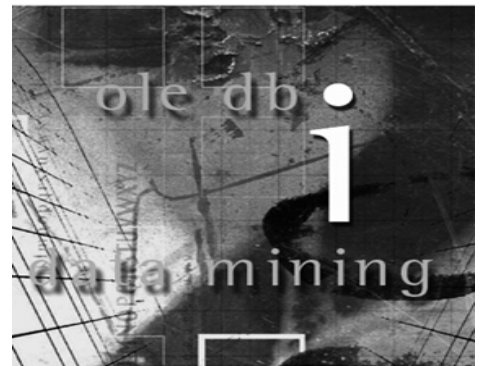


MDX for Oracle OLAP ODBO edition

Windows Client Installation Guide

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MDX for Oracle OLAP – ODBO edition Windows Client Installation Guide

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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Introduction

MDX for Oracle OLAP – ODBO edition allows you to connect from ODBO-compatible Business Intelligence (BI) clients to an Oracle® OLAP® cube. MDX for Oracle OLAP – ODBO edition directly connects familiar BI client applications such as Microsoft® Excel®, enabling powerful query and analysis of your multi-dimensional data.

The Windows Client Installation Guide describes how to install and configure MDX for Oracle OLAP – ODBO edition on computers running the Microsoft Windows® operating system.

Architecture

Figure 1 illustrates the relationship between the components involved in running MDX for Oracle OLAP – ODBO edition.

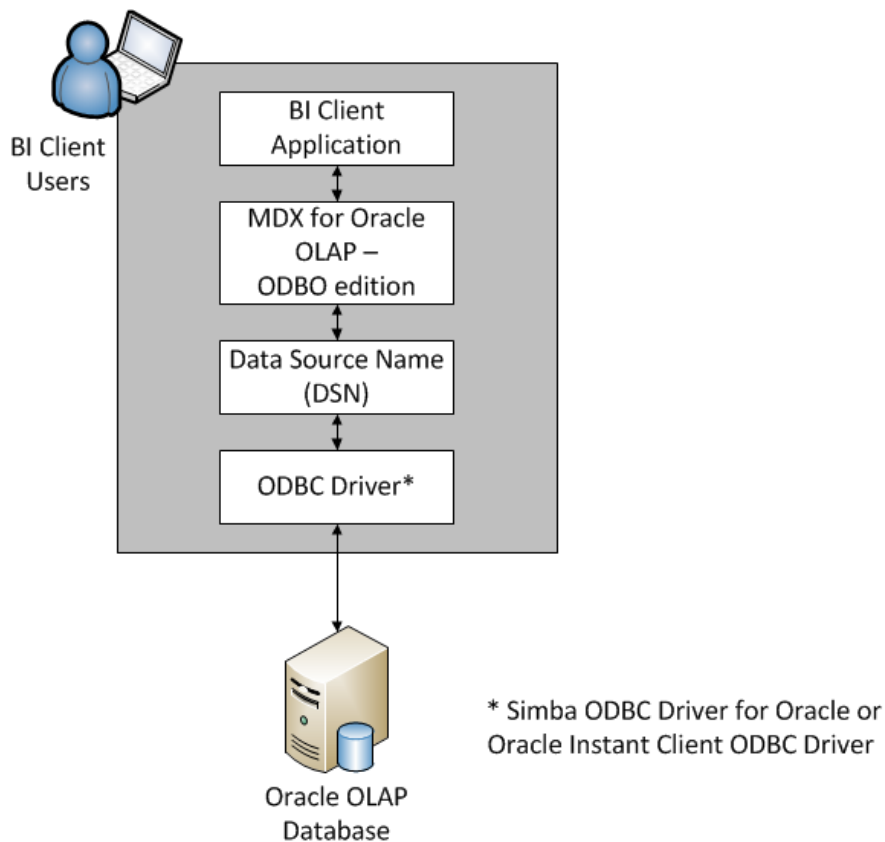


Figure 1 MDX for Oracle OLAP – ODBO edition Architecture Diagram

Further Documentation

In addition to the *Windows Client Installation Guide*, refer to the *MDX for Oracle OLAP Administration Guide* for details on configuring Oracle OLAP for use with MDX for Oracle OLAP – ODBO edition.

