

SSIS

**Oracle ODBC Instantclient 11g Install
for County Ad Hoc Query Users**

Reference Document # 143

January 17, 2012

Table of Contents

THIS DOCUMENT	1
OVERVIEW	1
AUDIENCE	1
REQUIREMENTS	1
INSTALLATION SCRIPT HANDLING OF EXISTING ORACLE CLIENTS	1
ORACLE ODBC CLIENT INSTALLATION INSTRUCTIONS FOR WORKSTATION	3
TECHNICAL SUPPORT	9
TROUBLESHOOTING TIPS	10
SSIS HELP LINE	12

This Document

Overview

Oracle Instantclient 11.2g provides an ODBC connection to the county SSIS Oracle 11g database for ad hoc query tools such as Crystal Reports or Microsoft Access.

Oracle Instant Client 11g is the current version, recommended for Windows Vista & Windows 7.

Oracle Instant Client 10g, the previous version, still works fine for Windows XP, even when connecting an Oracle 11g database.

Oracle no longer supports Oracle client versions prior to 9i for use with Oracle 11g.

Audience

County Technical Support staff are the intended audience for this document.

Requirements

Please read the entire document at least once before proceeding with the installation.

If you have problems during the installation, please call the SSIS Help Line at 651-431-4801 between 8-11 a.m. and 1-3 p.m. Monday through Friday.

The procedures described require an understanding of ODBC drivers, your county TCP/IP network environment and user rights to install and configure software.

Important!

1. Obtain the current ODBC query password from the SSIS Help Line.
2. Obtain the SSIS server hostname as used in Config Lite or the server IP address.
3. Install using a CD-R or double-click oracleInst.html when using a USB key from a share.

Installation Script Handling of Existing Oracle Clients

The example installation displays the additional steps used check a workstation for a previous Oracle client. If a previous install does not exist, the doc jumps to the install of Instantclient.

For workers who only access the SSIS county server with ODBC, the tnsnames.ora file created during the installation is complete as is.

For workers who access more than one Oracle database, the script opens existing tnsnames.ora file in Notepad. Save the tnsnames file to another location to copy the tnsnames entries to the new tnsnames file. Make a System DSN for each entry. The Instantclient should work for each of the ODBC connections.

Installing Instantclient over previous Oracle clients usually requires additional troubleshooting.

Perform these Steps on the County SSIS Server.

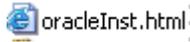
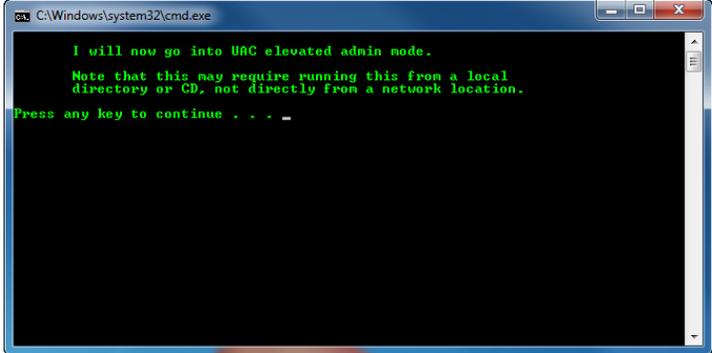
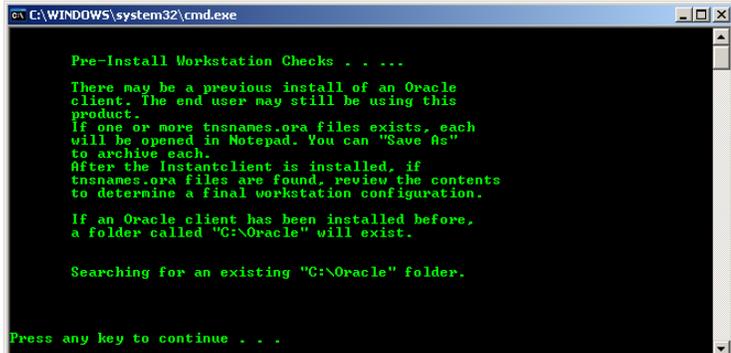
1. Burn an OracleIC 11g Install CD

- a. Double-click the **Oracle ODBC Install CD-R** icon on the desktop of the county SSIS server.
- b. Insert a blank CD-R into the CD burner.

