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| **In this Document**   |  |  | | --- | --- | |  | [Goal](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=528781684796728&id=278641.1&_adf.ctrl-state=jo2b0rzlp_83#GOAL) |  |  |  | | --- | --- | |  | [To apply an Interim Patchset for example the 10.2.0.4 Patchset or January 2010 10.2.0.4 RDBMS PSU, to both the Primary and Standby Sites.](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=528781684796728&id=278641.1&_adf.ctrl-state=jo2b0rzlp_83#aref_section11) |  |  |  | | --- | --- | |  | [Solution](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=528781684796728&id=278641.1&_adf.ctrl-state=jo2b0rzlp_83#FIX) |  |  |  | | --- | --- | |  | [Process Overview:](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=528781684796728&id=278641.1&_adf.ctrl-state=jo2b0rzlp_83#aref_section21) |  |  |  | | --- | --- | |  | [The Interim Patchset application in detail - in this case 10.2.0.4 PSU 3 or Patch 9119284](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=528781684796728&id=278641.1&_adf.ctrl-state=jo2b0rzlp_83#aref_section22) |   **Applies to:**  Oracle Database - Enterprise Edition - Version 10.1.0.2 to 11.2.0.4 [Release 10.1 to 11.2] Information in this document applies to any platform.  **Goal**    **Would you like to explore this Topic further with other Oracle Customers, Oracle Employees and Industry Experts ??**  You can discuss this Note, show your Experiences or ask Questions about it directly right at the Bottom of this Note in the Discussion Thread about this Document.  If you want to discover Discussions about other Articles und Subjects or even post new Discussions you can access the [My Oracle Support Community Page for High Availability Data Guard](https://communities.oracle.com/portal/server.pt/community/high_availability_data_guard/302)    ***To apply an Interim Patchset for example the 10.2.0.4 Patchset or January 2010 10.2.0.4 RDBMS PSU, to both the Primary and Standby Sites.***  Configurations with a logical standby should refer instead to My Oracle Support Article "Upgrading Oracle Database with a Logical Standby Database In Place (Doc ID 437276.1)".   The process for applying the Patchset/PSU/CPU to a Primary and Standby site will be the same as that used to apply a patchset.   The following is one approach to performing this task:  **Solution**  **Process Overview:**  1. In the primary disable log shipping to the standby site.   2. Shutdown the standby site and apply interim patchsets to the RDBMS binaries as per the README. This includes Patchset/Patchset Update(PSU)/Critical Patch Update (CPU). You will not be able to and do not need to run the scripts(catpatch.sql etc) against the standby rdbms itself.  Start the standby site to mount only, do not restart managed recovery.  3. Shutdown the primary site, apply the Patchset/PSU/CPU patch to the RDBMS binaries and patch the RDBMS itself using the instructions in the README (run catpatch/catbundle/catcpu etc).  **NOTE:** The latest Patchsets for Oracle 11gR2 (11.2.0) require to be installed into a new ORACLE\_HOME. So mind to reset your Environment and copy corresponding Files (like SPFILE, Network Files,..) to the new ORACLE\_HOME, too. Follow the Database Upgrade Guide for further Details.  4. Start the primary site, re-enable log shipping to the standby.   5. At the standby site restart redo apply/managed recovery and the RDBMS changes implemented in the Primary Site through catpatch/catbundle/catcpu will also be applied to the standby. **NOTE:** Step 5. should be done immediately after upgrading the Database Binaries on the Standby Database. It is to ensure the Data Dictionary (CATPROC)-Version matches the Version of the Database Binaries. If this does not match (eg. when you upgrade the Standby Database Binaries first and perform a Role Change on the Standby before you upgrade the Primary) you may run into severe Problems. Having different Patchlevels in a Data Guard Physical Standby Database Environment is not supported anyway, see Mixed Oracle Version support with Data Guard Redo Transport Services (Doc ID 785347.1) for further Details and Reference.  