

Spectrum[™] Technology Platform

Version 12.2.1 S04

Spectrum[™]

Technology Platform

Release Notes

This document contains information about Spectrum[™] Technology Platform 12.2.1 S04. You have access only to the modules you have licensed. To evaluate any other modules, contact your Pitney Bowes account executive for a trial license key.

Who should apply this update?	This product update is for users of Spectrum [™] Technology Platform 12.2.1.
Is this update required?	This product update is not mandatory.

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Fixed Issues

Software Update 12.2.1 S04 resolves multiple issues.

External Web Service issues

Null pointer error

(CDQE-70910) Request page would intermittently drop some available SOAP operations from the display.

Invalid request error

(CDQE-71106) Attributes namespaces were improperly generated on requests.

Cannot view Namespace Mapper drop down menu

(CDQE-71337) For some requests, the Namespace drop down was not displaying.

Oracle database connections issue

(CDQE-70028) After upgrading from Release 12.0, some users experienced problems with multiple Oracle database connections.

Issue with embedded flows

(CDQE-70072) In some situations, embedded flows can suppress type conversion-related errors.

Terminate Job stage keeps dataflow in a running state

(CDQE-70175) Instead of some jobs stopping and generating an error, as designed, they will remain in a "running" status and cannot be canceled.

Cannot run process flow from command line

(CDQE-71101) After updating Spectrum™ Technology Platform, some non-administration-level users may be unable to run process flows from the command line interface (CLI). This may persist even after updating the pflowexecutor.jar and jobexecutor.jar files.

Memory leak during HTTP Web request sessions

(CDQE-71534) Spectrum™ Technology Platform was creating a separate **platform.session**, instance for requests to these URL namespaces:

- /services
- /jmx-console
- /

Added Hazelcast encryption

(CDQE-71643) We have added Hazelcast encryption with this software update. Hazelcast allows you to encrypt the entire socket-level communication layer among all users and clients, providing additional security.

Enterprise Designer issues

Cannot access Execution History

(CDQE-71437) Users cannot access Execution History even if they have has admin-level permissions. The selection appears grayed-out.

Subflows missing when defined by non-administration-level users

(CDQE-71749) Subflows defined by non-admin-level users are not displayed. Jobs that use the subflow will show the subflow with an "X" through it.

Run/Inspect/Expose buttons not available

(CDQE-71451) The Run/Inspect/Expose buttons are grayed out when a new job is created from a job template, even if the user has admin-level permissions.

Cannot expose recently saved dataflow

Despite having admin-type permissions, user may not be able to expose a dataflow that was recently saved. The dataflow cannot be saved with the same name.

Installation

To install this product update you must have Spectrum™ Technology Platform 12.2 SP2.1 installed.

Important: Before you install this product update, be sure that you have installed all previously-released product updates for your modules and the platform. Unexpected issues may occur if you do not install product updates in the proper order. For a listing of product updates for each module and the platform, see the Product Update Summary on support.pb.com/spectrum.

Applying This Product Update to a Cluster

To apply this product update to a cluster, install the product update to each node by following the instructions in these release notes. You can apply the product update to one node at a time without stopping all the nodes in the cluster.

Installing on Windows

Note: In this procedure, *SpectrumDirectory* is the folder where you have installed the Spectrum™ Technology Platform server.

Note that this software update requires you to delete some *.jar files and replace those with new *.jar files to apply the **Hazelcast encryption** update.

- **New files -**

- `SpectrumDirectory/server/app/lib/hazelcast-3.11.jar`
- `SpectrumDirectory/server/app/lib/hazelcast-client-3.11.jar`
- `SpectrumDirectory/server/app/lib/hazelcast-enterprise-3.11.jar`
- `SpectrumDirectory/server/app/lib/hazelcast-spring-3.11.jar`

- **New directory -** We have added `/server/app/conf/certs`, which contains the keystore and truststore files. This directory is added when applying this software update, and contains these files:

- `SpectrumDirectory/server/app/conf/certs/node-keystore.p12`
- `SpectrumDirectory/server/app/conf/certs/truststore.p12`

