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Integrate Oracle Portal with Oracle E-Business Suite 11i

This is series of articles to configure Single-Sign-on (SSO) and Integrate Oracle Portal with Oracle Application 11i. Here are the few pre-requisites for “Single Sign on” which requires ATG Rollup 5.

We shall split whole process into three

- 1> ATG Rollup 5 – Take backup and test the application
- 2> Single Signon Patches – Take backup and test the application
- 3> Oracle Portal Patches – Take backup and test the application

Correct me, if I am wrong.

ATG Rollup 5

Installation process:

1. Shutdown Appls services (forms, reports, CMs); enable maintenance mode
2. Apply patch 5161676 (AD.I.5) – 1hr
3. Apply patch 5989593 (ADGRANTS.sql) – 0.5 hrs
4. Apply patch 3218526 (WebADI BNE.D) – 10 mins
5. Apply patch 4206794 (FRM.H) – 0.5 hrs
6. Apply patch 3854951 (FSG XMI – post FRM.H) – 5 mins
7. Apply patch 5473858 (ATG.H RUP 5) – 3.5 hrs

Assumptions

Oracle Applications 11.5.10.2
Red Hat 4.0 – update 4
Vision Instance

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To apply a patch – Database should be up and Application should be down
Run adadmin – Enable Maintenance mode

```
su – applmgr
cd applmgr
mkdir patches
cd patches
unzip p5473858_11i_LINUX.zip – ATG Rollup 5
```

Read the readme file.

You can always find a pre-req patches for any particular patch.

```
cd 5473858
adpatch options=prereq
Filename [adpatch.log] : u5473858.log
Options = "prereq".
```

AutoPatch error:

You must be in Maintenance Mode to apply patches.

You can use the AD Administration Utility to set Maintenance Mode.

```
adadmin
```

AD Administration Main Menu

1. Generate Applications Files menu
2. Maintain Applications Files menu
3. Compile/Reload Applications Database Entities menu
4. Maintain Applications Database Entities menu
5. Change Maintenance Mode
6. Exit AD Administration

Enter 5

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Change Maintenance Mode

Maintenance Mode is currently: [Disabled].

Maintenance mode should normally be enabled when patching Oracle Applications and disabled when users are logged on to the system. See the Oracle Applications Maintenance Utilities manual for more information about maintenance mode.

Please select an option:

1. Enable Maintenance Mode
2. Disable Maintenance Mode
3. Return to Main Menu

Enter 1

```
cd 5473858
adpatch options=prereq
The default directory is [/home/applmgr/patches/5473858] :
Please enter the name of your AutoPatch driver file : u5473858.drv
```

```
! 4206794 FRM: Patch 11i.FRM.H
```

```
- 5473858 ATG_PF: 11i.ATG_PF.H.RUP5
```

Symbol Legend

!: Unapplied prerequisite patch.

This prerequisite patch must be applied together with the current patch(es).

Please merge this patch with the current patch(es) and apply them together.

-: Patch with prerequisite check information.

This patch is about to be applied.

This patch depends on prerequisite patches that have not been applied.

Please apply those patches before proceeding with the current patch.

Continue as if prerequisite patches have been applied? [Yes] ? No

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Though the pre-requisites is only 4206794, we need to apply the below patches.

1. Apply patch 5161676 (AD.I.5) – 1hr
2. Apply patch 5989593 (ADGRANTS.sql) – 0.5 hrs
3. Apply patch 3218526 (WebADI BNE.D) – 10 mins
4. Apply patch 4206794 (FRM.H) – 0.5 hrs
5. Apply patch 3854951 (FSG XMI – post FRM.H) – 5 mins

```
unzip p5194357_11i_GENERIC.zip
cd 5194357
adpatch
Filename [adpatch.log] : u5194357.log
The default directory is [/home/applmgr/patches/5194357] :
Please enter the name of your AutoPatch driver file : u5194357.drv
```

```
unzip p5989593_11i_LINUX.zip
cd 5989593
adpatch
Filename [adpatch.log] : u5989593.log
The default directory is [/home/applmgr/patches/5989593] :
```

Please enter the name of your AutoPatch driver file : u5989593.drv

```
Compiling invalid objects...
sqlplus -s APPS/***** @/apptop/115/ad/11.5.0/admin/sql/adutlrcmp.pls APPLSYS
***** APPS ***** ***** 16 0 NONE FALSE
```

Since there are some invalid objects - *See issues and solutions - p5989593_11i_LINUX.zip* – page 9