6. Checks to perform to ensure the patch has been applied successfully at the primary and standby sites.  ***The Interim Patchset application in detail - in this case 10.2.0.4 PSU 3 or Patch 9119284***  **NOTE:** If you are using Oracle Restart (starting from 11.2.0.x) you have to use the SRVCTL-Commands like shown for RAC Databases to stop/start the Database and Services.  **1. If you are using a Data Guard Broker configuration, in the Primary Site disable archiving to Standby Site.**   If this is RAC you will need to ensure that archiving is disabled from all Primary Site Instances. When a Data Guard Broker configuration is in place this will be managed through dgmgrl. If you are using sqlplus and DO NOT have a broker configuration this would need to be performed from the sql prompt.  1.1 Disable log shipping using DGMGRL.  DGMGRL> connect /  Connected.  DGMGRL> show database verbose plb\_prm  Database  Name: plb\_prm  Role: PRIMARY  Enabled: YES  Intended State: ONLINE  Instance(s):  plb  Properties:  InitialConnectIdentifier = 'plb\_prm\_dgmgrl'  .. . Current status for "plb\_prm":  SUCCESS   DGMGRL> edit database plb\_prm set state='LOG-TRANSPORT-OFF';  Succeeded.    DGMGRL> exit  **OR**  1.2 If you are managing the environment using sqlplus   In this case you DO NOT have a Data Guard Broker configuration disable the destination used to ship archives from the primary to the standby site using sqlplus.  SQL> alter system set log\_archive\_dest\_state\_X=defer scope=both sid='\*'  **2. Apply the patch at the Standby Site binaries.**   If this is a RAC standby this patch application would occur across all nodes.   2.1.1 If this is a single instance environment shutdown ALL processes running from the home.   This will include all listeners, database instances, asm instances etc running from the home to patched.  [oracle@aulnx9 patches]$ lsnrctl stop lsnrplb   LSNRCTL for Linux: Version 10.2.0.4.0 - Production on 04-FEB-2010 08:41:29  Copyright (c) 1991, 2007, Oracle. All rights reserved.  Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=aulnx9.au.oracle.com)(PORT=1666)))  The command completed successfully   [oracle@aulnx9 patches]$ sqlplus / as sysdba   SQL\*Plus: Release 10.2.0.4.0 - Production on Thu Feb 4 08:42:02 2010  Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  Connected to:  Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production  With the Partitioning, OLAP, Data Mining and Real Application Testing options   SQL> shutdown immediate   ORA-01109: database not open  Database dismounted.  ORACLE instance shut down.  **OR**  2.1.2 If this a RAC standby shutdown all the RAC services that are running from the ORACLE\_HOME to be patched.   In this case the RAC database is called plb and the listener name for the listener running from the ORACLE\_HOME to patched is lsnrplb.  [oracle@aulnx13 ~] srvctl stop database -d plb\_std  [oracle@aulnx13 ~] srvctl stop listener -n aulnx13.au.oracle.com -l lsnrplb\_aulnx13  [oracle@aulnx13 ~] srvctl stop listener -n aulnx14.au.oracle.com -l lsnrplb\_aulnx14  2.2 The release of OPatch that is supplied with 10.2.0.4 will not be able to apply a PSU as seen through the errors below.  [oracle@aulnx9 9119284]$ pwd  /home/oracle/patches/9119284  [oracle@aulnx9 9119284]$ which opatch  /u01/oracle/product/10.2.0/db\_plb/OPatch/opatch   [oracle@aulnx9 9119284]$ opatch apply   Invoking OPatch 10.2.0.4.2  Oracle Interim Patch Installer version 10.2.0.4.2  Copyright (c) 2007, Oracle Corporation. All rights reserved.  Oracle Home : /u01/oracle/product/10.2.0/db\_plb  Central Inventory : /u01/oraInventory  from : /etc/oraInst.loc  OPatch version : 10.2.0.4.2  OUI version : 10.2.0.4.0  OUI location : /u01/oracle/product/10.2.0/db\_plb/oui  Log file location : /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/opatch/opatch2010-02-04\_08-45-30AM.log   ApplySession failed: Patch ID is null.  System intact, OPatch will not attempt to restore the system   OPatch failed with error code 73  2.2.1 To overcome the patch issue apply the latest copy of OPatch to the home via Patch 6880880.   If you already have a later release of OPatch then it is not necessary to perform this step.   