



Deltek

Deltek Ajera 10

ODBC and Hybrid Data Pipeline (HDP) Setup
and Configuration Guide

April 17, 2024

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Ajera ODBC Overview

If your company has purchased the Ajera ODBC (Read Only) access to your SaaS data, use this configuration guide to set up users and install the tools to utilize the ODBC access to your Ajera cloud data. Ajera ODBC (Read Only) offers a secure, read-only connection to your Ajera database using ODBC, providing the ability to connect Microsoft Excel or Microsoft Access directly to your database.

ODBC connectivity is only available for your production database. You cannot use ODBC to connect to any sandbox or non-production databases.

Read only ODBC access to your Ajera Cloud database is provided by the Hybrid Data Pipeline ODBC client driver. Setting up the driver is a simple three-step process:

- **Step One:** Submit the Service Request for ODBC Read Only Access
- **Step Two:** Install the HDP ODBC Driver
- **Step Three:** Configure the ODBC Client

Step One: Submit the ODBC Read Only Access Service Request

To submit the service request:

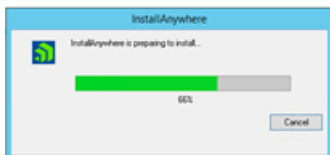
1. Your company's SaaS Customer Administrator should log into the [Deltek Support Center](#) and navigate to the **Deltek Cloud Solutions** page.
2. In the **Service Request** section, select the **ODBC Read Only Access** radio button.
3. Click the link in the Service Request to download the spreadsheet that should be used to log all changes to ODBC access. The spreadsheet can also be downloaded from [KB Article # 107175](#).
4. Under **User Access Form**, select **Choose File** and upload the completed spreadsheet from step 3 above.
5. Click **Submit**.
Upon submission, a dialog box displays containing the **Case No.** for the request and a link to [Manage Cases](#), where the case can be viewed or updated.
6. Upon the completion, Deltek will notify the new account holder via email with the credentials and configuration settings needed to connect to the ODBC service.
Additionally, the SaaS Administrator will receive a confirmation email when the request is completed.

Step Two: Install the HDP ODBC Driver 4.6 in Windows

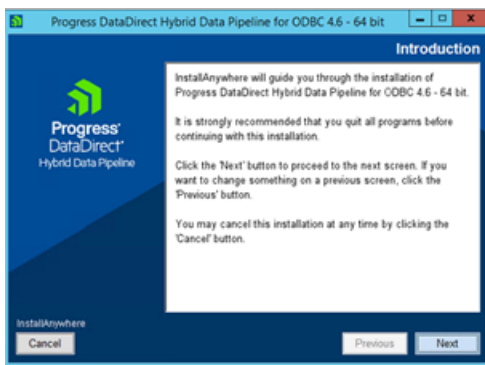
Install HPD ODBC Driver 4.6 in Windows

1. Download the latest HDP ODBC Driver (HDP ODBC Driver 4.6-20211013 For Windows.zip).
<https://dsm.delttek.com/DFVE/ODBC/HDPDriver.zip>
2. Extract the HDPDriver.zip file, it should contain the following files:
 - PROGRESS_DATADIRECT_HDP_ODBC_WIN_32.exe
 - PROGRESS_DATADIRECT_HDP_ODBC_WIN_64.exe
 - config.properties
 - ddcloud.pem
 - ddcloudTrustStore.jks
 - OnPremise.properties
3. Right click in the appropriate installer file (.exe) and select **Run as Administrator** (Installation requires administrative rights on the workstation).

