



Ex Libris Patch Instructions for Oracle 10 CPUs for Voyager Windows Servers

10.2.0.4

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Table of Contents

1	OraCPUs System Information (Windows 32)	4
2	Ex Libris Patch Download Instructions (Windows 32)	5
3	Ex Libris CPU Patch Application Instructions (Windows 32)	8

1

OraCPUs System Information (Windows 32)

The following table describes the system information for the Oracle 10 Critical Patch Updates (CPU) for Voyager products on Windows 32-bit servers (April 2010).

OraCPUs System Information (Linux)		
Requirements	Space	50 MB (approximate) of space on your server
	Version	Oracle 10.2.0.4 The patch requires your server to be at Oracle 10.2.0.4.
Downtime	Time	90 - 120 minutes to complete (approximate but not to exceed)
	Client Availability	Down All operations are down during the patch process.
	Web Availability	Down Web searching is unavailable during the patch process.
	Oracle Availability	Down Oracle is up and down during phases of the patch process (per instructions). However, for all functional purposes, Oracle is considered down.
	Reboot Required	No (but optional)

2

Ex Libris Patch Download Instructions (Windows 32)

The following table describes the download instructions for the Oracle 10 Critical Patch Updates (CPU) for Voyager products on Windows 32-bit servers (April 2010).

Ex Libris Patch Download Instructions (Windows 32)	
Step-by-Step Example Instructions:	Example Commands:
1) Log in to the server as voyager or as an administrator that was assigned the ORA_DBA group privilege on the Windows server. NOTE: For sites with a split server configuration, log in to the database server(s) and download the patch on each database server (if there is more than one)	
2) Change directories to the incoming directory.	<open a Kornshell session> cd D:/incoming
3) Remove the old Oracle patch files if it exists.	rm p*_GENERIC.zip p*_WIN**.*zip
4) Run the FTP program and open the session to Ex Libris. NOTE 1: For sites with a split server configuration, log in to the database server(s) and download the patch on each database server (if there is more than one). NOTE 2: The Oracle client installation is not affected and does not need to apply this CPU.	ftp ftp.endinfosys.com

<p>5) Login as: OraCPU</p> <p>Password: Contact Customer Support for the OraCPU password.</p> <p>See the following sample:</p>	<p>LoginName: OraCPU</p> <p>Password:</p>
<pre>Connected to eagle.endinfosys.com. 220-Unauthorized use is prohibited. 220- 220-All transactions are logged. 220- 220 eagle.endinfosys.com FTP server (Version wu-2.6.0(2) Fri Feb 3 08:47:43 CST 2000) ready. Name (ftp.endinfosys.com): OraCPU 331 Password required for OraCPU. Password: 230 User OraCPU logged in. Access restrictions apply. ftp></pre>	<pre>passive bin hash prompt</pre>
<p>6) Turn on the passive mode. Set the FTP to binary mode. Turn on hash marks. Toggle off prompts.</p> <pre>ftp> passive Passive mode on. ftp> bin 200 Type set to I. ftp> hash Hash mark printing on (8192 bytes/hash mark). ftp> prompt Interactive mode off. ftp></pre>	<pre>cd 10.2.0.4/April_2010/Windows_NT</pre> <pre>ftp> cd 10.2.0.4/April_2010/Windows_NT 250 CWD command successful. ftp></pre>

<p>8) Begin the transfer of the CPU files for the patch.</p> <ul style="list-style-type: none"> ▪ p6880880_102000_WINNT.zip ▪ p9393548_10204_Win32.zip <p>Note the hash marks indicating that the transfer is in progress.</p>	
<pre>ftp> mget *.zip 200 PORT command successful. 150 Opening BINARY mode data connection for p6880880_102000_WINNT.zip (XXX bytes). #####</pre>	<pre>mget *.zip</pre>
<p>9) After the transfer is complete, type <i>bye</i> to end the FTP session.</p>	<pre>bye</pre>

3

Ex Libris CPU Patch Application Instructions (Windows 32)

The following table describes the patch application instructions for the Oracle 10 Critical Patch Updates (CPU) for Voyager products on Windows 32-bit servers (April 2010).

