HR Patching

Tax year end 2015

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| --- | --- | --- |
| **Implmenter** | **Project** | **Environment** |
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| Mark Lang | PPP003 | TEST |
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# Summary of steps required

* Shutdown application
* Apply Oracle Apps TYE15 patch – p19223877
* Apply Oracle security Patches
* Shutdown database and listener
  + P20132646 (19769496) – opatch (dbserver)
  + P20132646 (19877443) – opatch (dbserver)
  + Post install for p19769496 (dbserver)
  + Apply PSU to appserver 10.1.3.5 home
    - P19952538 opatch both app servers
  + Apply PSU to appserver 10.1.2.3 home
    - OUI update p6640838 - both app servers
    - P19434967 opatch both app servers
  + Appy PSU to E-Business suite
  + Apply p19393542 opatch (dbserver)
* Startup db and listener
* ApplyTYE15 additional patch - P20487389
* Startup Application

# Apply Oracle Apps TYE15 patch

**Beginning Patching**

**Prerequisites**

Passwords for the APPS user for either DEV, TEST or LIVE  
Password for ORACLE SYSTEM  
Passwords for apphr on the DEV, TEST or LIVE servers

**START:**

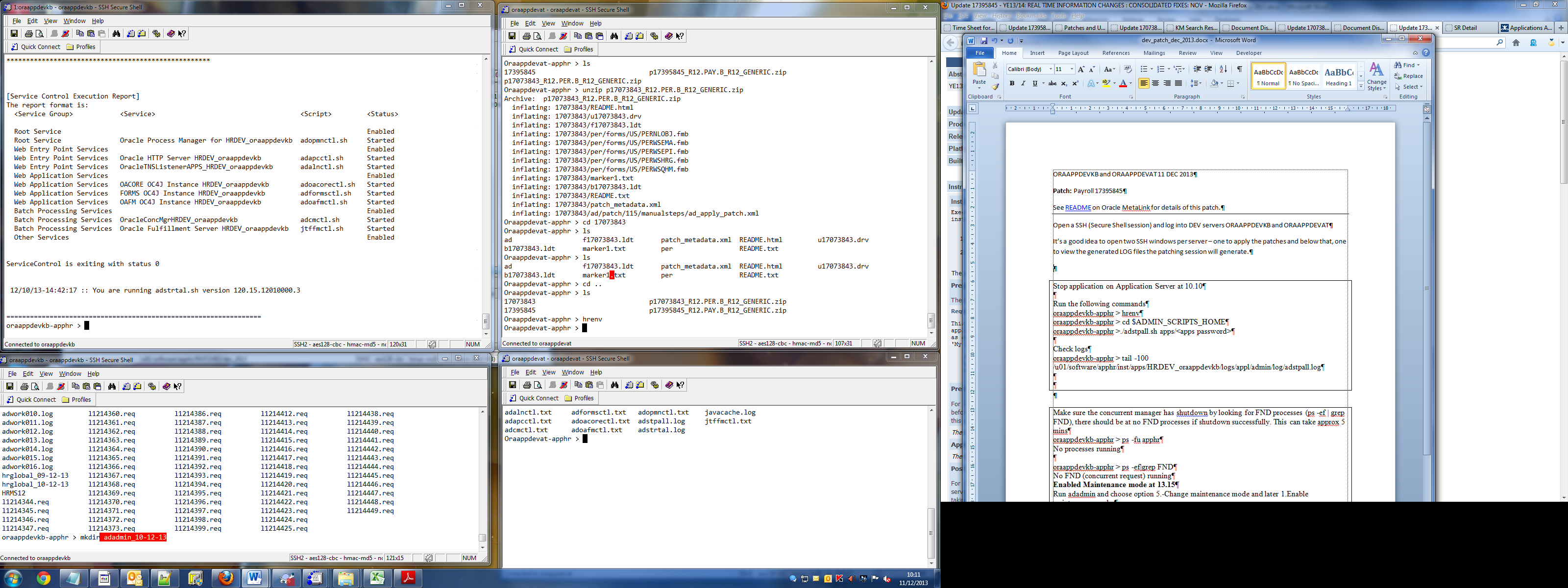
Open a SSH (Secure Shell session) and log into the two UNIX DEV servers ORAAPPDEVKB and ORAAPPDEVAT as user apphr.

Using SSH File Transfer change to directory /u01/software/apphr/PATCHES (Test may be … /u03/software/apphr/PATCHES**)** . Change the transfer setting to **Binary** and copy the file to the server and copy the file **p19223877\_R12.PAY.B\_R12\_GENERIC.zip** to the server. This can be currently found in the Project folder:

K:\ISAPPS\dsg\Projects\PPP003\Patches\TYE\_RTI Changes\_2015

Repeat this on both servers (in the case of DEV, ORAAPPDEVKB and ORAAPPDEVAT).

It’s a good idea to open two SSH windows per server – one to apply the patches and below that, to review the generated LOG files the patching session will generate:



Now, stop HR application on the Application Server and Run the following commands. You only need to do this on sever ORAAPPDEVKB (or the currently active server):

**oraappdevkb-apphr >** hrenv

**oraappdevkb-apphr >** cd $ADMIN\_SCRIPTS\_HOME

**oraappdevkb-apphr >** ./adstpall.sh apps/<apps password>

This will run a series of shell scripts to disconnect the Applications layer.

Now check logs to ensure everything has stopped:

**oraappdevkb-apphr >** tail -100 /u01/software/apphr/inst/apps/HRDEV\_oraappdevkb/logs/appl/admin/log/adstpall.log

For TEST:

tail -100 /u03/software/apphr/inst/apps/HRTEST\_minard/logs/appl/admin/log/adstpall.log

Make sure the concurrent manager has shut down by looking for FND processes (ps -ef | grep FND), there should be at no FND processes if shutdown successfully. This can take approx 5 mins.

**oraappdevkb-apphr >** ps -fu apphr

No processes running

If there are still processes running you can run ./adstpall again

**oraappdevkb-apphr >** ps -ef|grep FND

No FND (concurrent request) running

Run **adadmin** and respond to the questions with the defaults (just press **Enter**)

**oraappdevkb-apphr >** adadmin

Your default directory is '/u01/software/apphr/apps/apps\_st/appl'.

Is this the correct APPL\_TOP [Yes] ?

Filename [adadmin.log] : **adadmin\_05-02-2015.log**

You can be notified by email if a failure occurs.

Do you wish to activate this feature [No] ?

Please enter the batchsize [1000] :

You are about to use or modify Oracle Applications product tables

in your ORACLE database 'HRTEST'

using ORACLE executables in '/u03/software/apphr/apps/tech\_st/10.1.2'.

Is this the correct database [Yes] ?

