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Upgrade Oracle Applications from R12.1.1 to R12.1.2

Reference Note - **Oracle E-Business Suite Readme, Release 12.1.2 (Doc ID 949406.1)**

1> Database Preparation Guidelines for an E-Business Suite Release 12.1.1 Upgrade (Doc ID 761570.1)

The minimum required database version should be 11.1.0.7, R12.1.1 comes with 11.1.0.7

Test - Passed

```
[oracle12@linux1 ~]$ sqlplus "/as sysdba"

SQL*Plus: Release 11.1.0.7.0 - Production on Mon Mar 8 23:23:34 2010
Copyright (c) 1982, 2008, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.1.0.7.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
```

2> Upgrading to the Latest OracleAS 10g 10.1.3.x Patch Set in Oracle E-Business Suite Release 12 (Doc ID 454811.1)

The minimum required version of OracleAS 10g should be 10.1.3.4, R12.1.1 comes with **10.1.3.4**

```
[applmgr12@linux1 ~]$ grep "ias_version" $CONTEXT_FILE
```

```
<ias_version oa_var="s_ias_version">10.1.3.4.0</ias_version>
```

Test - Passed

3> Upgrading OracleAS 10g Forms and Reports in Oracle E-Business Suite Release 12 (Doc ID 437878.1)

The minimum required version of OracleAS 10g Forms and Reports should be 10.1.2.3.0, R12.1.1 comes with 10.1.3.4

```
[applmgr12@linux1 ~]$ grep "forms_version" $CONTEXT_FILE
```

```
<forms_version oa_var="s_forms_version">10.1.2.3.0</forms_version>
```

Test - Passed

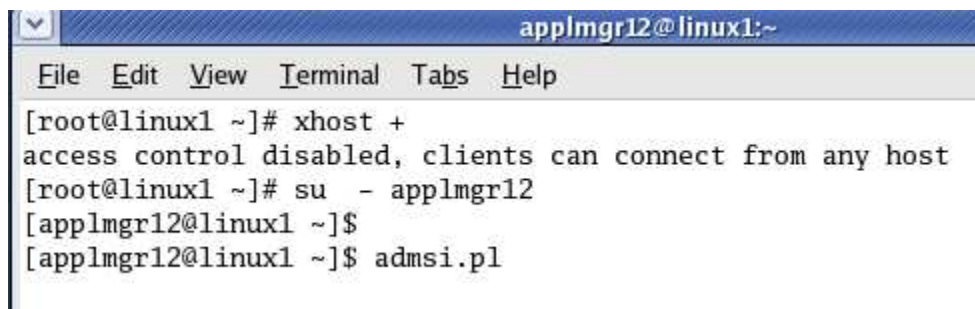
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4> Below patches/steps are required to upgrade from R12.1.1 to R12.1.2

- Use AutoPatch to apply R12.AD.B.DELTA.2 Patch 8502056
- Use AutoPatch to apply Release 12.1.2 Patch 7303033 – Patch size is 3.2 GB ☺
- Use AutoPatch to apply the latest consolidated online help Patch 7303032
- Post-Update Steps

5> Use AutoPatch to apply R12.AD.B.DELTA.2 Patch 8502056

The readme says to run admsi.pl (Patch application assistant)



```
applmgr12@linux1:~  
File Edit View Terminal Tabs Help  
[root@linux1 ~]# xhost +  
access control disabled, clients can connect from any host  
[root@linux1 ~]# su - applmgr12  
[applmgr12@linux1 ~]$  
[applmgr12@linux1 ~]$ admsi.pl
```