- **Deleted files** - These files must be backed up, manually, and deleted from the server after applying this software update and before starting the Spectrum™ Technology Platform server:

- `SpectrumDirectory/server/app/lib/hazelcast-3.10.4.jar`
- `SpectrumDirectory/server/app/lib/hazelcast-client-3.10.4.jar`
- `SpectrumDirectory/server/app/lib/hazelcast-spring-3.10.4.jar`

1. Stop the Spectrum™ Technology Platform server. To stop the server:

- Right-click the Spectrum™ Technology Platform icon in the Windows system tray and select **Stop Spectrum™**.
- Alternatively, you can use the Windows Services control panel and stop the Pitney Bowes Spectrum™ Technology Platform service.

2. Ensure that Enterprise Designer is closed.

3. Back up these files to a different location:

- `SpectrumDirectory/server/app/lib/spectrum-server-runtime-core-12.2.1.jar`
- `SpectrumDirectory/server/app/lib/spectrum-api-stage-12.2.1.jar`
- `SpectrumDirectory/server/app/deploy/stages-12.2.1.car`
- `SpectrumDirectory/server/app/deploy/ews-12.2.1.car`
- `SpectrumDirectory/server/app/deploy/ews.war`
- `SpectrumDirectory/server/app/deploy/jmx-console.war`
- `SpectrumDirectory/server/app/deploy/dcg.war`
- `SpectrumDirectory/server/app/deploy/root.war`
- `SpectrumDirectory/server/app/exports/client-12.2.1-Common.zip`
- `SpectrumDirectory/server/app/exports/client-12.2.1-ED.zip`
- `SpectrumDirectory/server/app/lib/spectrum-server-common-security-impl-12.2.1.jar`
- `SpectrumDirectory/server/app/lib/spectrum-server-config-core-12.2.1.jar`
- `SpectrumDirectory/server/app/lib/spectrum-server-config-core-ws-12.2.1.jar`
- `SpectrumDirectory/server/app/conf/spectrum-server-hazelcast.xml`
- `SpectrumDirectory/server/app/lib/spectrum-server-cache-hazelcast-12.2.1.jar`

4. Download the *.zip file containing the patch from the Pitney Bowes eStore. The product update announcement includes a link to download the software and Release Notes.

5. Extract the contents of the *.zip file to a temporary location.

6. Manually back up these files, and delete them from the Spectrum™ Technology Platform server:

- `SpectrumDirectory/server/app/lib/hazelcast-3.10.4.jar`
- `SpectrumDirectory/server/app/lib/hazelcast-client-3.10.4.jar`
- `SpectrumDirectory/server/app/lib/hazelcast-spring-3.10.4.jar`

7. Extract the resulting *.zip file (`cdq1221S04.zip`) to the folder where you installed Spectrum. For example, `C:\Program Files\Pitney Bowes\Spectrum`.

Choose to overwrite the existing files.

8. On any machines that have Enterprise Designer installed, delete *WindowsTemporaryDirectory\glAssemblies*, where *WindowsTemporaryDirectory* is one of the following: %TMP%, %TEMP%, %USERPROFILE%, or the Windows directory. Typically the path is: C:\Users\UserName\AppData\Local\Temp\glAssemblies.
9. Start the Spectrum™ Technology Platform server.
 - To start the server, right-click the Spectrum™ Technology Platform icon in the Windows system tray and select **Start > Spectrum™**.
 - Alternatively, you can use the Windows Services control panel to start the Pitney Bowes Spectrum™ Technology Platform service.
10. If you have downloaded the Administration Utility to a client machine, delete it and download the updated version from the Spectrum™ Technology Platform Welcome page, which you can typically access at: <http://SpectrumServer:8080>.

Installing on Unix or Linux

Note: In this procedure, *SpectrumDirectory* refers to the directory where you have installed the Spectrum™ Technology Platform server.

Note that this software update requires you to delete some *.jar files and replace those with new *.jar files to apply the **Hazelcast encryption** update.