Enter the password for your 'SYSTEM' ORACLE schema:

Enter the ORACLE password of Application Object Library [APPS] :

AD Administration is verifying your username/password.

The status of various features in this run of AD Administration is:

<-Feature version in->

Feature Active? APPLTOP Data model Flags

------------------------------ ------- -------- ----------- -----------

CHECKFILE Yes 1 1 Y N N Y N Y

PREREQ Yes 6 6 Y N N Y N Y

CONCURRENT\_SESSIONS No 2 2 Y Y N Y Y N

PATCH\_TIMING Yes 2 2 Y N N Y N Y

PATCH\_HIST\_IN\_DB Yes 6 6 Y N N Y N Y

SCHEMA\_SWAP Yes 1 1 Y N N Y Y Y

JAVA\_WORKER Yes 1 1 Y N N Y N Y

CODELEVEL Yes 1 1 Y N N Y N Y

Identifier for the current session is 49281

Reading product information from file...

Reading language and territory information from file...

Reading language information from applUS.txt ...

Reading database to see what industry is currently installed.

Reading FND\_LANGUAGES to see what is currently installed.

Currently, the following language is installed:

Code Language Status

---- --------------------------------------- ---------

US American English Base

Your base language will be AMERICAN.

Setting up module information.

Reading database for information about the modules.

Saving module information.

Reading database for information about the products.

Reading database for information about how products depend on each other.

Reading topfile.txt ...

Saving product information.

Saving product information.

AD code level : [B.3]

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] :5

Choose Option 5 **Change maintenance mode**

Then choose Option 1 -- **Enable 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 your choice [3] : 1

Enabled Maintenance mode at 13.15

Successfully enabled Maintenance Mode.

Review the messages above, then press [Return] to continue.

Press **3** to Return to Main Menu, then **6 Exit AD Administration**

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

BEFORE PATCHING ALWAYS MAKE SURE THAT THERE IS A COPY OF httpd.conf

oraappdevkb-apphr > cd /u01/software/apphr/apps/tech\_st/10.1.3/Apache/Apache/conf

TEST is /u03/

oraappdevkb-apphr > cp -p httpd.conf httpd.conf\_MISKEEP\_05022015

cd $COMMON\_TOP/\_pages

Then check the *folder* **\_oa\_\_html** exits (for example, ls \_oa\*)

If this folder does not exist an error will happen in the patching when trying to compile JPS pages

**cd** $COMMON\_TOP/\_pages

cd /u01/software/apphr/apps/apps\_st/comn/\_pages/\_oa\_\_html

TEST is /u03/software/apphr/apps/apps\_st/comn/\_pages/\_oa\_\_html

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* START PATCHING \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Change to Directory where the patch was downloaded, unzip patch then change into patch dir

cd /u01/software/apphr/PATCHES/TYE\_RTI\_Changes\_2015

(TEST is /u03/software/apphr/PATCHES/ TYE\_RTI\_Changes\_2015)

unzip p19223877\_R12.PAY.B\_R12\_GENERIC.zip

cd 19223877

You are now ready to run the **adpatch** utility to apply your patch:

Oraappdevat-apphr > adpatch

Copyright (c) 2002 Oracle Corporation

Redwood Shores, California, USA

Oracle Applications AutoPatch

Version 12.0.0

NOTE: You may not use this utility for custom development

unless you have written permission from Oracle Corporation.

Attention: AutoPatch no longer checks for unapplied pre-requisite patches.

You must use OAM Patch Wizard for this feature. Alternatively, you can

review the README for pre-requisite information.

Your default directory is '/u03/software/apphr/apps/apps\_st/appl'.

Is this the correct APPL\_TOP [Yes] ?

AutoPatch records your AutoPatch session in a text file

you specify. Enter your AutoPatch log file name or press [Return]

to accept the default file name shown in brackets.

**Filename [adpatch.log] : adpatch\_05-02-2015.log**

You can be notified by email if a failure occurs.

Do you wish to activate this feature [No]?

Please enter the batchsize [1000] :

Please enter the name of the Oracle Applications System that this

APPL\_TOP belongs to.

The Applications System name must be unique across all Oracle

Applications Systems at your site, must be from 1 to 30 characters

long, may only contain alphanumeric and underscore characters,

and must start with a letter.

Sample Applications System names are: "prod", "test", "demo" and

"Development\_2".

Applications System Name [HRTEST] : HRTEST \*

NOTE: If you do not currently have certain types of files installed

in this APPL\_TOP, you may not be able to perform certain tasks.

Example 1: If you don't have files used for installing or upgrading

the database installed in this area, you cannot install or upgrade

the database from this APPL\_TOP.

Example 2: If you don't have forms files installed in this area, you cannot

generate them or run them from this APPL\_TOP.

Example 3: If you don't have concurrent program files installed in this area,

you cannot relink concurrent programs or generate reports from this APPL\_TOP.

Do you currently have files used for installing or upgrading the database

installed in this APPL\_TOP [YES] ? YES \*

Do you currently have Java and HTML files for HTML-based functionality

installed in this APPL\_TOP [YES] ? YES \*

Do you currently have Oracle Applications forms files installed

in this APPL\_TOP [YES] ? YES \*

Do you currently have concurrent program files installed

in this APPL\_TOP [YES] ? YES \*

Please enter the name Oracle Applications will use to identify this APPL\_TOP.

The APPL\_TOP name you select must be unique within an Oracle Applications

System, must be from 1 to 30 characters long, may only contain

alphanumeric and underscore characters, and must start with a letter.

Sample APPL\_TOP Names are: "prod\_all", "demo3\_forms2", and "forms1".

APPL\_TOP Name [oraappdevat] : oraappdevat \*

You are about to apply a patch to the installation of Oracle Applications

in your ORACLE database 'HRTEST'

using ORACLE executables in '/u03/software/apphr/apps/tech\_st/10.1.2'.

Is this the correct database [Yes] ?

AutoPatch needs the password for your 'SYSTEM' ORACLE schema

in order to determine your installation configuration.

Enter the password for your 'SYSTEM' ORACLE schema:

The ORACLE username specified below for Application Object Library

uniquely identifies your existing product group: APPLSYS

Enter the ORACLE password of Application Object Library [APPS] :

Enter the directory where your Oracle Applications patch has been unloaded

The default directory is **[/u01/software/apphr/PATCHES/TYE\_RTI\_Changes\_2015/19223877]:**

**Please enter the name of your AutoPatch driver file : u19223877.drv**

AD utilities can support a maximum of 999 workers. Your

current database configuration supports a maximum of 470 workers.

Oracle recommends that you use between 128 and 256 workers.

Enter the number of parallel workers [128] : **64**

Determining valid on-site files...

Skipping...

