

**Oracle Business Intelligence 10g
Installation, Configuration
And
EUL Migration**

Version	Status	When	Who	Why

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PS: Following step(Noetix Upgrade) may ignore if you are not using Noetix views or not upgrading Noetix views.

Noetix Upgrade

NoetixViews required to be upgraded from current version 5.2 to latest version, 5.4, before upgrading discoverer 4i to 10g . [Note: If you do not have Noetix, then please skip this step, to proceed with remainder steps]

For the complete details, please refer to the following document (**Upgrade Noetix 5.4.doc**), attached below.

Note: Take a cold or/and hot or/and export backup before going for upgrade.

Application Patches

Following Application patches applied on specified environments, before installing Oracle Business Intelligence 10g

Patch	Description
3440628	STANDARD PATCH CONTAINING AD UTILS FOR DISCOVERER 10G MIGRATION
4544723	ONE OFF/BACKPORT REQUEST FOR BUG 4436246 to owf.g rollup 7
5213735	ATG1159RBINST:RB1159:ADWORKER FAILED FOR MULTI-LINGUAL TABLES
5379284	CPUJULY2006:1158LINUX:JTF:JTF_UM_USERTYPE_CREDENTIALS API ERRORING IN REGISTRATI

PS: Discuss with your DBAs on this Patch application.

Oracle BI 10g Installation and Configuration

This document explains installation and configuration steps required for Oracle Business Intelligence 10g and its integration with Oracle E-Business 11i

Section 1: Pre-Install Tasks

Locate file oraInst.loc in /etc directory. File /etc/oraInst.loc should drive the location of the Oracle Inventory.

/etc/oraInst.loc should point to the new directory .

eg : on UAT3 it should be /u01/uat3/install/disco10g/oraInventory.

Step 2:

Prepare a stage area for (installation dump)CDs

/mainstage/software/10g/Disk1

Step 3:

Check for ENV variable

Ex: /mainstage/software/10g/Disk1> env |grep ENV

If ENV variable is set, Need to unset this variable.

Ex: unset ENV

Step 4:

Run the 'rootpre.sh' see below...

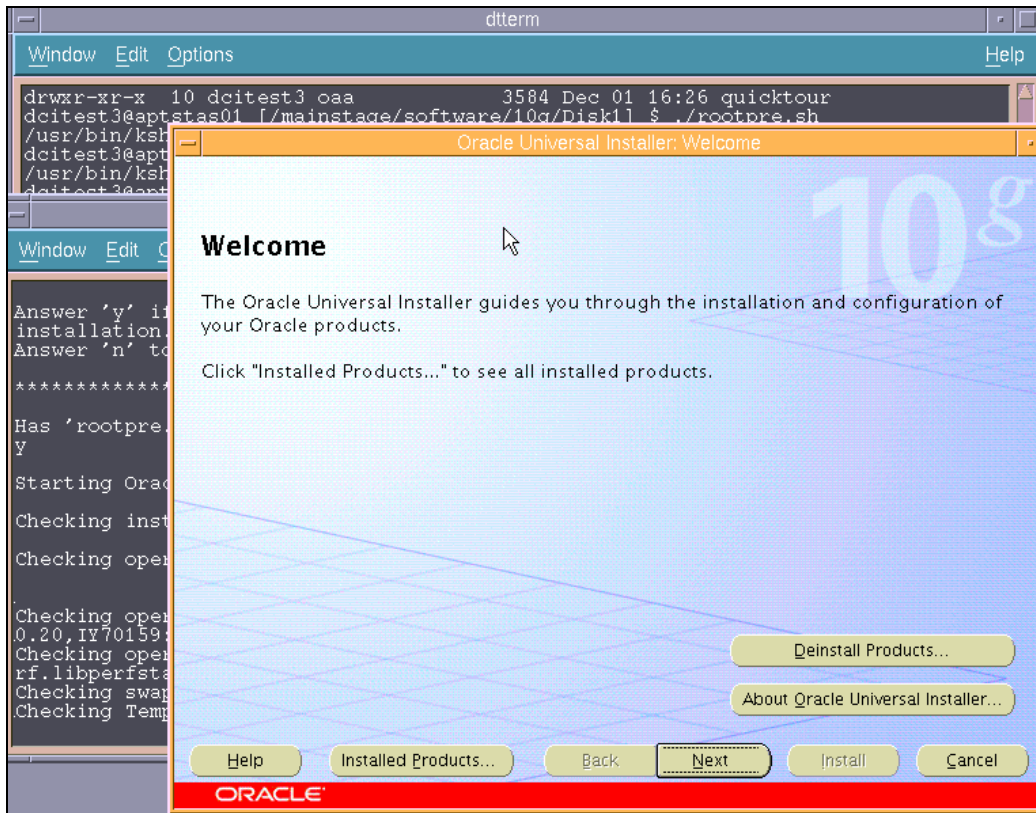
/mainstage/software/10g/Disk1/rootpre
>rootpre.sh

Section 2: Invoke Installer

/mainstage/software/10g/Disk1
>runInstaller

This will prompt for 'rootpre.sh' run.

say: .Has 'rootpre.sh' been run by root ? y



click on 'Next' on the screen appears as shown above.

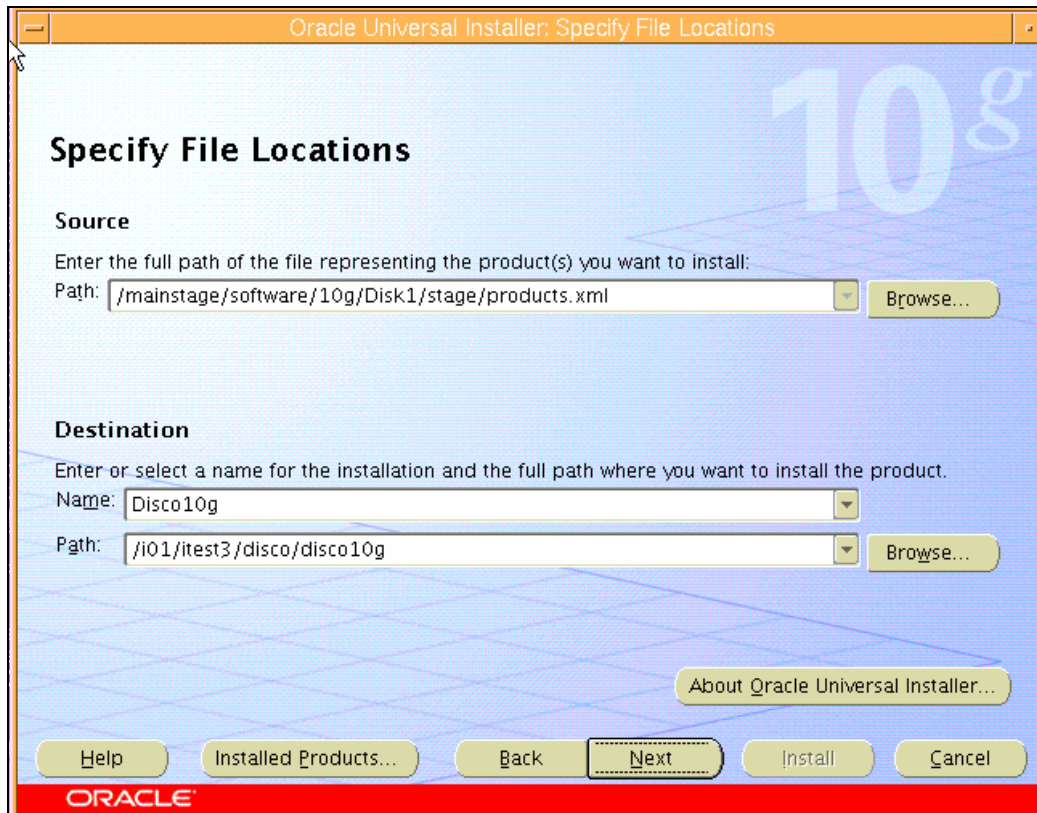
Section 3: Create <ORACLE_HOME>

Enter a name for the installation and full path for the product installation.

