



Spectrum Technology Platform

Version 12.2.1 S27

Release Notes

This document contains information about Spectrum Technology Platform 12.2.1 S27. 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 Issues

This product update upgrades the Spectrum Technology Platform repository. This update is required to support updates applied by the Spectrum Technology Platform 12.2.1 S28 patch.

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.

Important: After you install this product update, be sure that you install the 12.2.1 S28 patch. The S27 patch is designed to precede the S28 update.

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, 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 bring down #3, then #2, and finally #1. Ensure that each node is completely stopped before stopping the next one.

When you restart a clustered configuration, restart the primary node first, and then work up to the highest node last. For example, in a cluster with three nodes, you would start #1, then #2, then #3. The server restart process may take longer than normal because 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.

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

- [Installing on Unix or Linux - standard configuration](#) on page 5
- [Installing on Unix or Linux - distributed configuration](#) on page 6

Installing on Windows - standard configuration

Follow steps in this procedure to update repository nodes in a standard environment..

Note: In this procedure, *SpectrumFolder* is 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 select **Stop Spectrum™**.
 - Alternatively, you can use the Windows Services Control Panel and stop the Pitney Bowes Spectrum Technology Platform service.
2. Back up and then delete the `repository` folder and its contents:

`SpectrumFolder\repository`
3. Use the link in the release announcement to download the ZIP file containing the product update (`cdq1221s27_Windows.zip`).
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 resulting ZIP file (`cdq1221s27.zip`) to the folder where you installed Spectrum (*SpectrumFolder*).
Choose to overwrite the existing files.
6. Copy the backed up database folder `repository\data\databases\graph.db` to `SpectrumFolder\repository\data\databases`.
7. 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 Windows Services in the Control Panel and start the Pitney Bowes Spectrum Technology Platform service.

This S27 update was designed to precede the Spectrum Technology Platform 12.2.1 S28 update. After you install this product update, you can install the S28 update.

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 *SpectrumFolder/repository* folder.

Note: In this procedure, *SpectrumFolder* is 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 on all nodes in the cluster.

In a typical clustered configuration, 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 bring down #3, then #2, then #1.

- To stop the server on each node, 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. On each repository node, back up and then delete the *repository* folder and its contents.

SpectrumFolder\repository

3. Use the link in the release announcement to download the ZIP file (*cdq1221s27_Windows.zip*) 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. On each of the repository nodes, extract the contents of the resulting ZIP file (*cdq1221s27.zip*) to the folder where you installed Spectrum (*SpectrumFolder*).

Choose to overwrite the existing files.

6. On the primary repository node, copy the backed up database folder

repository\data\databases\graph.db to
SpectrumFolder\repository\data\databases.

Only perform this step on the primary repository node. This allows accurate replication of the database on all of the repository nodes.

7. On each repository node, copy the backed up *repository\wrapper* folder to

SpectrumFolder\repository\wrapper.

8. On each repository node, copy the backed up

repository\spectrum-container.properties file to
SpectrumFolder\repository\spectrum-container.properties.

9. Start the Spectrum Technology Platform server on the repository nodes.

In a typical clustered configuration, start the primary node first and work up to the highest node ID number. For example, in a cluster with three nodes, you would start #1, then #2, and finally #3. Make sure that each node starts before you start the subsequent node.

- 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 Windows Services in the Control Panel and start the Pitney Bowes Spectrum Technology Platform service.

The server restart process may take longer than normal because 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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Installing on Unix or Linux - standard configuration

Perform this task to update the repository on the Spectrum Technology Platform server.

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

1. Source the `SpectrumDirectory/server/bin/setup` script.
2. Run the `SpectrumDirectory/server/bin/server.stop` script to stop the Spectrum Technology Platform server.
3. Back up and then delete the following folder and its contents:


```
SpectrumFolder\repository
```
4. Use the link in the release announcement to download the ZIP file (`cdq1221s27_Linux_Unix.zip`) 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. FTP the extracted file in binary mode to a temporary directory on the Spectrum Technology Platform machine.
7. Change to the directory where Spectrum Technology Platform is installed (*SpectrumDirectory*).
8. Untar the file using this command:


```
tar -xvzf TemporaryDirectory/cdq1221s27.tar.gz
```
9. Copy the backed up database directory (`repository/data/databases/graph.db`) into the repository (`SpectrumFolder/repository/data/databases/graph.db`).

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

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Installing on Unix or Linux - distributed configuration

Follow steps in this procedure on update repository nodes in a clustered environment. Repository nodes are those nodes installed with the `SpectrumFolder/repository` folder

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 node, stop the Spectrum Technology Platform.
In a typical clustered configuration, 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 bring down #3, then #2, then #1.
To stop each node.
 - a) Source the `SpectrumDirectory/server/bin/setup` script.
 - b) Run the `SpectrumDirectory/server/bin/server.stop` script to stop the Spectrum Technology Platform server.

2. On the repository nodes, back up and then delete the following folder and its contents:

```
SpectrumFolder\repository
```

Note: Make sure that you back up the database folder (`SpectrumDirectory/repository/data/databases/graph.db`) on the primary repository node.

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. On each of the repository nodes, perform the following steps:
 - a) FTP the extracted file in binary mode to a temporary directory.
 - b) Change to the directory where Spectrum Technology Platform is installed (`SpectrumDirectory`).
 - c) Untar the file using this command:

```
tar -xvzf TemporaryDirectory/cdq1221s27.tar.gz
```

6. On the primary repository node, copy the backed up database folder `repository/data/databases/graph.db` to `SpectrumDirectory/repository/data/databases/graph.db`.
Only perform this step on the primary repository node. This allows accurate replication of the database to all of the repository nodes.
7. On each repository node, copy the backed up `repository/wrapper` folder to `SpectrumFolder/repository/wrapper`.
8. On each repository node, copy the backed up `repository/spectrum-container.properties` file to `SpectrumFolder/repository/spectrum-container.properties`.
9. On each repository node, run the `SpectrumDirectory/server/bin/server.start` script to start the Spectrum Technology Platform server.
In a typical clustered configuration, restart the primary node first, and then work up to the highest node last. For example, in a cluster with three nodes, you would start #1, then #2, then #3. The server restart process may take longer than normal because 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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