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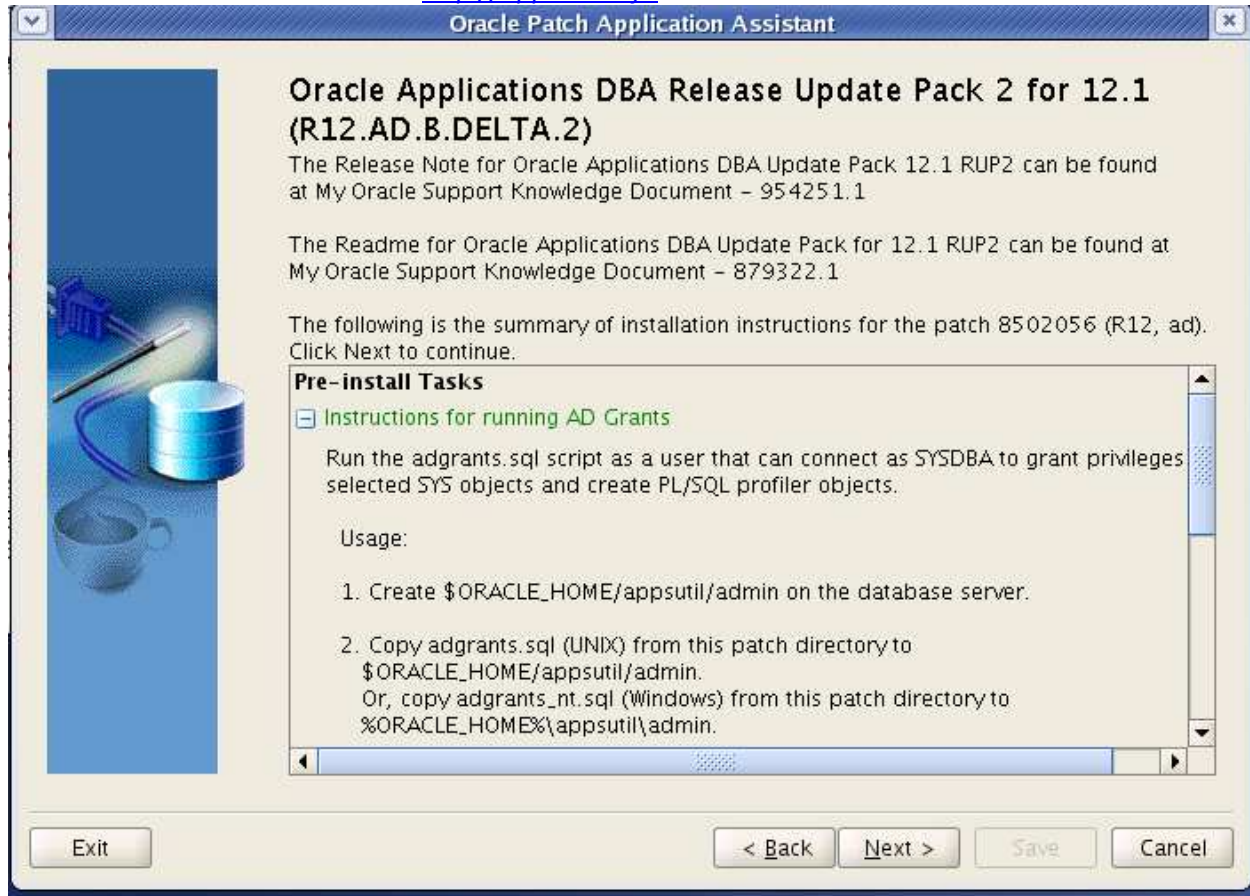
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Patch Location - /d01/oracle/R1212/8502056

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Oracle Patch Application Assistant

Oracle Applications DBA Release Update Pack 2 for 12.1 (R12.AD.B.DELTA.2)

The Release Note for Oracle Applications DBA Update Pack 12.1 RUP2 can be found at My Oracle Support Knowledge Document – 954251.1

The Readme for Oracle Applications DBA Update Pack for 12.1 RUP2 can be found at My Oracle Support Knowledge Document – 879322.1

The following is the summary of installation instructions for the patch 8502056 (R12, ad). Click Next to continue.