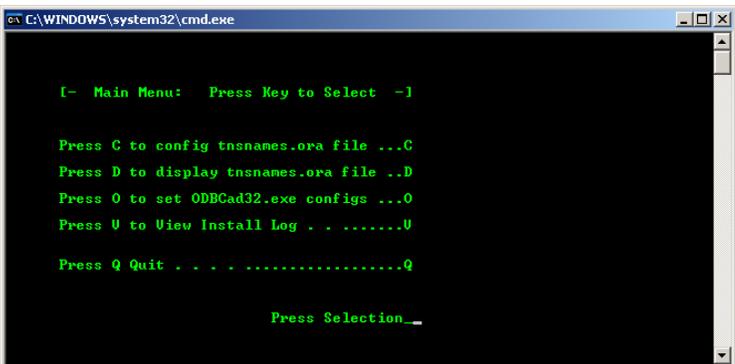
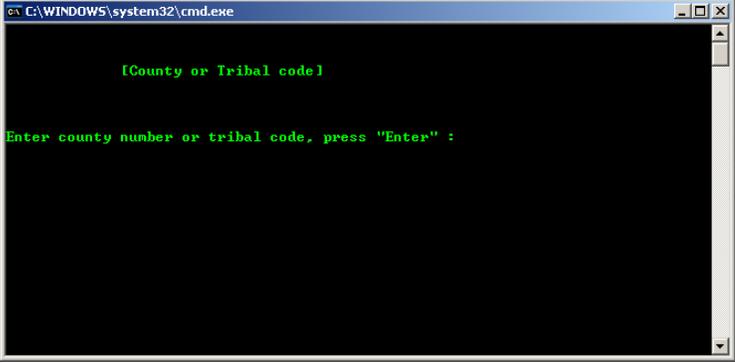
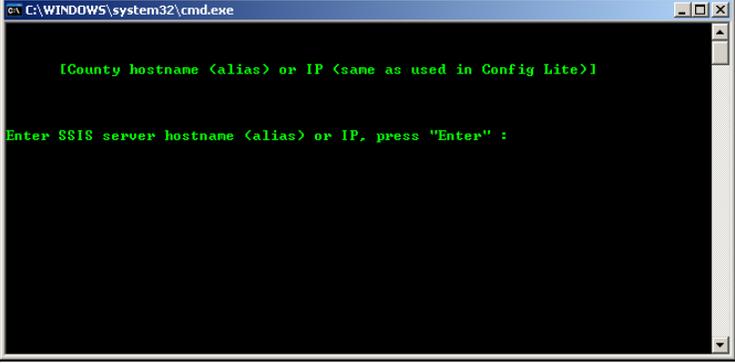
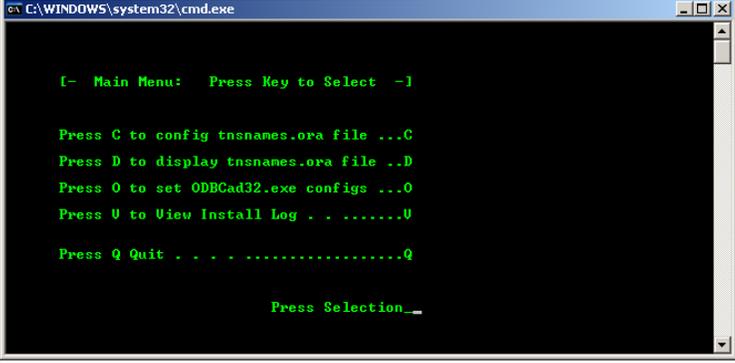


- c. Wait for the command line screen to burn the CD..