Ex:

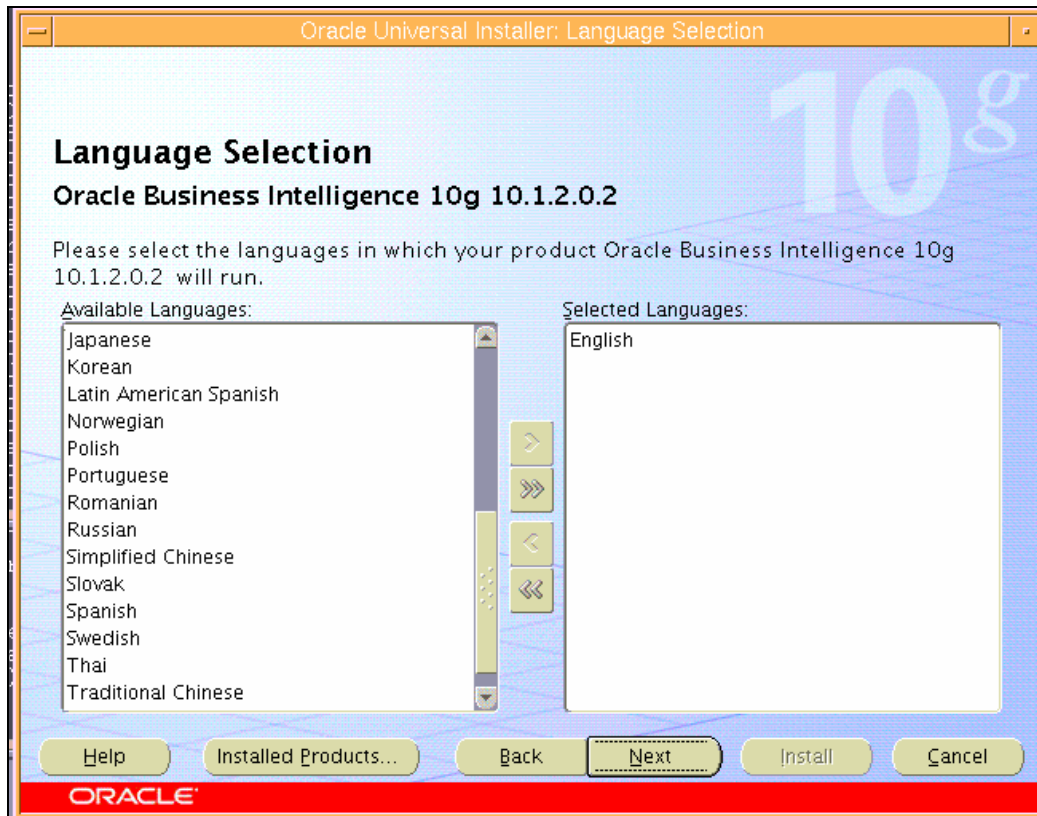
Name: Disco10g

Path: /i01/itest3/disco/disco10g



Section 4: Language Selection

Proceed with the default language (English) selection as show in the screen below.



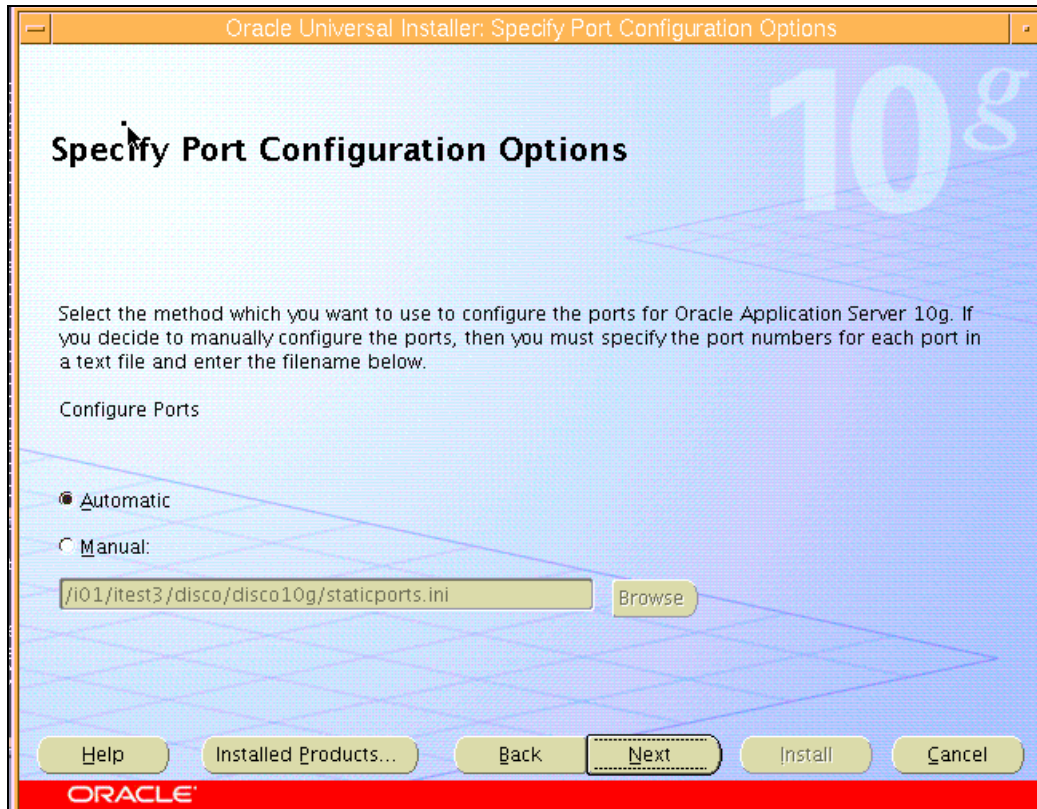
Section 5: Specify Port Configuration Options

Proceed with default (Automatic) selection as shown in below.

To provide custom port numbers to the components, follow the steps below.

Note: Following step is recommended, if you are installing multiple instances in a single host.

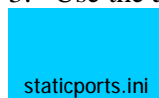
Keep all the components of different instances up and running, so that installer assigns new port numbers (in case you don't provide your custom port number in 'staticports.in' file)



Using Custom Port Numbers

Follow the steps described below to assign custom port numbers for components.

1. Create a file containing the component names/services and port numbers.
2. Name the file as "staticports.ini"
3. Use the attached "staticports.ini" file as template for this.



4. Edit the local copy of the above file to include the desired port numbers and leave the remaining components as it is.

Ex:

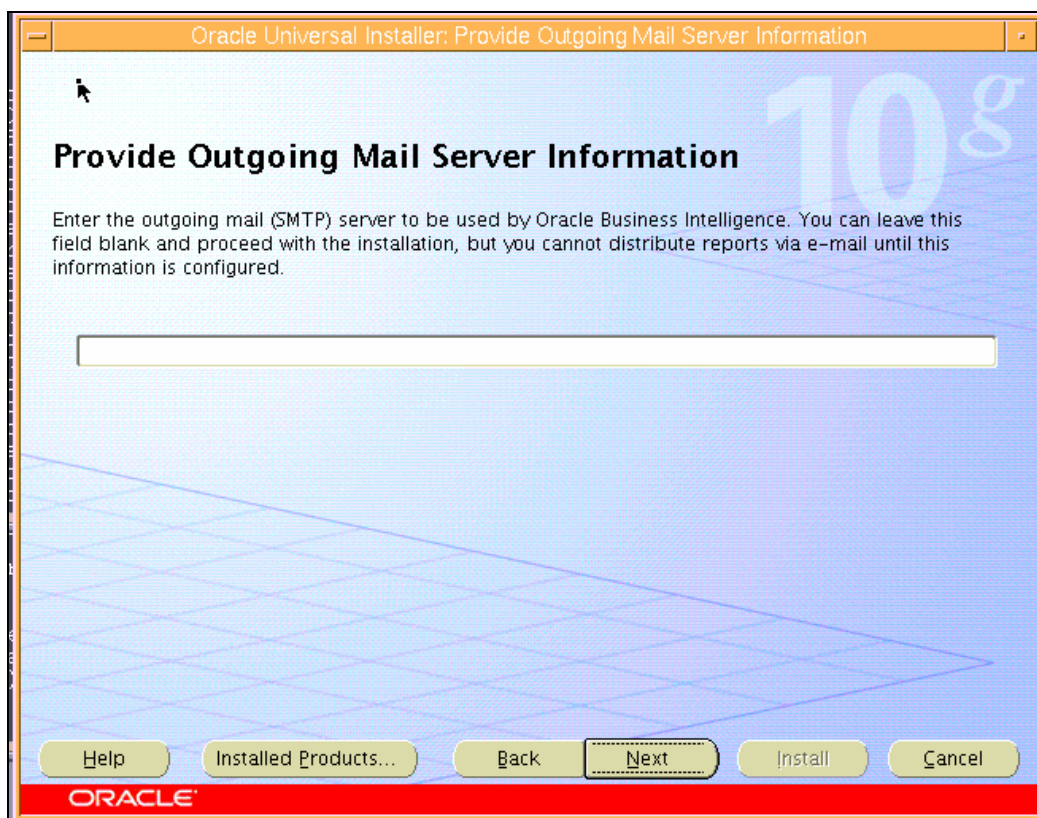
Oracle HTTP Server port = 17380
Oracle HTTP Server Listen port = 17380
Discoverer Preference port = 17381

Note: While configuring HTTP Server(as shown above, use the same port for Port and Listen)

