



Spectrum Technology Platform

Version 2022.1.0 S05

Release Notes

This document contains information about Spectrum Technology Platform 2022.1.0 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 all Spectrum Technology Platform 2022.1.0 users. This patch is especially important for the users of the **Spatial and Routing** module.

Important:

- It is a prerequisite that Patch 2022.1 S03 is installed prior to applying this patch.
- If **Spectrum Global Geocoding Module** is also installed, you must apply all previous patches of GGM before applying the S05 patch.

Is this update required? This product update is required.

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What's New

Raster enhancements – MISQL

In this release, three new MISQL functions have been added to the Raster/Grid functions.

MI_GridLineProfile	Returns the cell values from a raster along a series of points specified by the line or polyline object. This function applies to an MRR file and continuous field types with numeric bands.
MI_GridLineStats	Returns the cell values from a raster along a polyline or line object. This function applies to an MRR file and continuous field types with numeric bands.
MI_GridRegionStats	Returns the aggregated statistics from a raster within a region object. This function applies to an MRR file and continuous field types with numeric bands.

For details, refer to the [raster functions](#) section under the English version of the Spatial Manager guide.

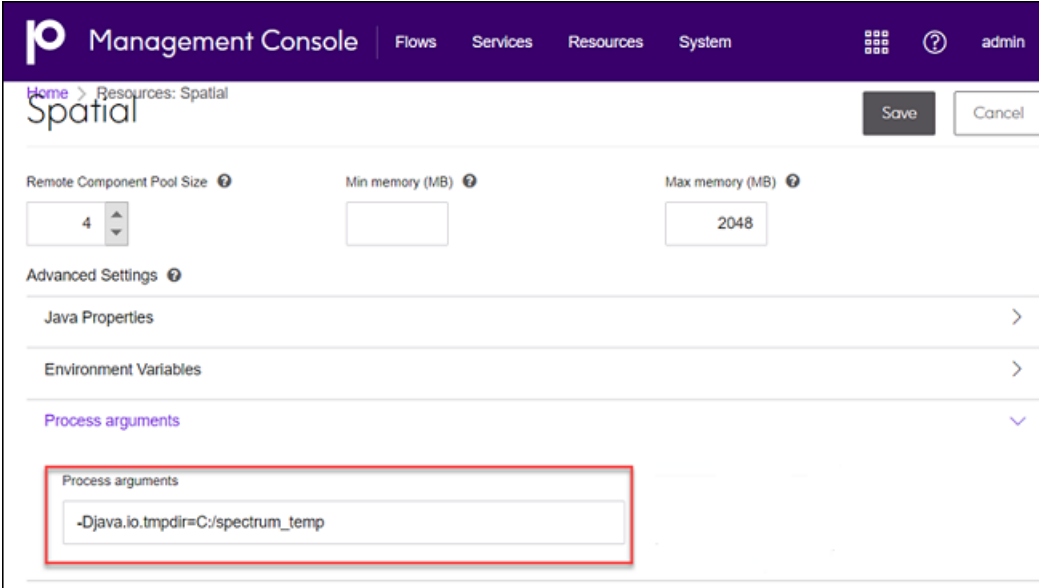
Fixed Issues

This product update contains software changes that fix the following issues in Spectrum Technology Platform 2022.1.0:

This release fixes the following issues:

Bug ID	Description
SSS-16772	Refactored the underlying SQL Server query for <i>Search By SQL</i> request containing limit and offset. Resolution - Fixed.

Bug ID	Description
SSS-17188	Updated description of <i>bound</i> parameter was not returned on describing the Parameterized View Tables. Resolution - Fixed.
SSS-17224	Integrated the Localized strings for External WMTS configurations and Spatial Symbols in Spatial Manager. Resolution - Fixed.
SSS-17308	The <code>Spectrum-server.log</code> file was not getting updated after reaching 50 MB. Workaround - To resolve this issue, follow the steps at this help page.
SSS-17402	In Enterprise Designer, not able to save MapInfo SQL query in <i>Read Spatial Data</i> and <i>Query Spatial Data</i> stages. Resolution - Fixed.