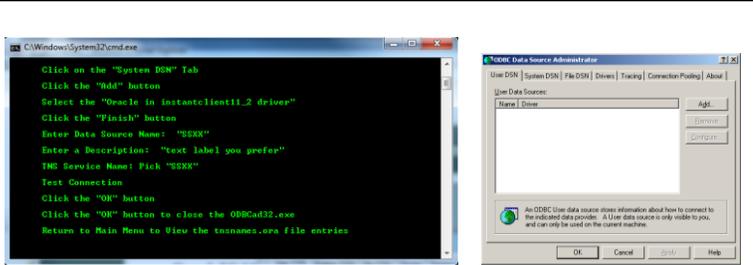
Oracle ODBC Client Installation Instructions for Workstation

<p>1a. Run the OracleIC 11g installation CD on the user's workstation.</p> <p>Note: If the CD does not autorun, right-click the CD in Explorer and select AutoPlay. Or double-click the file oracleInst.html on the CD.</p>  <p>1b. Click the Start Installation link.</p>	
<p>1c. Click the Run button.</p> <p>Note: This dialog box may not display. Local workstation security settings determine this behavior.</p>	
<p>1d. If you are running on Windows Vista or later, the script will make sure it is running with full UAC administrative rights.</p> <p>“Press any key to continue...”</p> <p>If get a User Account Control message box, go ahead and enter admin mode.</p>	
<p>1e. Before installing Instantclient, the workstation is checked for an existing Oracle install to avoid overwriting an existing tnsnames.ora file and losing the entries.</p> <p>“Press any key to continue...”</p>	

<p>1f. If a C:\Oracle folder is <u>not</u> found, press any key to continue.</p> <p>The window at step 2c. will display.</p> <p>If a C:\Oracle folder is found, continue at step 2a.</p>	
<p>2a. The folder “C:\Oracle” has been found.</p> <p>“Press any key to continue” will initiate a search of C:\Oracle and subfolders.</p> <p>Note: If tnsnames.ora files are found, each is opened in Notepad. Do a “Save As” to the desktop. The tnsnames entries can be examined later to determine if still in use or no longer needed.</p>	
<p>2b. The screenshot is a demo of a tnsnames.ora file found at the path shown. Notepad opened this file. Do a “Save As” to another location such as the Desktop so the entries of the file can be referenced later in the Instantclient install. After saving the file, “Press any key to continue . . .”</p>	
<p>2c. If you are running the installation on 64-bit Windows, the installation will ask whether you want to install the 32-bit or 64-bit ODBC driver. You should pick whichever matches your application (e.g. Access), which may be 32-bit even if you are on Windows 64-bit.</p> <p>If in doubt, press 3 or 32 bit.</p>	

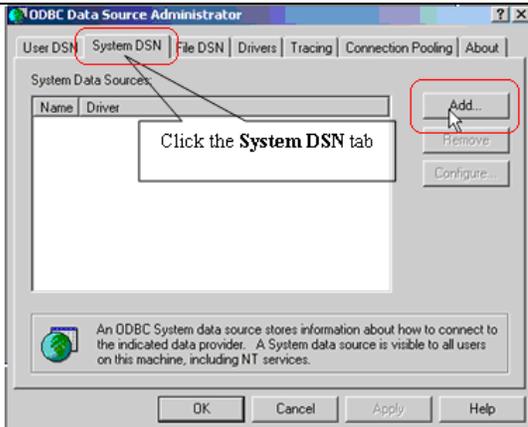
<p>3a. The Main Menu has four options and the Quit command. After each option you are returned to the Main Menu to select another option or Quit.</p> <p>To configure Instantclient for your county or tribe, press “C”.</p>	
<p>3b. Enter your county or tribal code number and press “Enter.”</p> <p>Note: This entry becomes the SID name used in the tnsnames.ora file.</p>	
<p>3c. Enter the county or tribe SSIS server hostname (the alias) or the IP address, press “Enter.”</p> <p>Note: This entry is the same network addressing used during an SSIS client install to point Config Lite to the SSIS server.</p>	
<p>3d. Select “O” to open the OCBC Data Source Administrator (ODBCad32.exe).</p> <p>Note: If you already have the ODBC control panel open, please close it now so that the script can be sure to start the correct control panel (32-bit or 64-bit on 64-bit Windows)</p>	

Note: Two windows open, one on top of the other.
 The text window is a brief checklist of steps 3e. through 3n. to have the steps display on the monitor rather than reading the doc. This is helpful if installing on multiple workstations.