Note :	Select the installer file that matches the version (32-bit or 64-bit) of Microsoft Office or SQL installed. If Microsoft Office or SQL are not installed, select the installer file that matches the version of Windows installed.
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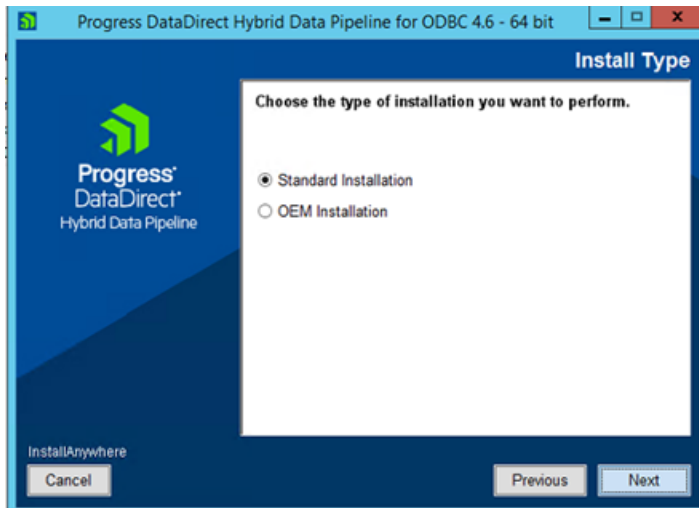


4. Click **Next**.



5. Choose Standard Installation and click **Next**.

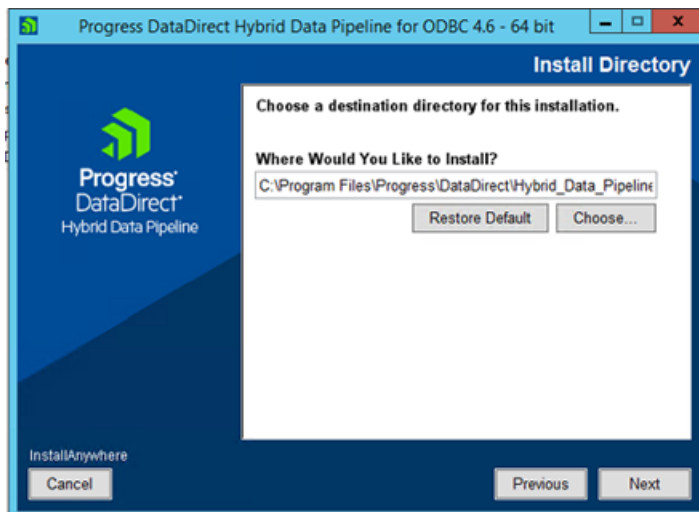
Step Two: Install the HDP ODBC Driver 4.6 in Windows



6. Choose the destination folder and click **Next**:

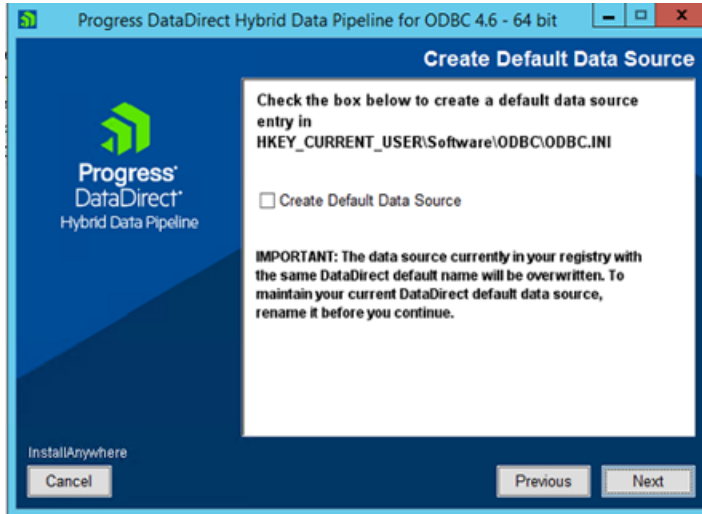
C:\Program Files\Progress\DataDirect\Hybrid_Data_Pipeline_for_ODBC_4_6