Download Patch 6880880 and following the install instructions in the README  [oracle@aulnx9 patches]$ mv /u01/oracle/product/10.2.0/db\_plb/OPatch /u01/oracle/product/10.2.0/db\_plb/OPatch\_10204  [oracle@aulnx9 patches]$ pwd  /home/oracle/patches  [oracle@aulnx9 patches]$ ls  9119284 OPatch   [oracle@aulnx9 patches]$ cp -rp OPatch/ /u01/oracle/product/10.2.0/db\_plb/  2.3 Once the new release of OPatch is in place apply the patch to the Standby Site  Please Note: In the Standby Site only the patching of the binaries is performed, there is no need to run the catupgrade/catcpu/catbundle.sql script as this will be performed through redo apply at the Standby Site.   The example below is applying the patch to a Single Instance Standby Site and its applying PSU Patch 9119284.  [oracle@aulnx9 9119284]$ opatch apply   Invoking OPatch 11.2.0.1.1  Oracle Interim Patch Installer version 11.2.0.1.1  Copyright (c) 2009, Oracle Corporation. All rights reserved.  Oracle Home : /u01/oracle/product/10.2.0/db\_plb  Central Inventory : /u01/oraInventory  from : /etc/oraInst.loc  OPatch version : 11.2.0.1.1  OUI version : 10.2.0.4.0  OUI location : /u01/oracle/product/10.2.0/db\_plb/oui  Log file location : /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/opatch/opatch2010-02-04\_08-57-57AM.log  Patch history file: /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/opatch/opatch\_history.txt   ApplySession applying interim patch '9119284' to OH '/u01/oracle/product/10.2.0/db\_plb'  Running prerequisite checks...  Provide your email address to be informed of security issues, install and  initiate Oracle Configuration Manager. Easier for you if you use your My  Oracle Support Email address/User Name.  Visit http://www.oracle.com/support/policies.html for details.  Email address/User Name:  You have not provided an email address for notification of security issues.  Do you wish to remain uninformed of security issues ([Y]es, [N]o) [N]: Y  OPatch detected non-cluster Oracle Home from the inventory and will patch the local system only.  Please shutdown Oracle instances running out of this ORACLE\_HOME on the local system.  (Oracle Home = '/u01/oracle/product/10.2.0/db\_plb')  Is the local system ready for patching? [y|n]  y  User Responded with: Y  Backing up files and inventory (not for auto-rollback) for the Oracle Home  Backing up files affected by the patch '9119284' for restore. This might take a while...  Backing up files affected by the patch '9119284' for rollback. This might take a while...  Execution of 'sh /home/oracle/patches/9119284/custom/scripts/pre -apply 9119284 ':  Return Code = 0  Patching component oracle.rdbms.rsf, 10.2.0.4.0...  Updating archive file "/u01/oracle/product/10.2.0/db\_plb/lib/libgeneric10.a" with "lib/libgeneric10.a/qcodfdef.o"  ..  .  Updating jar file "/u01/oracle/product/10.2.0/db\_plb/rdbms/jlib/qsma.jar" with "/rdbms/jlib/qsma.jar/oracle/qsma/QsmaFileManager.class"  Copying file to "/u01/oracle/product/10.2.0/db\_plb/rdbms/lib/env\_rdbms.mk"  .. .  Running make for target idgmgrl  Running make for target ioracle  Running make for target client\_sharedlib  Running make for target itnslsnr  Running make for target iwrap  Running make for target genplusso  ApplySession adding interim patch '9119284' to inventory   Verifying the update...  Inventory check OK: Patch ID 9119284 is registered in Oracle Home inventory with proper meta-data.  Files check OK: Files from Patch ID 9119284 are present in Oracle Home.  --------------------------------------------------------------------------------   \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\* ATTENTION \*\*  \*\* \*\*  \*\* Please note that the Patch Set Update Installation (PSU Deinstallation) \*\*  \*\* is not complete until all the Post Installation (Post Deinstallation) \*\*  \*\* instructions noted in the Readme accompanying this PSU, have been \*\*  \*\* successfully completed. \*\*  \*\* \*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  --------------------------------------------------------------------------------   Execution of 'sh /home/oracle/patches/9119284/custom/scripts/post -apply 9119284 ':   Return Code = 0  The local system has been patched and can be restarted.   