For further details on installing and using the Simba ODBC Driver for Oracle, see the *Simba ODBC Driver for Oracle Installation and Configuration Guide*.

Prerequisites

You can install MDX for Oracle OLAP – ODBO edition on client computers running one of the following Microsoft operating systems:

- Vista Business Edition or higher.
- Windows 7
- Windows 8
- Windows 8.1
- Windows Server 2003, with Service Pack 2 or later
- Windows Server 2008, with Service Pack 2 or later
- Windows Server 2008 R2 with Service Pack 1 or later

You also need at least 300 MB of available disk space.

Important: To install MDX for Oracle OLAP – ODBO edition, you need Administrator privileges on the computer.

Preparing for Installation

To use the MDX for Oracle OLAP – ODBO edition, you need:

- **TNS Name**—This is the usual Oracle Transparent Networking Substrate 'name' that points to the particular instance of Oracle 11g OLAP Option containing your database and schemas. You may already know your database instance TNS name and have an appropriate `tnsnames.ora` file on your machine. In addition, DSN setup requires that the Oracle ODBC driver manager can find and read your `tnsnames.ora` file. Section *TNS Configuration* on page 11 describes how the TNS name is used. Please refer to Oracle documentation and/or your IT department for assistance with this.

Both the TNS Name and the `tnsnames.ora` file can be forgone if the you are willing to use the `host:port:SID` nomenclature in the DNS creation dialog. See step 6 in *Creating a Data Source Name* on page 12 on how to do this.
- **DSN**—MDX for Oracle OLAP – ODBO edition uses Oracle ODBC as a gateway to your Oracle server. You use Window's **ODBC Data Source Administrator** to define a **Data Source Name (DSN)**. Generally, you will not be able to create a DSN if you do not first have a TNS name defined as described above, as the DSN must be set to refer to a particular TNS name defined in your `tnsnames.ora` file. Finally, a DSN must be defined before using the MDX for Oracle OLAP – ODBO edition. If you are not familiar with a DSN, please contact your IT department before proceeding further. See section *Creating a Data Source Name* on page 12 for more information.
- **Oracle database credentials**—You need an Oracle database user ID and password having permissions to access your intended schema objects, such as dimensions, hierarchies and cubes.

Installation

Ensure that client computers meet the prerequisites prior to installing MDX for Oracle OLAP – ODBO edition.

MDX for Oracle OLAP – ODBO edition is delivered for installation in an executable having the name MDXForOracleOLAP_*Bitness_Version*.exe where *Bitness* is x86 or x64, and *Version* is the version number of MDX for Oracle OLAP – ODBO edition.

To install MDX for Oracle OLAP – ODBO edition:

1. Exit all running instances of the business intelligence (BI) client application.
2. Uninstall any previous versions of MDX for Oracle OLAP – ODBO edition:
 - a) Click the **Start** menu, then click **Control Panel**, and then click **Programs and Features**
 - b) Scroll down to select **MDX for Oracle OLAP – ODBO edition**, and then click the **Uninstall** button in the toolbar.
 - c) In the confirmation dialog, click **Yes**
 - d) When MDX for Oracle OLAP – ODBO edition is uninstalled, click **OK**
3. Uninstall any previous versions of the Simba ODBC Driver for Oracle:
 - a) In Programs and Features, scroll down to select **Simba Oracle ODBC Driver**, and then click **Uninstall**
 - b) In the confirmation dialog, click **Yes**
 - c) If you have the 32- and 64-bit versions of the Simba ODBC Driver for Oracle installed, then repeat step 3 to uninstall the other version.
4. To install MDX for Oracle OLAP – ODBO edition on a computer running a 32-bit operating system, double-click to run MDXForOracleOLAP_x86_*Version*.exe where *Version* is the version number of MDX for Oracle OLAP – ODBO edition.

OR

To install MDX for Oracle OLAP – ODBO edition on a computer running a 64-bit operating system, double-click to run MDXForOracleOLAP_x64_*Version*.exe where *Version* is the version number of MDX for Oracle OLAP – ODBO edition.