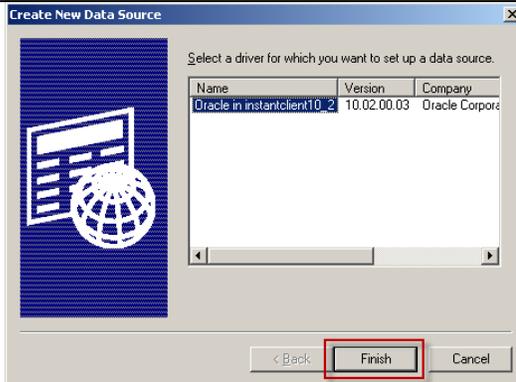
3e. Click the **System DSN** tab.

3f. Click the **Add** button.



3g. If not highlighted, click on **Oracle in instantclient11_2** to highlight it.

Click the **Finish** button.



3h. Complete the following fields:

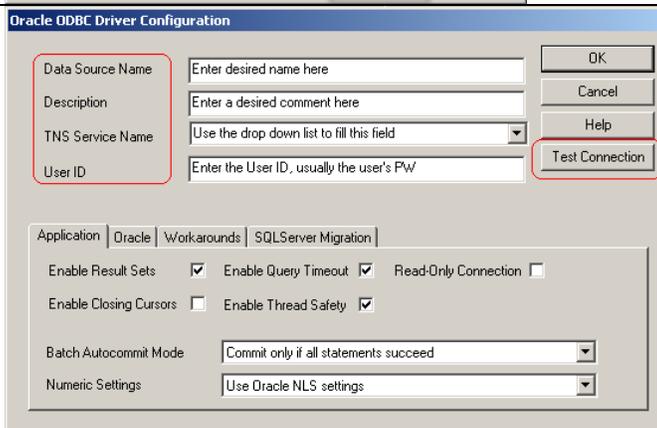
Date Source Name: Named by user

Description: Comment by user

TNS Service Name: Use drop-down list; select your TNS Service Name.

User ID: Enter user's User ID.

3i. Click the **Test Connection** button.



3j. Have the user enter the password.

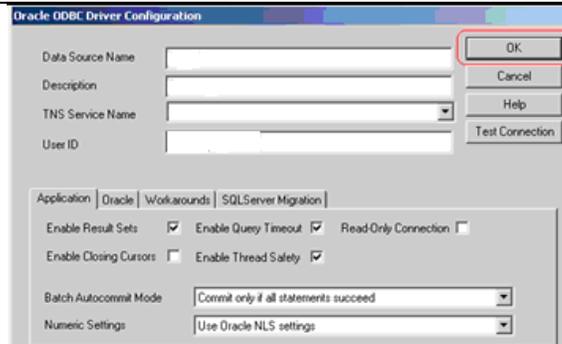
3k. Click the **OK** button.



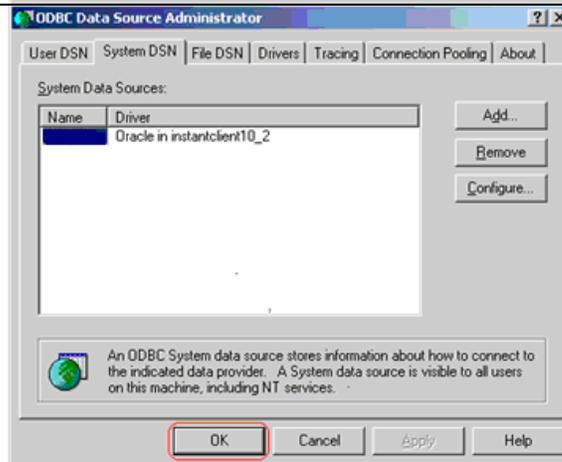
3l. Click the **OK** button.



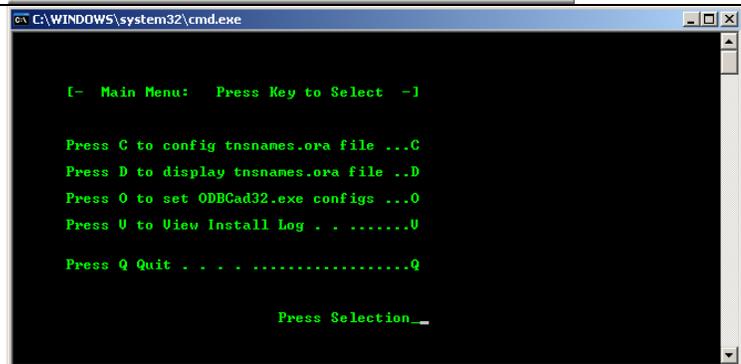
3m. Click the **OK** button.



