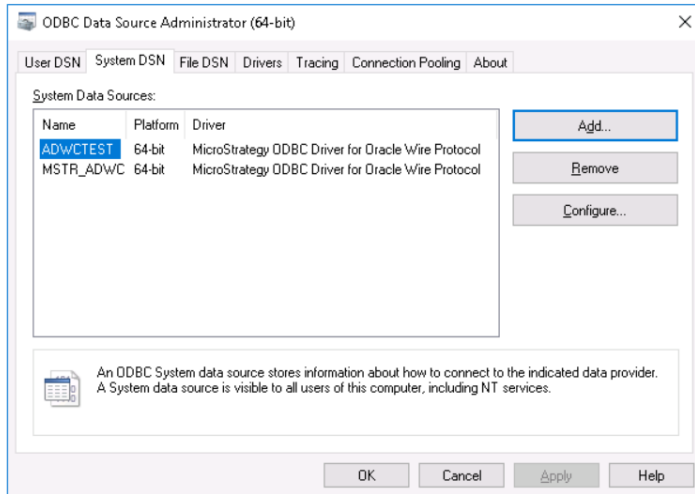


Certification Matrix	Version
MicroStrategy	Edition: MicroStrategy Secure Enterprise MicroStrategy Desktop MicroStrategy Workstation Version: Feature release 10.11, Platform release 10.4
OCI Driver	Oracle Instant Client/Client version 12.1.0.2 and higher

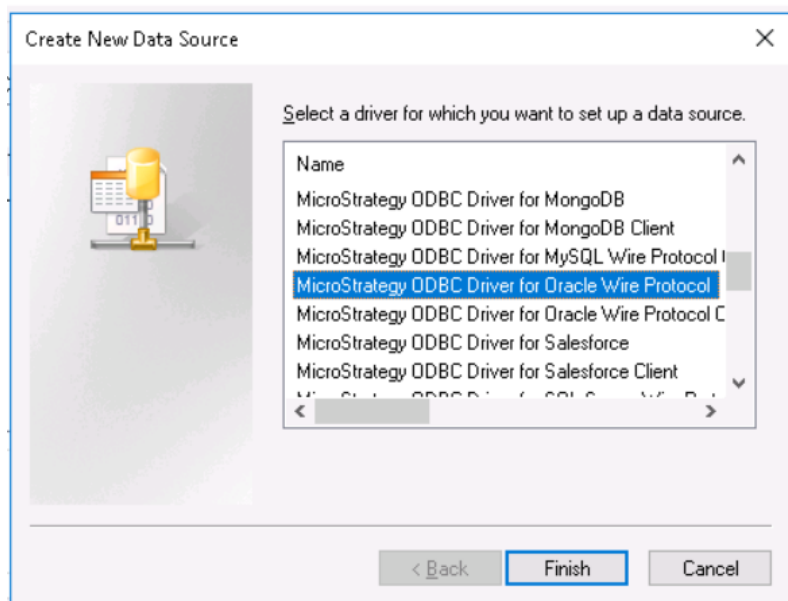
1. This document assumes that the Autonomous Data Warehouse has been provisioned and the corresponding wallet zip file has been downloaded to the system that has the Oracle Instant Client or the Oracle Client is installed that will be used to create a TNS names based system OCI connection to the service. For the Oracle documentation to provision ADWC please check [here](#).
2. The current feature release of MicroStrategy (version 10.11 and earlier) and platform release (10.4 hotfix 7 and earlier) do not have native capability to create a DSN-less connection to ADWC yet. Also, the driver version of MicroStrategy ODBC driver is not capable of connecting to ADWC, yet. The upcoming platform release hotfix and feature release will add support in a short time. Currently the only way you can connect MicroStrategy to ADWC is via a DSN connection that relies on an Oracle home.
3. ADWC is a secured service and therefore encryption of Network Traffic is required by default. MicroStrategy Desktop relies on Oracle Instant Client or an Oracle Client for that purpose. Instructions on how to install and configure Oracle Client is available [here](#).
4. After configuring the Oracle Client, follow the instructions on how to prepare the OCI client for to connect to ADWC service. Please refer to the [Preparing for OCI, ODBC, JDBC OCI Connections section](#) of the ADWC documentation.
5. Unzip your credentials file in the TNS_ADMIN directory.
6. Create the ODBC DSN using the MicroStrategy Oracle Direct Wire driver.
7. You are now ready to create a DSN based connection to Oracle Autonomous Data Warehouse.

