



Spectrum Technology Platform

Version 12.2.1 S30

Release Notes

This document contains information about Spectrum Technology Platform 12.2.1 S30. You have access only to the modules you have licensed. To evaluate any other modules, contact your Precisely account executive for a trial license key.

Who should apply this update?	This product update is intended for all Spectrum Technology Platform 12.2.1 users.
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Is this update required?	This product update is required.
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Fixed Issue

This product update contains the following update in the Spectrum Technology Platform:

CDQE-89254 Updates the Neo4j graph database repository.

Installation

To install this product update you must have Spectrum Technology Platform 12.2.1 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 platform, see the [Spectrum Technology Platform Updates](#) pages.

Applying This Product Update to a Cluster

To apply this product update to a cluster you must stop all the nodes in the cluster then install the product update to each node by following the instructions in these release notes. In a typical clustered configuration, use the following procedures for stopping and starting nodes in the cluster.

Stopping nodes in a cluster	Start the shutdown process with the highest node ID number, working back to the primary node. For example, in a cluster with three nodes, you would shut down #3, then #2, and finally #1. Ensure that each node in the sequence is completely stopped before stopping the next one.
Starting nodes in a cluster	Restart the primary node first, working up to the highest node ID. In a cluster with three nodes, you would start #1, then #2, then #3.

Platform Installations

Important: Read through the entire installation process for your platform and configuration. Do this before you apply this update, as the installation process differs from that of other updates.

- [Installing on Windows - standard configuration](#) on page 3

Use these instructions when the Spectrum server and database are installed on a single Windows machine or on all nodes in a cluster environment.

- [Installing on Windows - distributed configuration](#) on page 4

Use these instructions when the Spectrum server and database are located on different Windows machines or separate nodes in a cluster environment.

- [Installing on Unix or Linux - standard configuration](#) on page 5

Use these instructions when the Spectrum server and database are installed on a single Unix or Linux machine or on all nodes in a cluster environment.

- [Installing on Unix or Linux - distributed configuration](#) on page 7

Use these instructions when the Spectrum server and database are located on different Unix or Linux machines or on separate nodes in a cluster environment.

Installing on Windows - standard configuration

Follow these steps to install the Spectrum Technology Platform 12.2.1 S30 patch for a standard Windows configuration.

Note: In this procedure, *SpectrumDirectory* refers to the folder where you have installed the Spectrum Technology Platform server. For example, `C:\Program Files\Pitney Bowes\Spectrum`.

1. Stop the Spectrum Technology Platform server.
 - To stop the server, right-click the Spectrum Technology Platform icon in the Windows system tray and click **Stop Spectrum™**.
 - Alternatively, you can open the Services app in Windows Control Panel and stop the Spectrum Technology Platform service.

In a clustered environment: Start the shutdown process with the highest node ID number, working back to the primary node. For example, in a cluster with three nodes, you would shut down #3, then #2, and finally #1. Ensure that each node in the sequence is completely stopped before stopping the next one.

2. Back up and then delete the following folder and its contents:

`SpectrumDirectory\repository`

In a clustered environment: Repeat this step on all nodes.

3. Use the link in the release announcement to download the ZIP file containing the product update. You can also find links to software and release notes on the [12.2.1 Updates](#) page.
4. Extract the contents of the ZIP file to a temporary location.
5. Extract the contents of the extracted ZIP file (`cdq1221s30.zip`).
6. Copy the resulting `repository` folder to *SpectrumDirectory*.

- Copy the backed up database folder `repository\data\databases\graph.db` to `SpectrumDirectory\repository\data\databases`.

In a clustered environment: Repeat this step on all nodes.

Note: Any changes previously made in the `repository\Neo4j.template` file need to be copied from the backed up copy of the `Neo4j.template` file into the `Neo4j.template` file in the new repository folder.

- Start the Spectrum Technology Platform server.
 - To start the server, right-click the Spectrum Technology Platform icon in the Windows system tray and click **Start Spectrum™**.
 - Alternatively, you can open the Services app in Windows Control Panel and start the Pitney Bowes Spectrum Technology Platform service.

In a clustered environment: Restart the primary node first, working up to the highest node ID. In a cluster with three nodes, you would start #1, then #2, then #3. The server restart process may take longer than normal since as all indexes may need to be recreated and extra time is required to replicate the database across all nodes. Monitor your log file for index exceptions.