Post Installation Steps for the patch 5989593

```
cd $ORACLE_HOME/appsutil
mkdir admin
cd admin
cp /home/applmgr/patches/5989593/admin/adgrants.sql .
```

```
su – oracle
cd $ORACLE_HOME/appsutil
```

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```
mkdir admin
cd admin
cp /software/IAS/OID/5989593/admin/adgrants.sql .
sqlplus "/ as sysdba"
@adgrants apps
```

```
unzip p3218526_11i_GENERIC.zip
cd 3218526
adpatch
Filename [adpatch.log] : u3218526.log
Please enter the name of your AutoPatch driver file : u3218526.drv
```

```
unzip p4206794_11i_GENERIC.zip
cd 4206794
adpatch
Filename [adpatch.log] : u4206794.log
Please enter the name of your AutoPatch driver file : u4206794.drv
```

```
unzip p3854951_11i_LINUX.zip
cd 3854951
adpatch
Filename [adpatch.log] : u3854951.log
Please enter the name of your AutoPatch driver file : u3854951.drv
```

Since all the pre-req patches are applied, now Apply the ATG Rollup 5

```
unzip p5473858_11i_LINUX.zip
cd 5473858
adpatch
Filename [adpatch.log] : u5473858.log
Please enter the name of your AutoPatch driver file : u5473858.drv
```

Run adctrl to check the workers process that have failed, in the below example worker 3 and worker have failed.

Control	Worker	Code	Context	Filename	Status
	1	Run	AutoPatch R115		Wait
	2	Run	AutoPatch R115		Wait
	3	Run	AutoPatch R115	AFSCGBLS.pls	FAILED
	4	Run	AutoPatch R115		Wait
	5	Run	AutoPatch R115	AFCORLGS.pls	FAILED
	6	Run	AutoPatch R115		Wait
	7	Run	AutoPatch R115		Wait
	8	Run	AutoPatch R115		Wait

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9	Run	AutoPatch R115	Wait
10	Run	AutoPatch R115	Wait
11	Run	AutoPatch R115	Wait
12	Run	AutoPatch R115	Wait
13	Run	AutoPatch R115	Wait
14	Run	AutoPatch R115	Wait
15	Run	AutoPatch R115	Wait
16	Run	AutoPatch R115	Wait

```
cd $APPL_TOP/admin/<SID>/log
```

```
vi adwork002.log
```

```
sqlplus -s APPS/***** @/appltop/115/admin/<SID>/out/p002invok.sql  
create or replace package FND_LOG AUTHID CURRENT_USER as  
*
```

```
ERROR at line 1:
```

```
ORA-04021: timeout occurred while waiting to lock object APPS.FND_LOG
```

Solution

```
sqlplus -s APPS/apps @/appltop/115/admin/<SID>/out/p002invok.sql – it ran  
successfully
```

```
adctrl
```

1. Show worker status
2. Tell worker to restart a failed job
3. Tell worker to quit
4. Tell manager that a worker failed its job
5. Tell manager that a worker acknowledges quit
6. Restart a worker on the current machine
7. Exit