Note: When creating a data connection between your business intelligence client application and an Oracle 11g cube using MDX for Oracle OLAP – ODBO edition, the bitness of MDX for Oracle OLAP – ODBO edition must match the bitness of your client application. On 64-bit Windows operating systems, you can execute 32- and 64-bit applications transparently. Installing 64-bit MDX for Oracle OLAP – ODBO edition installs 32- and 64-bit ODBO DLLs.

5. Click **Next**
6. To change the installation location, click the **Browse** button, then browse to the desired folder, and then click **OK**. To accept the installation location, click **Next**
7. Click the drop-down arrow next to the Installation Type field, and then select the components you want to install:
 - ◆ **Full Installation** allows you to design and administer cube schema definitions, as well as use and test schemas through business intelligence clients, such as Excel. The Full Installation

option installs both the Simba ODBC Driver for Oracle as well as the Oracle Instant Client ODBC driver.

- ◆ **MDX Provider (Excel run-time) + Oracle Instant Client** allows you to use and test cube schema definitions through BI clients, such as Excel, using the Oracle Instant Client ODBC driver.
- ◆ **MDX Provider (Excel run-time) + Simba Oracle ODBC Driver** allows you to use and test cube schema definitions through BI clients, such as Excel, using the Simba ODBC Driver for Oracle.
- ◆ **AWM plug-in & SQL scripts** allows Oracle cube administrators to use the Server-side Cell Formatting option.

Note: Selecting Full Installation or MDX Provider (Excel run-time) + Oracle Instant Client installs an Oracle 11g ODBC driver on the client computer. For details on the Server-side Cell Formatting option, see the *MDX for Oracle OLAP Administration Guide*.

8. Click **Next**

9. Click **Install**

10. If you are installing the Simba ODBC Driver for Oracle:

- a) When the Simba Oracle ODBC Driver Setup dialog appears, click **Next**
- b) Select the check box to accept the terms of the License Agreement if you agree, and then click **Next**
- c) To change the installation location, click the **Change** button, then browse to the desired folder, and then click **OK**. To accept the installation location, click **Next**
- d) Click **Install**
- e) When the Simba ODBC Driver for Oracle installation completes, click **Finish**
- f) If you are installing the 64-bit version of MDX for Oracle OLAP - ODBO edition, then repeat step 10 to install the 32-bit version of Simba ODBC Driver for Oracle.

11. Click **Finish** in the MDX for Oracle OLAP - ODBO edition Setup dialog.

12. Copy the MDXProviderforOracleOLAP-ODBOedition.lic key file that you received via e-mail into the appropriate folder on your local computer to activate MDX for Oracle OLAP - ODBO edition:

- ◆ If your computer is running a 32-bit Windows operating system, then copy the key file to the folder C:\Windows\System32

OR

Copy the key file to the folder C:\Program Files\Simba Technologies Inc\MDX for Oracle OLAP - ODBO Edition\DLLs

- ◆ If your computer is running a 64-bit Windows operating system and you are activating the 32-bit version of MDX for Oracle OLAP - ODBO edition, then copy the key file to the folder C:\Windows\SysWOW64

OR

Copy the key file to the folder C:\Program Files (x86)\Simba Technologies Inc\MDX for Oracle OLAP - ODBO Edition\DLLs

- ◆ If your computer is running a 64-bit Windows operating system and you are activating the 64-bit version of MDX for Oracle OLAP - ODBO edition, then copy the key file to the folder C:\Windows\System32

OR

Copy the key file to the folder C:\Program Files\Simba Technologies Inc\MDX for Oracle OLAP - ODBO Edition\DLLs

13. If you are installing the 64-bit version of MDX for Oracle OLAP - ODBO edition, then repeat step 12 to register the 32-bit version as well as the 64-bit version.
14. If you are installing the Simba ODBC Driver for Oracle, then copy the SimbaOracleODBCDriver.lic key file that you received via e-mail into the appropriate folder:
 - ◆ If your computer is running a 32-bit Windows operating system, then copy the key file to the folder C:\Program Files\Simba Oracle ODBC Driver\lib
 - ◆ If your computer is running a 64-bit Windows operating system and you are activating the 32-bit version of the Simba ODBC Driver for Oracle, then copy the key file to the folder C:\Program Files (x86)\Simba Oracle ODBC Driver\lib
 - ◆ If your computer is running a 64-bit Windows operating system and you are activating the 64-bit version of the Simba ODBC Driver for Oracle, then copy the key file to the folder C:\Program Files\Simba Oracle ODBC Driver\lib
15. If you are using the 64-bit version of MDX for Oracle OLAP - ODBO edition and you are installing the Simba ODBC Driver for Oracle, then repeat step 14 to register the 32-bit version as well as the 64-bit version.