Installing on Windows - distributed configuration

Follow steps in this procedure to update repository nodes in a distributed environment. Repository nodes are those nodes installed with the `SpectrumDirectory\repository` folder.

Note: In this procedure, `SpectrumDirectory` is the folder where you have installed the Spectrum Technology Platform server (for example, `C:\Program Files\Pitney Bowes\Spectrum`).

- From the product server instance, stop the Spectrum Technology Platform server.
 - To stop the server, right-click the Spectrum Technology Platform icon in the Windows system tray and click **Stop Spectrum**.
 - Alternatively, you can use Windows Services app in the Control Panel app to stop the Spectrum Technology Platform service.

In a clustered environment: Start the shutdown process with the highest node ID number, working back to the primary node. For example, in a cluster with three nodes, you would shut down #3, then #2, and finally #1. Ensure that each node in the sequence is completely stopped before stopping the next one.

- From the repository instance, shut down the repository.
 - To stop the server, right-click the Spectrum Technology Platform icon in the Windows system tray and click **Stop Spectrum**.
 - Alternatively, you can use Windows Services app in the Control Panel app to stop the Spectrum Technology Platform service.

3. On the repository node, back up and then delete the repository folder and its contents:

```
SpectrumDirectory\repository
```

In a clustered environment: Repeat this step on every repository node in the cluster.

4. Use the link in the release announcement to download the ZIP file containing the product update. You can also find links to software and release notes on the [12.2.1 Updates](#) page.
5. Extract the contents of the ZIP file to a temporary location.
6. Extract the contents of the extracted ZIP file (`cdq1221s30.zip`).
7. On the repository node, perform the following steps:

In a clustered environment: Repeat these steps on every repository node unless otherwise noted.

- a) Copy the extracted `repository` folder to the *SpectrumDirectory*.
- b) Copy the backed up database folder `repository\data\databases\graph.db` to the *SpectrumDirectory*\repository\data\databases folder.

In a clustered environment: Perform this step on only the primary repository node. This allows accurate replication of the database on all of the repository nodes.

- c) Copy the backed up `repository\wrapper` folder to *SpectrumDirectory*\repository\wrapper.
- d) Copy the backed up `repository\spectrum-container.properties` file to *SpectrumDirectory*\repository\spectrum-container.properties.

8. Start the Spectrum Technology Platform server on the repository nodes.
9. After all the repository nodes are fully started, start the Spectrum Technology Platform server on the server nodes.
 - To start the server on each node, right-click the Spectrum Technology Platform icon in the Windows system tray and click **Start Spectrum**.
 - Alternatively, you can open the Services app in Windows Control Panel and start the Pitney Bowes Spectrum Technology Platform service.

In a clustered environment: Restart the primary node first, working up to the highest node ID. In a cluster with three nodes, you would start #1, then #2, then #3. The server restart process may take longer than normal since as all indexes may need to be recreated and extra time is required to replicate the database across all nodes. Monitor your log file for index exceptions.

Installing on Unix or Linux - standard configuration

Note: In this procedure, *SpectrumDirectory* refers to the directory where you have installed the Spectrum Technology Platform server (for example, `/home/user/myuser/PBSpectrum`).

1. Stop the Spectrum Technology Platform server.
 - a) Source the `SpectrumDirectory/server/bin/setup` script.
 - b) Run the `SpectrumDirectory/server/bin/server.stop` script to stop the Spectrum Technology Platform server.

In a clustered environment: Start the shutdown process with the highest node ID number, working back to the primary node. For example, in a cluster with three nodes, you would shut down #3, then #2, and finally #1. Ensure that each node in the sequence is completely stopped before stopping the next one.

2. Back up and then delete the following directory and its contents:

```
SpectrumDirectory/repository
```

In a clustered environment: Repeat this step on all nodes.

3. Use the link in the release announcement to download the ZIP file containing the product update. You can also find links to software and release notes on the [12.2.1 Updates](#) page.
4. Extract the contents of the ZIP file to a temporary location.
5. FTP the `cdq1221s30.tar.gz` file in binary mode to a temporary directory on the Spectrum Technology Platform machine.
6. Change to the directory where Spectrum Technology Platform is installed (`SpectrumDirectory`).
7. Untar the file using this command:

```
tar -xvzf TemporaryDirectory/cdq1221s30.tar.gz
```

8. Run the `SpectrumDirectory/server/bin/server.start` script to start the Spectrum Technology Platform server.
9. Copy the backed up database directory `repository/data/databases/graph.db` to `SpectrumDirectory/repository/data/databases`.