```
Enter your choice [1] : 1
```

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Control Worker Code	Context	Filename	Status
1 Run	AutoPatch R115		Wait
2 Run	AutoPatch R115		Wait
3 Run	AutoPatch R115	AFSCGBLS.pls	FAILED
4 Run	AutoPatch R115		Wait
5 Run	AutoPatch R115	AFCORLGS.pls	FAILED
6 Run	AutoPatch R115		Wait
7 Run	AutoPatch R115		Wait
8 Run	AutoPatch R115		Wait
9 Run	AutoPatch R115		Wait
10 Run	AutoPatch R115		Wait
11 Run	AutoPatch R115		Wait
12 Run	AutoPatch R115		Wait
13 Run	AutoPatch R115		Wait
14 Run	AutoPatch R115		Wait
15 Run	AutoPatch R115		Wait
16 Run	AutoPatch R115		Wait

Enter your choice [1] : 2

Enter the worker number(s)/range(s) or 'all' for all workers,
or press [Return] to go back to the menu : 3,5

Control Worker Code	Context	Filename	Status
1 Run	AutoPatch R115	AFGFMB.pls	Running
2 Run	AutoPatch R115	AFNLDLGB.pls	Running
3 Run	AutoPatch R115	AFOAMCCB.pls	Running
4 Run	AutoPatch R115	AFICXSMB.pls	Running
5 Run	AutoPatch R115	AFNLDCXB.pls	Running
6 Run	AutoPatch R115	AFFFKAIB.pls	Running
7 Run	AutoPatch R115	AFNLMSGB.pls	Running
8 Run	AutoPatch R115	AFMLCURB.pls	Running
9 Run	AutoPatch R115	AFDICTB.pls	Running
10 Run	AutoPatch R115	AFFFLDRB.pls	Running
11 Run	AutoPatch R115	AFMLSUBB.pls	Running
12 Run	AutoPatch R115	AFFVAIB.pls	Running

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13	Run	AutoPatch R115	AFOAMBFB.pls	Running
14	Run	AutoPatch R115	AFNLDTIB.pls	Running
15	Run	AutoPatch R115	AFFFXPAB.pls	Running
16	Run	AutoPatch R115	AFFSSVB.pls	Running

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1> Issues and solutions - p5989593_11i_LINUX.zip

Run adadmin – Validate apps schema to identify the issues with APPS schema

Fix the issues with compiling invalid objects

adadmin

AD Administration Main Menu

-
1. Generate Applications Files menu
 2. Maintain Applications Files menu
 3. Compile/Reload Applications Database Entities menu
 4. Maintain Applications Database Entities menu
 5. Change Maintenance Mode
 6. Exit AD Administration

Enter your choice [6] : 4

Maintain Applications Database Entities

-
1. Validate APPS schema
 2. Re-create grants and synonyms for APPS schema
 3. Maintain multi-lingual tables
 4. Check DUAL table
 5. Maintain Multiple Reporting Currencies schema
 6. Return to Main Menu

Enter your choice [6] : 1

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Validating APPS schema "APPS"...

```
sqlplus -s SYSTEM/***** @/appltop/115/ad/11.5.0/admin/sql/advrfapp.sql APPS  
APPLSYS
```

Done validating APPS schema "APPS".

Validation output is recorded in
\$APPL_TOP/admin/<context_name>/out/APPS.lst

Fix the issues with APPS.lst

I found some invalid packages and I had to fix them.

```
sqlplus apps/apps @packages_system.txt  
sqlplus apps/apps @per.sql
```

Re-create grants and synonyms for APPS schema

AD Administration Main Menu

1. Generate Applications Files menu
2. Maintain Applications Files menu
3. Compile/Reload Applications Database Entities menu
4. Maintain Applications Database Entities menu
5. Change Maintenance Mode
6. Exit AD Administration

Enter your choice [6] :

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Maintain Applications Database Entities

1. Validate APPS schema
2. Re-create grants and synonyms for APPS schema
3. Maintain multi-lingual tables
4. Check DUAL table
5. Maintain Multiple Reporting Currencies schema
6. Return to Main Menu

Enter your choice [6] : 2

There are now 5 jobs remaining (current phase=Done):
5 running, 0 ready to run and 0 waiting.

FAILED: file adappsgs.pls on worker 14 for product ad username APPLSYS.
Deferred: file adappsgs.pls on worker 14 for product ad username APPLSYS.
(Deferment number 2 for this job)
Assigned: file adappsgs.pls on worker 2 for product ad username APPLSYS.
Completed: file adappsgs.pls on worker 1 for product ad username APPLSYS.
Completed: file adappsgs.pls on worker 8 for product ad username APPLSYS.
FAILED: file adappsgs.pls on worker 2 for product ad username APPLSYS.
Completed: file adappsgs.pls on worker 3 for product ad username APPLSYS.
Completed: file adappsgs.pls on worker 11 for product ad username APPLSYS.

ATTENTION: All workers either have failed or are waiting:

FAILED: file adappsgs.pls on worker 2.

ATTENTION: Please fix the above failed worker(s) so the manager can continue.

```
cd $ORACLE_HOME/admin/<SID>/out  
vi adwork002.log
```

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```
sqlplus -s APPS/***** @/appltop/115/ad/11.5.0/admin/sql/adappsgs.pls &systempwd 1
JTF APPLSYS APPS TRUE FALSE TRUE
Connected.
old 2: ad_apps_private.create_grants_and_synonyms(&2,'&3','&4','&5','FALSE');
new 2:
ad_apps_private.create_grants_and_synonyms(1,'JTF','APPLSYS','APPS','FALSE');
begin
*
ERROR at line 1:
ORA-20000: ORA-01403: no data found
ORA-01720: grant option does not exist for
'APPS.JTF_PF_PAGE_OBJECT':create_grants_and_synonyms(1,JTF,APPLSYS,APPS):
create_base_gs(JTF,APPS): In Grants Loop:create_grant(JTF_PF_REPOSITORY does
not exist in ): do_apps_ddl(JTF,GRANT ALL ON "JTF_PF_REPOSITORY" TO APPS
WITH
GRANT OPTION);
ORA-06512: at line 5
```