Bug ID	Description
SSS-18284	<p>Named Projects shown as blank after getting <i>file backing binary value not found</i> error in server logs.</p> <p>Workaround - This issue occurs when the Temp directory is cleared.</p> <p>To resolve this issue, set the <code>-Djava.io.tmpdir</code> path in the Management Console. For example:</p> <ul style="list-style-type: none"> • Create a new folder, <code>C:/spectrum_temp</code> (if using a service account make sure the account has write access, also avoid spaces in the path to make it easier to configure). • Go to Management Console > Resources > Spatial > Process arguments. Make sure to point to a folder path that exists, and the service has the write access. • Add <code>-Djava.io.tmpdir=C:/spectrum_temp</code> to Process arguments as shown below.  <p>Note: Use / not \ in the path.</p> <ul style="list-style-type: none"> • Save and restart the Spectrum Technology Platform server.
SSS-18363	<p>If parameterizedviewtables or viewtables have been created in version 2020.1 then after upgrading to 2022.1 the Feature Service list tables request fails to return them in the response.</p> <p>This may be apparent in Spatial Analyst if admin defined queries are not getting listed when managing projects.</p> <p>Workaround - To resolve this issue, follow the steps at this help page.</p> <p>After following the steps provided in the help, the parameterizedviewtables or viewtables created prior to upgrade will appear in the Feature service list tables response.</p>
SSS-18576	<p>Server installed in UTC +ve time zones returned the previous day's date for SQL Server records containing date values.</p> <p>Resolution - Fixed.</p>

Bug ID	Description
SSS-18839, SSS-18812	Security fixes for vulnerabilities. Resolution - Fixed.

Installation

To install this product update you must have Spectrum Technology Platform 2022.1.0 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 the platform, see the [Product Update Summary](#).

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.

1. Ensure that all Spectrum applications are closed.
2. 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 **Spectrum Technology Platform** service.
3. Back up these folders and their contents from SpectrumFolder to a different location:

```
SpectrumFolder\server\deploy
```

```
SpectrumFolder\server\exports
```

```
SpectrumFolder\server\types
```

```
SpectrumFolder\server\modules\spatial\lib
```

```
SpectrumFolder\server\modules\routing\lib
```

4. Delete Spectrum Technology Platform server files affected by the patch.
 - Delete **Spectrum server** files.
 - Delete **Spatial and Routing module** files.
5. Click the link in the release announcement to download the ZIP file containing the product update. You can download the software and release notes from the [2022.1.0 Updates](#) page.
6. Extract the contents of the resulting ZIP file (`cdq20221s05.zip`) to the folder where you have installed the Spectrum Technology Platform server (*SpectrumFolder*). Choose to overwrite the existing files.
7. 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 **Spectrum Technology Platform** service.
8. Go to Management Console > Resources > Spatial > Process arguments:
 - Add the following argument in the text box and **Save**.
`-Dcom.precisely.raster.lib.dir=../modules/spatial/lib/geo_raster`
 - Remove the following argument in the text box (if present) and **Save**.
`-Dcom.pb.midev.raster.mrr.native.dir=../modules/spatial/lib`

The amount of time it takes to restart the Spectrum Technology Platform server will depend on your installation.

Installing on Linux

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

1. Ensure that all Spectrum applications are closed.
2. Stop the Spectrum Technology Platform server.
 - Source the `SpectrumDirectory/server/bin/setup` script.
 - Run the `SpectrumDirectory/server/bin/server.stop` script to stop the **Spectrum Technology Platform** server.