OPatch succeeded.  2.4 Start the Standby Site database to mount and restart the listener(s).  2.4.1 If the environment is a single instance (non-RAC standby)   Start the listener:  [oracle@aulnx9 9119284]$ lsnrctl start lsnrplb  LSNRCTL for Linux: Version 10.2.0.4.0 - Production on 04-FEB-2010 09:06:02  Copyright (c) 1991, 2007, Oracle. All rights reserved.  Starting /u01/oracle/product/10.2.0/db\_plb/bin/tnslsnr: please wait...  TNSLSNR for Linux: Version 10.2.0.4.0 - Production  System parameter file is /u01/oracle/product/10.2.0/db\_plb/network/admin/listener.ora  Log messages written to /u01/oracle/product/10.2.0/db\_plb/network/log/lsnrplb.log  Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=aulnx9.au.oracle.com)(PORT=1666)))  Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=aulnx9.au.oracle.com)(PORT=1666)))  STATUS of the LISTENER  ------------------------  Alias lsnrplb  Version TNSLSNR for Linux: Version 10.2.0.4.0 - Production  Start Date 04-FEB-2010 09:06:02  Uptime 0 days 0 hr. 0 min. 0 sec  Trace Level off  Security ON: Local OS Authentication  SNMP OFF  Listener Parameter File /u01/oracle/product/10.2.0/db\_plb/network/admin/listener.ora  Listener Log File /u01/oracle/product/10.2.0/db\_plb/network/log/lsnrplb.log  Listening Endpoints Summary...  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=aulnx9.au.oracle.com)(PORT=1666)))  Services Summary...  Service "plb\_std\_DGMGRL.au.oracle.com" has 1 instance(s).  Instance "plb\_std", status UNKNOWN, has 1 handler(s) for this service...  The command completed successfully  Start the database:  [oracle@aulnx9 9119284]$ sqlplus / as sysdba   SQL\*Plus: Release 10.2.0.4.0 - Production on Thu Feb 4 15:12:24 2010  Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  Connected to:  Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production  With the Partitioning, OLAP, Data Mining and Real Application Testing options   SQL> startup mount  ORACLE instance started.  Total System Global Area 268435456 bytes  Fixed Size 1266968 bytes  Variable Size 138414824 bytes  Database Buffers 125829120 bytes  Redo Buffers 2924544 bytes  Database mounted.  **OR**  2.4.2 If this is a RAC standby  [oracle@aulnx13 ~]$ srvctl start listener -n aulnx11 -l lsnrplb\_aulnx13  [oracle@aulnx13 ~]$ srvctl start listener -n aulnx12 -l lsnrplb\_aulnx14  [oracle@aulnx13 ~]$ srvctl start database -d plb\_std -o mountÃÂ¢ÃÂÃÂ¨  **3. Apply the Patch to the Primary.**  Please Note: the primary site may also require that Opatch be upgraded in the same way as it was in the Standby Site via Patch 6880880.  Change to the patch directory at the Primary Site and apply the PSU here  [oracle@aulnx8 patches]$ cd 9119284/  [oracle@aulnx8 9119284]$ pwd  /home/oracle/patches/9119284  3.1 Stop all processes running from the home being patched.  This will include listeners and databases etc.   3.1.1 If this is a single instance Primary (non-RAC)  [oracle@aulnx8 9119284]$ lsnrctl stop lsnrplb   LSNRCTL for Linux: Version 10.2.0.4.0 - Production on 04-FEB-2010 09:06:28  Copyright (c) 1991, 2007, Oracle. All rights reserved.  Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=aulnx8.au.oracle.com)(PORT=1666)))  The command completed successfully   [oracle@aulnx8 9119284]$ sqlplus / as sysdba   SQL\*Plus: Release 10.2.0.4.0 - Production on Thu Feb 4 09:06:36 2010  Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  Connected to:  Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production  With the Partitioning, OLAP, Data Mining and Real Application Testing options   SQL> shutdown immediate  Database closed.  Database dismounted.  ORACLE instance shut down.   SQL> exit  Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production  With the Partitioning, OLAP, Data Mining and Real Application Testing options  **OR**   3.1.2 If this is a RAC Primary Site  [oracle@aulnx11 ~]$ srvctl stop listener -n aulnx11 -l lsnrplb\_aulnx11  [oracle@aulnx11 ~]$ srvctl stop listener -n aulnx12 -l lsnrplb\_aulnx12  [oracle@aulnx11 ~]$ srvctl stop database -d plb  3.2 Apply the patch to the Primary Site binaries.   As per the standby site this example is applying Patchset Update 9119284 to a single instance Primary Site.  [oracle@aulnx8 9119284]$ opatch apply   Invoking OPatch 11.2.0.1.1  Oracle Interim Patch Installer version 11.2.0.1.1  Copyright (c) 2009, Oracle Corporation. All rights reserved.  Oracle Home : /u01/oracle/product/10.2.0/db\_plb  Central Inventory : /u01/oraInventory  from : /etc/oraInst.loc  OPatch version : 11.2.0.1.1  OUI version : 10.2.0.4.0  OUI location : /u01/oracle/product/10.2.0/db\_plb/oui  Log file location : /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/opatch/opatch2010-02-04\_09-10-28AM.log  Patch history file: /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/opatch/opatch\_history.txt   ApplySession applying interim patch '9119284' to OH '/u01/oracle/product/10.2.0/db\_plb'  Running prerequisite checks...  Provide your email address to be informed of security issues, install and  initiate Oracle Configuration Manager. Easier for you if you use your My  Oracle Support Email address/User Name.  Visit http://www.oracle.com/support/policies.html for details.  Email address/User Name:  You have not provided an email address for notification of security issues.   Do you wish to remain uninformed of security issues ([Y]es, [N]o) [N]: Y   OPatch detected non-cluster Oracle Home from the inventory and will patch the local system only.  Please shutdown Oracle instances running out of this ORACLE\_HOME on the local system.  (Oracle Home = '/u01/oracle/product/10.2.0/db\_plb')  Is the local system ready for patching? [y|n]  y  User Responded with: Y  Backing up files and inventory (not for auto-rollback) for the Oracle Home  Backing up files affected by the patch '9119284' for restore. This might take a while...  Backing up files affected by the patch '9119284' for rollback. This might take a while...  Execution of 'sh /home/oracle/patches/9119284/custom/scripts/pre -apply 9119284 ':  Return Code = 0  Patching component oracle.rdbms.rsf, 10.2.0.4.0...  Updating archive file "/u01/oracle/product/10.2.0/db\_plb/lib/libgeneric10.a" with "lib/libgeneric10.a/qcodfdef.o"  ..  .  Updating jar file "/u01/oracle/product/10.2.0/db\_plb/rdbms/jlib/qsma.jar" with "/rdbms/jlib/qsma.jar/oracle/qsma/QsmaFileManager.class"  .. . Running make for target client\_sharedlib  Running make for target idgmgrl  Running make for target ioracle  Running make for target client\_sharedlib  Running make for target itnslsnr  Running make for target iwrap  Running make for target genplusso  ApplySession adding interim patch '9119284' to inventory  Verifying the update...  Inventory check OK: Patch ID 9119284 is registered in Oracle Home inventory with proper meta-data.  Files check OK: Files from Patch ID 9119284 are present in Oracle Home.  --------------------------------------------------------------------------------  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\* ATTENTION \*\*  \*\* \*\*  \*\* Please note that the Patch Set Update Installation (PSU Deinstallation) \*\*  \*\* is not complete until all the Post Installation (Post Deinstallation) \*\*  \*\* instructions noted in the Readme accompanying this PSU, have been \*\*  \*\* successfully completed. \*\*  \*\* \*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  --------------------------------------------------------------------------------   Execution of 'sh /home/oracle/patches/9119284/custom/scripts/post -apply 9119284 ':  Return Code = 0  The local system has been patched and can be restarted.   OPatch succeeded.  3.3 Upgrade/Patch the RDBMS and dictionary objects.   In a RAC environment this is performed from once instance only with the remaining cluster instances down and not running. The example below once again shows patch application to a single instance (non-RAC) Primary Site and is applying PSU 9119284.  Change to the $ORACLE\_HOME/rdbms/admin directory where the patch has been applied and perform the following.  [oracle@aulnx8 9119284]$ cd $ORACLE\_HOME/rdbms/admin  [oracle@aulnx8 admin]$ sqlplus / as sysdba   SQL\*Plus: Release 10.2.0.4.0 - Production on Thu Feb 4 09:25:09 2010  Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  Connected to:  Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production  With the Partitioning, OLAP, Data Mining and Real Application Testing options   SQL> startup restrict   ORACLE instance started.  