Prior to creating a connection from Excel to your OLAP cube, you need to create an ODBC Data Source Name (DSN) that refers to the TNS name that points to the OLAP database. See *Setting Up a Data Connection* on page 11 for details.

Installation of the Oracle Instant Client ODBC Driver

The MDX Provider for Oracle OLAP requires the Oracle 11g Instant Client ODBC driver. If the Oracle 11g Instant Client driver is not installed, then the MDX for Oracle OLAP - ODBO edition installer installs the driver.

Oracle ODBC drivers come in two types: Full Client, and the smaller Instant client. Oracle fully supports the side-by-side installation of Full Client and Instant Client drivers on the same computer, as well as Oracle 9i or Oracle 10g ODBC drivers. The MDX for Oracle OLAP - ODBO edition installer does not uninstall or alter other drivers in any way.

Setting Up a Data Connection

After you complete the procedure in the section *Installation* on page 7, you need to set up and configure a data connection between your business intelligence client application and the Oracle 11g cube you want to query and analyze.

You can also tune behavior and performance of MDX for Oracle OLAP – ODBO edition.

TNS Configuration

The Transparent Network Substrate (TNS) is Oracle's networking architecture, which provides a uniform application interface for network applications.

TNS networking information is in the form of a tuple in host:port:SID that defines the locations of databases, where cubes reside. Client computers use the tuples to establish connections to the databases. While tuples can be specified directly each time, saving frequently used information in a TNS configuration file is highly recommended, as well as more convenient. While end users can create the configuration file named `tnsnames.ora` manually, typically database administrators provide the configuration file to end users. For details on creating a `tnsnames.ora` file, see http://docs.oracle.com/cd/B28359_01/network.111/b28317/tnsnames.htm

Important: Save the `tnsnames.ora` file on the local computer—**not** on a networked drive.

You need to indicate where the TNS configuration file is located using one of the following methods:

- A Windows registry variable
- A directory specified by the `TNS_ADMIN` environment variable
- A directory specified by the `ORACLE_HOME` environment variable
- The `network\admin` subdirectory of the Oracle client installation

Setting the `TNS_ADMIN` environment variable to the folder where the `tnsnames.ora` file is saved is recommended as the simplest method.

To set the `TNS_ADMIN` environment variable:

1. Click the **Start** menu, and then click **Control Panel**
2. If you view the Control Panel by Category, then click **System and Security**
3. Click **System**, then click **Advanced System Settings**, and then click the **Environment Variables** button on the Advanced tab.
4. In the System Variables area, click **New**
5. In the New System Variable dialog, type **TNS_ADMIN** in the Variable Name field, then type the absolute path of the folder where you saved the `tnsnames.ora` file in the Variable Value field, and then click **OK**
6. In the Environment Variables dialog, click **OK**
7. In the System Properties dialog, click **OK**

If the TNS_ADMIN environment variable is not set, then Oracle Call Interfaces (OCI) examines an operating system dependent set of directories to find the tnsnames.ora file, including the location %ORACLE_HOME%\network\admin\tnsnames.ora

Note: The ORACLE_HOME environment variable points to the directory where the Oracle software is installed.

Creating a Data Source Name

Similar to using a new ODBC data source, a Microsoft Windows Data Source Name (DSN) is required by MDX for Oracle OLAP - ODBO edition to connect to an Oracle 11g cube. BI client applications use the DSN to request a connection to an ODBC data source. You provide the DSN when defining a data source for the BI client. Creating a DSN is an infrequent step, since it generally needs to be done only when creating a new connection to a different data source.