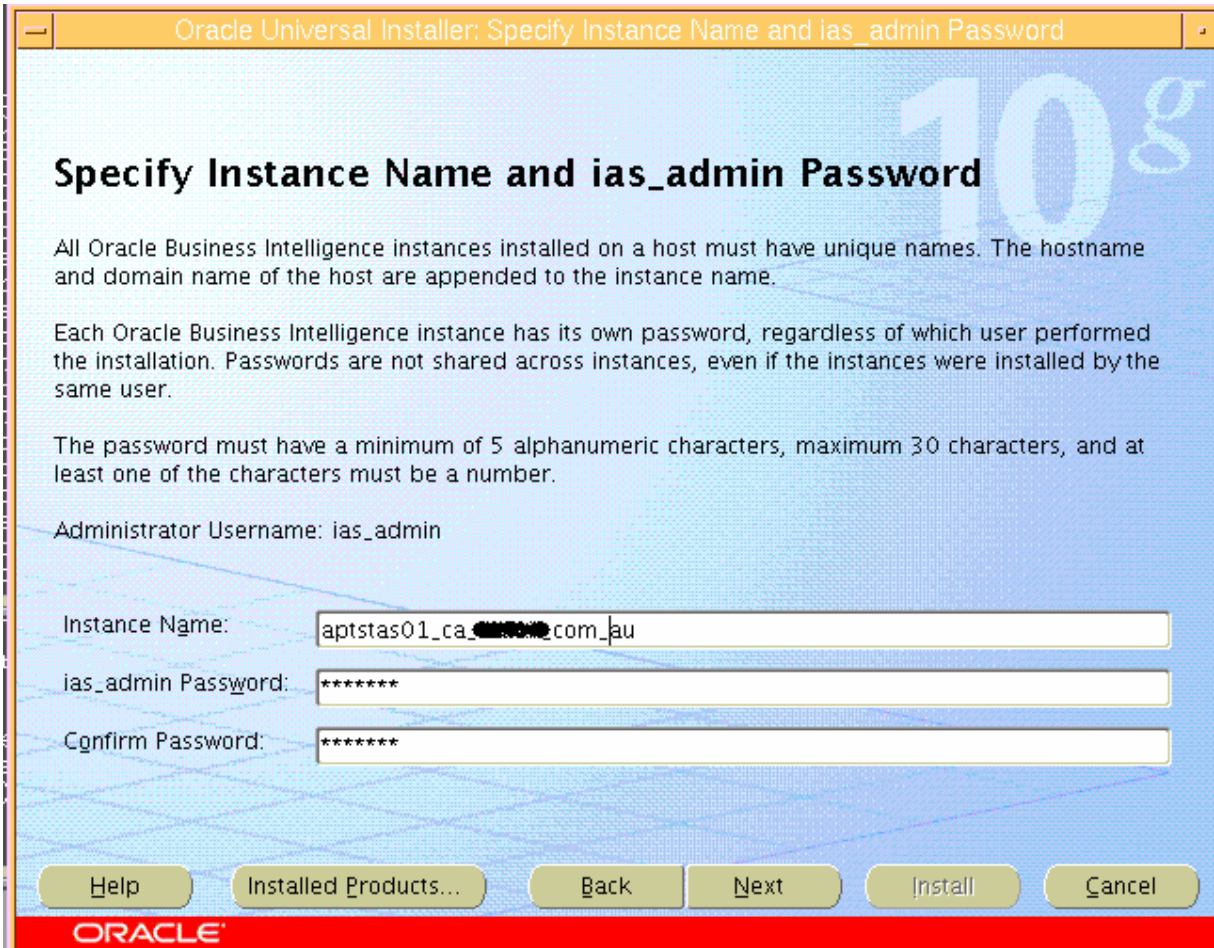
5. After editing the “staticports.txt” file to include above parameters, save it as “staticports.ini” move the file to desired location.
Ex: /i01/itest3/disco/disco10g/ staticports.ini
6. While installing, on the “Specify port Configuration options” screen, select “Manual “and enter the full path to the staticports.ini file.

Section 6: Mail Server Information

Specify your SMTP server to be used for mailing reports from Oracle Business Intelligence.

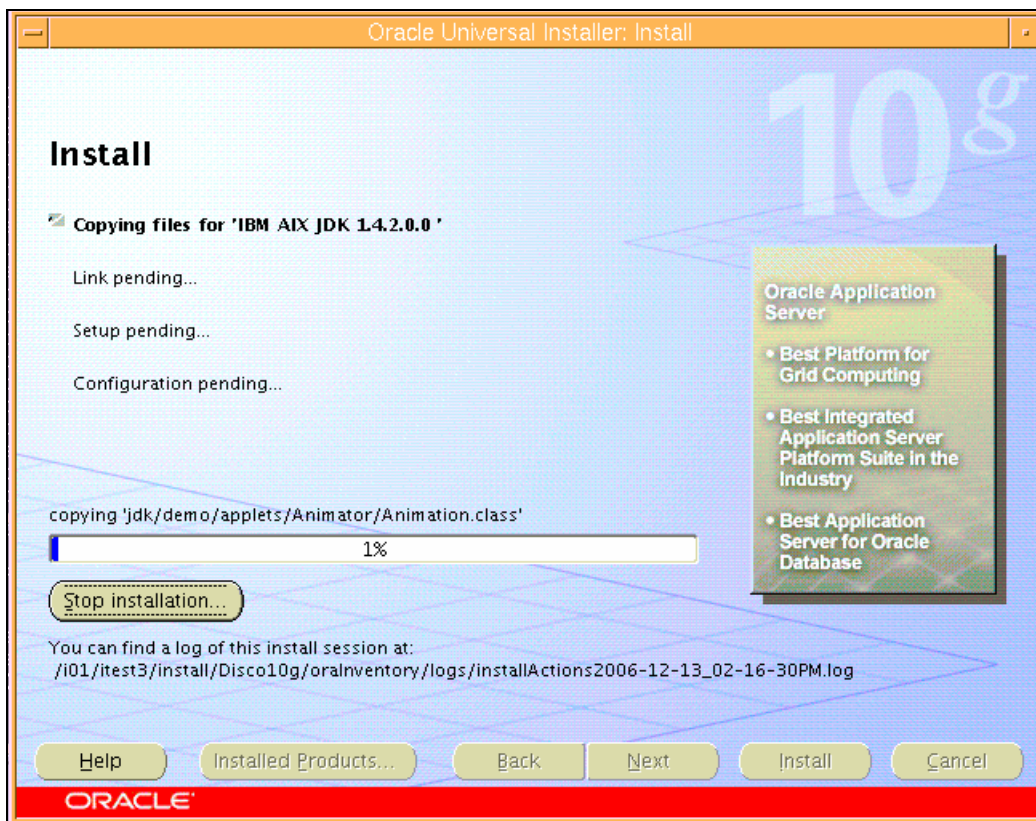
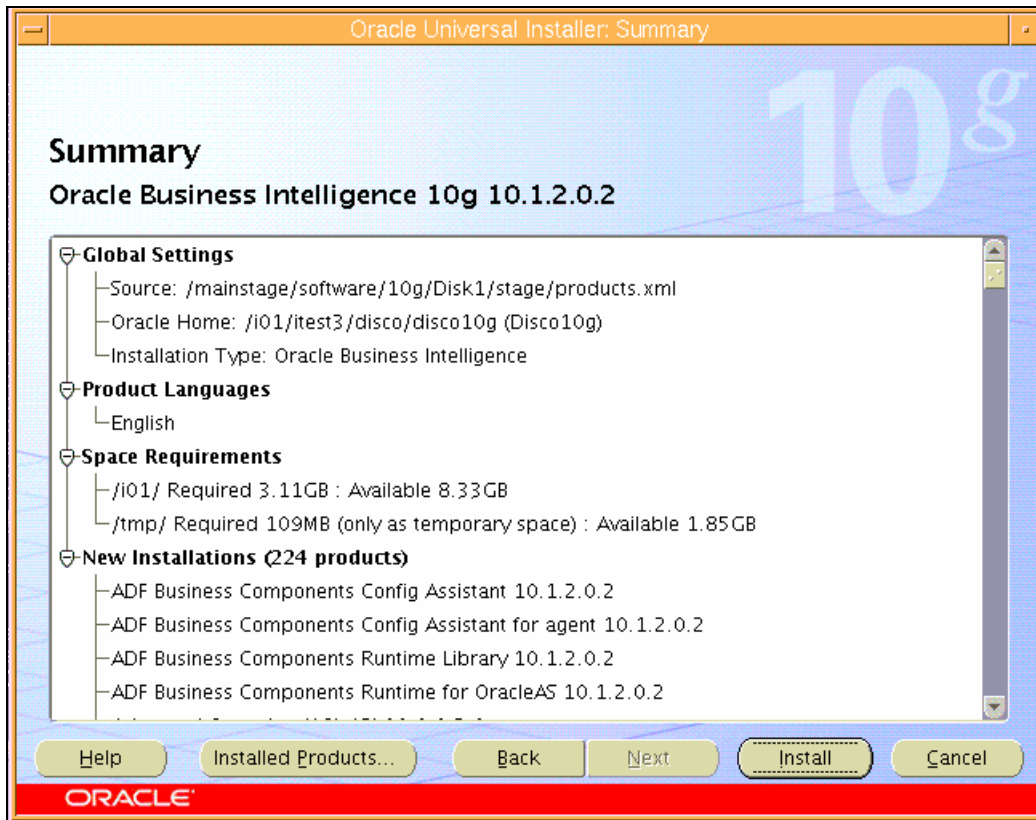


Section 6: Instance Name and ias_admin password



The screenshot shows a window titled "Oracle Universal Installer: Specify Instance Name and ias_admin Password". The window has a blue background with a large "10g" logo in the top right corner. The main heading is "Specify Instance Name and ias_admin Password". Below the heading, there are three paragraphs of text: "All Oracle Business Intelligence instances installed on a host must have unique names. The hostname and domain name of the host are appended to the instance name.", "Each Oracle Business Intelligence instance has its own password, regardless of which user performed the installation. Passwords are not shared across instances, even if the instances were installed by the same user.", and "The password must have a minimum of 5 alphanumeric characters, maximum 30 characters, and at least one of the characters must be a number." Below the text, it says "Administrator Username: ias_admin". There are three input fields: "Instance Name:" with the value "aptstas01_ca_...com_au", "ias_admin Password:" with "*****", and "Confirm Password:" with "*****". At the bottom, there are five buttons: "Help", "Installed Products...", "Back", "Next", and "Install", followed by a "Cancel" button. The Oracle logo is at the bottom left.