Extract object modules from libraries for Specified driver

since no such action is present for this driver file

Performing version checking...

Log and Info File sync point:

Wed Dec 11 2013 10:53:31

AutoPatch found some files which it will not apply.

These files are listed in the AutoPatch informational message file.

Patching will commence and will generate a lot of on-screen messages … when it is finished you will be returned to the command prompt:

Done purging timing information for prior sessions.

AutoPatch is complete.

AutoPatch may have written informational messages to the file

/u01/software/apphr/apps/apps\_st/appl/admin/HRDEV/log/adpatch\_30\_07\_2014.lgi

TEST is : cd /u03/software/apphr/apps/apps\_st/appl/admin/HRTEST/log

Errors and warnings are listed in the log file

/u01/software/apphr/apps/apps\_st/appl/admin/HRDEV/log/adpatch\_30\_07\_2014.log

and in other log files in the same directory.

oraappdevkb-apphr >

In the *bottom* screen you should prepare to review your logs for errors.

oraappdevkb-apphr > cd /u01/software/apphr/apps/apps\_st/appl/admin/HRDEV/log/

Run the following commands:

grep -i 'error' \*.\*

grep -i 'fail' \*.\*

tail -100 \*preenv.lst 221

tail -100 \*postenv.lst 29

We are now finished looking at the logs so to tidy up, create a directory in your log directory with the same name as the patch:

**Oraappdevat-apphr >** mkdir 19223877

**Oraappdevat-apphr >** mv \*.\* 19223877

## PATCH 20201659

Adpatch will report this patch as having already been applied, however it does add a few more ldt’s so say Y (yes) and allow the patch to install.

* Now patch the other server

### Running HRGLOBAL

This patch requires that the **HRGLOBAL** driver is run.

Before we do this we must first run **DataInstall**. To do this, return to the main server window (top) and type:

java oracle.apps.per.DataInstall apps <pwd> thin oradevkb.is.ed.ac.uk:1796:HRDEV

where <pwd> is the APPS password. You’ll see the following:

DataInstall for hrglobal

+-------------------------------------------------+

| DataInstall Main Menu |

+-------------------------------------------------+

1. Select legislative data to install/upgrade

2. Select college data to install/upgrade

3. Select JIT or OTL to install/upgrade

4. Exit to confirmation menu

Enter your choice :1

Choose Option 1 -- **Select legislative data to install/upgrade**

# Localisation Product(s) Leg. Data? Action

-- ------------------- ------------------------ ---------- -------------

1 Global Human Resources Installed

2 Australia Human Resources

3 Australia Payroll

4 Belgium Human Resources

5 Canada Human Resources

6 Canada Payroll

7 China Human Resources

8 China Payroll

9 Denmark Human Resources

10 Denmark Payroll

11 Finland Human Resources

12 Finland Payroll

13 France Human Resources

14 France Payroll

15 Germany Human Resources

16 Hong Kong Human Resources

17 Hong Kong Payroll

18 Hungary Human Resources

19 India Human Resources

20 India Payroll

21 Ireland Human Resources

22 Ireland Payroll

23 Italy Human Resources

24 Japan Human Resources

25 Japan Payroll

26 Korea, Republic of Human Resources

27 Korea, Republic of Payroll

28 Kuwait Human Resources

29 Kuwait Payroll

30 Mexico Human Resources

31 Mexico Payroll

32 Netherlands Human Resources

33 Netherlands Payroll

34 New Zealand Human Resources

35 New Zealand Payroll

36 Norway Human Resources

37 Norway Payroll

38 Poland Human Resources

39 Russian Federation Human Resources

40 Saudi Arabia Human Resources

41 Saudi Arabia Payroll

42 Singapore Human Resources

43 Singapore Payroll

44 South Africa Human Resources

45 South Africa Payroll

46 Spain Human Resources

47 Spain Payroll

48 Sweden Human Resources

49 Sweden Payroll

50 United Arab Emirates Human Resources

51 United Arab Emirates Payroll

52 United Kingdom Public Sector Payroll Installed

53 United Kingdom Human Resources Installed

54 United Kingdom Payroll Installed

55 United States Human Resources

56 United States Payroll

<Product #><Action> - Change Action

where <Action> is [I : Install, C : Clear]

[Return] - To return to main menu.

Enter your choice (for example 2I) :1I

You wish to apply 1 (Global) 52, 53 and 54. Type the number followed by “I” e.g. 1I then hit ENTER. Repeat with:

52I <ENTER>

53I <ENTER>

54I <ENTER>

Now just hit ENTER again to return to the Main Menu:

+-------------------------------------------------+

| DataInstall Main Menu |

+-------------------------------------------------+

1. Select legislative data to install/upgrade

2. Select college data to install/upgrade

3. Select JIT or OTL to install/upgrade

4. Exit to confirmation menu

Enter your choice : 4

Type your choice – 4 Exit to confirmation menu

DataInstall - Actions confirmation

Do you really wish to exit and save your changes?

[Y] - Yes, save then exit

[N] - No, don't save but exit

[Return] - To return to the DataInstall Main Menu

Enter your choice (for example Y) :Y

You will see the following:

DataInstall - Actions summary

-----------------------------

The following actions will be performed:

Localisation Product(s) Leg. Data? Action

-------------------- ------------------------ ---------- -------------

Global Human Resources Installed Install

United Kingdom Public Sector Payroll Installed Install

United Kingdom Human Resources Installed Install

United Kingdom Payroll Installed Install

Localisation College Data? Action

-------------- ------------- -------------

United Kingdom

United States

Option Data? Action

------------------------------ ------------- -------------

JIT/Geocode

Oracle Time and Labor (OTL)

Now you are ready to run HRGLOBAL itself. Change directory in the main server window:

**oraappdevkb-apphr >** cd $PER\_TOP/patch/115/driver

**oraappdevkb-apphr >** pwd

/u01/software/apphr/apps/apps\_st/appl/per/12.0.0/patch/115/driver

Now run the adpatch utility again, making sure you are in the correct directory where the HRGLOBAL driver is located :

/u01/software/apphr/apps/apps\_st/appl/per/12.0.0/patch/115/driver

Your default directory is '/u01/software/apphr/apps/apps\_st/appl'.

Is this the correct APPL\_TOP [Yes] ?

AutoPatch records your AutoPatch session in a text file

you specify. Enter your AutoPatch log file name or press [Return]

to accept the default file name shown in brackets.

Filename [adpatch.log] : hrglobal\_05-02-15.log

You can be notified by email if a failure occurs.

Do you wish to activate this feature [No] ?

Please enter the batchsize [1000] :

You are about to apply a patch to the installation of Oracle Applications

in your ORACLE database 'HRDEV'

using ORACLE executables in '/u01/software/apphr/apps/tech\_st/10.1.2'.