You can independently create a new DSN by running the ODBC Administrator manually. When launching the ODBC Administrator manually, you need to consider the "bitness" of the installed version of your BI client application as well as the underlying operating system. Creating DSNs for a 64-bit BI application running on a 64-bit version of the Windows operating system is straightforward, as is creating DSNs for a 32-bit client application running on a 32-bit version of Windows. You need be particularly careful to run the ODBC Data Source Administrator tool having the correct bitness when creating DSNs for a 32-bit BI client application running on a 64-bit version of Windows.

Using the Oracle Instant Client ODBC Driver

To create a Data Source Name (DSN) using the Oracle Instant Client:

1. Run the appropriate version of the ODBC Data Source Administrator application. If you are using a 64-bit BI client application running on a 64-bit version of Windows, or if you are using a 32-bit BI client application running on a 32-bit version of Windows, then click the **Start** menu, then click **Control Panel**, then click **Administrative Tools**, and then double-click **Data Sources (ODBC)**

OR

If you are using a 32-bit BI client application running on a 64-bit version of Windows, then run the ODBC Data Source Administrator application found at the path %WINDIR%\SysWOW64\odbcad32.exe

Note: If you create DSNs frequently, then create a shortcut to the 32-bit ODBC Data Source Administrator executable in an easily accessible location, such as on the Desktop. Double-clicking the shortcut allows you to access your 32-bit DSNs quickly.

2. In the ODBC Data Source Administrator, click the User DSN tab, and then click **Add**

OR

Click the System DSN tab, and then click **Add**

Note: A User DSN is available only to the user that creates the DSN. All users can create a User DSN. A System DSN is available to all users of the system. Creating a System DSN requires Administrator privileges on the computer.

3. In the Create New Data Source dialog, if you are creating a DSN for a 32-bit BI client, then select **Oracle in instantclient 11_1**, and then click **Finish**

OR

If you are creating a DSN for a 64-bit BI client, then select **Oracle in instantclient 11_2**, and then click **Finish**

4. In the Oracle ODBC Driver Configuration dialog, type an appropriate name in the Data Source Name field.

Important: To create a connection to the data source in the BI client, you need to provide the value in the Data Source Name field. Ensure that the first and last characters in the Data Source Name field are **not** a space ().

5. In the Description field, type details related to the DSN.
6. Click the drop-down arrow next to the TNS Service Name field, and then select the database service name for the appropriate Oracle 11g server.

Note: If the appropriate Oracle 11g server does not appear in the list, then type the database server name or IP address, the TCP port the database is listening on, and the database System ID in the TNS Service Name field using the form host:port/SID (for example, 192.168.100.101:1521/ORCL or dbhost:1521/ORCL). Ask your Oracle administrator to configure a tnsnames.ora file. For more details, see *TNS Configuration* on page 11.

7. In the User ID field, type your credential for accessing the Oracle database.
8. Click the **Test Connection** button. If the connection succeeds, then click **OK** in the Oracle ODBC Driver Configuration dialog to save the DSN.

OR

If the connection does not succeed, then confirm that the values you provided in the Oracle ODBC Driver Configuration dialog are correct or diagnose the connection with your administrator.

Using the Simba ODBC Driver for Oracle

To create a Data Source Name (DSN) using the Simba ODBC Driver for Oracle:

1. Run the appropriate version of the ODBC Data Source Administrator application. If you are using a 64-bit BI client application running on a 64-bit version of Windows, or if you are using a 32-bit BI client application running on a 32-bit version of Windows, then click the **Start** menu, then click **Control Panel**, then click **Administrative Tools**, and then double-click **Data Sources (ODBC)**

OR

If you are using a 32-bit BI client application running on a 64-bit version of Windows, then run the ODBC Data Source Administrator application found at the path
%WINDIR%\SysWOW64\odbcad32.exe

Note: If you create DSNs frequently, then create a shortcut to the 32-bit ODBC Data Source Administrator executable in an easily accessible location, such as on the Desktop. Double-clicking the shortcut allows you to access your 32-bit DSNs quickly.