Ex Libris CPU Patch Application Instructions (Windows 32)	
Step-by-Step Example Instructions:	Example Commands:
<p>1) Log in to the server as voyager or as an administrator that was assigned the ORA_DBA group privilege on the Windows server.</p> <p>NOTE 1: For sites with a split server configuration, log in to the database server(s) and apply the patch to each database server (if there is more than one).</p> <p>NOTE 2: On the Windows server, voyager or the administrator was configured as a member of the ORA_DBA group. To verify this, right click My Computer -> Manage under Computer Management -> Local users and groups -> Users -> and click Voyager to view Member of. You should see ORA_DBA.</p>	<p>Log in to the Windows server directly or via the remote desktop as voyager or administrator.</p>
<p>2) Shut down all Ex Libris-related product processes that connect to the Oracle database. Voyager customers should have a set of standard startup/shutdown scripts installed on C:/etc/init.d. If this is a non-standard installation, call Customer Support, or stop voyager/apache/oracle services via Services Control.</p>	<p><Open a Kornshell session, type></p> <pre>C:/etc/init.d/VOYAGER.ksh stop C:/etc/init.d/HTTPD.KSH stop C:/etc/init.d/DBORA.KSH stop</pre>

<p>3) Confirm that ORACLE_SID and ORACLE_HOME are properly set in the system environment and that ORACLE_HOME is in \$PATH. The standard ORACLE_HOME is D:/oracle. Verify that the following commands are available in \$PATH: make, ar, ld, nm. They should be installed in D:/NUTCROOT/mksnt. If these commands are not available, call Customer Support to have commands added.</p>	<p><Open a Kornshell session></p> <pre>echo \$ORACLE_SID echo \$ORACLE_HOME which make which ar which ld which nm</pre>
<p>4) Go to the Oracle home directory. Back up the existing OPatch directory. Remove the existing OPatch directory once it is successfully backed up.</p>	<pre>cd \$ORACLE_HOME tar -cf - OPatch bzip2 -c \ > D:/incoming/ORA_old_opatch.tar.bz2 rm -rf OPatch</pre>
<p>5) Unzip and install the latest update OPatch utility for Oracle 10.2.0 on to ORACLE_HOME.</p>	<pre>cd \$ORACLE_HOME unzip D:/incoming/p6880880_102000_WINNT.zip</pre>
<p>6) Change directories to the OPatch directory and unzip the CPU zip file. You will see a directory called 9393548 that is extracted on to the \$ORACLE_HOME/OPatch directory.</p>	<pre>cd \$ORACLE_HOME/OPatch unzip D:/incoming/p9393548_10204_Win32.zip</pre>
<p>7) Confirm that Oracle is really down.</p>	<pre>ps -ef grep oracle</pre>
<p>8) Use the command line utility to perform the following work:</p> <p>Execute opatch to cross-check for an existing Oracle patch version. If this fails, it means the Oracle inventory was not set up properly. Call Customer Support.</p> <p>NOTE: Open a command line session (Start->Run-> type: cmd)</p>	<p><Open a command line session></p> <pre>cd %ORACLE_HOME%\OPatch opatch lsinventory</pre>