Is this the correct database [Yes] ?

AutoPatch needs the password for your 'SYSTEM' ORACLE schema

in order to determine your installation configuration.

Enter the password for your 'SYSTEM' ORACLE schema:

The ORACLE username specified below for Application Object Library

uniquely identifies your existing product group: APPLSYS

Enter the ORACLE password of Application Object Library [APPS] :

Enter the directory where your Oracle Applications patch has been unloaded

The default directory is [/u01/software/apphr/apps/apps\_st/appl/per/12.0.0/patch/115/driver] :

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

This Patch seems to have been applied already.

Would you like to continue anyway [N] ? Y

Enter the number of parallel workers [128] : **64**

This can take a long time, so don’t be surprised to see many scrolling lines like:

15300 PL/SQL objects processed.

15400 PL/SQL objects processed.

15500 PL/SQL objects processed.

15600 PL/SQL objects processed.

15700 PL/SQL objects processed.

15800 PL/SQL objects processed.

15900 PL/SQL objects processed.

16000 PL/SQL objects processed.

16100 PL/SQL objects processed.

16200 PL/SQL objects processed.

16300 PL/SQL objects processed.

16400 PL/SQL objects processed.

### Run adadmin to compile Schema

Run the adadmin utility:

Answers to questions as per the start of this document.

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] : 3

Compile/Reload Applications Database Entities

---------------------------------------------------

1. Compile APPS schema

2. Compile menu information

3. Compile flexfields

4. Reload JAR files to database

5. Return to Main Menu

Enter your choice [5] : 1

Enter the number of workers [128] : **64**

Run 3 Rights processing in incremental mode [No] ?

All workers have quit.

Dropping FND\_INSTALL\_PROCESSES table...

FND\_INSTALL\_PROCESSES table dropped.

Dropping AD\_DEFERRED\_JOBS table...

AD\_DEFERRED\_JOBS table dropped.

sqlplus -s APPS/\*\*\*\*\* @/u01/software/apphr/apps/apps\_st/appl/ad/12.0.0/sql/adutlrcmp.sql APPLSYS \*\*\*\*\* APPS \*\*\*\*\* \*\*\*\*\* 64 0 NONE FALSE

sqlplus -s APPS/\*\*\*\*\* @/u01/software/apphr/apps/apps\_st/appl/ad/12.0.0/admin/sql/adinvrst.pls \*\*\*\*\*

Review the messages above, then press [Return] to continue.

### Run adadmin to reload JAR files

Press **5** to return to the main adadmin menu.

Select option **3 Compile/Reload Applications Database Entities menu**:

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] : 3

Then in the new menu please select option **4 Reload JAR files to database**

Compile/Reload Applications Database Entities

---------------------------------------------------

1. Compile APPS schema

2. Compile menu information

3. Compile flexfields

4. Reload JAR files to database

5. Return to Main Menu

Enter your choice [5] : 4

Enter the number of workers [128] : 64

Review the messages above, then press [Return] to continue

### Now regenerate messages

Press **5** to return to the main adadmin menu.

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] :1

Generate Applications Files

----------------------------------------

1. Generate message files

2. Generate form files

3. Generate report files

4. Generate product JAR files

5. Return to Main Menu

Enter your choice [5] :1

Enter the number of workers [128] : 64

Answer all the remaining questions as default by just pressing ENTER …

### Run ADADMIN to exit Maintenance Mode

Once you have applied the patch on both servers, press 5 again to return to the main menu then choose option **5 -- Change Maintenance Mode**

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] : 5

Then choose option **2 Disable Maintenance Mode**

Maintenance Mode is currently: [Enabled].

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 your choice [3] : 2

**Press 3 to return to main menu**

Please select an option:

1. Enable Maintenance Mode

2. Disable Maintenance Mode

3. Return to Main Menu

Enter your choice [3] : 3

Finally, choose option 6 – Exit AD Administration:

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] : 6

You will return to the command prompt.

# Apply Oracle security Patches

Instructions based on [document 1954250.1](https://support.oracle.com/epmos/faces/DocumentDisplay?id=1954250.1)

We do the patching in the following order (according to the above document):

1. E-Business Suite database home
2. Fusion Middleware application tier homes
3. E-Business Suite applications

## Shutdown

* Login to the application server as apphr.
* Hrenv
* Cd $ADMIN\_SCRIPTS\_HOME
* Shutdown application using ./adstpall.sh apps
* ps –fu apphr (to check all processes stopped)
* Login to the database server as orahr
* Cd $ORACLE\_HOME/appsutil/scripts/$CONTEXT\_NAME
* ./addbctl.sh stop immediate
* ./addlnctl.sh stop HRDEV

**Prerequisites**

* PSU
* OPatch is already at 11.2.0.3.6
* This is provided as a combo [Patch 20132646](https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?parent=DOCUMENT&sourceId=1954250.1&patchId=20132646), which includes Patch 19769496 and Patch 19877443.

**Installation**

### Patch 19769496

* Patch 19769496, instructions based on <https://updates.oracle.com/Orion/Services/download?type=readme&aru=18257305> and <https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=557525156730931&parent=DOCUMENT&sourceId=1954250.1&id=1929745.1&_afrWindowMode=0&_adf.ctrl-state=inmmff35o_949> (the “preferred approach”)
* Login to database server as orahr
* cd $ORACLE\_HOME/.patch\_storage
* unzip p20132646\_112030\_Linux-x86-64.zip
* cd 20132646/19769496
* opatch prereq CheckConflictAgainstOHWithDetail -ph ./ (to check for conflicts)
* cd $ORACLE\_HOME/appsutil/scripts/$CONTEXT\_NAME
* Shutdown the database using ./addbctl.sh stop immediate.
* Shutdown the listener using ./addlnctl.sh stop <DATABASE\_NAME>
* opatch apply (it mentions 19121548, which is 11.2.0.3.12, as well as 19769496, don’t supply an email and say Y when it asks if you want to remain uninformed)
* You can ignore the warnings about nmosudo, which are mentioned in the readme.
* opatch lsinventory (to verify)
* Now do the OJVM PSU patch below including its postinstall steps, before you run the postinstall steps for this one... (don’t worry about the jdbc patch mentioned in the preferred approach, it’s not required from Jan 2015).