Total System Global Area 268435456 bytes  Fixed Size 1266968 bytes  Variable Size 138414824 bytes  Database Buffers 125829120 bytes  Redo Buffers 2924544 bytes  Database mounted.  Database opened.   SQL> @catbundle psu apply  PL/SQL procedure successfully completed.  ..  .  SQL> COMMIT;  Commit complete.  SQL> SPOOL off  SQL> SET echo off  Check the following log file for errors:  /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/catbundle/catbundle\_PSU\_PLB\_APPLY\_2010Feb04\_09\_25\_28.logÃÂ¢ÃÂÃÂ¨    Note: If this was a normal Patchset you would run:   SQL>@catupgrade   If this were a Critical Patch Update you would run:   SQL>@catcpu  **4. Re-establish the Data Guard environment at the Primary Site.**  4.1.1 In a Single Instance Primary restart processes running from the patched ORACLE\_HOME.  This will include the listener, database instances, ASM instance and any other processes that were previously running from this ORACLE\_HOME.  [oracle@aulnx8 admin]$ lsnrctl start lsnrplb   LSNRCTL for Linux: Version 10.2.0.4.0 - Production on 04-FEB-2010 09:45:43  Copyright (c) 1991, 2007, Oracle. All rights reserved.  Starting /u01/oracle/product/10.2.0/db\_plb/bin/tnslsnr: please wait...  TNSLSNR for Linux: Version 10.2.0.4.0 - Production  System parameter file is /u01/oracle/product/10.2.0/db\_plb/network/admin/listener.ora  Log messages written to /u01/oracle/product/10.2.0/db\_plb/network/log/lsnrplb.log  Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=aulnx8.au.oracle.com)(PORT=1666)))  Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=aulnx8.au.oracle.com)(PORT=1666)))  STATUS of the LISTENER  ------------------------  Alias lsnrplb  Version TNSLSNR for Linux: Version 10.2.0.4.0 - Production  Start Date 04-FEB-2010 09:45:43  Uptime 0 days 0 hr. 0 min. 0 sec  Trace Level off  Security ON: Local OS Authentication  SNMP OFF  Listener Parameter File /u01/oracle/product/10.2.0/db\_plb/network/admin/listener.ora  Listener Log File /u01/oracle/product/10.2.0/db\_plb/network/log/lsnrplb.log  Listening Endpoints Summary...  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=aulnx8.au.oracle.com)(PORT=1666)))  Services Summary...  Service "plb\_prm\_DGMGRL.au.oracle.com" has 1 instance(s).  Instance "plb", status UNKNOWN, has 1 handler(s) for this service...  The command completed successfully  **OR**  4.1.2 If this were a RAC environment restart the listeners on each node running from the ORACLE\_HOME being patched using srvctl.  [oracle@aulnx11 ~]$ srvctl start listener -n aulnx11 -l lsnrplb\_aulnx11  [oracle@aulnx11 ~]$ srvctl start listener -n aulnx12 -l lsnrplb\_aulnx12  4.1.3. Force the Primary to register its services with the listener.  [oracle@aulnx8 admin]$ sqlplus / as sysdba   SQL\*Plus: Release 10.2.0.4.0 - Production on Thu Feb 4 09:45:50 2010  Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  Connected to:  Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production  With the Partitioning, OLAP, Data Mining and Real Application Testing options   SQL> alter system register;   System altered.  4.2.1 In a single instance (non-RAC) disable restricted session to allow end user connectivity.  SQL> alter system disable restricted session;  System altered.  SQL> exit   Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production  With the Partitioning, OLAP, Data Mining and Real Application Testing options  **OR**  4.2.2 In a RAC Primary Site restart the primary site and all its instances  [oracle@aulnx11 ~] srvctl stop database -d plb  [oracle@aulnx11 ~] srvctl start database -d plb  If there are additional RAC services used to connect to this database these will need to be restarted using srvctl  [oracle@aulnx11 ~] srvctl start service -d plb  4.3 Re-enable log shipping to the Standby Site.  This will allow the RDBMS changes made through running catupgrade/catbundle/catcpu can be applied to the standby.   4.3.1 If you are using a Data Guard Broker configuration  [oracle@aulnx8 admin]$ dgmgrl   DGMGRL for Linux: Version 10.2.0.4.0 - Production  Copyright (c) 2000, 2005, Oracle. All rights reserved.  