network/admin" with the name of the folder containing the client credentials.

For example:

```
WALLET_LOCATION = (SOURCE = (METHOD = file) (METHOD_DATA =
(DIRECTORY="D:\home\adwc_credentials")))
SSL SERVER DN MATCH=yes
```

5. Set the ORACLE\_HOME and TNS\_ADMIN environment variable and set it to the location of the secure folder containing the credentials file you saved in Step 3. These can optionally be user environment variables as well if it is not a multi user environment.

nvironment Varia	ables S
and on the value	
Edit Sustam V	ariable
Edit System V	
Variable name	e: ORACLE_HOME
Variable value	p\client\RPANDYA\product\12.1.0\client_1
	OK Cancel
Custom variables	
Variable	
MSTR_DESK_R	RE C:\PROGRA~1\MICROS~4\MICROS~1\
NUMBER_OF_P	PR 4
OS OS	Windows_NT
	New Edit Delete
	OK Cancel
	OK Cancel
	OK Cancel
Properties	OK Cancel
Properties uter Name   Hardwa	OK Cancel
Properties uter Name   Hardwa onment Variables	OK Cancel
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Properties Uter Name Hardw onment Variables Git User Variable name: Variable name: Variable value: stem variables Variable TVT USERNAME VBOX_MSI_NST windir	OK Cancel

- 6. The tnsnames.ora file provided with the credentials zip file contains three database service names identifiable as high, medium and low. The predefined service names provide different levels of performance and concurrency for Autonomous Data Warehouse.
- 7. Test the Oracle Client with Oracle SQL\*Plus

```
sqlplus password/\"Password\"@ConnectString
or
sqlplus /nolog
sql> set define off
sql> connect username/password@connectString
```

- 8. The Simba driver relies on the ORACLE\_HOME and TNS\_ADMIN environment variables to implicitly access the tnsnames.ora and sqlnet.ora attributes.
- 9. Download the Simba Driver

BOWNLOAD	REMAINING EXPIRES	DOWNLOAD		X
C C C V I I I I I I I I I I I I I I I I	ads      Simba_Oracle_ODBC_Windows.	zip 👻 😽 Se	arch Simba_Oracle_ODBC_	P
File Edit View Tools Help				
Organize   Extract all files			•	0
<ul> <li>.gimp-2.8</li> <li>.idlerc</li> <li>.oci</li> <li>.oracle_jre_usage</li> <li>.ravello</li> <li>.swt</li> <li>.thumbnails</li> <li>.VirtualBox</li> <li>AppData</li> <li>bin</li> <li>Contacts</li> <li>dd_odbc_uninstall_logs</li> <li>Desktop</li> <li>Downloads</li> <li>guiminer</li> <li>w_turbotax_1040_dlx_2017.01</li> <li>aerohive_visio_shapes.zip</li> </ul>	Name Simba Oracle 1.2 32-bit.msi Simba Oracle 1.2 64-bit.msi	Type Windows Installer Package Windows Installer Package	Compressed size 64,620 KB 71,162 KB	Passwe No No
Simba_Oracle_ODBC_Windov				•
2 items				r

- 10. Please refer to the Simba documentation <u>here</u> to install and configure the Simba ODBC driver based on your OS.
- 11. This document describes how to install and configure the driver on Windows 64 bit OS. Invoke the 64-bit Microsoft ODBC Administrator to create a DSN (system or file) using tnsnames entry. More information about configuring the Simba ODBC driver can be found <u>here</u>
- 12. Here are some pictorial examples for your reference. MSFT 64 bit Windows OS has been used for the example below.

Once unzipped and installed, open the 64 bit ODBC Administrator on Windows to configure system DSN that uses the Simba driver.

ODBC Data Source Administrator						
User DSN System DSN File DS	N Drivers	Tracing	Connection	n Pooling	About	
System Data Sources:						
Name	Driver				Add	
12.2-RICKTEST	Oracle in O	raClient12	Home2			
12-2-OPC	Oracle in O	raClient12	Home1		Remove	
ADWC-DD	DataDirect	8.0 Oracle	Wire Proto	=	Configure	
DBACCESS	Oracle in O	raClient12	Home2			
hivetest Cloudera ODBC Driver for Apach						
Sample Amazon Redshift DSN	Amazon Re	edshift (x64	)			
Sample Cloudera Hive DSN	Cloudera O	DBC Drive	er for Apach			
Sample Cloudera Impala DSN	Cloudera O	DBC Drive	er for Impala	*		
•			•			
An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.						
OK Cancel Apply Help						

Click on Add to configure a new system DSN under the System DSN tab. Locate the Simba ODBC Driver from the list of drivers presented to you and press finish.

-	ODBC Data Source Administrator	x	
U	ser DSN System DSN File DSN Drivers	Tracing Connection Pooling About	
	ODBC Data Source Administrat	tor	X )
	Create New Data Source	the state of the second second	X
		Select a driver for which you want to set up a data source.	
		Name	•
	011	Oracle in OraClient12Home2	
		PostgreSQL ANSI(x64)	
		PostgreSQL Unicode(x64)	
		Simba Hive ODBC Driver	
		Simba Oracle ODBC Driver	
		SQL Server	Ξ
		SQL Server Native Client 10.0	-
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4			
		< Back Finish Cano	;el

You will be presented with a form for the DSN attributes. Fill in the DSN name, your TNS name (this can be found in the tnsnames.ora file in TNS\_ADMIN location) and optionally the username and the password. You can also test the connection here before saving it.

🎄 Simba Oracle ODB	C Driver DSN Setup	
Data Source Name:	ADWTest	
Description:		
Host:		
Port:		
Service Name:		
Use TNS Service n	ame	
TNS Name:	adw_demo_high	
Credentials		
User:	admin	
Password:	•••••	
Enable Table Type	5	
	ing Ontions	
v1.1.6.1030 (64 bit)	OK Cancel	
A Test Results		
SUCCESS!		
Successfully connected	l to data source!	
		ОК

You are now ready to use this system DSN for your application!



Note: These instructions are for reference purposes only. As versions of this driver changes, there may be different configuration methods. Please refer to the vendor website for latest details. Please refer to the vendor documentation on all the configuration options that are available for you to set.