### Patch 19877443

* Patch 19877443, instructions based on <https://updates.oracle.com/Orion/Services/download?type=readme&aru=18440720>
* Login to database server as orahr
* cd $ORACLE\_HOME/.patch\_storage
* unzip p20132646\_112030\_Linux-x86-64.zip
* cd 20132646/19877443
* opatch prereq CheckConflictAgainstOHWithDetail -ph ./ (to check for conflicts)
* opatch apply (it mentions optional component oracle.sqlj missing, also asks for email address again)
* opatch lsinventory (to verify)
* For each database running from this $ORACLE\_HOME…
* cd $ORACLE\_HOME/rdbms/admin
* sqlplus /nolog
* SQL> CONNECT / AS SYSDBA
* SQL> STARTUP
* Install the SQL portion of the patch by running the following command.
* cd $ORACLE\_HOME/sqlpatch/19877443
* sqlplus /nolog
* SQL> CONNECT / AS SYSDBA
* SQL> @postinstall.sql
* After installing the SQL portion of the patch, some packages could become INVALID. This will get recompiled upon access or you can run utlrp.sql to get them back into a VALID state.
* cd $ORACLE\_HOME/rdbms/admin
* sqlplus /nolog
* SQL> CONNECT / AS SYSDBA
* SQL> @utlrp.sql
* Now continue with the postinstall steps for Patch 19769496…

### Patch 19769496 Postinstall

* For each database running from this $ORACLE\_HOME…
* cd $ORACLE\_HOME/rdbms/admin
* sqlplus /nolog
* SQL> CONNECT / AS SYSDBA
* SQL> STARTUP
* SQL> @catbundle.sql psu apply
* select \* from dba\_registry\_history (should be a new row for bundle\_series PSU and for the OJVM)
* If the OJVM PSU was applied for a previous PSU patch, you may see invalid Java classes after execution of the catbundle.sql script in the previous step. If this is the case, run utlrp.sql to re-validate these Java classes.
* cd $ORACLE\_HOME/rdbms/admin
* sqlplus /nolog
* SQL> CONNECT / AS SYSDBA
* SQL> @utlrp.sql
* Check the following log files in $ORACLE\_HOME/cfgtoollogs/catbundle or $ORACLE\_BASE/cfgtoollogs/catbundle for any errors:
* catbundle\_PSU\_*<database SID>*\_APPLY\_*<TIMESTAMP>*.log
* catbundle\_PSU\_*<database SID>*\_GENERATE\_<*TIMESTAMP>*.log

I did a shutdown immediate at this point, as there is still work to do on the apps tier.

## Applying PSU to Fusion Middleware

### Applying to 10.1.3.5 ORACLE\_HOME

### [Patch 19952538](https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?parent=DOCUMENT&sourceId=1954250.1&patchId=19952538)

[Patch 19952538](https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?parent=DOCUMENT&sourceId=1954250.1&patchId=19952538), instructions based on <https://updates.oracle.com/Orion/Services/download?type=readme&aru=18346466>

* Login to application server as apphr.
* Opatch is already on 1.0.0.0.64, so no need to upgrade
* Set your ORACLE\_HOME to /u01/software/apphr/apps/tech\_st/10.1.3 (this can’t be done just by running hrenv, which has 10.1.2 as the ORACLE\_HOME)
* Cd $ ORACLE\_HOME/.patch\_storage
* You should now be in /u01/software/apphr/apps/tech\_st/10.1.3
* unzip p19952538\_101350\_SOLARIS64.zip
* cd 19952538
* opatch napply (there are multiple patches here, usual messages about email addresses, opatch also advises that it will rollback 4601861 and install 12419228, which is ok)
* opatch lsinventory (to verify, note that it applies 10011970, 12419228, 14123312, 19952531 and 9273888)
* Run the 19952538/remove\_demo.sh script to remove vulnerable Oracle HTTP Server and JAZN demos only if CPUJul2012 or later has not been previously applied:
* sh remove\_demo.sh (but these are not present in our installation)

#### Applying to 10.1.2.3 ORACLE\_HOME

## 

[Patch 19434967](https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?parent=DOCUMENT&sourceId=1954250.1&patchId=19434967)

* [Patch 19434967](https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?parent=DOCUMENT&sourceId=1954250.1&patchId=19434967), instructions based on <https://updates.oracle.com/Orion/Services/download?type=readme&aru=18032369>
* Patch 14825718 already applied.
* Cd $ORACLE\_HOME/.patch\_storage
* OUI is installed but appears to be missing some components, and causes opatch to fail on apply, so upgrade OUI according to <https://updates.oracle.com/Orion/Services/download?type=readme&aru=13621074>
* Unzip p19434967\_101232\_SOLARIS.zip (why is this only available in 32 bit?)
* Cd 19434967
* Opatch apply (note that it overlays 14825718)
* cd $ORACLE\_HOME/j2ee/OC4J\_BI\_Forms/applications/formsapp/formsweb/WEB-INF
* cp orion-web.xml $ORACLE\_HOME/j2ee/OC4J\_BI\_Forms/applications/orion-web.xml\_pre9282569
* cp web.xml $ORACLE\_HOME/j2ee/OC4J\_BI\_Forms/applications/web.xml\_pre9282569
* Redeploy formsapp by executing the following command:
* dcmctl redeployApplication -f $ORACLE\_HOME/forms/j2ee/formsapp.ear -a formsapp -co OC4J\_BI\_Forms (this fails, but see <https://support.oracle.com/epmos/faces/SearchDocDisplay?_adf.ctrl-state=6rl2e44et_262&_afrLoop=893913550608605#SYMPTOM> )
* Restart OC4J\_BI\_Forms (but this will be done as part of the application restart)

## Applying PSU to E-Business Suite

**Prerequisites**

* Already on R12.AD.B.delta.3 and R12.ATG\_PF.B.delta.3.
* We thought R12.BNE.B.delta.4 didn’t apply to us, but it needs to be present or the main patch will fail. Apply using Patch 19273341.
* [Patch 19393542](https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?parent=DOCUMENT&sourceId=1954250.1&patchId=19393542)

**Installation**

### [Patch 19393542](https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?parent=DOCUMENT&sourceId=1954250.1&patchId=19393542)

* [Patch 19393542](https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?parent=DOCUMENT&sourceId=1954250.1&patchId=19393542), instructions based on <https://updates.oracle.com/Orion/Services/download?type=readme&aru=18532052>
* Login to database server as orahr
* cd $ORACLE\_HOME/.patch\_storage
* unzip p19393542\_112030\_Linux-x86-64.zip
* cd 19393542
* opatch prereq CheckConflictAgainstOHWithDetail -ph ./ (to check for conflicts)
* opatch apply
* opatch lsinventory (to verify)

### Startup

* Login to the database server as orahr
* Cd $ORACLE\_HOME/appsutil/scripts/$CONTEXT\_NAME
* Start the database using ./addbctl.sh start
* Start the listener using ./addlnctl.sh start <DATABASE\_NAME>.
* Login to the application server as apphr
* Execute hrenv
* cd $ADMIN\_SCRIPTS\_HOME
* Startup application using ./adstrtal.sh apps.