2. In the ODBC Data Source Administrator, click the User DSN tab, and then click **Add**

OR

Click the System DSN tab, and then click **Add**

Note: A User DSN is available only to the user that creates the DSN. All users can create a User DSN. A System DSN is available to all users of the system. Creating a System DSN requires Administrator privileges on the computer.

3. In the Create New Data Source dialog, click **Simba Oracle ODBC Driver**, and then click **Finish**
4. In the Simba Oracle ODBC Driver DSN Setup dialog, type a descriptive name in the Data Source field.

Important: To create a connection to the data source in the BI client, you need to provide the value in the Data Source Name field. Ensure that the first and last characters in the Data Source Name field are **not** a space ().

5. In the Host IP field, type the IP address or hostname of the Oracle server.
6. In the Port field, type the listening port for the Oracle server.
7. In the Service Name field, type the name of the database service to use to connect to the Oracle instance.
8. In the Login ID field, type the user name corresponding to your credential for accessing the Oracle database.
9. In the Password field, type the password corresponding to the user name you typed in step 8.

Note: For security reasons, the password you type is not saved in the DSN.

10. To test the connection, click the **Test** button. If the connection fails, then confirm the values you typed in steps 4 to 9 and contact your Oracle database administrator as needed. In the Connection Test dialog, click **OK**
11. In the Simba Oracle ODBC Driver DSN Setup dialog, click **OK**

Note: The Simba ODBC Driver for Oracle does not support using a TNS configuration file.

Configuring the Business Intelligence Client Application

In general, for details on configuring your BI client application to connect to the Oracle OLAP cube using the DSN you created in *Creating a Data Source Name* on page 12, see the documentation provided with your BI client application.

To configure Excel to connect to an Oracle OLAP cube using MDX for Oracle OLAP – ODBO edition:

1. In Excel, select a cell as the top left corner of your pivot table.
2. Click the **Data** tab, then click the **From Other Sources** button in the Get External Data group, and then click **From Data Connection Wizard**
3. In the Data Connection Wizard, click **Other/Advanced**, and then click **Next**
4. In the Data Link Properties dialog, click **MDX for Oracle OLAP – ODBO Edition**, and then click **Next**
5. In the Connection tab, click the drop-down menu next to the **ODBC Data Source Name** field, and then select the appropriate DSN for connecting to the OLAP cube.

Note: If you need to create a DSN, click the **ODBC Admin** button to open the appropriate version of the ODBC Data Source Administrator.

6. In the User Name field, type your user ID for accessing the Oracle database.
7. In the Password field, type the password corresponding to the user ID you typed in step 6.

8. To verify connectivity to the database, click the **Test Connection** button.
9. Click the drop-down arrow next to the **Initial Catalog to Use** field, and then select the desired schema.
10. If you want to display long descriptions for member captions, then see *Setting Descriptions for Member Captions* on page 16.
11. In the Data Link Properties dialog, click **OK**
12. In the Data Connection Wizard dialog that opens, set the **Connect to a Specific Cube** check box as needed.
Note: If you select the check box, then a separate Office Data Connection (ODC) file is created for each cube in a database, reducing prompting for the appropriate cube each time you create or refresh a PivotTable from the database. In you clear the check box, then PivotTables created from different cubes in the same database use a single ODC file.
13. Select the appropriate cube for your PivotTable, and then click **Next**
14. In the Save Data Connection File and Finish dialog, type an appropriate file name for the ODC file in the **File Name** field.
15. Click the **Browse** button, then select the location where you want to save the ODC file, and then click **Save**
16. Select the **Save Password in File** check box.
Note: Saving the password allows you to use the connection without typing your password each time you open the spreadsheet or refresh the connection.
17. In the Description field, type appropriate details related to the connection.
18. Type a unique descriptive name in the **Friendly Name** field.
Note: Do **not** accept the default value in the Friendly Name field. You may create several ODC files in Excel. The value in the Friendly Name field identifies connections when you select a data source.
19. Set the **Always Attempt to Use This File to Refresh Data** check box as needed.
Note: If you clear the check box, then connection information is saved on the Excel Workbook (XLSX) file so that the ODC file is not needed to open the spreadsheet. For example, if you want to share the spreadsheet without providing the ODC file, then clear the check box.
20. To save the ODC file, click **Finish**
21. To save the password for using the connection in the XLSX Workbook file:
 - a) In the Import Data dialog, click the **Properties** button.
 - b) In the Connection Properties dialog, click the **Definition** tab, and then select the **Save Password** check box.
 - c) In the confirmation dialog, click **Yes**
 - d) In the Connection Properties dialog, click **OK**
22. In the Import Data dialog, click **OK**

To view existing connections in Excel:

- Click the **Data** tab, and then click the **Existing Connections** button in the Get External Data group.