ias_admin pwd: xxChangemeWelcome01

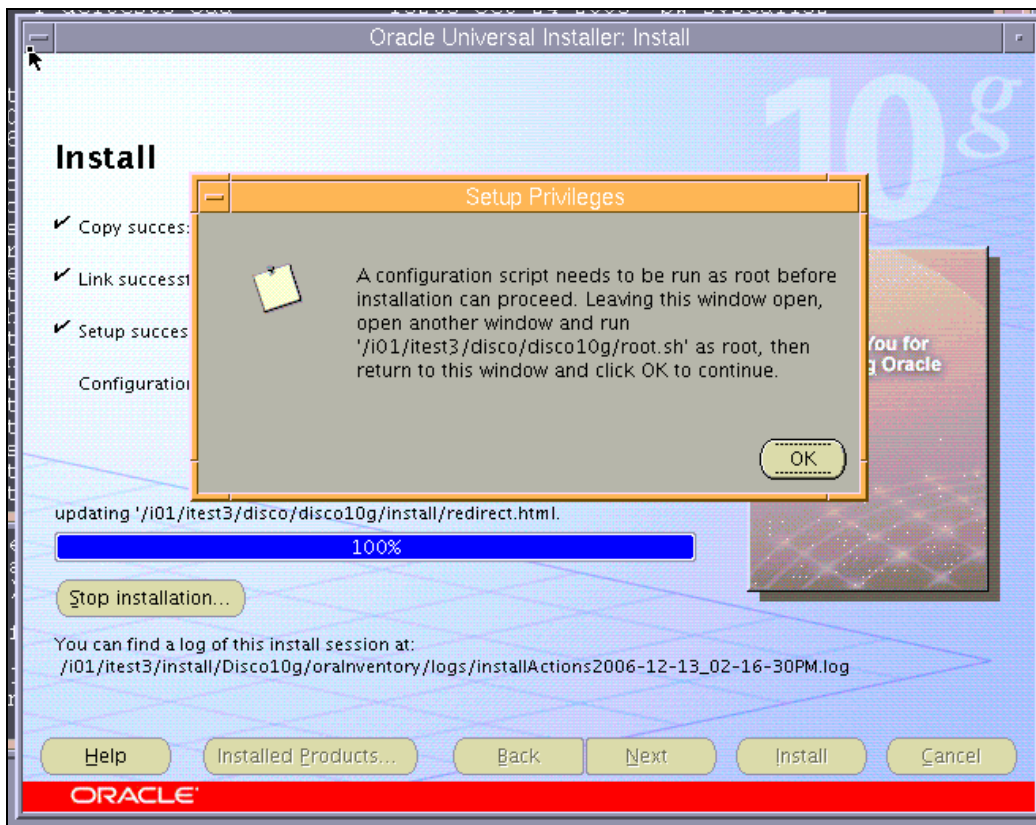


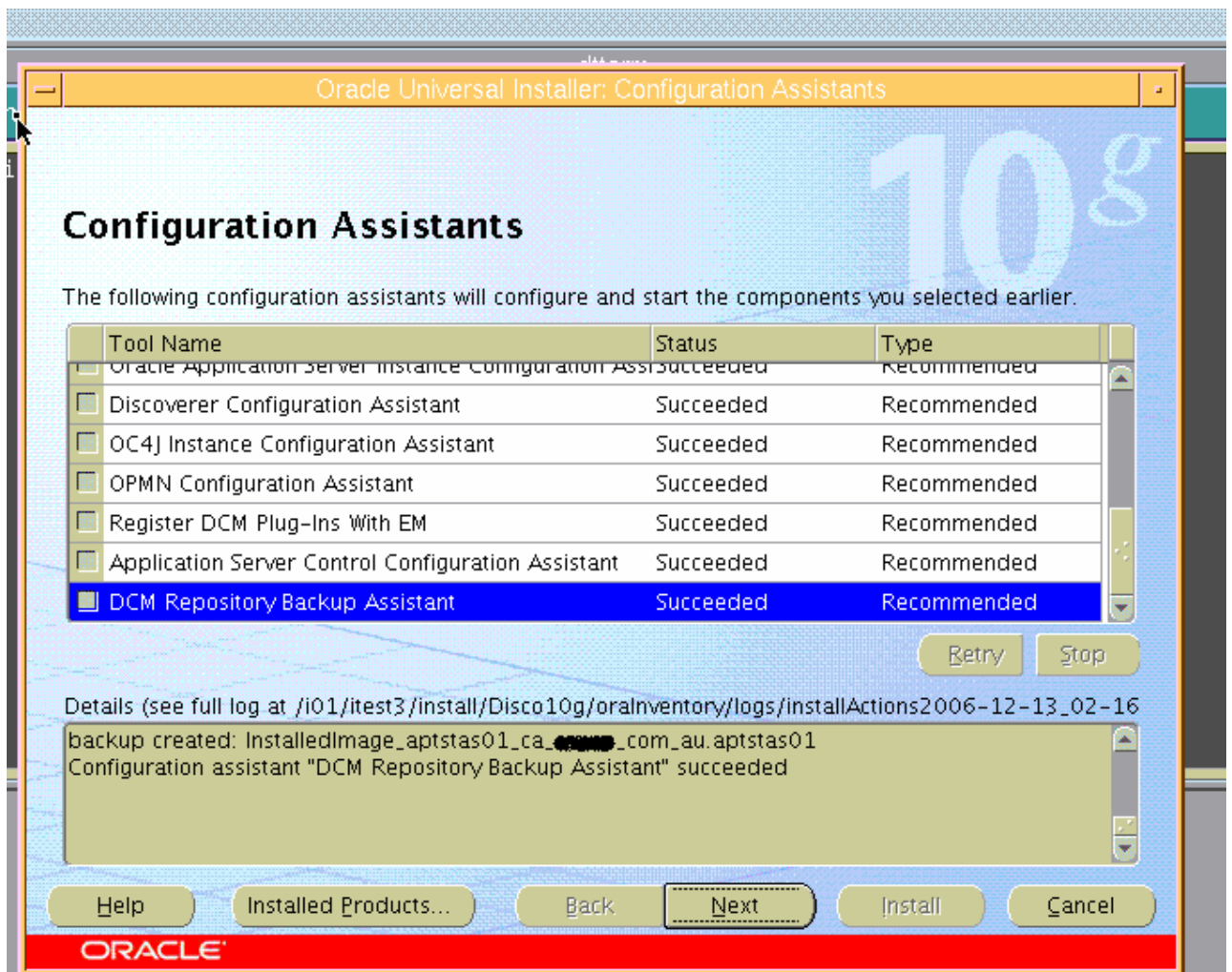
Section 7: Run Configuration Script

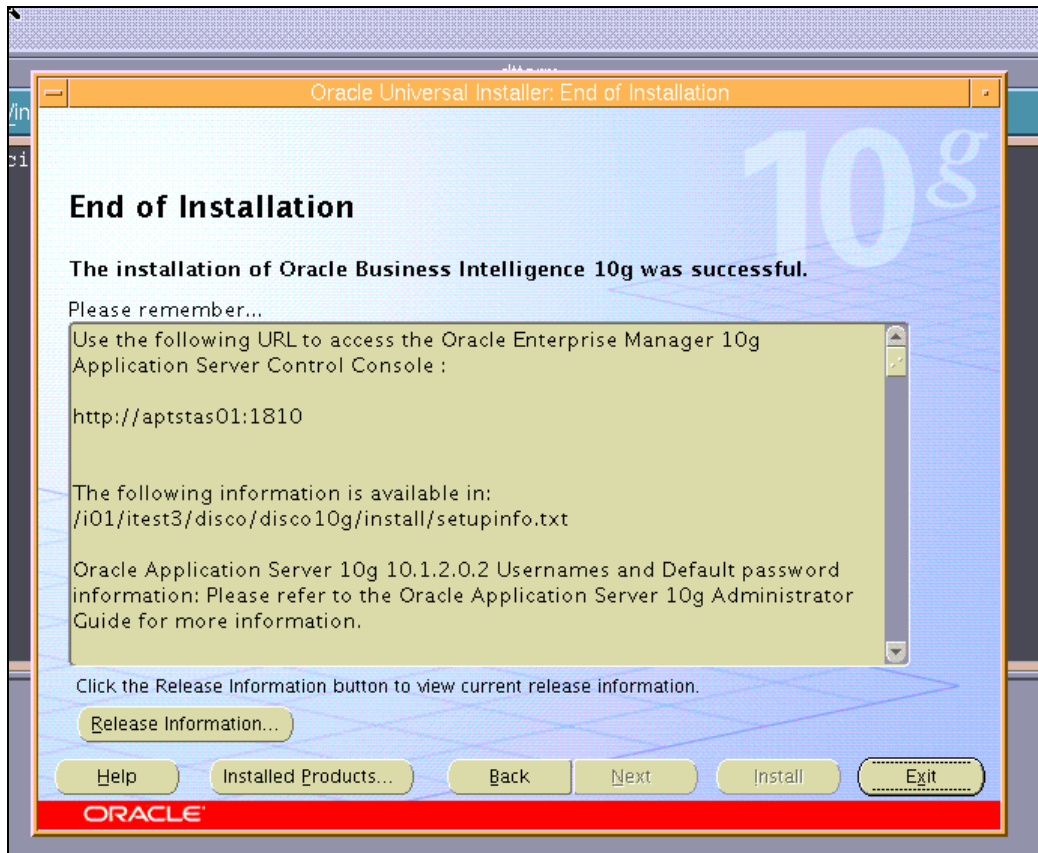
Open a separate Unix session as root, go to <ORACLE_HOME> and run configuration script.