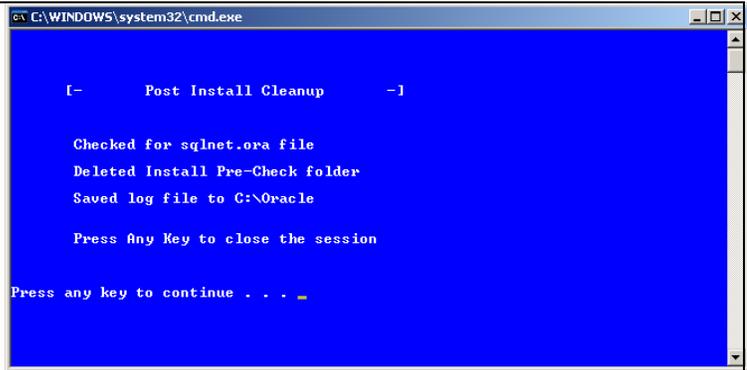
3n. Click the **OK** button to close the pane and return to the Main Menu.



3o. Select **Q** to quit the install and configuration.



3p. The Post Install Cleanup checked for the listed items and displays this window. If any other window displays, the SSIS Help Line number is included. You can call or use the following troubleshooting documentation to resolve the issue. Press any key to close the window.

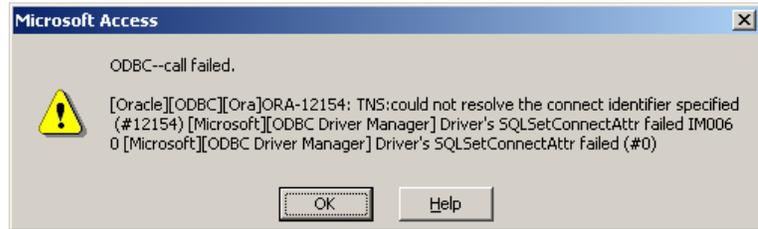


3p. Restart the workstation **before** using your ad hoc query tools.

Please RESTART the workstation.

Technical Support

If you receive this error when trying to use the ad hoc query tool, was the workstation restarted after completing the configuration and before the ad hoc query tool was used?



Verify the following items of the workstation configuration for adoptions.

If you are unable to connect to the Oracle database:

- a. If an alias or hostname is used for the SSIS server, check that the alias exists in either the workstation hosts file or on a DNS server which can be accessed by the workstation.
- b. Verify the tnsnames.ora file contains the correct information.
Open the tnsnames.ora file in Notepad; follow the examples below.
Edit as necessary in Notepad and save.

C:\Oracle\Instantclient_11_2\tnsnames.ora

tnsnames.ora Example, XX is the county number, for Hostname use hostname or IP

```
# tnsnames.ora Network Config File: C:\oracle\instantclient_11_2\tnsnames.ora

SSXX.WORLD =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP) (Hostname) (PORT = 1521))
    )
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SID = SSXX)
    )
  )
)
```

Troubleshooting Tips

A quick list of what can be used to troubleshoot the Instantclient

IPconfig /All

- Displays the IP config of the workstation.

Ping

- When using an alias, displays IP the alias has been resolved to
- Determines if IP address is reachable
- Displays round trip in milliseconds.

Tracert

- Displays how far the path is successful, listing the hops
- When using an alias, it displays the IP the alias has been resolved to.

NSLOOKUP

- Verifies DNS resolution to the expected IP address

Sqlnet.ora File

Check that the file “sqlplus.ora” is at C:\Oracle\instantclient_11_2\sqlnet.ora.

Tnsnames.ora File

Check that the file “tnsnames.ora” is at C:\Oracle\instantclient_11_2\tnsnames.ora.

Check that the tnames entries are correct.

System Variables

Path

Check that the system variable called Path has C:\Oracle\instantclient_11_2 appended to it.

TNS_ADMIN

Check that the system variable TNS_ADMIN exists and is set to C:\Oracle\instantclient_11_2.

