



Spectrum Technology Platform

Version 2020.1.0 S05

Release Notes

This document contains information about Spectrum Technology Platform 2020.1.0 patch S05. 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 Spectrum Discovery 2020.1 users.
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Is this update required?	This product update is required.
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What's New

This section describes new and changed features for this release.

CDQE-86865 Teiid SSL encryption for Model Store connection.

This product update enables you to connect to the Model Store in SSL mode.

Enabling encryption

To enable encryption, set the property *spectrum.encryption.enabled* in the `spectrum-container.properties` file to *true*.

The section below describes the Data Federation Model Store SSL settings. For information on SSL settings and encryption methods, see the respective sections in the Administration Guide.

Data Federation Model Store SSL settings

Property	Default value	More information
<code>spectrum.modelstore.encryption.type.twoway</code>	<code>false</code>	Encryption Methods. Note: Set it to <i>true</i> to enable two-way SSL mode. If set to <i>false</i> , one way SSL mode is enabled.
<code>spectrum.modelstore.encryption.truststoreCheckExpired</code>	<code>true</code>	Set to true to check the truststore certificate expiry.
<code>spectrum.modelstore.encryption.algorithm</code>	<code>JASYPT</code>	
<code>spectrum.modelstore.encryption.keystoreAlias</code>	<code>spectrum</code>	Encryption Methods
<code>spectrum.modelstore.encryption.keystoreType</code>	<code>pkcs12</code>	Encryption Methods
<code>spectrum.modelstore.encryption.keystore</code>	<code>../conf/certs/spectrum-keystore.p12</code>	Encryption Methods
<code>spectrum.modelstore.encryption.keystorePassword</code>	<code>encrypted string</code>	Encryption Methods For more information: <ul style="list-style-type: none"> Review Generate encryption strings for information about generating encryption strings. Review Encrypt passwords or mask encryption strings for more information about encrypting or masking strings.

Property	Default value	More information
<code>spectrum.modelstore.encryption.truststore</code>	<code>../conf/certs/spectrum-truststore.p12</code>	Encryption Methods
<code>spectrum.encryption.truststorePassword</code>	<i>encrypted string</i>	Encryption Methods For more information: <ul style="list-style-type: none"> Review Generate encryption strings for information about generating encryption strings. Review Encrypt passwords or mask encryption strings for information about encrypting or masking strings.

Connecting to the server

Once the JDBC driver is installed, use these details to connect to the Spectrum server using a simple code or any application:

1. Spectrum user name
2. Password to authenticate the Spectrum user name
3. JDBC Driver Class Name =
`com.pb.spectrum.modelstore.driver.modelstoreDriver`
4. Connection String Template =
`jdbc:spectrum://${host}:${port}/${modelstore}`.

Fill in the server IP or machine name in place of `{host}`, the port for Spectrum Discovery in `{port}`, and the name of the model store you wish to access in `{modelstore}`.

Note: Default for `{port}` is 32750.

5. To access model store in the SSL mode, set the property `sslEnabled` to *true*.

Note: If this property is not defined or is set to *false*, the driver will connect in non-SSL mode.

- a. For a one-way SSL connection, define these properties:

- `trustStore`: Location of a truststore containing server public key. The private key will be in server's keystore.

- `trustStorePassword`: Truststore password encrypted using Spectrum's password-utility that was shipped along.

Note: For details on how to use the password utility, see [Generate encryption strings](#).

- b. For a two-way SSL connection, specify these two additional properties.

- `keystore`: Location of keystore containing client's private key. The public key needs to be added to server's truststore.
- `keystorePassword`: Keystore password encrypted using Spectrum's password-utility that was shipped along.

Note: For details on how to use the password utility, see [Generate encryption strings](#).

6. Configure these optional properties:

- a. `keyStoreType`: Type of keystore. For example, JKS and PKCS12.
- b. `trustAllHosts`: Set this as *true* to allow client to trust all server certificates. Default is *false*.
- c. `checkExpired`: Set this as *false* to ignore checking if the server certificates have expired. Defaults is *true*.

Using the password utility

Method one

Use the *.jar file utility, `SpectrumDirectory/server/bin/password-utility.jar` to generate the encryption string for the Spectrum default password.

Note: If you run the encryption of the same password multiple times, this will generate different strings. This provides additional encryption strength and security.

Generate an encrypted string for the default password, p****s.

Specify the command:

```
java -jar password-utility.jar -p password
```

where:

- `password` is your site's password

Sample output:

```
#####
##### Encrypted String for the password #####
#####
          9yOYoZ9W2aAF2Baapa5wIxCMNQ/9TZFP
```

Installation

To install this product update you must have Spectrum Technology Platform 2020.1.0 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.

Installing on Windows

Note: In this procedure, *SpectrumDirectory* is the folder where you have installed the Spectrum Technology Platform server (for example, C:\Program Files\Precisely\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. Create a back-up and then delete these files or folders:

```
SpectrumDirectory\server\lib\modelstore-jdbc.jar
SpectrumDirectory\server\deploy\discovery-20.1.car
SpectrumDirectory\server\conf\spectrum-container.properties
```

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 [2020.1.0 Updates](#) page.
4. Extract the contents of the ZIP file to a temporary location.
5. Extract the contents of the resulting ZIP file (*cdq20201S05.zip*) to the folder where you installed Spectrum.
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**.

Note: 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 Linux

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

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 and delete from here:

```
SpectrumDirectory/server/lib/modelstore-jdbc.jar
SpectrumDirectory/server/deploy/discovery-20.1.car
SpectrumDirectory/server/conf/spectrum-container.properties
```

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 [2020.1.0 Updates](#) page.
5. Extract the contents of the ZIP file to a temporary location.
6. FTP the *cdq20201S05.tar* 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/cdq20201S05.tar
```

9. Run the *SpectrumDirectory/server/bin/server.start* script to start the Spectrum Technology Platform server.

Note: 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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