3. Back up these folders and their contents from SpectrumFolder to a different location:

```
SpectrumFolder/server/deploy
```

```
SpectrumFolder/server/exports
```

```
SpectrumFolder/server/types
```

```
SpectrumFolder/server/modules/spatial/lib
```

```
SpectrumFolder/server/modules/routing/lib
```

4. Delete Spectrum Technology Platform server files affected by the patch.
 - Delete **Spectrum server** files.
 - Delete **Spatial and Routing module** files.
5. Click the link in the release announcement to download the ZIP file containing the product update. You can download the software and release notes from the [2022.1.0 Updates](#) page.
6. Extract the contents of the ZIP file to a temporary location.
7. FTP the `cdq20221s05.tar` file in binary mode to a temporary directory on the Spectrum Technology Platform machine.
8. Change to the directory where Spectrum Technology Platform is installed (*SpectrumDirectory*).
9. Untar the file using this command:


```
tar -xvf TemporaryDirectory/cdq20221s05.tar
```
10. Run the `SpectrumDirectory/server/bin/server.start` script to start the Spectrum Technology Platform server.
11. Go to Management Console > Resources > Spatial > Process arguments:
 - Add the following argument in the text box and **Save**.


```
-Dcom.precisely.raster.lib.dir=../modules/spatial/lib/geo_raster
```
 - Remove the following argument in the text box (if present) and **Save**.


```
-Dcom.pb.midev.raster.mrr.native.dir=../modules/spatial/lib
```

The amount of time it takes to restart the Spectrum Technology Platform server will depend on your installation.

File information

This section documents directories and files affected by the patch. All paths in this section are located on the Spectrum Technology Platform server in *SpectrumDirectory* (for example, `/home/user/myuser/Precisely/Spectrum` on Linux or `C:\Program Files\Precisely\Spectrum` on Windows).

Spectrum Server

This section describes actions performed on Spectrum Technology Platform server files affected by the patch.

Delete Spectrum server files

For each directory in the **Directory** column, delete the files listed in the **File name** column.

Directory	File name
server\types	jackson-datatype-json-org-2.11.2.jar jackson-jaxrs-base-2.11.2.jar jackson-jaxrs-json-provider-2.11.2.jar jackson-module-jaxb-annotations-2.11.2.jar json-20090211.jar li-sdk-common-1.15.0.jar li-sdk-coordsys-core-1.15.0.jar li-sdk-coordsys-irishtm-1.15.0.jar li-sdk-coordsys-jgd2000-1.15.0.jar li-sdk-coordsys-nadcon-1.15.0.jar li-sdk-coordsys-ntv2-1.15.0.jar li-sdk-coordsys-rgf93-1.15.0.jar li-sdk-geometry-1.15.0.jar li-sdk-persistence-json-common-1.15.0.jar li-sdk-persistence-json-feature-1.15.0.jar li-sdk-persistence-json-geometry-1.15.0.jar li-sdk-persistence-json-style-1.15.0.jar li-sdk-style-1.15.0.jar li-sdk-unit-1.15.0.jar

Spatial and Routing module

This section describes actions performed on Spatial and Routing files affected by the patch.

If the Spectrum and Routing module is installed on the server, you must back up and delete files before you install the patch.

Back up and delete Spatial and Routing module files

Back up and **delete** folder listed in the **Directory** column:

Directory	Action
server\modules\spatial\lib\ColorPalettes	Delete folder

For each directory in the **Directory** column, back up and **delete** files listed in the **File name** column:

Directory	File name
server\modules\spatial\lib\	jackson-annotations-2.11.2.jar jackson-core-2.11.2.jar jackson-databind-2.11.2.jar jackson-dataformat-csv-2.11.2.jar jackson-jaxrs-base-2.11.2.jar jackson-jaxrs-json-provider-2.11.2.jar jackson-module-jaxb-annotations-2.11.2.jar
server\modules\spatial\lib\	middev-native-raster-mrr-core-3.6.0.jar middev-native-raster-mrr-jna-3.6.0.jar MIRasterPreferences.xml MIRasterResources.xml RasterDictionary.xml