Installation Log File

The installation log file located at C:\Oracle\instantclient_11_2\ **OracleInstantClientInstall.log**.

File List of What Should be Installed in Instantclient Folder

In the C:\Oracle folder, the file “sqlnet.ora” and the folder “Instantclient_11_2” must exist. The file “OracleInstantClientInstall.log” is not required for the Instantclient to function but this file should exist if the installation ran completely.

These files must be in the folder C:\Oracle\Instantclient_11_2:

Name	Size	Type	Date Modified
classes12.jar	1,563 KB	PowerArchiver JAR ...	10/02/2006 11:36 PM
oci.dll	344 KB	Application Extension	11/16/2006 4:04 PM
ocijdbc10.dll	76 KB	Application Extension	10/10/2006 2:39 PM
ociw32.dll	18 KB	Application Extension	11/16/2006 3:12 PM
ODBC_IC_Readme_Win.html	22 KB	HTML Document	06/15/2006 11:03 PM
odbc_install.exe	40 KB	Application	11/16/2006 4:20 PM
odbc_uninstall.exe	40 KB	Application	11/16/2006 4:20 PM
ODBCReInotesJA.htm	92 KB	HTML Document	10/31/2003 12:00 PM
ODBCReInotesUS.htm	59 KB	HTML Document	06/15/2006 11:03 PM
ojdbc14.jar	1,510 KB	PowerArchiver JAR ...	10/02/2006 11:36 PM
orannzsb10.dll	1,068 KB	Application Extension	10/10/2006 7:48 AM
oraocci10.dll	760 KB	Application Extension	11/16/2006 4:11 PM
oraociei10.dll	89,156 KB	Application Extension	11/16/2006 4:08 PM
sqlnet.ora	1 KB	ORA File	11/25/2008 12:37 PM
sqora32.dll	520 KB	Application Extension	11/16/2006 4:58 PM
sqora.chm	211 KB	Compiled HTML Help...	03/12/2004 1:52 PM
sqoraja.chm	200 KB	Compiled HTML Help...	09/22/2005 9:06 PM
sqoras32.dll	156 KB	Application Extension	11/16/2006 4:58 PM
sqresja.dll	32 KB	Application Extension	09/22/2005 9:06 PM
sqresus.dll	19 KB	Application Extension	11/16/2006 4:58 PM
tnsnames.ora	1 KB	ORA File	02/20/2009 10:27 AM

Connection Test Error: ORA-12705: Cannot access NLS data files or invalid environment specified
-- Contributed by Allen Hahn, St. Louis Co.

http://www.dba-oracle.com/t_ora_12705_resolution.htm

The ORA-12705 error is indeed controlled by NLS_LANG, and the ORA-12705 commonly happens when Oracle does an automatic "alter session" at login time and discovers an invalid NLS_LANG setting. The Oracle documentation notes are not very helpful:
ORA-12705: "invalid or unknown NLS parameter value specified"

Cause:

There are two possible causes:

- An attempt was made to issue an ALTER SESSION statement with an invalid NLS parameter or value.
- The NLS_LANG environment variable contains an invalid language, territory, or character set.

Action:

Check the syntax of the ALTER SESSION command and the NLS parameter, correct the syntax and retry the statement, or specify correct values in the NLS_LANG environment variable. Oracle also says that the ORA-12705 can happen under these conditions and MetaLink has resolutions for these ORA-12705 conditions:

1. ORA-12705 with incorrect NLS_LANG parameter
2. ORA-12705 with incorrectly specified ORA_NLSx
3. ORA-12705 from incorrect Oracle install or configuration
4. ORA-12705 when using Special Character sets
5. ORA-12705 when connecting with SQL*Net
6. ORA-12705 during migrations
7. ORA-12705 when connecting with SQL*Plus
8. ORA-12705 when connecting with language pre-compilers
9. ORA-12705 during Export/Import

For ORA-12705 errors caused by invalid NLS_LANG settings, you need to verify that it is "unset" at the system-level:

Windows - The NLS_LANG must be unset in the Windows registry (re-named is best). Look for the NLS_LANG subkey in the registry at \HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE, and rename it.

SSIS Help Line

If you need further assistance, call the SSIS Help Line at 651-431-4801, 8-11 a.m. or 1-3 p.m.