Note :	We recommend using that specific destination path. Do not use the path from the old version, which was C:\Program Files\Progress\DataDirect\Hybrid_Data_Pipeline_for_ODBC
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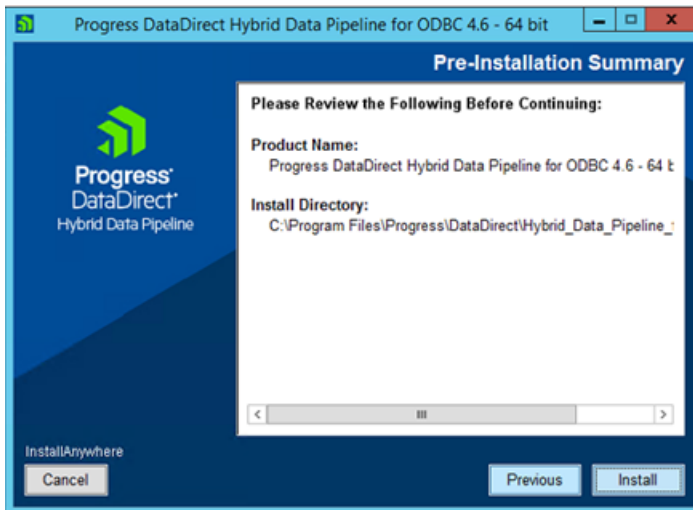


7. Click **Next**.

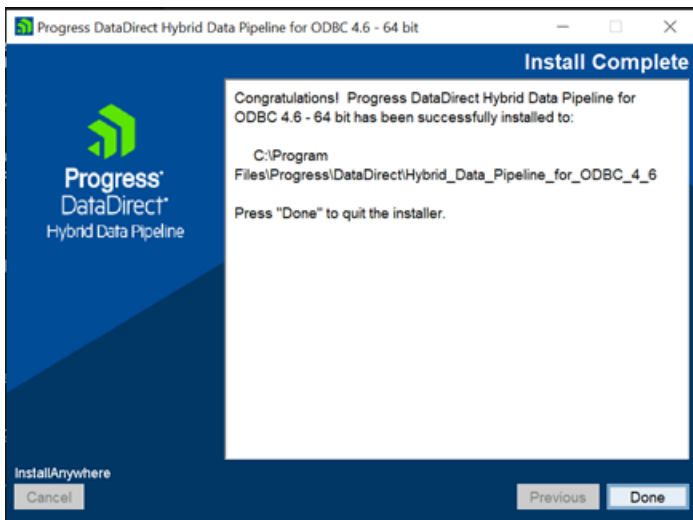
Step Two: Install the HDP ODBC Driver 4.6 in Windows



8. Click **Install**.

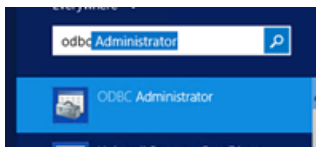


9. Click **Done**.

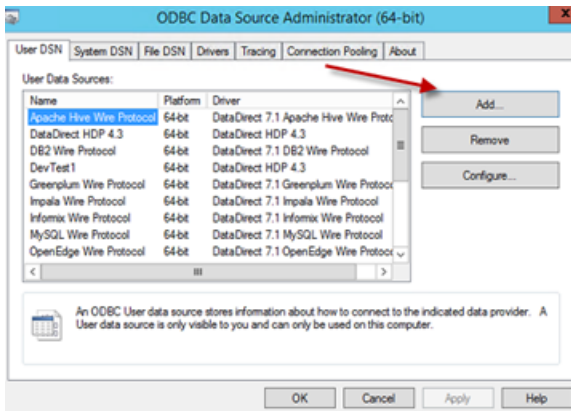


Prepare to create the DSN

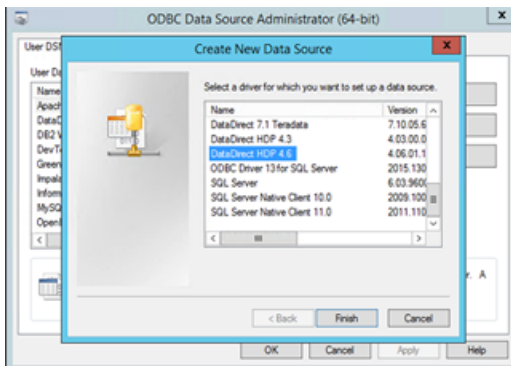
1. Run ODBC Administrator.