Pre-install Tasks

- Instructions for running AD Grants

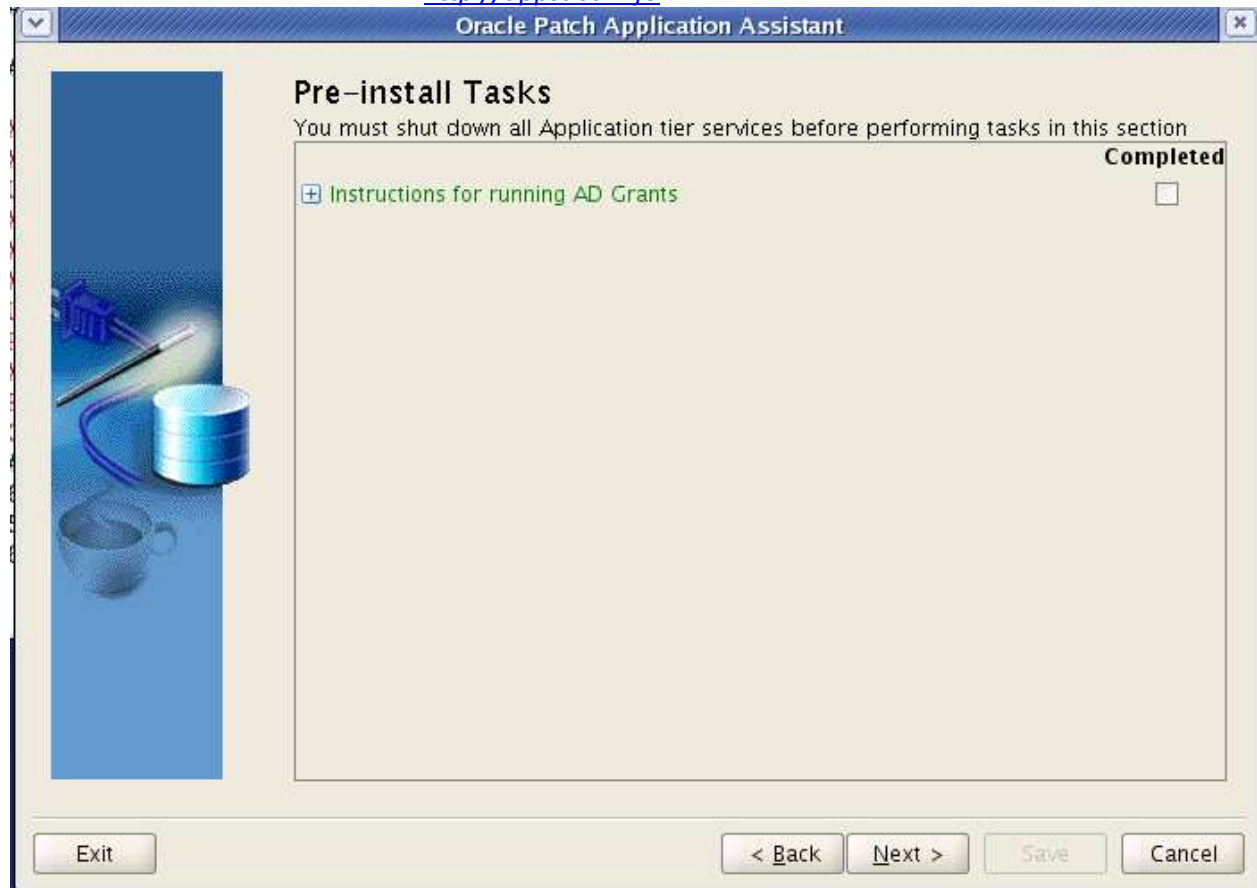
Run the adgrants.sql script as a user that can connect as SYSDBA to grant privileges selected SYS objects and create PL/SQL profiler objects.

Usage:

1. Create \$ORACLE_HOME/appsutil/admin on the database server.
2. Copy adgrants.sql (UNIX) from this patch directory to \$ORACLE_HOME/appsutil/admin.
Or, copy adgrants_nt.sql (Windows) from this patch directory to %ORACLE_HOME%\appsutil\admin.