# Additional TYE15 patch

**Beginning Patching**

**Prerequisites**

Passwords for the APPS user for either DEV, TEST or LIVE  
Password for ORACLE SYSTEM  
Passwords for apphr on the DEV, TEST or LIVE servers

**START TIME:**

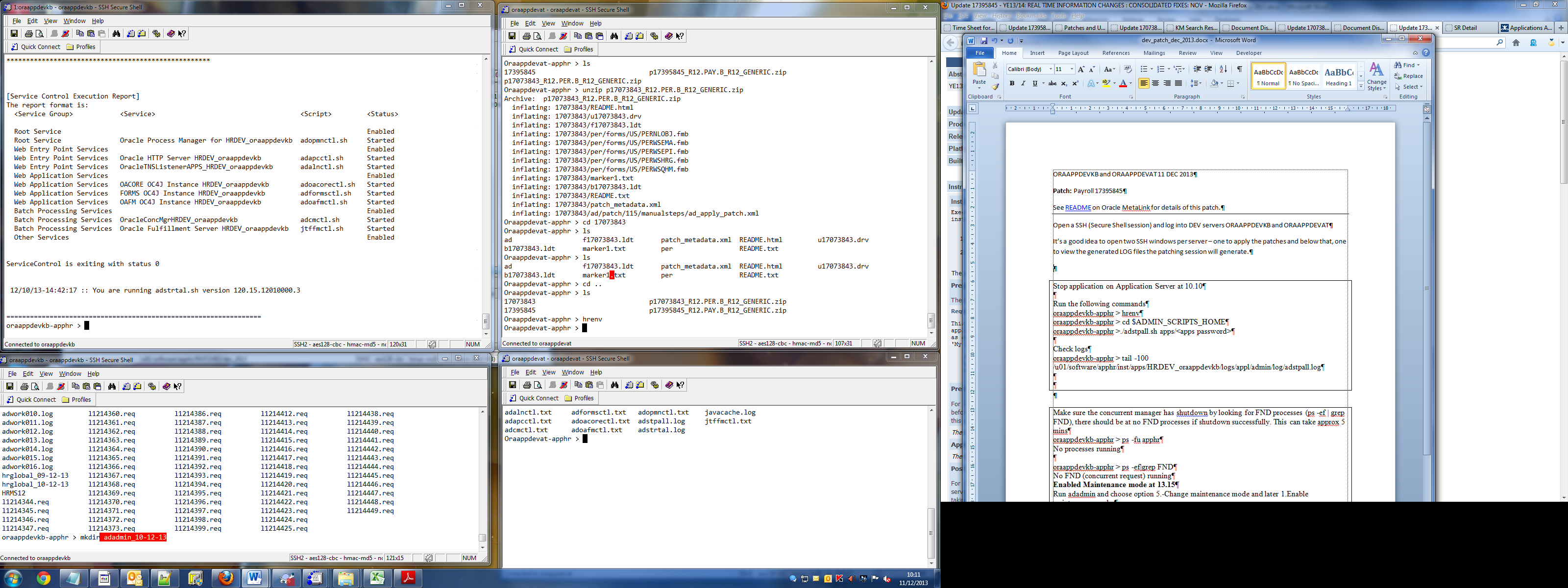
Open a SSH (Secure Shell session) and log into the two UNIX DEV servers ORAAPPDEVKB and ORAAPPDEVAT as user apphr.

Using SSH File Transfer change to directory /u01/software/apphr/PATCHES (Test may be … /u03/software/apphr/PATCHES**)** . Change the transfer setting to **Binary** and copy the file to the server and copy the file **p20487389\_R12.PAY.B\_R12\_GENERIC.zip** to the server. This can be currently found in the Project folder:

K:\ISAPPS\dsg\Projects\PPP003\Patches\TYE\_RTI Changes\_2015

Repeat this on both servers (in the case of DEV, these are ORAAPPDEVKB and ORAAPPDEVAT).

It’s a good idea to open two SSH windows per server – one to apply the patches and below that, to review the generated LOG files the patching session will generate:



Now, stop HR application on the Application Server and Run the following commands. You only need to do this on sever ORAAPPDEVKB (or the currently active server):

**oraappdevkb-apphr >** hrenv

**oraappdevkb-apphr >** cd $ADMIN\_SCRIPTS\_HOME

**oraappdevkb-apphr >** ./adstpall.sh apps/<apps password>

This will run a series of shell scripts to disconnect the Applications tier.

Now check logs to ensure everything has stopped on the application tier:

**oraappdevkb-apphr >** tail -100 /u01/software/apphr/inst/apps/HRDEV\_oraappdevkb/logs/appl/admin/log/adstpall.log

**(For TEST**:

tail -100 /u03/software/apphr/inst/apps/HRTEST\_minard/logs/appl/admin/log/adstpall.log)

Make sure the concurrent manager has shut down by looking for FND processes (ps -ef | grep FND), there should be at no FND processes if shutdown successfully. This *can* take approx 5 mins.

**oraappdevkb-apphr >** ps -fu apphr

No processes running

If there are still processes running you can run ./adstpall again

**oraappdevkb-apphr >** ps -ef|grep FND

No FND (concurrent request) running – you should just see something like:

apphr 26287 13701 0 14:05:15 pts/10 0:00 grep FND

Run **adadmin** and respond to the questions with the defaults (just press **Enter**)

**oraappdevkb-apphr >** adadmin

Your default directory is '/u01/software/apphr/apps/apps\_st/appl'.

Is this the correct APPL\_TOP [Yes] ?

Filename [adadmin.log] : **adadmin\_20-02-2015.log**

You can be notified by email if a failure occurs.

Do you wish to activate this feature [No] ?

Please enter the batchsize [1000] :

You are about to use or modify Oracle Applications product tables

in your ORACLE database 'HRTEST'

using ORACLE executables in '/u03/software/apphr/apps/tech\_st/10.1.2'.

Is this the correct database [Yes] ?

Enter the password for your 'SYSTEM' ORACLE schema:

Enter the ORACLE password of Application Object Library [APPS] :

AD Administration is verifying your username/password.

The status of various features in this run of AD Administration is:

<-Feature version in->

Feature Active? APPLTOP Data model Flags

------------------------------ ------- -------- ----------- -----------

CHECKFILE Yes 1 1 Y N N Y N Y

PREREQ Yes 6 6 Y N N Y N Y

CONCURRENT\_SESSIONS No 2 2 Y Y N Y Y N

PATCH\_TIMING Yes 2 2 Y N N Y N Y

PATCH\_HIST\_IN\_DB Yes 6 6 Y N N Y N Y

SCHEMA\_SWAP Yes 1 1 Y N N Y Y Y

JAVA\_WORKER Yes 1 1 Y N N Y N Y

CODELEVEL Yes 1 1 Y N N Y N Y

Identifier for the current session is 49281

Reading product information from file...