2. Click **User DSN > Add**.



3. Choose DataDirect HDP 4.6 (not 4.3, which is the older version) and click Finish.

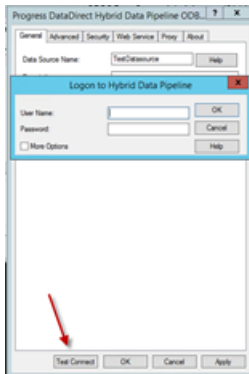


4. Enter the following information:
 - **Data Source Name:** You can enter any name using alpha and numeric characters. Do not use special characters, such as ampersand or percent.
 - **Description:** You can enter any name using alpha and numeric characters. Do not use special characters, such as ampersand or percent.
 - **Hybrid Data Pipeline Source:** This is the Datasource Name in HDP.
 - **Service:** This is the HDP URL Endpoint.
 - **Port Number:** Default is 443.

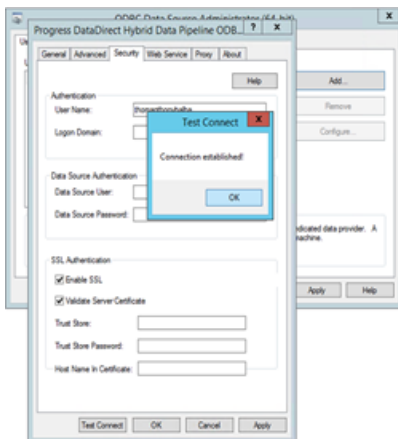
Step Two: Install the HDP ODBC Driver 4.6 in Windows



5. Test connectivity by clicking Test Connect and enter username and password.



6. Connection should be successful. Click **OK**.



7. Click **Apply** to save the configuration.

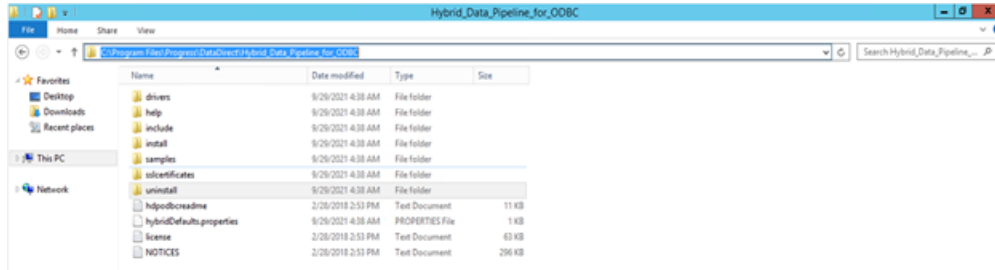
Uninstall old version of HPD ODBC Driver

Please ensure you have tested the new HDP ODBC Driver 4.6 and are satisfied before completing the steps in this section.

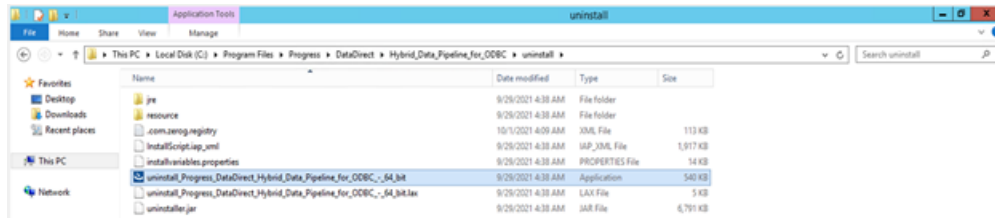
1. Go to the folder where the HDP ODBC Driver 4.3 is installed:

Note:	Default is C:\Program Files\Progress\DataDirect\Hybrid_Data_Pipeline_for_ODBC
--------------	---

Step Two: Install the HDP ODBC Driver 4.6 in Windows



- Go to Uninstall folder and click **uninstall_Progress_DataDirect_Hybrid_Data_Pipeline_for_ODBC_-_64_bit**.

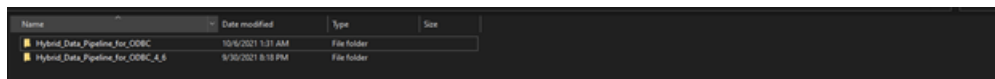


- Click **Uninstall**.



- Wait until completion.
- Click **Done**.
- Go to C:\Program Files\Progress\DataDirect and delete the Hybrid_Data_Pipeline_for_ODBC folder.