Exit < Back Next > Save Cancel

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-- stop the services

```
su - applmgr12
```

```
cd $ADMIN_SCRIPTS_HOME
```

```
sh adstpall.sh apps/apps
```

-- Enable Maintenance Mode

```
adadmin defaultsfile=$APPL_TOP/admin/$TWO_TASK/adalldefaults.txt logfile=adadmin.log  
menu_option=ENABLE_MAINT_MODE workers=4
```

```
export PATCH_TOP=/d01/oracle/R1212
```

Create \$ORACLE_HOME/appsutil/admin on the database server.

```
su - oracle12
```

```
cd $ORACLE_HOME/appsutil
```

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mkdir admin

Copy adgrants.sql (UNIX) from this patch directory to

cd \$ORACLE_HOME/appsutil/admin

cp \$APPL_TOP/admin/adgrants.sql .

sqlplus "/as sysdba" @adgrants.sql APPS

-- Apply patch 8502056 in non interactive mode

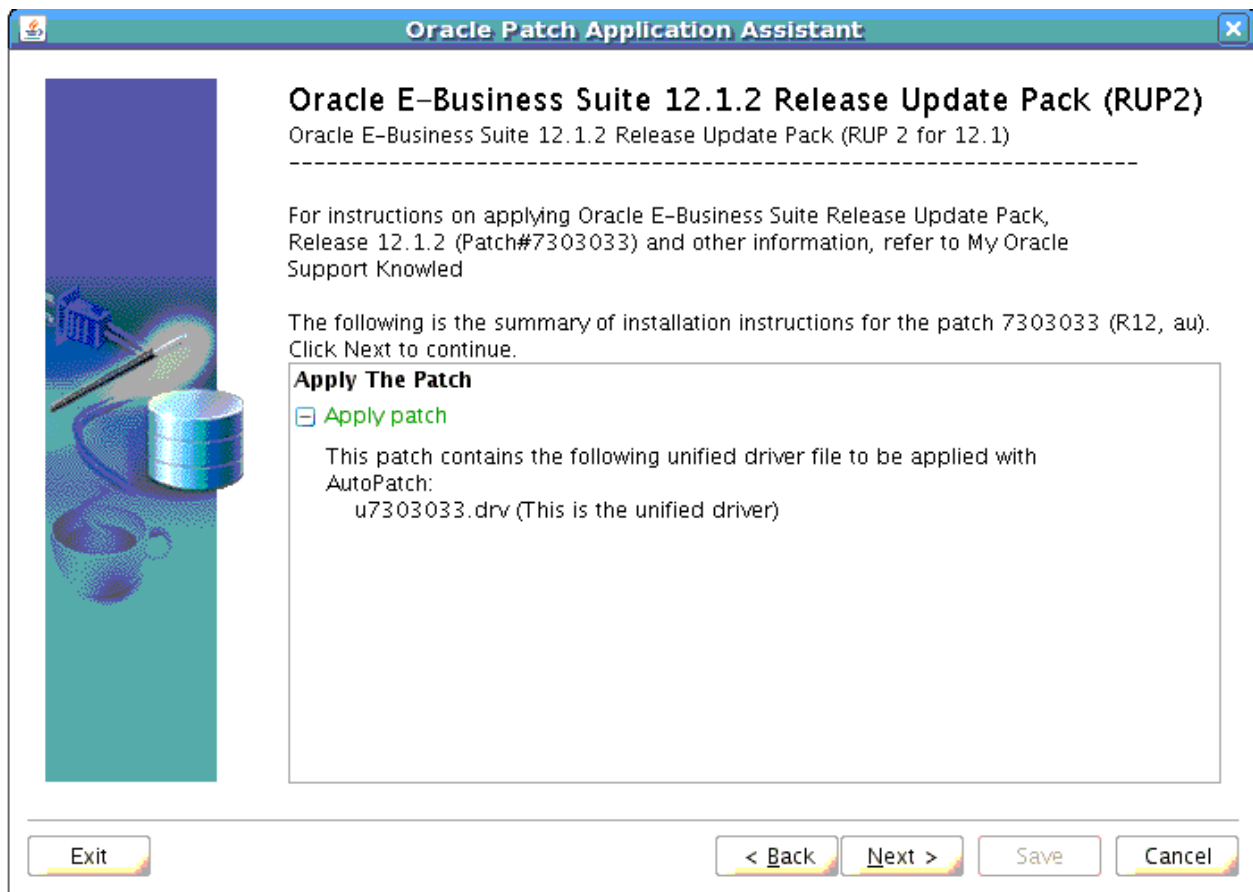
-- Takes 30 minutes

adpatch defaultsfile=\$APPL_TOP/admin/\$TWO_TASK/adalldefaults.txt logfile=u8502056.log

patchtop=\$PATCH_TOP/8502056 driver=u8502056.drv workers=4

5> Use AutoPatch to apply Release 12.1.2 Patch 7303033 – Took 18 hours ☺

Run admsi.pls as per the readme file



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```
adpatch defaultsfile=$APPL_TOP/admin/$TWO_TASK/adalldefaults.txt logfile=u7303033.log  
patchtop=$PATCH_TOP/7303033 driver=u7303033.drv workers=4
```

Issue 1>