Ex: <ORACLE_HOME>root.sh

See the attached screenshot for more information.







Configuration with E-Business 11i

Note: Oracle Home for this installation; <ORACLE_HOME> is
/i01/itest3/disco/disco10g

Section 8: Copy DBC file from FND_TOP

Copy the DBC file from FND_TOP, which is 11i Apps environment to the 'secure' folder created under) Oracle Business Intelligence 10g home/discoverer.

Log in as Oracle BI 10g Unix account (say.dcitest3).

Ex:

```
Create a directory with name 'secure'  
$ORACLE_HOME/discoverer> mkdir secure
```

Now copy 'hostname_sid.dbc' file from FND_TOP/secure of application tier

```
Ex: FND_TOP/secure > cp -rp aptstas01_itest3.dbc  
<ORACLE_HOME>/discoverer/secure
```

Section 9: Change ServerName to ServerName.DomainName

Change ServerName to ServerName.DomainName in “httpd.conf” under
<ORACLE_HOME>/Apache/Apache/conf

Ex:

Create a directory with name ‘secure’

<ORACLE_HOME>/Apache/Apache/conf > vi httpd.conf

change the **servername aptstas01.ca.xxcompany.com.au**

Section 10: Change Owner and group for the dbc file

Change the owner :group to dcitetst3:aaa

Ex: chown dcitetst3:aaa aptstas01_itest3.dbc

Section 11: Create TNS entries for itest3

Include the tnsnames entry to connect to Oracle E-Business 11i database.

For this copy tns entry of ITEST3 from tnsnames.ora from application tier
(oracle 11i) and place this under Oracle Business Intelligence 10g

Ex:

Copy TNS entry for itest3 from <11iTNS_ADMIN> to discoverer’s

<ORACLE_HOME>/network/admin/tnsnames.ora

Section 12: Configure JInitiator

Specify Java Virtual Machine for Discoverer Plus, On the Oracle Business
Intelligence 10g file system.

Step1. Open the file <ORACLE_HOME>/discoverer/config/configuration.xml

Step2: vi configuration.xml

Step3: Find the line with the tag “plugin”

Step 4: If you find plugin=”sun”, change this to plugin=”jinitiator” and save it

Section 13: Set Profile for Discoverer 10g

Note: Take a backup for the file hostname_sid.xml, before making changes.

change the hostname_sid.xml file under \$APPL_TOP/admin

ex: vi \$APPL_TOP/admin/aptstas01_itest3.xml

Specify variables as listed in the table below:

Title	Variable Name	Value
Configure standalone discoverer	s_disco_standalone	True
Discoverer machine name	s_disco_machine	<machine.domain> ex: aptstas01.ca.xxcompany.com.au
Discoverer port	s_disco_port	<port number> ex: 7778
Discoverer protocol	s_disco_protocol	http https ex: http
Disco Version Comma	s_disco_ver_comma	10,1,2
Discovery EUL prefix	s_disco_eul_prefix	EUL

The above changes will be saved in your Applications Context File
<APPL_TOP>/admin/<database SID>.xml.

ex: vi \$APPL_TOP/admin/aptstas01_itest3.xml

Section 14: Run AutoConfig

Run AutoConfig to generate all configuration files for the APPL_TOP and the ORACLE_HOMEs in its supporting technology stack:

% <COMMON_TOP>/admin/scripts/<CONTEXT_NAME>/adautocfg.sh

ex: \$COMMON_TOP/admin/scripts/ITEST3_aptstas01/adautocfg.sh

Section 15: Verify Applications profile options in Oracle Applications

Note: Before changing the following profiles, please take a backup for each profile and value.

Log into Release 11i with the System Administrator responsibility

Navigate to the Profile > System form

Query the %Discoverer% profile options.

Verify the following ICX profile options in Oracle Applications:

Profile	Value
ICX_DISCOVERER_LAUNCHER	http://<HTTP Server>:<Port> /discoverer/plus

	?Connect=[APPS_SECURE] Ex: http://aptstas01.ca.xxcompany.com.au:7778/discoverer/plus?Connect=[APPS_SECURE]
ICX_DISCOVERER_VIEWER_LAUNCHER	http://<HTTP Server>:<Port> /discoverer/viewer ?Connect=[APPS_SECURE] ex: http://aptstas01.ca.xxcompany.com.au:7778/discoverer/viewer?Connect=[APPS_SECURE]
ICX_DISCOVERER_RELEASE	10
ICX_DISCOVERER_USE_VIEWER	Y N Ex: Yes
ICX_DEFAULT_EUL	EUL<Version> Ex: EUL5 for ITEST3
ICX_DISCOVERER_EUL_LANGUAGE	US
ICX_DISCOVERER_PARAMETERS	exitURL=<E-Business Suite Home Page> Ex: exitURL= http://aptstas01.ca.xxcompany.com.au:8038/OA_HTML/OA.jsp?OAFunc=OAHOMEPAGE Set this parameter to switch back to Oracle Applications, when ever user log off from the Discoverer Viewer.

Section 16: - Configuration of Oracle Enterprise Manager (Application Server Control)

Perform the following tasks if required.

Before performing following steps, stop the **ias console**

```
emctl stop iasconsole
```

1. Modify the \$ORACLE_HOME/bin/emctl script.

Find this section:

```
# Set path so that our native executables can be found when run from java
#
PATH=$EMDROOT/bin:$ORACLE_HOME/jdk/bin:$PATH
export PATH
```

Add the following lines just above that section::

```
EM_OC4J_OPTS="-Djava.awt.headless=true $EM_OC4J_OPTS"  
export EM_OC4J_OPTS
```

2. Modify the file \$ORACLE_HOME/sysman/config/emd.properties

Find the following line:

```
agentJavaDefines=-Doracle.dms.refresh.wait.time=1000 -  
DUrlTiming.UseJSSE=true
```

Change it to the following, all on one line:

```
agentJavaDefines=-Doracle.dms.refresh.wait.time=1000 -  
DUrlTiming.UseJSSE=true  
-Djava.compiler=NONE -DHTTPClient.disableKeepAlives=true
```

3. As root, execute the following command to change a TCP/IP parameter:

```
# no -p -o clean_partial_conns=1
```

4. The JDK must be of version ca142-20050609 or newer. To check the current JDK version picked up by AS Control run:

Use the following command to check the jdk version.
\$ORACLE_HOME/jdk/bin/java -version

5. Relink the emagent binaries as follows:

```
LDR_CNTRL=USERREGS  
export LDR_CNTRL  
cd $ORACLE_HOME/sysman/lib  
make -f ins_sysman.mk agent
```

5.1 As root execute \$ORACLE_HOME/root.sh to set the permissions of the binaries again

5.2 Exit the root session and making sure LDR_CNTRL=USERREGS is set, start the iasconsole again:

```
LDR_CNTRL=USERREGS  
export LDR_CNTRL  
emctl start iasconsole
```

Open the Oracle Enterprise Manager and see if it is working.

Section 17: - Change Look and Feel and add Logos for Discoverer Plus/Viewer

Log into to Oracle Enterprise Manager (ias_admin/welcome01 – itest3)

Perform the following task to change the Look and Feel for the Discoverer Plus to “Oracle”. This change should be done, as Plastic is compatible with Sun Java plug-in.

1. Click on “Discoverer” link , which is under the System Components
2. Click on “Discoverer Plus”
3. Go to the link “Look and Feel” , under General
4. Select “Oracle” in the drop down list box and click on OK

Perform the following task to add logo on the Discoverer plus pages.

1. Click on “Discoverer” link , which is under the System Components
2. Click on “Discoverer Plus”
3. Click on “Logo” of section “configuration”
4. Select “File” radio button under the section Log
5. Browse the required logo and press “OK”

Perform the following task to add logo on the Discoverer Viewer pages.

1. Click on “Discoverer” link , which is under the System Components
2. Click on “Discoverer Viewer” link , which is under the Components section
3. Click on “Customization” on top of the page
4. Select “Layout” from the drop-down box and click on GO
5. Select “File” radio button and browse the required logo
6. Click on Apply

Section 18: - Change preferences for Discoverer Plus

Perform the following steps to fix the issues like NULL and Max number of rows limit.

1. Stop Discoverer 10g or Discoverer Service
2. get the file from
 <ORACL_HOME>/discoverer/util/pref.txt
3. backup the file
 <ORACL_HOME>/discoverer/util/pref.txt
4. make the change as
NullValue = ""
AggregationBehavior = 1
AllowAggregationOverRepeatedValues = 1
RowFetchLimit = 999999

and save pref.txt

5. run the following script file, which is under same util dir.
applypreferences.sh
6. Re-start the service/server.

Port Information

Ports being used by 10g AS server.