Note : This assumes that the old version of the HDP ODBC Driver is installed in Hybrid_Data_Pipeline_for_ODBC



Step Two: Install the HDP ODBC Driver 4.6 in Linux

The following Linux operating systems are supported:

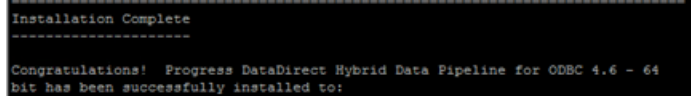
- CentOS Linux 4.x, 5.x, 6.x, and 7.x
- Debian Linux 7.11, 8.5
- Oracle Linux 4.x, 5.x, 6.x, and 7.x
- Red Hat Enterprise Linux 4.x, 5.x, 6.x, and 7.x
- SUSE Linux Enterprise Server 10.x, 11.x, and 12.x
- Ubuntu Linux 14.04, 16.04

Install the HDP ODBC Driver 4.6 in Linux

1. Download the latest HDP ODBC Driver (HDP ODBC Driver 4.6-20211013 For Linux.zip).
<https://dsm.deltek.com/DFVE/ODBC/HDPLinuxDriver.zip>
2. Extract the HDPLinuxDriver.zip file, it should contain the following files:
 - PROGRESS_DATADIRECT_HDP_ODBC_LINUX_64.exe
 - config.properties
 - ddcloud.pem
 - ddcloudTrustStore.jks
 - OnPremise.properties
3. Make the file "PROGRESS_DATADIRECT_HDP_ODBC_LINUX_64.bin" executable.
Execute: `chmod +x PROGRESS_DATADIRECT_HDP_ODBC_LINUX_64.bin`
4. Run the installer from the command-line prompt. Note: you should be in the temp directory where the executable file is located.

Execute: `./PROGRESS_DATADIRECT_HDP_ODBC_LINUX_64.bin`

- Press Enter to continue.
- Select 1 for the standard installation.
- Copy the default folder and put 4_6 at the end.
 - Example: `/home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC_4_6`
 - Where <user> is the logon user.
- Type Y to accept the new Install folder directory.
- Press Enter to continue.
- You should see the Congratulations Message if install has been successful.



```
=====
Installation Complete
=====

Congratulations! Progress DataDirect Hybrid Data Pipeline for ODBC 4.6 - 64
bit has been successfully installed to:
```

- Press Enter to exit the installer.

Configuring an ODBC data source

1. Go to /home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC_4_6.
Example: cd /home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC_4_6.
2. Edit odbc.ini file and add the following:
 - **[ExampleDSN]**
 - Driver=/home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/lib/ddhybrid01.so
 - Description=DataDirect HDP 4.6
 - Service=<TBD>
 - HybridDataPipelineDataSource=<TBD>
 - LogonID=
 - ClientTimeZone=
 - DataSourceUser=
 - DataSourcePassword=
 - ProxyHost=
 - ProxyPort=
 - ProxyUser=
 - ProxyPassword=
 - TransactionMode=0
 - WSRetryCount=3
 - WSTimeout=120
 - LogonDomain=
 - LoginTimeout=30
 - QueryTimeout=0
 - ApplicationUsingThreads=1
 - ReportCodepageConversionErrors=0
 - EnableWCharSupport=1
 - DefaultlongDataBufLen=
 - MaxVarcharSize=
 - ExtendedOptions=
 - VarcharThreshold=
 - MinLongVarcharSize=
 - Password=
 - EncryptionMethod=1
 - ValidateServerCertificate=1
 - TrustStore=
 - TrustStorePassword=
 - HostNameInCertificate=
 - PortNumber=**443**

Where

- Hybrid Data Pipeline Source: This is the Datasource Name in HDP
 - Service: This is the HDP URL Endpoint
3. Run the appropriate product setup script.
 - a. For Bourne, Korn, and related shells, execute the following command:
`./odbc.sh`
 - b. For C shell and related shells, execute the following command:
`source ./odbc.csh`
 4. Go to samples/examples directory:
Execute: `cd /home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/samples/example`
 5. Execute the following:
Execute: `./example`
 - Enter the data source name: **ExampleDSN**
 - Enter user name
 - Enter password

If successful, you will be able to type SQL Statements.

```
[root@example]# ./example
./example DataDirect Technologies, Inc. ODBC Example Application.

Enter the data source name : test
Enter the user name       : testuser
Enter the password       : testpassword
Enter SQL statements (Press ENTER to QUIT)
SQL> █
```

Uninstall old version of HPD ODBC Driver

Please ensure you have tested the new HDP ODBC Driver 4.6 and are satisfied before completing the steps in this section.