Reading language and territory information from file...

Reading language information from applUS.txt ...

Reading database to see what industry is currently installed.

Reading FND\_LANGUAGES to see what is currently installed.

Currently, the following language is installed:

Code Language Status

---- --------------------------------------- ---------

US American English Base

Your base language will be AMERICAN.

Setting up module information.

Reading database for information about the modules.

Saving module information.

Reading database for information about the products.

Reading database for information about how products depend on each other.

Reading topfile.txt ...

Saving product information.

Saving product information.

AD code level : [B.3]

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] :5

Choose Option 5 **Change maintenance mode**

Then choose Option 1 -- **Enable 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 your choice [3] : 1

Enabled Maintenance mode at 13.15

Successfully enabled Maintenance Mode.

Review the messages above, then press [Return] to continue.

Press **3** to Return to Main Menu, then **6 Exit AD Administration**

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

BEFORE PATCHING ALWAYS MAKE SURE THAT THERE IS A COPY OF httpd.conf

oraappdevkb-apphr > cd /u01/software/apphr/apps/tech\_st/10.1.3/Apache/Apache/conf

TEST is /u03/

oraappdevkb-apphr > cp -p httpd.conf httpd.conf\_MISKEEP\_20-02-2015

cd $COMMON\_TOP/\_pages

Then check the *folder* **\_oa\_\_html** exits (for example, ls \_oa\*)

If this folder does not exist an error will happen in the patching when trying to compile JPS pages

**cd** $COMMON\_TOP/\_pages

cd /u01/software/apphr/apps/apps\_st/comn/\_pages/\_oa\_\_html

TEST is /u03/software/apphr/apps/apps\_st/comn/\_pages/\_oa\_\_html

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* START PATCHING \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Change to Directory where the patch was downloaded, unzip patch then change into patch directory

cd /u01/software/apphr/PATCHES/TYE\_RTI\_Changes\_2015

(TEST is /u03/software/apphr/PATCHES/TYE\_RTI\_Changes\_2015)

unzip p20487389\_R12.PAY.B\_R12\_GENERIC.zip

cd 20487389

You are now ready to run the **adpatch** utility to apply your patch:

Oraappdevat-apphr > adpatch

Copyright (c) 2002 Oracle Corporation

Redwood Shores, California, USA

Oracle Applications AutoPatch

Version 12.0.0

NOTE: You may not use this utility for custom development

unless you have written permission from Oracle Corporation.

Attention: AutoPatch no longer checks for unapplied pre-requisite patches.

You must use OAM Patch Wizard for this feature. Alternatively, you can

review the README for pre-requisite information.

Your default directory is '/u03/software/apphr/apps/apps\_st/appl'.

Is this the correct APPL\_TOP [Yes] ?

AutoPatch records your AutoPatch session in a text file

you specify. Enter your AutoPatch log file name or press [Return]

to accept the default file name shown in brackets.

**Filename [adpatch.log] : adpatch\_20-02-2015.log**

You can be notified by email if a failure occurs.

Do you wish to activate this feature [No]?

Please enter the batchsize [1000] :

Please enter the name of the Oracle Applications System that this

APPL\_TOP belongs to.

The Applications System name must be unique across all Oracle

Applications Systems at your site, must be from 1 to 30 characters

long, may only contain alphanumeric and underscore characters,

and must start with a letter.

Sample Applications System names are: "prod", "test", "demo" and

"Development\_2".

Applications System Name [HRTEST] : HRTEST \*

NOTE: If you do not currently have certain types of files installed

in this APPL\_TOP, you may not be able to perform certain tasks.

Example 1: If you don't have files used for installing or upgrading

the database installed in this area, you cannot install or upgrade

the database from this APPL\_TOP.

Example 2: If you don't have forms files installed in this area, you cannot

generate them or run them from this APPL\_TOP.

Example 3: If you don't have concurrent program files installed in this area,

you cannot relink concurrent programs or generate reports from this APPL\_TOP.

Do you currently have files used for installing or upgrading the database

installed in this APPL\_TOP [YES] ? YES \*

Do you currently have Java and HTML files for HTML-based functionality

installed in this APPL\_TOP [YES] ? YES \*

Do you currently have Oracle Applications forms files installed

in this APPL\_TOP [YES] ? YES \*

Do you currently have concurrent program files installed

in this APPL\_TOP [YES] ? YES \*

Please enter the name Oracle Applications will use to identify this APPL\_TOP.

The APPL\_TOP name you select must be unique within an Oracle Applications

System, must be from 1 to 30 characters long, may only contain

alphanumeric and underscore characters, and must start with a letter.

Sample APPL\_TOP Names are: "prod\_all", "demo3\_forms2", and "forms1".

APPL\_TOP Name [oraappdevat] : oraappdevat \*

You are about to apply a patch to the installation of Oracle Applications

in your ORACLE database 'HRTEST'

using ORACLE executables in '/u03/software/apphr/apps/tech\_st/10.1.2'.

Is this the correct database [Yes] ?

AutoPatch needs the password for your 'SYSTEM' ORACLE schema

in order to determine your installation configuration.

Enter the password for your 'SYSTEM' ORACLE schema:

The ORACLE username specified below for Application Object Library

uniquely identifies your existing product group: APPLSYS

Enter the ORACLE password of Application Object Library [APPS] :

Enter the directory where your Oracle Applications patch has been unloaded

The default directory is **[/u01/software/apphr/PATCHES/TYE\_RTI\_Changes\_2015/20487389]:**

**Please enter the name of your AutoPatch driver file : u20487389.drv**

AD utilities can support a maximum of 999 workers. Your

current database configuration supports a maximum of 470 workers.

Oracle recommends that you use between 128 and 256 workers.

Enter the number of parallel workers [128] : **64**

Determining valid on-site files...

Skipping...

Extract object modules from libraries for Specified driver

since no such action is present for this driver file

Performing version checking...

Log and Info File sync point:

Wed Dec 11 2013 10:53:31

AutoPatch found some files which it will not apply.

These files are listed in the AutoPatch informational message file.

Patching will commence and will generate a lot of on-screen messages … when it is finished you will be returned to the command prompt:

Done purging timing information for prior sessions.

AutoPatch is complete.