Below is a pictorial example for your reference. MSFT 64 bit Windows OS has been used for the example below.

1. After the Oracle Client has been installed and configured for use with ADWC, create the system DSN using the ODBC Data Source Administrator (64-bit)



2. Click on Add to configure a new system DSN under the System DSN tab. Locate the MicroStrategy ODBC Driver for Oracle Wire Protocol from the list of all drivers and press finish.



3. In the form, fill in the Data Source Name, your TNS service name (this can be found in the tnsnames.ora file in TNS_ADMIN location) and complete path to the tnsnames.ora (%TNS_ADMIN%\tnsnames.ora)

ODBC Oracle Wire Protocol Driver Setup

Pooling Bulk Client Monitoring Advanced Security About
General Advanced Security Performance Failover

Data Source Name: Help

Description:

Standard Connection

Host:

Port Number:

SID:

Service Name:

TNSNames Connection

Server Name:

TNSNames File:

Edition Name:

Test Connect OK Cancel Apply

- Next click on the Security tab and choose Encryption Method to be 1-SSL in the Encryption section. Also supply the path and name of the wallet to be used. Data Direct prefers the ewallet.p12 wallet file. The path should be `<wallet_directory>\cwallet.sso`. Supply this information for both the Trust Store as well as the Key Store sections. The password to be supplied here is *the KeyStore/TrustStore password*. You may optionally supply the Database username in the Authentication section.

The screenshot shows the 'ODBC Oracle Wire Protocol Driver Setup' dialog box with the 'Security' tab selected. The 'Authentication' section has 'User Name' set to 'admin' and 'Authentication Method' set to '1 - Encrypt Password'. The 'Encryption' section has 'Encryption Method' set to '1 - SSL'. Under 'Crypto Protocol Version', 'TLsv1.2', 'TLsv1.1', and 'TLsv1' are checked, while 'SSLv3' and 'SSLv2' are unchecked. 'Validate Server Certificate' is checked. Both 'Trust Store' and 'Key Store' are set to 'ent_1\network\admin\cwallet.sso'. The passwords for both are masked with dots. The 'Host Name In Certificate' field is empty. At the bottom, there are buttons for 'Test Connect', 'OK', 'Cancel', and 'Apply'.

Section	Field	Value	
Authentication	User Name	admin	
	Authentication Method	1 - Encrypt Password	
	GSS Client Library	native	
Encryption	Encryption Method	1 - SSL	
	Crypto Protocol Version		
	<input checked="" type="checkbox"/> TLsv1.2	<input checked="" type="checkbox"/> TLsv1.1	<input checked="" type="checkbox"/> TLsv1
	<input type="checkbox"/> SSLv3	<input type="checkbox"/> SSLv2	
	<input checked="" type="checkbox"/> Validate Server Certificate		
	Trust Store	ent_1\network\admin\cwallet.sso	
	Trust Store Password	
	Key Store	ent_1\network\admin\cwallet.sso	
Key Store Password		
Key Password			
Host Name In Certificate			

5. Test your connection by pressing the Test Connect button. Supply the database username and password to test the connection

Logon to Oracle Wire Protocol

Standard Connection

Host:

Port Number:

SID:

Service Name:

TNSNames Connection

Server Name:

User Name:

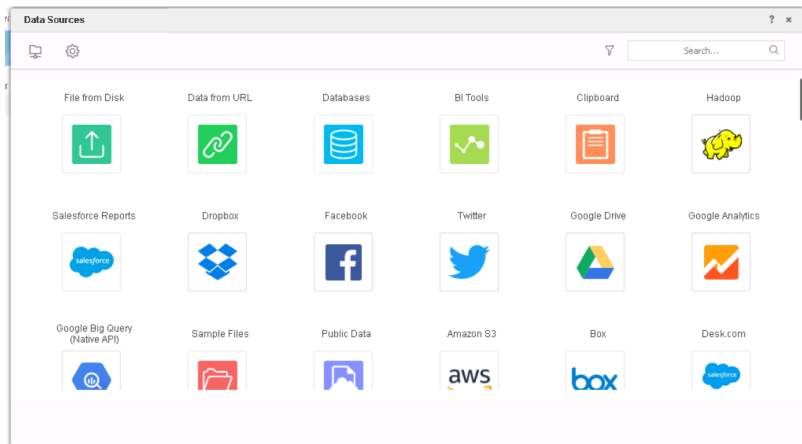
Password:

OK

Cancel

Help

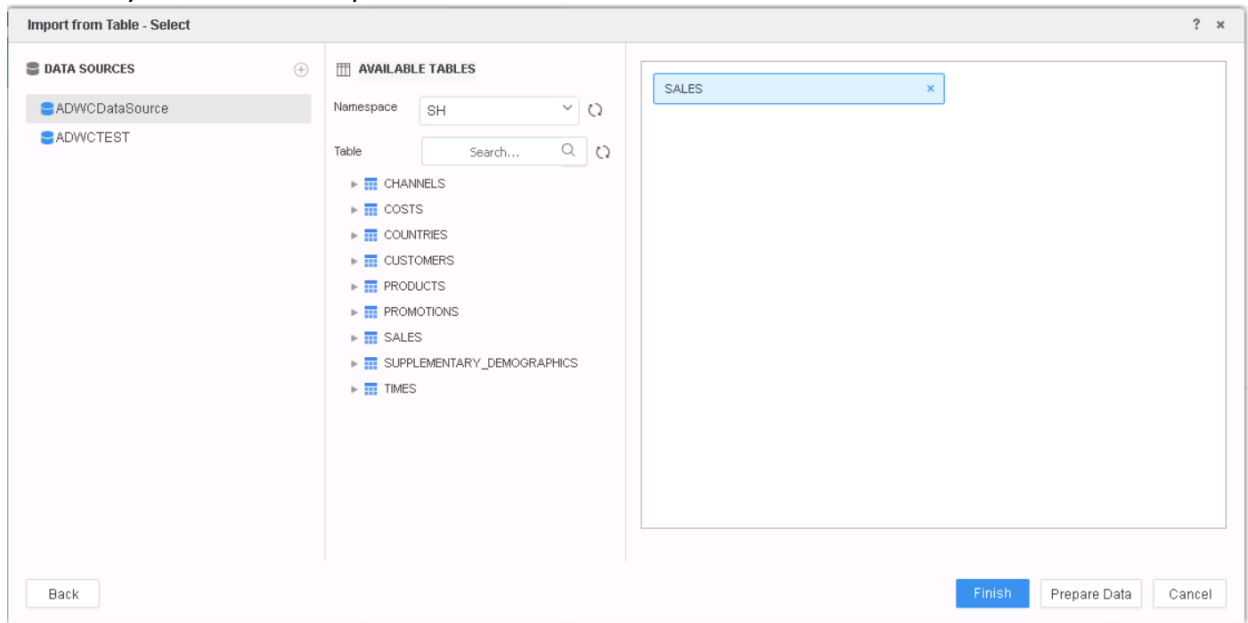
6. You are now ready to use this system DSN for MicroStrategy connection with ADWC. Create a new Dossier and Click on the New Data button under the Datasets section. Select Databases from the Data Sources section.



7. Use the DSN Data Sources in the Data Source section. Locate the DSN that you just created from the DSN pulldown. Use the Oracle 18c in the Version pulldown. Provide the username and the password to the ADWC service.

A screenshot of the 'Data Source' configuration dialog box. The title bar contains a question mark and a close button. The dialog has two radio buttons: 'DSN-less Data Sources' (unselected) and 'DSN Data Sources' (selected). Below the radio buttons are several input fields: 'DSN:' with a dropdown menu showing 'ADWCDEMO' and a refresh icon; 'Version:' with a dropdown menu showing 'Oracle 18c'; a checkbox labeled 'Show databases which are not certified for the DSN's driver.' which is unchecked; 'User:' with a text input field containing 'admin'; 'Password:' with a password input field containing ten dots; and 'Data Source Name:' with a text input field containing 'ADWCDataSource'. At the bottom right are two buttons: 'OK' (highlighted in blue) and 'Cancel'.

- Click on the Data Source that you just created and select the schema and the tables you need for your Dossier and press finish.



You have successfully connected MicroStrategy to ADWC!