Setting Descriptions for Member Captions

By default, MDX for Oracle OLAP – ODBO edition displays short descriptions for member captions. To display names that are more user friendly, you can set MDX for Oracle OLAP – ODBO edition to display long descriptions using an extended property in the connection string that Excel uses when connecting to the data source.

To set descriptions used for member captions in Excel:

1. When configuring Excel to connect to an Oracle OLAP cube, click the **All** tab in the Data Link Properties dialog.
2. In the list of initialization properties, click **Extended Properties**, and then click the **Edit Value** button.
3. In the Edit Property Value dialog, type **membercaptioncolumn=2** in the **Property Value** field to display long descriptions, and then click **OK**

OR

Type **membercaptioncolumn=1** in the Property Value field to display short descriptions, and then click **OK**

Note: If the membercaptioncolumn property is not set, then MDX for Oracle OLAP – ODBO edition displays short descriptions for member captions.

Tuning MDX for Oracle OLAP – ODBO edition

For details on tuning MDX for Oracle OLAP – ODBO edition behavior and performance, see the *MDX for Oracle OLAP Administration Guide*.

Troubleshooting

Logging in MDX for Oracle OLAP – ODBO edition

BI client application error messages can be fairly generic, and often do not contain enough information to troubleshoot problems. To help troubleshoot your issue, you may need to turn on logging in MDX for Oracle OLAP – ODBO edition, and then send the collected file to Technical Support for analysis.

To turn on logging:

1. Ensure that the BI client application using MDX for Oracle OLAP – ODBO edition is not running.
2. Navigate to the folder where you installed MDX for Oracle OLAP – ODBO edition. For example, if you installed the 32-bit version, then the default installation folder is C:\Program Files (x86)\Simba Technologies Inc\MDX for Oracle OLAP – ODBO Edition
3. Double-click the **Logging** subfolder, and then double-click to execute the appropriate registry file:
 - ◆ If you are using a 32-bit version of Windows, then execute Win32_OraMdxLoggingOn.reg
 - ◆ If you are using a 64-bit version of Windows, then execute Win64_OraMdxLoggingOn.reg
4. Restart the BI client application.

The log files are saved using names following the form MDXOracleOLAPLog.*Timestamp*.log

The registry file specifies the location where to save the log file. By default, log files are saved in the directory C:\OracleMDXProviderLogs\. To change the location where log files are saved, edit the registry file using a text editor. Edit the value data of the Path value. Any path you enter will include backslashes. Backslashes are special characters, so you need to escape backslashes using a second backslash. For example, to set the location where to save the log file to the C:\temp directory:

```
"Path"="C:\\temp"
```

Important: You must create the folder where log files are saved. If the folder does not exist, then log files are not saved.

When logging is enabled, repeat the steps that caused the error, and then e-mail the log file to Technical Support.

Important: Turn off logging after the problem is resolved. Logging decreases the performance of MDX for Oracle OLAP – ODBO edition and can use large amounts of disk space.

To turn off logging:

1. Ensure that the BI client application using MDX for Oracle OLAP – ODBO edition is not running.
2. Navigate to the folder where you installed MDX for Oracle OLAP – ODBO edition. For example, if you installed the 32-bit version, then the default installation folder is C:\Program Files (x86)\Simba Technologies Inc\MDX for Oracle OLAP – ODBO Edition
3. Double-click the **Logging** subfolder, and then double-click to execute the appropriate registry file:
 - ◆ If you are using a 32-bit version of Windows, then execute Win32_OraMdxLoggingOff.reg

- ◆ If you are using a 64-bit version of Windows, then execute Win64_OraMdxLoggingOff.reg
4. Restart the BI client application.