• New files -

- *SpectrumDirectory/server/app/lib/hazelcast-3.11.jar*
- *SpectrumDirectory/server/app/lib/hazelcast-client-3.11.jar*
- *SpectrumDirectory/server/app/lib/hazelcast-enterprise-3.11.jar*
- *SpectrumDirectory/server/app/lib/hazelcast-spring-3.11.jar*

- **New directory** - We have added */server/app/conf/certs*, which contains the keystore and truststore files. This directory is added when applying this software update, and contains these files:

- *SpectrumDirectory/server/app/conf/certs/node-keystore.p12*
- *SpectrumDirectory/server/app/conf/certs/truststore.p12*

- **Deleted files** - These files must be backed up, manually, and deleted from the server after applying this software update and before starting the Spectrum™ Technology Platform server:

- *SpectrumDirectory/server/app/lib/hazelcast-3.10.4.jar*
- *SpectrumDirectory/server/app/lib/hazelcast-client-3.10.4.jar*
- *SpectrumDirectory/server/app/lib/hazelcast-spring-3.10.4.jar*

1. Source the *SpectrumDirectory/server/bin/setup* script.
2. Ensure that Enterprise Designer is closed.
3. Run the *SpectrumDirectory/server/bin/server.stop* script to stop the Spectrum™ Technology Platform server.
4. Back up these files to a different location:
 - *SpectrumDirectory/server/app/lib/spectrum-server-runtime-core-12.2.1.jar*
 - *SpectrumDirectory/server/app/lib/spectrum-api-stage-12.2.1.jar*
 - *SpectrumDirectory/server/app/deploy/stages-12.2.1.car*
 - *SpectrumDirectory/server/app/deploy/ews-12.2.1.car*
 - *SpectrumDirectory/server/app/deploy/ews.war*
 - *SpectrumDirectory/server/app/deploy/jmx-console.war*
 - *SpectrumDirectory/server/app/deploy/dcg.war*
 - *SpectrumDirectory/server/app/deploy/root.war*
 - *SpectrumDirectory/server/app/exports/client-12.2.1-Common.zip*
 - *SpectrumDirectory/server/app/exports/client-12.2.1-ED.zip*
 - *SpectrumDirectory/server/app/lib/spectrum-server-common-security-impl-12.2.1.jar*
 - *SpectrumDirectory/server/app/lib/spectrum-server-config-core-12.2.1.jar*
 - *SpectrumDirectory/server/app/lib/spectrum-server-config-core-ws-12.2.1.jar*
 - *SpectrumDirectory/server/app/conf/spectrum-server-hazelcast.xml*
 - *SpectrumDirectory/server/app/lib/spectrum-server-cache-hazelcast-12.2.1.jar*
5. Download the *.zip file containing the patch from the Pitney Bowes eStore. The product update announcement includes a link to download the software and Release Notes.
6. Extract the contents of the zip file to a temporary location.
7. Manually back up these files, and delete them from the Spectrum™ Technology Platform server:
 - *SpectrumDirectory/server/app/lib/hazelcast-3.10.4.jar*
 - *SpectrumDirectory/server/app/lib/hazelcast-client-3.10.4.jar*
 - *SpectrumDirectory/server/app/lib/hazelcast-spring-3.10.4.jar*
8. FTP the *cdq1221S04.tar* file in binary mode to a temporary directory on the Spectrum™ Technology Platform machine.
9. Change to the directory where Spectrum™ Technology Platform is installed.
10. Untar the file using this command:


```
tar -xvf TemporaryDirectory/cdq1221S04.tar
```
11. On any machines that have Enterprise Designer installed, delete *WindowsTemporaryDirectory\glAssemblies*, where *WindowsTemporaryDirectory* is one of the following: %TMP%, %TEMP%, %USERPROFILE%, or the Windows directory. Typically the path is: C:\Users\UserName\AppData\Local\Temp\glAssemblies.
12. Run the *SpectrumDirectory/server/bin/server.start* script to start the Spectrum™ Technology Platform server.

13. If you have downloaded the Administration Utility to a client machine, delete it and download the updated version from the Spectrum™ Technology Platform Welcome page, which you can typically access at: *<http://SpectrumServer:8080>*.



3001 Summer Street
Stamford CT 06926-0700
USA

www.pitneybowes.com