System	Port
Oracle HTTP Server port	7778
Oracle HTTP Server Listen port	7779
Oracle HTTP Server SSL port	8251
Oracle HTTP Server Listen (SSL) port	4444
ASG port	7890
Oracle Notification Server Request port	6006
Oracle Notification Server Local port	6103
Oracle Notification Server Remote port	6202
Oracle HTTP Server Diagnostic port	7201
Java Object Cache port	7000
Log Loader port	44000
DCM Discovery port	7100
Application Server Control RMI port	1850
Oracle Management Agent Port	1157
Application Server Control port	1156
Web Cache HTTP Listen port	7778
Web Cache HTTP Listen (SSL) port	8251
Web Cache Administration port	9400
Web Cache Invalidation port	9401
Web Cache Statistics port	9402
Reports Services bridge port	14011
Reports Services discoveryService port	14021
Reports Services SQL*Net port	1950
Discoverer Preference Port	16001

Patch Application on Oracle BI 10g

Patch	Description
5082551	PSE FOR BASE BUG 4760348 ON TOP OF 10.1.2.0.2 FOR IBM/AIX-5L
5561178	DISCOVERER 10G AIX SERVER CRASHES WHEN SAVING A CROSSTAB WORKBOOK
PSE 5381032	Needs to be applied if FIND doesn't work. The first patch 4533396 is fixed in PSE 5381032.

Subject: Subtotals and Grand Totals Showing Blanks in Discoverer Desktop
Note:358707.1



358707_1.txt

EUL Migration

This document explains End User Layer migration and required configuration steps to access the discoverer reports via Oracle Apps or as stand alone reports with Discoverer clients (Plus, Viewer, Desktop)

Pre-Installation Tasks

Make sure Oracle Applications (e-Business suite) service is stopped during the complete process .

For this, stop the service by executing the “adstrtall.sh”

Ex:

```
>apitest3
cd $APPLCSF/scripts
cd $TEST_aptstas01
adstrtall.sh apps/appsing stop
```

DB Schema Creation and Import

Section 1: Create DB schema to host 10g EUL.

Create Database schema for EUL . Use the attached script file as reference.



D:\Migration\
deliverables\create e

Section 2: Export from EUL 4i

Export all the objects from EUL 4i schema into a dmp file.

Ex:

```
$ export system/<password>@itest3 owner=eul4_us file=eul4_us_121206.dmp
log=eul4_us_121206.log
```

Section 3: Import EUL 4i objects into new schema

Import complete dmp file taken from EUL4_US into new schema created for 10g EUL

```
$ import system/<password>@itest3 file=eul4_us_121206.dmp  
log=imp_eul5_us_121206.log fromuser=eul4_us touser=eul5_us ignore=y
```

Note: If you spot an error like..

Issue: Import of EUL failed with the following error. And error reads like below..
then

IMP-00003: ORACLE error 1 encountered

ORA-00001: unique constraint (SYS.I_JOB_JOB) violated

ORA-06512: at "SYS.DBMS_JOB", line 97

ORA-06512: at line 1..

Fix:

```
update dba_jobs set job=<max_job_id + 1 > where job=5060;
```

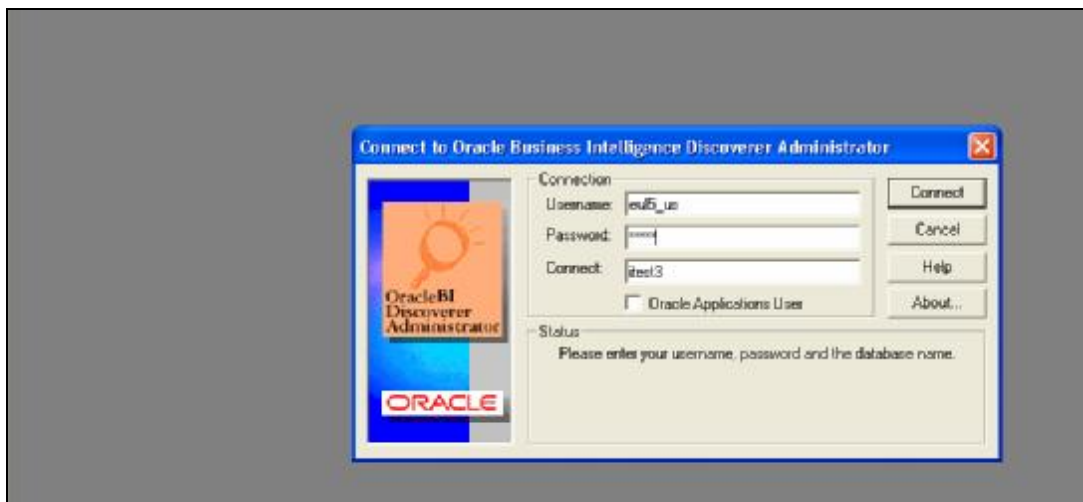
EUL Upgradation

Section 4: Upgrade EUL to EUL 5.1.1

Assumptions:

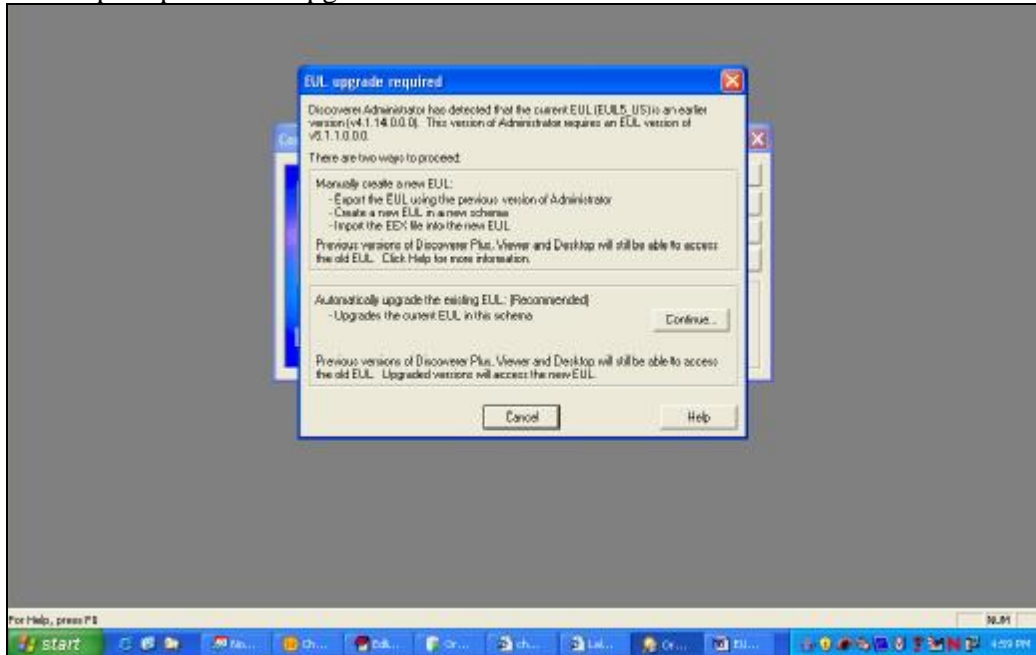
- Oracle BI Discoverer Administrator v 10.1.2.1 is installed on any windows machine.
- TNS entry is created and Discoverer Administrator is able to connect to targeted Oracle Apps database
Ex: itest3 in this example.

Open Oracle BI Discoverer Admin tool and provide user name and password details in order to connect to EUL5_US schema.

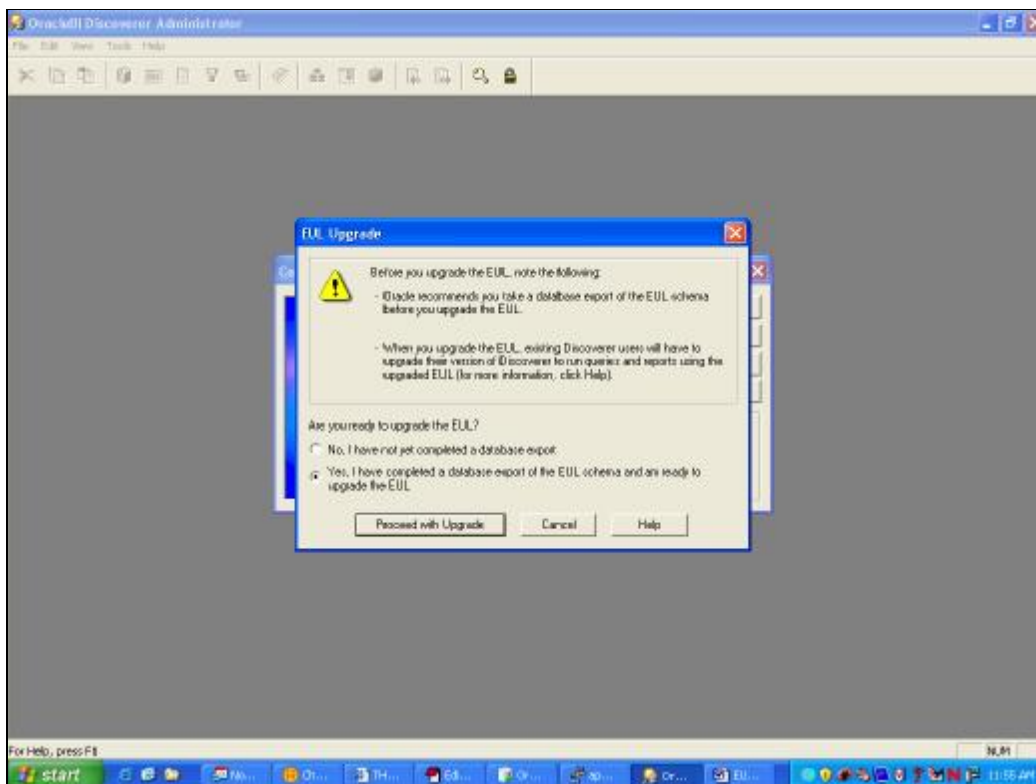


Section 5: Accept the Prompt for Upgrade

As and when you connected to new schema(EUL5_US) through Admin Tool, you will be prompted EUL Upgrade.