```
Swapping bintmp and binstage.  
Stage preparation complete.  
  
adrelink is exiting with status 1  
  
End of adrelink session
```

```
An error occurred while relinking application programs.  
Continue as if it were successful [No] :
```

I told Yes and continued with patch

```
grep 'Error' adrelink.lsv
```

```
make: *** [/d02/oracle/PROD/apps/apps_st/appl/msc/12.0.0/bin/MSCCPP] Error 1
```

Solution -

Relink Error On All MSC Executables On Oracle Enterprise Linux (OEL) 5.x/Red Hat Linux (RHEL) 5.x (Doc ID 758831.1)

The below link from forums.oracle.com has given me the clue.

<http://forums.oracle.com/forums/thread.jspa?threadID=1026800&tstart=0>

You should follow the instructions in Metalink note 758831.1.

I had a similar problem while patching from 12.1.1 to 12.1.2, all of the MSC... files would not relink. I had to reinstall the binutils library and all went well.

It might work for you too (I'm running OEL 5 64bit)

Read the whole note but since I already downloaded and installed those packages as part of the initial install I just needed to reinstall this one

```
rpm -U binutils-2.17.50.0.6-6.0.1.el5.x86_64.rpm
```

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Issue 2>

```
/d02/oracle/PROD/apps/apps_st/appl/cs/12.0.0/patch/115/sql/csusrs.pls
```

```
CREATE OR REPLACE PACKAGE CS_ServiceRequest_UTIL AUTHID CURRENT_USER
```

Unable to process file in PACKAGE mode.

AD Worker error:

ORA-00060: deadlock detected while waiting for resource

Solution – I executed the csusrs.pls manually and there was no issue

```
sqlplus apps/apps @/d02/oracle/PROD/apps/apps_st/appl/cs/12.0.0/patch/115/sql/csusrs.pls
```

I have restarted the failed worker using adctrl

Issue 3> Few pll/fmx have failed to compile

The following Oracle Forms objects did not generate successfully:

au	resource	BOMFMBM1.pll
au	resource	ASTCUTSK.pll
au	resource	ASTSLLIB.pll
au	resource	CSCCCCPT.pll
au	resource	CSCADDRC.pll
au	resource	CSCCCPTY.pll
au	resource	CSFDCLIB.pll
au	resource	CSCCCCRC.pll
au	resource	CSSRTSK.pll
au	resource	CSFSCGUI.pll
au	resource	CSCCMISC.pll
au	resource	ENGFMECO.pll
au	resource	IEXCUTSK.pll
au	resource	INVMTXFH.pll
au	resource	JTFTKMAN.pll
au	resource	CSCCCACT.pll
au	resource	CSCCCACD.pll
au	resource	CSCCCTSK.pll
au	resource	CSCSOREL.pll

An error occurred while generating Oracle Forms library files.
Continue as if it were successful [No] :

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I told Yes and continued with the patch and then manually generated the plls/fmx files using adadmin, the issue got resolved.

3> Use AutoPatch to apply the latest consolidated online help [Patch 7303032](#)

```
adpatch defaultsfile=$APPL_TOP/admin/$TWO_TASK/adalldefaults.txt logfile=u7303032.log  
patchtop=$PATCH_TOP/7303032 driver=u7303032.drv workers=4
```

Post-Update Steps

Update database tier nodes with the Release 12.1.2 code level.

After you have upgraded to Release 12.1.2, perform the following post-update steps to update all database tier nodes with the code level, provided by Release 12.1.2:

Application tier:

As the APPLMGR user, run the environment (UNIX) or the command (WINDOWS) file for the current APPL_TOP.

UNIX

```
./<APPL_TOP>/APPS<CONTEXT_NAME>.env
```

Run the admkappsutil.pl utility to create the file appsutil.zip in the <INST_TOP>/admin/out directory.