In a clustered environment: Repeat this step on all nodes.

Note: Any changes previously made in the `repository/Neo4j.template` file need to be copied from the backed up copy of the `Neo4j.template` file into the `Neo4j.template` file in the new repository directory.

10. Run the `SpectrumDirectory/server/bin/server.start` script to start the Spectrum Technology Platform server.

In a clustered environment: Restart the primary node first, working up to the highest node ID. In a cluster with three nodes, you would start #1, then #2, then #3. The server restart process may take longer than normal since as all indexes may need to be recreated and extra time is required to replicate the database across all nodes. Monitor your log file for index exceptions.

Installing on Unix or Linux - distributed configuration

Follow steps in this procedure to update repository nodes in a distributed environment. Repository nodes are those nodes installed with the *SpectrumDirectory/repository* directory.

Note: In this procedure, *SpectrumDirectory* is the directory where you have installed the Spectrum Technology Platform server (for example, `/home/user/myuser/PBSpectrum`).

1. On the product server, stop the Spectrum Technology Platform server.
 - a) Source the *SpectrumDirectory/server/bin/setup* script.
 - b) Run the *SpectrumDirectory/server/bin/server.stop* script to stop the Spectrum Technology Platform server.

In a clustered environment: Start the shutdown process with the highest node ID number, working back to the primary node. For example, in a cluster with three nodes, you would shut down #3, then #2, and finally #1. Ensure that each node in the sequence is completely stopped before stopping the next one.

2. From the repository instance, shut down the repository.
 - a) Source the *SpectrumDirectory/server/bin/setup* script.
 - b) Run the *SpectrumDirectory/server/bin/server.stop* script to stop the Spectrum Technology Platform server.

In a clustered environment: Start the shutdown process with the highest node ID number, working back to the primary node. For example, in a cluster with three nodes, you would shut down #3, then #2, and finally #1. Ensure that each node in the sequence is completely stopped before stopping the next one.

3. On the repository node, back up and then delete the following directory and its contents:
 - *SpectrumDirectory/repository*

In a clustered environment: Repeat this step on every repository node in the cluster.

4. Use the link in the release announcement to download the ZIP file containing the product update. You can also find links to software and release notes on the [12.2.1 Updates](#) page.
5. Extract the contents of the ZIP file to a temporary location.
6. On the repository node, perform the following steps:

In a clustered environment: Repeat these steps on every repository node unless otherwise noted.

- a) FTP the extracted `cdq1221s30.tar.gz` file in binary mode to a temporary directory on each repository node.
- b) Change to the directory where Spectrum Technology Platform is installed (*SpectrumDirectory*).
- c) Untar the file using this command:

```
tar -xvzf TemporaryDirectory/cdq1221s30.tar.gz
```

- d) Copy the backed up database directory `repository/data/databases/graph.db` to `SpectrumDirectory/repository/data/databases`.

In a clustered environment: Perform this step on only the primary repository node. This allows accurate replication of the database on all of the repository nodes.

- e) Copy the backed up `repository/wrapper` directory to `SpectrumDirectory/repository/wrapper`.
- f) Edit the `wrapper.conf` file that was copied with the `wrapper` folder and add the following line to the `# Java Additional Parameters` section:

```
-Dorg.neo4j.io.pagecache.implSingleFilePageSwapper.channelStripePower=0
```

- g) Copy the backed up `repository/spectrum-container.properties` file to `SpectrumDirectory/repository/spectrum-container.properties`.

7. Start the Spectrum Technology Platform server on the repository nodes.
8. After all the repository nodes are fully started, start the Spectrum Technology Platform on the server nodes.
 - Run the `SpectrumDirectory/server/bin/server.start` script to start the Spectrum Technology Platform server.

In a clustered environment: Restart the primary node first, working up to the highest node ID. In a cluster with three nodes, you would start #1, then #2, then #3. The server restart process may take longer than normal since as all indexes may need to be recreated and extra time is required to replicate the database across all nodes. Monitor your log file for index exceptions.



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