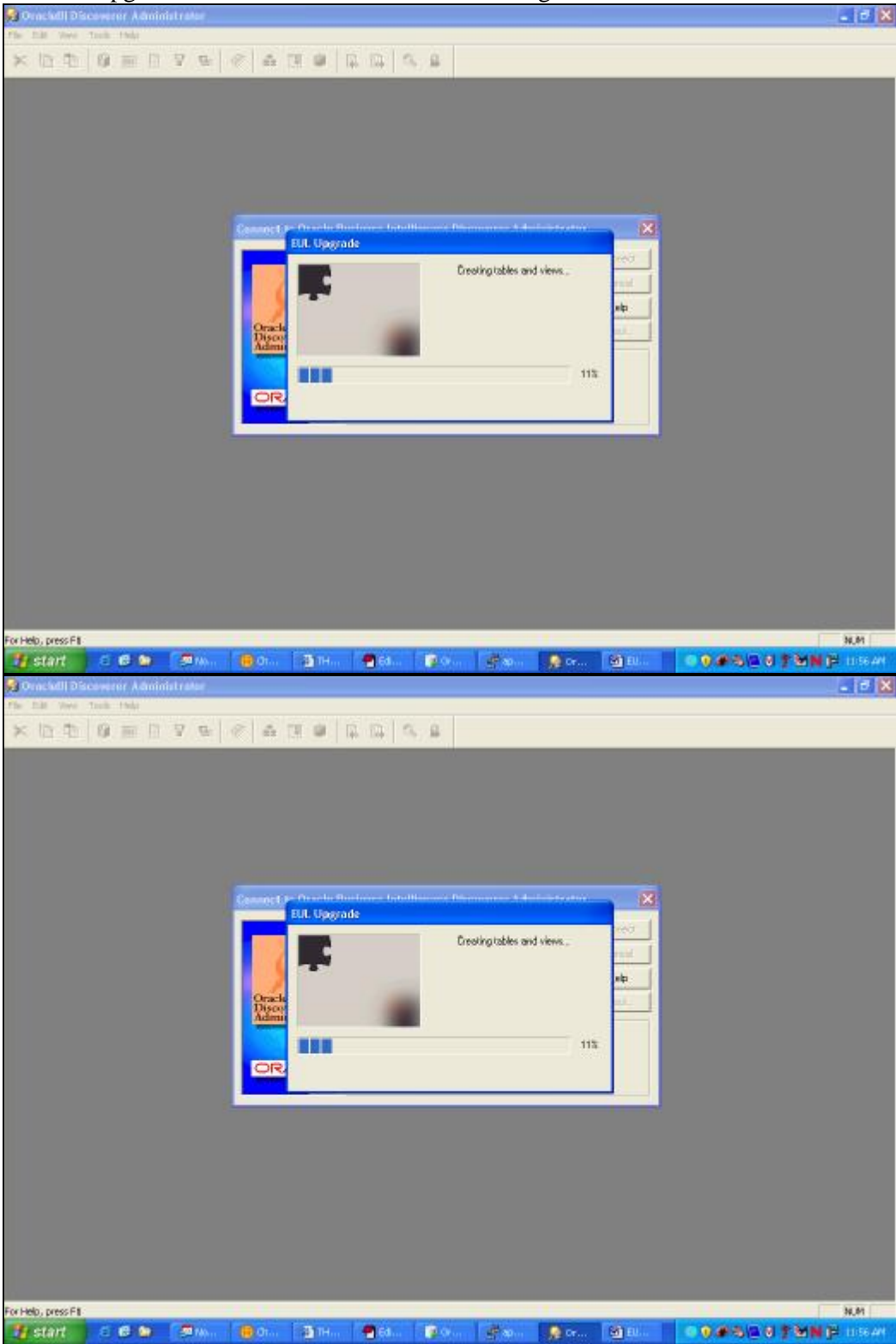


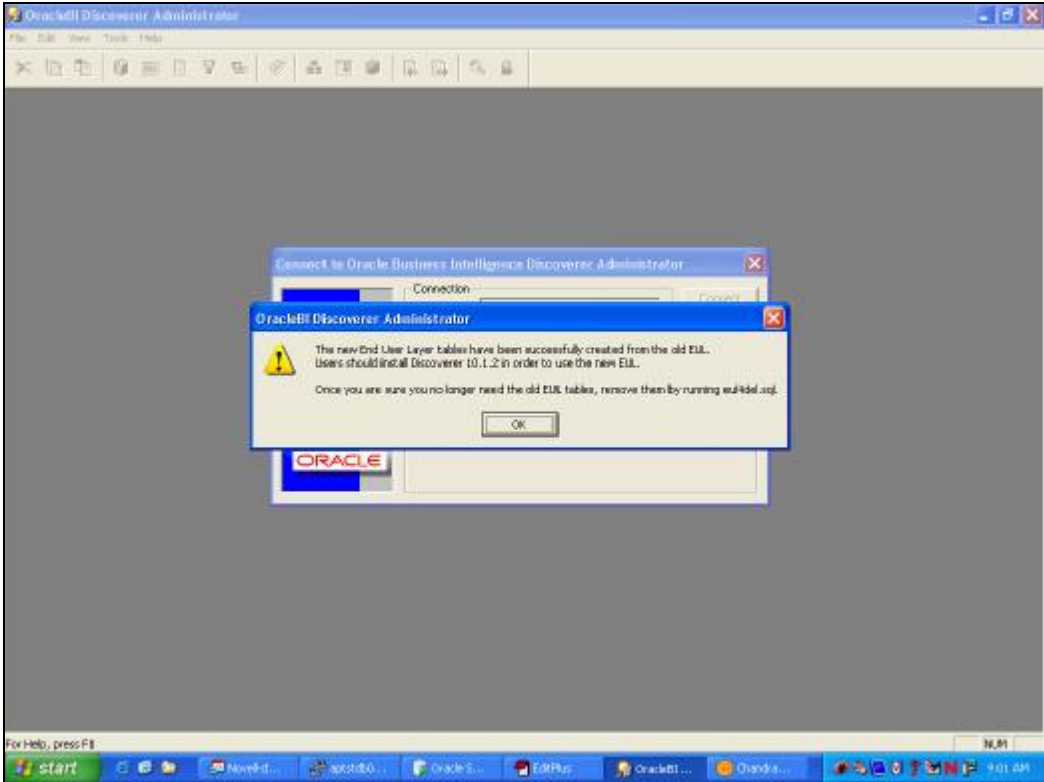
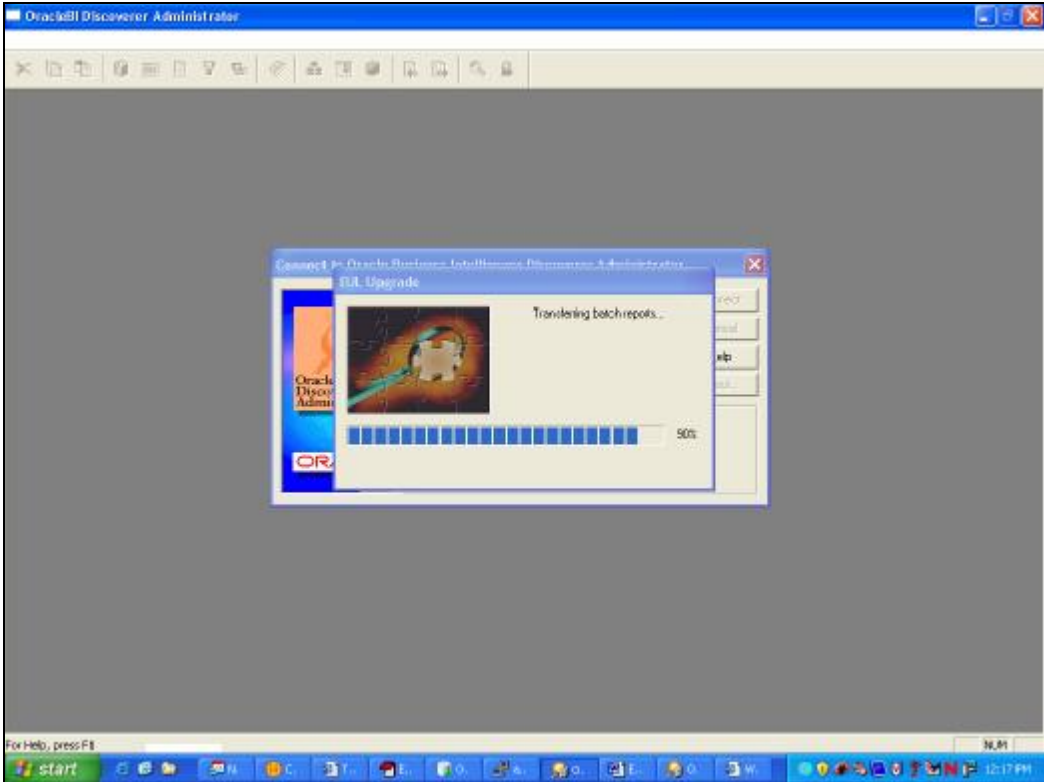
Select "continue" on the above prompt.



Then select the second option button as shown in the above screen shot.

Now the upgrade will start as shown in the following screenshots.