```
perl <AD_TOP>/bin/admkappsutil.pl
```

As the ORACLE user, run the environment (UNIX) or the command (WINDOWS) file for the current ORACLE_HOME.

UNIX

```
cd <RDBMS ORACLE_HOME>
```

```
./<RDBMS ORACLE_HOME>/<CONTEXT_NAME>.env
```

Copy or FTP the appsutil.zip file to the <RDBMS ORACLE_HOME>.

Uncompress appsutil.zip under the <RDBMS ORACLE_HOME>.

```
cd <ORACLE_HOME>
```

```
mv appsutil appsutil_old
```

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```
unzip -o appsutil.zip
```

Run AutoConfig on the <RDBMS ORACLE_HOME>.

```
perl adbdxml.pl appsuser=apps appspass=apps
```

Below is the error

```
JRE_TOP or java executable not found at its desired location /d02/oracle/PROD/db  
/tech_st/11.1.0/appsutil/jre, /d02/oracle/PROD/db/tech_st/11.1.0/appsutil/jre/bin/java
```

Solution :

Copy the jre from appsutil_old

```
cd $ORACLE_HOME/appsutil_old
```

```
cp -R jre /d02/oracle/PROD/db/tech_st/11.1.0/appsutil
```

```
perl adbdxml.pl appsuser=apps appspass=apps
```

The context file has been created at:

```
/d02/oracle/PROD/db/tech_st/11.1.0/appsutil/ PROD_linux1.xml
```

■ Run autoconfig

```
cd /d02/oracle/PROD/db/tech_st/11.1.0/appsutil/bin
```

```
sh adconfig.sh
```

Enter the full path to the Context file: /d02/oracle/PROD/db/tech_st/11.1.0/appsutil/ PROD_linux1.xml

Enter the APPS user password:

Database tier and application tier:

Re-run adpreclone.pl on the database tier and the application tier. Since updates included in RUP6 were applied to the system, adpreclone must be run again to apply the updates to the clone directory structures that were used during cloning.

```
perl adpreclone.pl dbTier
```

```
perl adpreclone.pl appsTier
```

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■ Disable the maintenance mode

```
adadmin menu_option=DISABLE_MAINT_MODE workers=4 defaultsfile=$APPL_TOP/admin  
/$TWO_TASK/adalldefaults.txt logfile=adadmin_DISABLE_MAINT_MODE.log
```

■ Start the services

```
cd $ADMIN_SCRIPTS_HOME  
sh adstrtal.sh apps/apps
```

Final check - Check whether the update is done or not from backend

```
[oracle12@linux1 bin]$ sqlplus apps/apps  
SQL*Plus: Release 11.1.0.7.0 - Production on Mon Mar 8 23:56:46 2010  
Copyright (c) 1982, 2008, Oracle. All rights reserved.  
  
Connected to:  
Oracle Database 11g Enterprise Edition Release 11.1.0.7.0 - Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options  
  
SQL> select release_name from fnd_product_groups;  
  
RELEASE_NAME  
-----  
12.1.2
```

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Check whether application is running from frontend



Name	Node	Processes		Requests		Status
		Actual	Target	Running	Pending	
Internal Manager	LINUX1	1	1		0	
Conflict Resolution Manager	LINUX1	1	1		0	
Output Post Processor	LINUX1	1	1			
Scheduler/Pre-releaser Manager	LINUX1	1	1			
Service Manager: LINUX1	LINUX1	1	1			
Session History Cleanup	LINUX1	1	1	0	0	
UWQ Worklist Items Release	LINUX1	1	1	0	0	
Inventory Manager	LINUX1	1	1	0	0	
INV Remote Procedure Manager	LINUX1	1	1			
OAM Metrics Collection Manager	LINUX1	1	1	0	0	
PA Streamline Manager	LINUX1	1	1	0	0	
PO Document Approval Manager	LINUX1	1	1			

Service Info