

# Spectrum™ Technology Platform

## Version 12.2.1 S26

# Release Notes

This document contains information about Spectrum™ Technology Platform 12.2.1 S26. 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.

<b>Who should apply this update?</b>	This product update is intended for all Spectrum Technology Platform 12.2.1 users.
<b>Is this update required?</b>	This product update is required.

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## Fixed Issue

This product update contains software changes that fix the following issue in the Spectrum™ Technology Platform:

**CDQE-81974** This patch resolves the following security vulnerabilities.

- (CVE-2018-1000632) The methods `addElement` and `addAttribute` were vulnerable to an attacker tampering with XML documents through XML injection. These methods appeared to be exploitable via an attacker specifying attributes or elements in the XML document.
- (CVE-2020-5408) Data encrypted using an encryptor was vulnerable to deencryption by a malicious actor using a dictionary attack.
- (CVE-2019-3795) Spring Security versions 4.2.x prior to 4.2.12, 5.0.x prior to 5.0.12, and 5.1.x prior to 5.1.5 contain an insecure randomness vulnerability when using `SecureRandomFactoryBean#setSeed` to configure a `SecureRandom` instance. The vulnerability allowed a trusted application to provide a seed and make the resulting random material available to an attacker for inspection.

## Installation

To install this product update you must have Spectrum™ Technology Platform 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](https://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, *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 click **Stop Spectrum™**.
2. Back up these files to a different location:
 

```
SpectrumFolder\server\app\deploy\dcg.war
SpectrumFolder\server\app\deploy\jmx-console.war
SpectrumFolder\server\app\deploy\managers.war
SpectrumFolder\server\app\deploy\productapi.war
SpectrumFolder\server\app\deploy\security.war
```
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 resulting ZIP file (cdq1221S26.zip) to the folder where you installed Spectrum (*SpectrumFolder*).  
Choose to overwrite the existing files.
6. 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™**.

## Installing on Unix or Linux

**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 these files to a different location:
 

```
SpectrumDirectory\server\app\deploy\dcg.war
SpectrumDirectory\server\app\deploy\jmx-console.war
SpectrumDirectory\server\app\deploy\managers.war
SpectrumDirectory\server\app\deploy\productapi.war
SpectrumDirectory\server\app\deploy\security.war
```
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. 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/cdq1221S26.tar.gz
```
9. Run the *SpectrumDirectory/server/bin/server.start* script to start the Spectrum™ Technology Platform server.



3001 Summer Street  
Stamford CT 06926-0700  
USA

[www.pitneybowes.com](http://www.pitneybowes.com)