




Deltek

Deltek Costpoint®

WebLogic 12.2.1.3 Patch Installation Guide

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Installation Overview

This document provides instructions for downloading and deploying the latest Oracle WebLogic 12.2.1.3 security patch (for Costpoint). This installation will have you apply the latest WebLogic patch to each of your WebLogic servers.

Deltek has been working on a solution to address the ongoing Oracle Critical Patches for WebLogic Server (WLS) 12.2.1.3. Oracle typically releases updates every quarter, and we will be releasing subsequently in an upcoming Maintenance Release (MR) Installer once a full regression test is complete. Depending on the complexity of the changes, Deltek will try to test/certify the patch within 90 days. We recommend you wait for Deltek to complete internal testing of all changes provided by Oracle and release the changes via an MR Installer update on DSM but are providing instructions for deploying these changes in advance of Deltek releasing the fully tested changes.

These are generic instructions for the April 2021 WLS 12.2.1.3 Stack Patch Bundle (former Critical Patch Updates). Deltek will be posting the new Oracle WLS jars on DSM soon after Oracle does their release, and we will do a quick check so that concerned clients can quickly patch their environments. Deltek will later be providing the same updates via the Costpoint MR Installer updates.

Note: Clients who choose not to wait for Deltek to release these changes officially via the Costpoint Maintenance Release (MR) Installer update do so at their own risk.

Installation Package Contents

The installation package contains the following:

- WebLogic patch ZIP file
- Deltek Costpoint WebLogic 12.2.1.3 Patch Installation Guide

Installation Prerequisites


The following prerequisites must be met before applying the latest WebLogic patch:

- Your Costpoint databases must be at version 7.1.x.
- WebLogic version 12.2.1.3 must be installed.

Adding Custom Notes to This Guide

If you would like to add custom notes to this guide that are specific to your company, Adobe® Reader® X provides this ability. If you do not already use Adobe Reader X, you can download it [here](#) free from Adobe.

To add a custom note using Adobe Reader X:

1. On the Reader toolbar, click **Comment** at the far right.
2. In the **Annotations** pane that displays, click  **Sticky Note**. The cursor changes to match the button.
3. Position the cursor at the location in the guide where you want the note to appear, and click. A note icon is inserted at the location and a text box pops up.
4. Enter your information in the text box.

5. Continue adding notes as needed.
6. Save the document.

Note: Deltek recommends that you save the document to a slightly different filename so as to keep the original from being overwritten.

When reading the document, cursor over a note icon to see the information. Double-click a note icon to edit the information.

Downloading Deltek Products using Deltek Software Manager

You can use Deltek Software Manager (DSM) to download complete Deltek products, hot fixes, cumulative updates, and sub-releases. You can access DSM through the Deltek Support Center or use Deltek Software Manager Lite to download Deltek products.

Accessing DSM from within the Deltek Support Center

To access DSM from within the Deltek Support Center:

1. In your Web browser, go to <https://deltek.custhelp.com>.
2. Enter your Deltek Support Center **Username** and **Password**, and click **Login**.
3. When the Deltek Support Center page displays, click **Product Downloads**.
4. On the Deltek Software Manager screen, click **Launch Deltek Software Manager**.
5. Click **Settings** at the top right of the dialog box to use the Settings dialog box to specify the folder where you want to download Deltek products, and click **OK**.

Note: When you log on for the first time, DSM asks you to select a default folder where Deltek products are to be downloaded.

You can change this folder anytime in the Settings dialog box.

6. In the left pane, expand the Deltek product that you want to download, if it is not already expanded.
7. Select the product type that you want to download.

Options include:

- **Complete**
- **Cumulative Updates**
- **HotFixes**
- **Sub-Release**

8. In the table, select the check box that corresponds to the Deltek product that you want to download.

The right pane displays a message stating that the product has been added to the download queue.

Note: To view the items in the download queue, click **View Download Queue** at the bottom of the left pane.