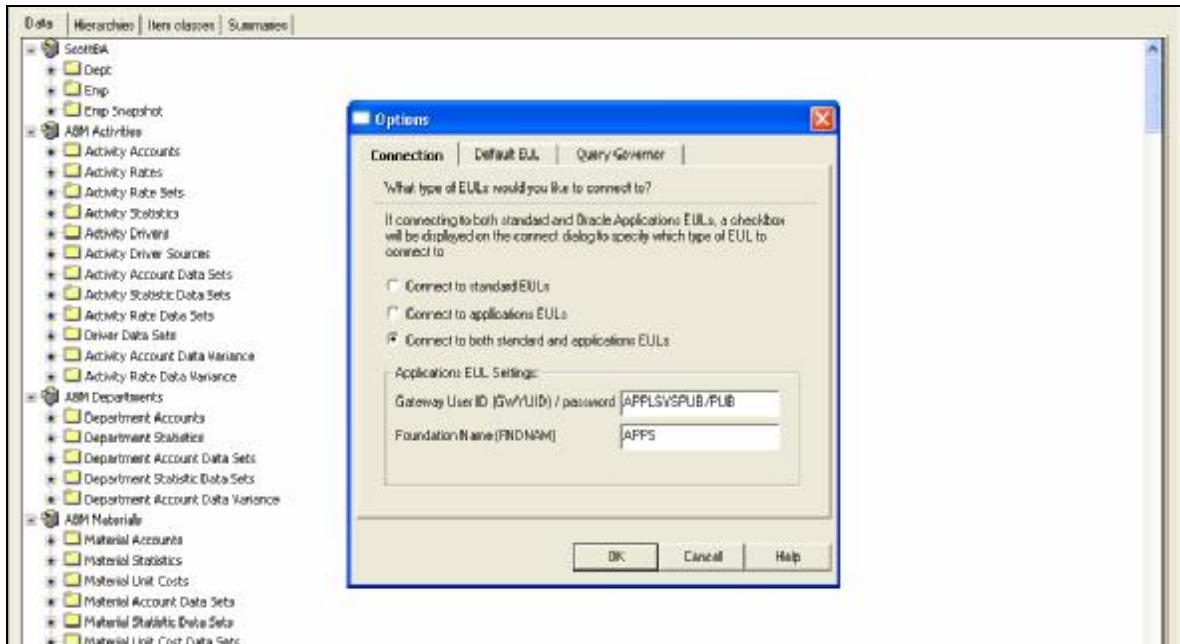




Section 5: Verify connection on BI Admin

Go to Tools/Options , on Connection tab and verify the connection.

- Select “Connect to both standard and Application EULs”
- Gateway User Id(GWYUID)/password: APPLSYSPUB/PUB
- Foundation Name(FNDNAM):APPS

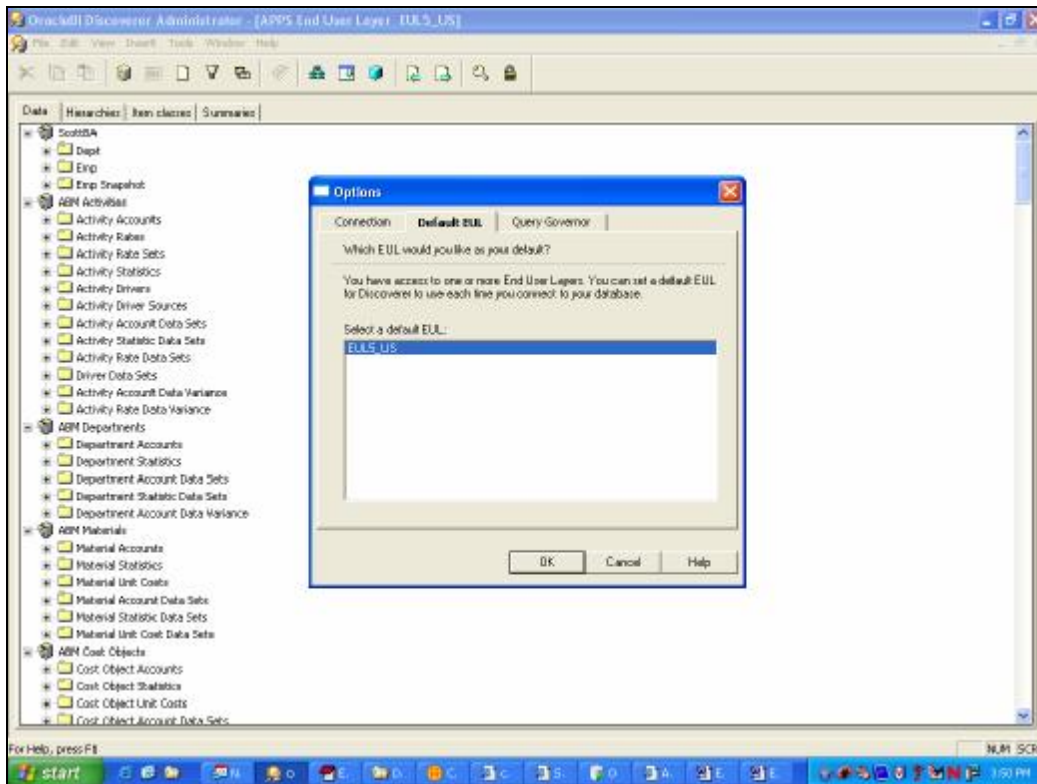


Section 6: Verify default EUL

Once the EUL upgradation is done, then just very for the default EUL and make sure it is the newly updated EUL

Go to Tools/Options, on Default EUL tab.

Ex: EUL5_US in this case.



Section 7: Modify Summary Ownership

This script modifies the Summary Ownership Information

1. Open SQL*Plus and connect to <eul_owner>/<password>@<instance>
Ex: eul5_us/disco@itest3
2. Run the EULSOWN.SQL file, which is attached below.
Copy the file into your local directory(temp) and invoke the same as
D:\temp\eulown.sql
Ex: SQL> @D:\temp\eulsown.sql
3. It prompts for Current Summary owner and new summary owner.
 - Current summary owner is fromuser under section 3 of DB Schema Creation and Import
 - New summary owner is touser under section 3 of DB Schema Creation and ImportEx: in ITEST 3 ==>> Current summary owner = EUL4_US
New Summary owner = EUL5_US
4. Close sql window, once it commits the changes.



Eulsown.sql

Post-Installation Tasks

Make sure Oracle Applications (e-Business suite) service is up and running after the EUL migration is done.

For this, start the service by executing the “adstrtall.sh”

Ex:

```
>apitest3
cd $APPLCSF/scripts
cd $TEST_aptstas01
adstrtall.sh apps/appsing start
```

Audit Trail Reports

Installation of Audit Trail Reports:

To install the EUL Audit Trail Reports:

Note: Copy the attached EUL5 zip file below into a temporary folder (in this case d:\migration) and unzip the file.



D:\Migration\
deliverables\EUL.zip

1. Start SQL*Plus and connect as the EUL owner.

```
SQL> connect <eul_owner>/<pwd>@database;
```

2. Run the SQL file eul5.sql, eul5_apps.sql

2.1 For example you might type the following at the command prompt:

```
SQL> start d:\Migration\EUL\util\eul5.sql
```

The eul5.sql file creates required custom PL/SQL functions required by the Discoverer EUL V5 business area.

2.2. Run the SQL file eul5_apps.sql

For example you might type the following at the command prompt:

```
SQL> start d:\Migration\EUL\util\eul5_apps.sql
```

The eul5.sql file creates required custom PL/SQL functions required by the Discoverer EUL V5 business area.

You are prompted for the username of the Oracle Applications FNDNAM schema.

2.3 Enter the username of the FNDNAM schema.

Note: Only enter the FNDNAM schema's username. Do not enter a password

Ex: APPS

3. Start Discoverer Administrator.

Log in as EUL Schema owner..

3.1 Import the file eul5.eex as follows:

3.2 Choose File | Import to display the "Import Wizard: Step 1 dialog"

Click Add File to display the Open dialog

Select the file d:\Migration\EUL\eul5.eex

3.3 Click Open to return to the "Import Wizard: Step 1 dialog".

The selected SQL file eul5.eex appears in the Import file list.

3.4 Click Next to display the "Import Wizard: Step 2 dialog".

The default settings are acceptable.

3.5 Click Next to display the "Import Wizard: Step 3 dialog".

This dialog enables you to start the import and monitor its status as each EUL object is processed.

3.6 Click Start to begin importing the EUL status workbooks.

When the import is complete, the 'Import Successful' message is displayed.

3.7 Click Finish to close the "Import Wizard: Step 3 dialog,"

4. Grant access to the EUL5 business area to either an Oracle Applications User or an Oracle Applications Responsibility.

The above step allows the User or Responsibility to which you granted access to use the audit trail reports.

Rollback Plan

Rollback plan should be used when migration from Discoverer 4i to Discoverer 10g is not successful.

1. Restore the links to Discoverer 4i link in Icon.
2. Remove Discoverer 10g links from Application home page and keep Discoverer 4i links
3. Restore the file \$APPL_TOP/admin/hostname_sid.xml, which is created/modified under the "Section 13: Set Profile for Discoverer 10g"
4. Run Auto config

5. Restore Application profiles ,with the back up taken during
“Section 15:.Verify Applications profile options in Oracle Applications“
6. Verify, if the discoverer reports can be accessed from the Application
7. Restore the Batch schedule folder with the backup
8. Restore schema, which is hosting Noetix views with the backup taken during
the Noetix upgrade.