AutoPatch may have written informational messages to the file

/u01/software/apphr/apps/apps\_st/appl/admin/HRDEV/log/adpatch\_30\_07\_2014.lgi

TEST is : cd /u03/software/apphr/apps/apps\_st/appl/admin/HRTEST/log

Errors and warnings are listed in the log file

/u01/software/apphr/apps/apps\_st/appl/admin/HRDEV/log/adpatch\_30\_07\_2014.log

and in other log files in the same directory.

oraappdevkb-apphr >

In the *bottom* screen you should prepare to review your logs for errors.

oraappdevkb-apphr > cd /u01/software/apphr/apps/apps\_st/appl/admin/HRDEV/log/

Run the following commands:

grep -i 'error' \*.\*

grep -i 'fail' \*.\*

tail -100 \*preenv.lst 30 (26 in AT)

tail -100 \*postenv.lst 26 (26 in AT)

**THERE WERE NO ERROR OR FAILURES**

We are now finished looking at the logs so to tidy up, create a directory in your log directory with the same name as the patch:

**Oraappdevat-apphr >** mkdir 20487389

**Oraappdevat-apphr >** mv \*.\* 20487389

* Now patch the other server

### Run ADADMIN to Exit Maintenance Mode

Once you have applied the patch on both servers, press 5 again to return to the main menu then choose option **5 -- Change Maintenance Mode**

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] : 5

Then choose option **2 Disable Maintenance Mode**

Maintenance Mode is currently: [Enabled].

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 your choice [3] : 2

**Press 3 to return to main menu**

Please select an option:

1. Enable Maintenance Mode

2. Disable Maintenance Mode

3. Return to Main Menu

Enter your choice [3] : 3

Finally, choose option 6 – Exit AD Administration:

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] : 6

You will return to the command prompt.

## Restart the Application Tier

**oraappdevkb-apphr >** hrenv

**oraappdevkb-apphr >** cd $ADMIN\_SCRIPTS\_HOME

**Oraappdevat-apphr >** ./adstrtal.sh apps/<apps password>

Check that the application has started:

**oraappdevkb-apphr >** tail -30 /u01/software/apphr/inst/apps/HRDEV\_oraappdevkb/logs/appl/admin/log/adstrtal.log

oraappdevkb-apphr > tail -30 /u01/software/apphr/inst/apps/HRDEV\_oraappdevkb/logs/appl/admin/log/adstrtal.log

[Service Control Execution Report]

The report format is:

<Service Group> <Service> <Script> <Status>

Root Service Enabled

Root Service Oracle Process Manager for HRDEV\_oraappdevkb adopmnctl.sh Started

Web Entry Point Services Enabled

Web Entry Point Services Oracle HTTP Server HRDEV\_oraappdevkb adapcctl.sh Started

Web Entry Point Services OracleTNSListenerAPPS\_HRDEV\_oraappdevkb adalnctl.sh Started

Web Application Services Enabled

Web Application Services OACORE OC4J Instance HRDEV\_oraappdevkb adoacorectl.sh Started

Web Application Services FORMS OC4J Instance HRDEV\_oraappdevkb adformsctl.sh Started

Web Application Services OAFM OC4J Instance HRDEV\_oraappdevkb adoafmctl.sh Started

Batch Processing Services Enabled

Batch Processing Services OracleConcMgrHRDEV\_oraappdevkb adcmctl.sh Started

Batch Processing Services Oracle Fulfillment Server HRDEV\_oraappdevkb jtffmctl.sh Started

Other Services Enabled

ServiceControl is exiting with status 0

02/20/15-14:26:43 :: You are running adstrtal.sh version 120.15.12010000.3

**NOTE:** If running the adstrtal.sh script does NOT restart everything, simply run it again and check …

**oraappdevkb-apphr >** tail -30 /u01/software/apphr/inst/apps/HRDEV\_oraappdevkb/logs/appl/admin/log/adstrtal.log

If this *still* does not restore all process, simply re-run the STOP script:

**oraappdevkb-apphr >** hrenv

**oraappdevkb-apphr >** cd $ADMIN\_SCRIPTS\_HOME

**oraappdevkb-apphr >** ./adstpall.sh apps/<apps password>

Then run adstrtal.sh again. This always will restore the Application Tier. If it still does not restart the Application Tier, the issue is serious and a support call (SR) should be raised with Oracle.

## TESTING and POST-STEPS after starting application

This patch requires we also check the version of the files:

* pygbpaep.pkb
* pygbpaep.pkh

At the UNIX command prompt:

**oraappdevkb-apphr >** strings -a $PAY\_TOP/patch/115/sql/pygbpaep.pkb |grep '$Header'

This will return:

/\* $Header: **pygbpaep.pkb 120.0.12010000.141** 2015/02/12 11:55:10 rajganga noship $ \*/

Now enter the following at the command prompt:

**oraappdevkb-apphr >** strings -a $PAY\_TOP/patch/115/sql/pygbpaep.pkh |grep '$Header'

This should return:

/\* $Header: **pygbpaep.pkh 120.0.12010000.22** 2014/05/02 13:27:24 venpolis noship $ \*/

The values above in bold are the important things to check. We should have:

* pygbpaep.pkb 120.0.12010000.141
* pygbpaep.pkh 120.0.12010000.22

We have these values and so we are done.

Now, check we can log-in to the HR Application. In your browser, start Oracle applications:

<https://www-dev.epeople-fin.humanresources.ed.ac.uk/OA_HTML/AppsLogin>

or for TEST:

https://www-test.epeople-fin.humanresources.ed.ac.uk/OA\_HTML/AppsLogin

**Finally**, Check that the configuration manager is running correctly.

On Dev there should be 3 managers and on Test and Live there should be 7.

**oraappdevkb-apphr >** ps -ef |grep -i FND

apphr 28765 832 0 14:27:16 ? 0:00 FNDSM

apphr 28815 28765 0 14:27:22 ? 0:00 FNDLIBR FND Concurrent\_Processor MANAGE OLOGIN="APPS/ZG236E95B593477C7B985871C8

apphr 29692 13701 0 14:38:43 pts/10 0:00 grep -i FND

apphr 28813 28765 0 14:27:21 ? 0:00 FNDLIBR FND Concurrent\_Processor MANAGE OLOGIN="APPS/ZG4943732BBE78B2CB798045B9

apphr 28814 28765 0 14:27:22 ? 0:00 FNDLIBR FND Concurrent\_Processor MANAGE OLOGIN="APPS/ZG8E0B41F3F6C20548168B4D76

apphr 28811 28765 0 14:27:20 ? 0:00 FNDSCH APPS/ZG677ACA9D27DA17EF200D8C8F0F2A92F0DCB645A3D107F8EC67E1249D44A28469D

apphr 28706 28648 0 14:26:43 pts/10 0:01 FNDLIBR FND CPMGR FNDCPMBR sysmgr="" sleep=30 pmon=4 quesiz=1 diag=N logfile=/u

apphr 28812 28765 0 14:27:21 ? 0:00 FNDCRM APPS/ZGE83BB653A120CC81C118445195CB3656C8FF607D0A7D776742686DAD173697396