9. Click **Download** at the bottom of the left pane to download the product to the folder that you selected.

Accessing DSM Lite

To access Deltek Software Manager Lite:

1. In your Web browser, go to <https://dsm.deltek.com/DeltekSoftwareManagerLite>.
2. Enter your Deltek Support Center **Username** and **Password**, and click **Logon**.
3. When the Deltek Software Manager Lite page displays, select a product from the drop-down list.
4. Click the product type that you want to download.

Note: The download behavior and download folder may differ depending on the browser and browser settings that you are using.

DSM Documentation and Troubleshooting

- To view the online help for Deltek Software Manager, click [here](#).
- To view a tutorial on how to use Deltek Software Manager, click [here](#).
- To view more information on troubleshooting Deltek Software Manager, click [here](#).

Note: When you click a link, you will be asked to log into DSM if you aren't already logged in.

WebLogic 12.2.1.3 Patch Installation

This step provides instructions for applying the latest WebLogic 12.2.1.3 patch. You must perform this step on your Costpoint WebLogic 12.2.1.3 application server and any Costpoint WebLogic 12.2.1.3 application server nodes.

Warning: If you are running a WebLogic 12.2.1.3 cluster, you must repeat ALL of these steps on each of your WebLogic 12.2.1.3 servers.

Oracle changed the way they package and apply these WebLogic CPU patches. They are now called Service Pack Bundles (SPB). This first one, April 2021 contains a new OPatch. If you manually apply this, only MR 7.1.19 and above and MR 8.0.10 and above will gracefully handle the reporting of WebLogic Patches during the MR installation. Older MRs for both versions will report failures trying to install the older OPatch/patches. If applying these older MRs and you have already manually applied the latest WebLogic SPB, you should uncheck the WebLogic Patch feature when installing MRs older than 7.1.19 or 8.0.10.

To patch WebLogic 12.2.1.3

1. Download the latest WL Stack Patch Bundle (SPB) from DSM:
 - **pXXXXXXXX_122130_Generic.zip** (latest WL 12.2.1.3 generic stack patch bundle,i.e., p32755804_122130_Generic.zip)
2. Delete all contents from **C:\Oracle\Middleware12.2.1.3\patches** folder.
3. Copy download ZIPs to **C:\Oracle\Middleware12.2.1.3\patches** folder.
4. On Windows, click **Start » Administrative Tools » Services**.
5. On the Services screen, scroll down the **Services** list and **Stop** the **Costpoint 7.1** service.
6. Close the Services window.
7. Open a DOS CMD window in ADMIN mode and navigate to the **C:\Oracle\Middleware12.2.1.3\patches** folder.
8. Unzip the latest generic WebLogic 12.2.1.3 SPB file by running the following command, where C:\Oracle\jdk1.8.0_291 is pointing to your JDK folder and C:\Oracle\Middleware12.2.1.3 is pointing to your WebLogic installation folder. Clients should NOT use WinZip to perform this step as path generated is too long:


```
C:\Oracle\jdk1.8.0_291\bin\jar -xvf pXXXXXXXX_122130_Generic.zip
(i.e., C:\Oracle\jdk1.8.0_291\bin\jar -xvf p32755804_122130_Generic.zip)
```
9. Unzip the ORACLE OPATCH by running the following commands, where C:\Oracle\jdk1.8.0_291 is pointing to your JDK folder and C:\Oracle\Middleware12.2.1.3 is pointing to your WebLogic installation folder. Clients should NOT use WinZip to perform this step as path generated is too long:


```
cd C:\Oracle\Middleware12.2.1.3\Patches\WLS_SPB_12.2.1.3.210411\tools\opatch\generic
C:\Oracle\jdk1.8.0_291\bin\jar -xvf p28186730_139425_Generic.zip
```
10. To install the latest ORACLE OPATCH, open a DOS CMD window in ADMIN mode and run the following commands, where C:\Oracle\jdk1.8.0_291 is pointing to your JDK folder and C:\Oracle\Middleware12.2.1.3 is pointing to your WebLogic installation folder:


```
cd C:\Oracle\Middleware12.2.1.3\Patches\WLS_SPB_12.2.1.3.210411\tools\opatch\generic\6880880
```



```
C:\Oracle\jdk1.8.0_291\bin>java -jar opatch_generic.jar -skipACLSetting -silent
oracle_home=C:\Oracle\Middleware12.2.1.3
```