Solution in metalink

Recreate Grants And Synonyms Ora-01720 for JTF.JTF_PF_REPOSITORY

[Doc ID: Note:362614.1](#)

Type: **PROBLEM**

Last Revision Date: **02-OCT-2006**

1. Via sqlplus

```
sqlplus apps/apps
grant all on APPS.JTF_PF_PAGE_OBJECT to jtf with grant option;
```

2. Via sqlplus

```
conn jtf/jtf
grant all on jtf_pf_repository to apps;
```

3. Use adctrl utility to restart failing worker or restart adadmin to recreate grants from scratch and should end errorless.

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adctrl –

AD Controller Menu

- 1. Show worker status
- 2. Tell worker to restart a failed job
- 3. Tell worker to quit
- 4. Tell manager that a worker failed its job
- 5. Tell manager that a worker acknowledges quit
- 6. Restart a worker on the current machine
- 7. Exit

Control	Worker Code	Context	Filename	Status
	1	Run	Grants/Synonyms R115	Wait
	2	Run	Grants/Synonyms R115	adappsgs.pls FAILED
	3	Run	Grants/Synonyms R115	Wait
	4	Run	Grants/Synonyms R115	Wait
	5	Run	Grants/Synonyms R115	Wait
	6	Run	Grants/Synonyms R115	Wait
	7	Run	Grants/Synonyms R115	Wait
	8	Run	Grants/Synonyms R115	Wait
	9	Run	Grants/Synonyms R115	Wait
	10	Run	Grants/Synonyms R115	Wait
	11	Run	Grants/Synonyms R115	Wait
	12	Run	Grants/Synonyms R115	Wait
	13	Run	Grants/Synonyms R115	Wait
	14	Run	Grants/Synonyms R115	Wait
	15	Run	Grants/Synonyms R115	Wait
	16	Run	Grants/Synonyms R115	Wait

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Enter your choice [1] : 2

Enter the worker number(s)/range(s) or 'all' for all workers,
or press [Return] to go back to the menu : 2

Status changed to 'Fixed, restart' for worker 2.
Review the messages above, then press [Return] to continue.

Enter your choice [1] : 1

Error: The FND_INSTALL_PROCESSES table does not exist.
This table is used for communication with the
worker processes, and if it does not exist, it
means that the workers are not running, because
the ad utility has not started them yet.
You should check the file adctrl.log for errors.

1. Generate Applications Files menu
2. Maintain Applications Files menu
3. Compile/Reload Applications Database Entities menu
4. Maintain Applications Database Entities menu
5. Change Maintenance Mode
6. Exit AD Administration

Enter your choice [6] : 3

Compile/Reload Applications Database Entities

1. Compile APPS schema
2. Compile menu information
3. Compile flexfields
4. Reload JAR files to database

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5. Return to Main Menu

Enter your choice [5] : 1

Please check your log files for errors that may have occurred while compiling invalid objects.

Be sure to look at the log file(s) for the parallel worker(s) which ran adpcpln.pls and aderrchk.sql. These scripts display compilation errors and list objects which are still invalid.

```
sqlplus -s APPS/***** @/apptop/115/ad/11.5.0/admin/sql/adinrst.pls *****
```

```
SQL> select count(*) from dba_objects where status ='INVALID';
```

```
  COUNT(*)  
-----  
      195
```

```
adadmin
```

```
  AD Administration Main Menu  
-----
```

1. Generate Applications Files menu
2. Maintain Applications Files menu
3. Compile/Reload Applications Database Entities menu
4. Maintain Applications Database Entities menu
5. Change Maintenance Mode
6. Exit AD Administration

Enter your choice [6] :

Maintain Applications Database Entities

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-
1. Validate APPS schema
 2. Re-create grants and synonyms for APPS schema
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 4. Check DUAL table
 5. Maintain Multiple Reporting Currencies schema
 6. Return to Main Menu

Enter your choice [6] : 1

\$APPL_TOP/<SID>/out/APPS.lst

select count(*) from user_objects where status='INVALID';

COUNT(*)

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