1. Go to the folder where the HDP ODBC Driver 4.3 is installed:

Note:	Default is /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC
--------------	---

2. Navigate to uninstall directory
 - `cd uninstall/`
3. Execute the `uninstall_Progress_DataDirect_Hybrid_Data_Pipeline_for_ODBC_-_64_bit`
 - `./uninstall_Progress_DataDirect_Hybrid_Data_Pipeline_for_ODBC_-_64_bit`

Step Two: Install the HDP ODBC Driver 4.6 in Linux

```
[root@ ~]# ./uninstall_Progress_DataDirect_Hybrid_Data_Pipeline_for_ODBC_-_64_bit
Graphical installers are not supported by the VM. The console mode will be used instead...

=====
Progress DataDirect Hybrid Data Pipeline for ODBC 4.6 - 64 bit(created with InstallAnywhere)
=====

Preparing CONSOLE Mode Uninstallation...

=====
Uninstall Progress DataDirect Hybrid Data Pipeline for ODBC 4.6 - 64 bit
=====

About to uninstall...

Progress DataDirect Hybrid Data Pipeline for ODBC 4.6 - 64 bit

This will remove features installed by InstallAnywhere. It will not remove
files and folders created after the installation.

PRESS <ENTER> TO CONTINUE: █
```

4. Press **Enter**.

```
=====
Uninstall Complete
=====

Some items could not be removed.
```

Note :	The items that can't be removed refers to the home directory of HDP Odbc Client If you want to delete the home directory of HDP, make sure that only Datadirect Directory is available in /opt/Progress.
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Optional Step:

- Go to /opt directory to remove the HDP ODBC Driver home directory:
 - i. cd /opt
- Delete Progress directory:
 - i. rm -rf Progress/

Step Three: Configure ODBC Client

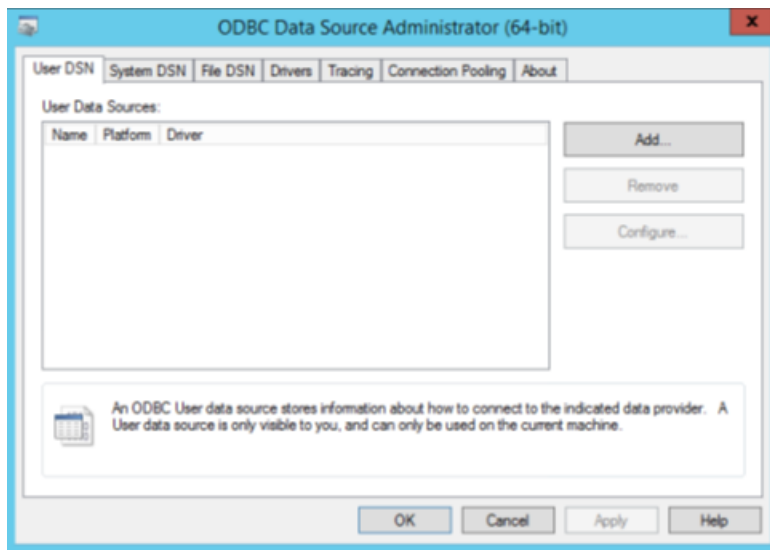
Configure the ODBC Client

To configure the ODBC client:

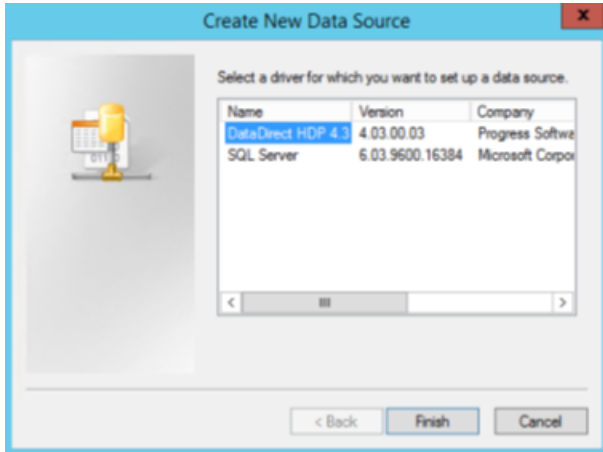
1. Open the ODBC Data Sources Administrator (64-bit) application in Windows, and click **Add** on the appropriate DSN tab.

Be sure to open the correct architecture version of ODBC Data Source Administration (XX-bit) based on the architecture version of the driver that was installed; either 32-bit or 64-bit.

2. Select the appropriate DSN tab:
 - **User DSN:** Access to this DSN will only be available to the current logged on user (for example, logged onto Windows and using Excel).
 - **System DSN:** Access to this DSN will be available to any user that is allowed to authenticate to the Windows machine (for example, the service account used to run a data warehouse application).

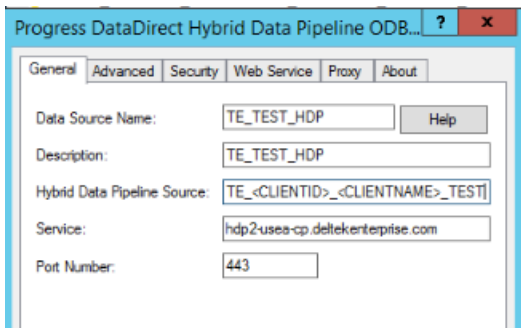


3. When the Create New Data Source dialog box displays, select DataDirect HDP X.X from the list of available drivers, and click **Finish**.



4. On the General tab of the Progress DataDirect Hybrid Data Pipeline ODBC dialog box, provide the following information.

- **Data Source Name:** This information will be provided to you in your service request ticket.
- **Description:** This information will be provided to you in your service request ticket.
- **Hybrid Data Pipeline Source:** This information will be provided to you in your service request ticket.
- **Service:** Enter **ajera-hdp01.prd.mydeltek.com**.
- **Port Number:** Enter **443**.



5. Click the Security tab, and select the **Enable SSL** check box in the **SSL Authentication** section.

Step Three: Configure ODBC Client

The screenshot shows the 'Progress DataDirect Hybrid Data Pipeline ODBC' configuration window with the 'Security' tab selected. The window has tabs for 'General', 'Advanced', 'Security', 'Web Service', 'Proxy', and 'About'. A 'Help' button is in the top right. The 'Authentication' section contains 'User Name' and 'Logon Domain' text boxes. The 'Data Source Authentication' section contains 'Data Source User' and 'Data Source Password' text boxes. The 'SSL Authentication' section has checkboxes for 'Enable SSL' and 'Validate Server Certificate', both of which are checked. Below these are text boxes for 'Trust Store', 'Trust Store Password', and 'Host Name In Certificate'. At the bottom are buttons for 'Test Connect', 'OK', 'Cancel', and 'Apply'.



You will need to follow the above procedure for each database to which you connecting. When submitting the ODBC Read Only Access service request, you are able to specify to which databases you require ODBC access.

6. Test the connection by clicking Test Connect, entering the username and password provided to you in your service request ticket, and clicking OK.

The screenshot shows the 'Logon to Hybrid Data Pipeline' dialog box. It has a title bar with a close button. Inside, there are text boxes for 'User Name' and 'Password'. To the right of the 'User Name' box is an 'OK' button. To the right of the 'Password' box are 'Cancel' and 'Help' buttons. At the bottom left is a checkbox labeled 'More Options'.

The screenshot shows the 'Test Connect' dialog box. It has a title bar with a close button. The main area contains the text 'Connection established!'. At the bottom is an 'OK' button.

You can now use the configured ODBC driver to connect to the databases.



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