11. Successful completion of the OPATCH installation will show this near the bottom of the DOS CMD window:

The install operation completed successfully.

12. To install the latest security patches, open a DOS CMD window in ADMIN mode and run the following commands, where C:\Oracle\jdk1.8.0_291 is pointing to your JDK folder and C:\Oracle\Middleware12.2.1.3 is pointing to your WebLogic installation folder (and C:\Oracle\Middleware12.2.1.3\patches\WLS_SPB_12.2.1.3.210411 is the folder from one of the previous steps that the unzip command created):

```
cd C:\Oracle\Middleware12.2.1.3\patches\WLS_SPB_12.2.1.3.210411\binary_patches
set ORACLE_HOME=C:\Oracle\Middleware12.2.1.3
%ORACLE_HOME%\OPatch\opatch napply -oh %ORACLE_HOME% -phBaseFile
windows64_patchlist.txt -silent
```

13. Successful completion will show this near the bottom of the DOS CMD window:

Patches 1221313,32148634,32647468,32697734 successfully applied.

14. This warning message can be ignored:

OPatch completed with warnings.

15. On Windows, click **Start » Administrative Tools » Services**.
 16. On the Services screen, scroll down the **Services** list and **Start** the **Costpoint 7.1** service.
 17. Close the Services window.

Note: To determine the WebLogic CPU currently installed, perform the following:

```
set ORACLE_HOME=C:\Oracle\Middleware12.2.1.3
C:\Oracle\Middleware12.2.1.3\OPatch\opatch lsinv -jdk C:\Oracle\jdk1.8.0_291
```

Warning: If you are running a WebLogic 12.2.1.3 cluster, you must repeat ALL of these steps on each of your WebLogic 12.2.1.3 servers.

Appendix: If You Need Assistance

If you need assistance installing, implementing, or using Deltek Costpoint, Deltek makes a wealth of information and expertise readily available to you.

Customer Services

For over 30 years, Deltek has maintained close relationships with client firms, helping with their problems, listening to their needs, and getting to know their individual business environments. A full range of customer services has grown out of this close contact, including the following:

- Extensive self-support options through the Deltek Support Center.
- Phone and email support from Customer Care analysts
- Technical services
- Consulting services
- Custom programming
- Classroom, on-site, and Web-based training

Attention: Find out more about these and other services from the Deltek Support Center.

Deltek Support Center

The Deltek Support Center is a support Web site for Deltek customers who purchase an Ongoing Support Plan (OSP).

The following are some of the many options that the Deltek Support Center provides:

- Search for product documentation, such as release notes, install guides, technical information, online help topics, and white papers
- Ask questions, exchange ideas, and share knowledge with other Deltek customers through the Deltek Support Center Community
- Access Cloud-specific documents and forums
- Download the latest versions of your Deltek products
- Search Deltek's knowledge base
- Submit a support case and check on its progress
- Transfer requested files to a Customer Care analyst
- Subscribe to Deltek communications about your products and services
- Receive alerts of new Deltek releases and hot fixes
- Initiate a Chat to submit a question to a Customer Care analyst online

Attention: For more information regarding Deltek Support Center, refer to the online help available from the Web site.

Access Deltek Support Center

To access the Deltek Support Center:

1. Go to <https://deltek.custhelp.com>.
2. Enter your Deltek Support Center **Username** and **Password**.
3. Click **Login**.

Note: If you forget your username or password, you can click the **Need Help?** button on the login screen for help.



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