<p>9) Apply the CPU patch.</p> <p>NOTE: Perform this using the command line. This process normally runs for about 15-20 minutes.</p> <p>Where "Do you want to proceed?" in the following message displays, continue with a 'Y' for YES.</p> <p>If asked to enter your e-mail address, press Enter (to skip). When asked to provide the My Oracle Support password (Optional), press Enter (to skip).</p> <p>You may need to wait for quite a while for it to proceed to the next Y/N question.</p> <p>Type Y again to continue</p>	<pre>set PATH=%PATH%;%ORACLE_HOME%\OPa tch cd %ORACLE_HOME%\OPatch\9393548 opatch apply</pre>
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<pre> cd %ORACLE_HOME%\OPatch\9393548 opatch apply Invoking OPatch 10.2.0.4.9 ... Do you want to proceed? [y n] Y 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 you're my Oracle Support Email address/User Name. .. Email address/User Name: Provide your My Oracle Support password to receive security updates via your My Oracle Support account. Password (optional): Execution of 'cmd /C "D:\oracle\app\oracle\product\10.2.0\db_2\O Patch\9393548\custom\scripts\post.bat" -apply 9393548 ': Return Code = 0 The local system has been patched and can be restarted. OPatch succeeded. </pre>	
<p>10) Inspect the opatch<TIMESTAMP>.log file generated in %ORACLE_HOME%\cfgtoollogs\opatch for any errors.</p>	<pre> cd %ORACLE_HOME%\cfgtoollogs\opatch more opatch<TIMESTAMP>.log </pre>
<p>11) Determine if the Oracle Configuration Manager (ccr) is running (as a result of opatch). If yes, stop it. Otherwise, proceed to Step 12.</p>	<pre> ps -ef grep ccr <If CCR is running> cd %ORACLE_HOME%\ccr\bin emCCR stop </pre>

<p>12) Complete the post-CPU process. This means loading a set of CPU scripts into to a running Oracle instance. Start up the database first, and load the scripts as sysdba. This process takes about 15-20 minutes depending on your database size.</p> <p>NOTE: If you have trouble with starting up the Oracle services, normally via sqlplus, do the startup by using <i>net start OracleServiceVGER</i>.</p>	<pre>cd %ORACLE_HOME%\Bundle\Patch34 sqlplus /nolog connect / as sysdba startup @catcpu.sql quit</pre>
<p>13) Check the log file for any errors at %ORACLE_HOME%\cfgtoollogs\catbundle: catbundle_WINBUNDLE_VGER_APPLY_<TIME STAMP>.log</p>	<pre>cd ../../cfgtoollogs/catbundle more catbundle_WINBUNDLE_VGER_APPLY* .log</pre>
<p>14) Verify that you have to recompile views inside Oracle. This is required unless the CPU Jan2008 or later has already been applied to Oracle.</p> <p>If the number returned is one or more, you may skip Step 12. If the return of COUNT is zero, then shutdown the database and proceed with Step 13.</p> <p>SQL> select count(*) from registry\$history where ID = '6452863';</p> <pre>COUNT(*) ----- 0</pre>	<pre>sqlplus / as sysdba select count(*) from registry\$history where ID = '6452863'; shutdown quit;</pre>
<p>15) Run the view recompilation script.</p> <p>NOTE: This script needs to be run with the database restarted in the upgrade mode that restricts connection as sysdba.</p> <p>This script may take up to 15-30 minutes to complete. Afterwards, shutdown the database.</p>	<pre>cd %ORACLE_HOME%\Bundle\view_recomp ile sqlplus /nolog connect / as sysdba startup upgrade @view_recompile_jan2008cpu.sql shutdown quit</pre>

<p>16) Connect as sysdba and start up the database in normal mode. Recompile invalid objects if any were reported in the final phase of Step 10 (@catcpu) or if you recompiled views in Step 13. Run the utlrp.sql to recompile any invalid objects.</p> <p>SQL> select object_name from dba_objects where status='INVALID';</p> <p>If there are more invalid objects, you might recompile manually using this example:</p> <p>SQL> alter <object_type> schemaname.<object_name> compile;</p>	<pre>cd %ORACLE_HOME%\rdbms\admin sqlplus /nolog connect / as sysdba startup @utlrp.sql select object_name from dba_objects where status='INVALID'; shutdown quit</pre>
<p>17) Start Oracle using the standard script. NOTE: Open a Kornshell session to do this.</p>	<pre><Open a Kornshell session> C:/etc/init.d/DBORA.KSH start</pre>
<p>18) Bring the system up. Start all Ex Libris products. Afterwards, test the Voyager system to ensure that all services are up and running.</p>	<pre>C:/etc/init.d/HTTPD.KSH start C:/etc/init.d/VOYAGER.ksh start</pre>