Directory	File name
server\modules\spatial\lib\ (continued.)	li-sdk-btree-1.15.0.jar li-sdk-coordsys-srid-1.15.0.jar li-sdk-coordsys-wkt-1.15.0.jar li-sdk-dataaccess-components-dbf-1.15.0.jar li-sdk-dataaccess-components-qix-1.15.0.jar li-sdk-dataaccess-components-quadtree-1.15.0.jar li-sdk-dataaccess-core-1.15.0.jar li-sdk-dataaccess-dataproviders-file-1.15.0.jar li-sdk-dataaccess-dataproviders-geodatabase-1.15.0.jar li-sdk-dataaccess-dataproviders-memory-1.15.0.jar li-sdk-dataaccess-dataproviders-readonlytab-native-1.15.0.jar li-sdk-dataaccess-dataproviders-readonlytab-seamless-1.15.0.jar li-sdk-dataaccess-dataproviders-shape-1.15.0.jar li-sdk-dataaccess-engine-1.15.0.jar li-sdk-dataaccess-language-1.15.0.jar li-sdk-dataaccess-sqlsupport-1.15.0.jar li-sdk-dataaccess-table-1.15.0.jar li-sdk-dataaccess-tabledepot-1.15.0.jar li-sdk-feature-1.15.0.jar li-sdk-grid-1.15.0.jar li-sdk-io-1.15.0.jar li-sdk-maptiling-1.15.0.jar li-sdk-persistence-geopackage-1.15.0.jar li-sdk-persistence-gml-1.15.0.jar li-sdk-persistence-kml-1.15.0.jar li-sdk-persistence-mws-common-1.15.0.jar li-sdk-persistence-style-1.15.0.jar li-sdk-persistence-wkb-1.15.0.jar li-sdk-persistence-wkt-1.15.0.jar li-sdk-raster-core-1.15.0.jar li-sdk-rtree-1.15.0.jar li-sdk-style-1.15.0.jar li-sdk-vectortile-1.15.0.jar

Directory	File name
server\modules\routing\lib\	jackson-annotations-2.12.5.jar jackson-core-2.12.5.jar jackson-databind-2.11.4.jar jackson-jaxrs-base-2.11.2.jar jackson-jaxrs-json-provider-2.11.2.jar jackson-module-jaxb-annotations-2.11.2.jar li-sdk-btree-1.15.0.jar li-sdk-coordsys-srid-1.15.0.jar li-sdk-coordsys-wkt-1.15.0.jar li-sdk-dataaccess-core-1.15.0.jar li-sdk-dataaccess-dataproviders-file-1.15.0.jar li-sdk-dataaccess-dataproviders-memory-1.15.0.jar li-sdk-dataaccess-dataproviders-readonlytab-native-1.15.0.jar li-sdk-dataaccess-engine-1.15.0.jar li-sdk-dataaccess-language-1.15.0.jar li-sdk-dataaccess-sqlsupport-1.15.0.jar li-sdk-dataaccess-table-1.15.0.jar li-sdk-dataaccess-tabledepot-1.15.0.jar li-sdk-feature-1.15.0.jar li-sdk-grid-1.15.0.jar li-sdk-io-1.15.0.jar li-sdk-maptiling-1.15.0.jar li-sdk-persistence-geopackage-1.15.0.jar li-sdk-persistence-json-feature-1.15.0.jar li-sdk-persistence-json-style-1.15.0.jar li-sdk-persistence-wkb-1.15.0.jar li-sdk-persistence-wkt-1.15.0.jar li-sdk-raster-core-1.15.0.jar li-sdk-rtree-1.15.0.jar

Additionally, backup and **delete** the following files depending on your Operating System.

Directory	File name (Windows)	File name (Linux)
server\modules\spatial\lib\	MIRasterAPIRT.dll	libMIRasterAPIRT.so
server\modules\spatial\lib\	MIRasterIORT.dll	libMIRasterIORT.so
server\modules\spatial\lib\	MIRasterOperationsRT.dll	libMIRasterOperationsRT.so
server\modules\spatial\lib\	MIRasterUtilityRT.dll	libMIRasterUtilityRT.so

Once you have deleted the suggested folder and files, you can continue with the [next step \(Windows\)](#), or [next step \(Linux\)](#).



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