Welcome to DGMGRL, type "help" for information.   DGMGRL> connect /  Connected.   DGMGRL> edit database plb\_prm set state='ONLINE';  Succeeded.  DGMGRL> exit  **OR**  4.3.2 If you are using sqlplus re-enable the archive destination used to ship archives from the Primary Site to the Standby Site  SQL> alter system set log\_archive\_dest\_state\_X=enable scope=both sid='\*'  Where X is the number of the destination used for shipping redo to the standby site.    **5. The Primary will then resume shipping and media recovery will continue at the Standby site and apply the changes made through the patch application at the Primary Site.**  From the alert log at the Standby you will see logs generated during the running of the cat scripts shipped and applied to the standby:  Thu Feb 4 09:45:57 2010  RFS[1]: Archived Log: '/oradata/flash\_recovery\_area/PLB\_STD/archivelog/2010\_02\_04/o1\_mf\_1\_79\_5pmz52s2\_.arc'  RFS[1]: Archived Log: '/oradata/flash\_recovery\_area/PLB\_STD/archivelog/2010\_02\_04/o1\_mf\_1\_76\_5pmz55l4\_.arc'  RFS[1]: Archived Log: '/oradata/flash\_recovery\_area/PLB\_STD/archivelog/2010\_02\_04/o1\_mf\_1\_77\_5pmz55oo\_.arc'  RFS[1]: Archived Log: '/oradata/flash\_recovery\_area/PLB\_STD/archivelog/2010\_02\_04/o1\_mf\_1\_78\_5pmz561c\_.arc'  Thu Feb 4 09:46:24 2010  Media Recovery Log /oradata/flash\_recovery\_area/PLB\_STD/archivelog/2010\_02\_04/o1\_mf\_1\_76\_5pmz55l4\_.arc  Media Recovery Log /oradata/flash\_recovery\_area/PLB\_STD/archivelog/2010\_02\_04/o1\_mf\_1\_77\_5pmz55oo\_.arc  Media Recovery Log /oradata/flash\_recovery\_area/PLB\_STD/archivelog/2010\_02\_04/o1\_mf\_1\_78\_5pmz561c\_.arc  Thu Feb 4 09:46:44 2010  Media Recovery Log /oradata/flash\_recovery\_area/PLB\_STD/archivelog/2010\_02\_04/o1\_mf\_1\_79\_5pmz52s2\_.arc  Media Recovery Waiting for thread 1 sequence 80  **6. To check the patch has been applied successfully at the primary and standby sites perform.**   In this case it was the PSU Patch 9119284.  Please Note: Currently (10.2.0.4 PSU's) do not update the header information for tools like sqlplus nor the versioning information for the database. These will remain at 10.2.0.4.0 and NOT updated to 10.2.0.4.3 for example after the application of the PSU. You will only be able to see the PSU's application through the inventory or looking at the version  [oracle@aulnx8 admin]$ opatch lsinventory   Invoking OPatch 11.2.0.1.1  Oracle Interim Patch Installer version 11.2.0.1.1  Copyright (c) 2009, Oracle Corporation. All rights reserved.  Oracle Home : /u01/oracle/product/10.2.0/db\_plb  Central Inventory : /u01/oraInventory  from : /etc/oraInst.loc  OPatch version : 11.2.0.1.1  OUI version : 10.2.0.4.0  OUI location : /u01/oracle/product/10.2.0/db\_plb/oui  Log file location : /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/opatch/opatch2010-02-04\_10-01-18AM.log  Patch history file: /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/opatch/opatch\_history.txt  Lsinventory Output file location : /u01/oracle/product/10.2.0/db\_plb/cfgtoollogs/opatch/lsinv/lsinventory2010-02-04\_10-01-18AM.txt  --------------------------------------------------------------------------------  Installed Top-level Products (2):  Oracle Database 10g 10.2.0.1.0  Oracle Database 10g Release 2 Patch Set 3 10.2.0.4.0  There are 2 products installed in this Oracle Home.  Interim patches (1) :  Patch 9119284 : applied on Thu Feb 04 10:15:51 EST 2010  Unique Patch ID: 11999265  Created on 17 Dec 2009, 03:32:08 hrs PST8PDT  Bugs fixed:  6418420, 7835247, 7207654, 7592346, 6724797, 7936993, 7331867, 9093300  ..  .  7523787, 6029179, 5231155, 6455659  --------------------------------------------------------------------------------   OPatch succeeded.  **OR**  In the case of a PSU examine the registry history view.  SQL> select ACTION\_TIME,ACTION,NAMESPACE,VERSION,BUNDLE\_SERIES,ID from registry$history;  ACTION\_TIME  ---------------------------------------------------------------------------  ACTION NAMESPACE  ------------------------------ ------------------------------  VERSION BUNDLE\_SERIES ID  ------------------------------ ------------------------------ ----------  04-FEB-10 09.26.25.026334 AM  APPLY SERVER  10.2.0.4 PSU 3 |