

Spectrum Spatial Analyst

Version 2022.1

Release Notes

This document contains information about new features and enhancements made in Spectrum Spatial Analyst 2022.1.

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What's new

Support for Java JDK 11

The Spectrum Platform (which includes Spectrum Spatial server) and Spectrum Spatial Analyst will now require JDK 11 as a prerequisite for deployment. JDK8 is no longer supported for deployment of the Platform. As a result, you need to have JDK 11 while installing Spectrum Spatial Analyst.

Support for External WMTS services

Spectrum Spatial administrators can now configure access to third party WMTS (Web Map Tile Service) services from the Project Properties page, and then add it as a layer to Spectrum Spatial Analyst. The administrator can configure authenticated and unauthenticated WMTS services.

As a result of this implementation, an administrator or sub-administrator can add an external WMTS layer as a business map, or base map in the Spectrum Spatial Analyst application.

How to add the layer in Spectrum Spatial Analyst

1. Open the map **Project settings** page.
2. Go to Base maps tab and click on the **Manage layer** button.
3. Select 'Web mapping tile services' from the drop-down list. All WMTS configurations get listed.
4. Select the desired configuration layer.
5. The selected configuration gets added in the project.



Note: You can also reorder layers and make WMTS as a default map.

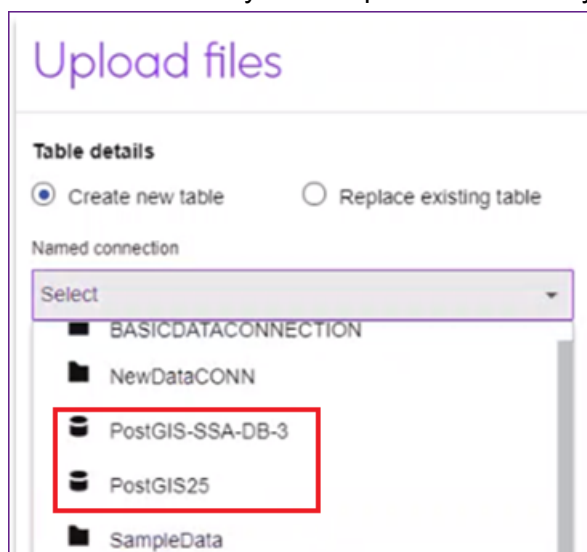
Enhancements made to Uploading Data

Spectrum Spatial Analyst now allows users with admin and sub-admin roles to create and replace tables in PostGIS from their computers. They can add the data to a new table or replace an existing table on the repository.

Previously, users could create and replace tables in SQL Server and file-based connections only. Now Spectrum Spatial Analyst enables you to upload data using PostGIS named connection.

Uploading Data

- Click or touch the **Add**  icon on the upper right corner of the map to open the **Add** panel.
- Click or touch the **Add layer**  icon.
- Choose **Upload Files to Spectrum Spatial (.TAB, .shp, .csv, .xls)** The **Upload files** panel opens. This panel will guide you through the upload process. Follow the instructions given under **Checklist before Upload** to avoid any error.
- Click or touch the **Choose file ...** to browse your computer and select your data files.



- Follow the instructions on the screen to upload your files. You can click **Learn more** on the Upload files panel for the detailed instructions.

Adding Custom Components

We have provided two enhancements in injecting custom components:

- Add new injection points on the left and right panels
- Specify the order of the custom component inside parent component

Note: Along with the new enhancements, the existing injection points and approach will continue to work in the same manner as it has been.

Add new injection points on the left and right panels

To explore new injection points, load the Spectrum Spatial Analyst in browser and inspect the parent element under which we want to insert the custom component by right clicking on that element and

choose inspect option. It opens the developer tool bar in the browser, then we need to copy the id of the element and put it as `parentComponentName` inside `CustomAnalystModuleConfig.json` file. Apart from this approach of providing the id of the parent element, we can also use other options like provide class of the parent element or can even directly supply CSS selector for that parent element.

Note: We would recommend to mostly stick to id approach or CSS selector approach as class approach can lead to insertion of custom component at multiple places because class is not unique unlike id of the element.

Ability to specify the order of a custom component inside the parent component

After adding several custom components as children of the parent component, you can now specify the order of these components under the parent component. A new option called `childPosition` has been added just below the `parentComponentName` option inside the `CustomAnalystModuleConfig.json` file. For example,

```
{
  "parentComponentName": "LegendContainer",
  "childPosition" : 1
}
```

In the above example we have shown `childPosition` as 1 which means the custom component when injected inside SSA, will be positioned as the first child element of `LegendContainer`. Similarly, if specified 2, it will be positioned as the second child element and so on.

How to register your extensions

Spectrum Spatial Analyst allows you to add custom components. You can develop your extensions and add them as custom components anywhere in the application. To do so, you need to register your extensions in the `CustomAnalystModuleConfig.json` file. This file can be found at: `<Analyst_install_directory>\Program Files\Precisely\SpectrumSpatialAnalyst\customerconfigurations\analyst\CustomAnalystModuleConfig.json`. After registering your custom components, when Spectrum Spatial Analyst reloads, it will load the extensible components as per the configurations in the `json` file.

In the `CustomAnalystModuleConfig.json` file, you need to specify the following information:

- path of the extensions
- the map project to which you want to associate your extension with, and
- the injection point such as add panel, left panel, or Legend where you want to insert the component

Previously, there was a limitation on where an extension could be added in the application. There were certain pre-defined number of insertion points where a custom component could be added.

This feature enables you to add the component anywhere. Moreover, this feature will not disrupt any existing custom component because it is backward compatible. Therefore, any existing custom component will continue to work as expected.

Ability to customize the stroke-width for Annotations

In this release the styles for annotations have been improved. The Annotations style is now managed through the brand.css. Previously the stroke-width was hard coded to 4px, but now it defaults to 1px if this property is not present in the CSS. If you want to retain a stroke-width of 4px after upgrading Spectrum Spatial Analyst, you can add the stroke-width property to your brand.css. We have introduced stroke-width property in the view-annotation class of brand.css. For example:

```
{
    /* Annotation color on map- view mode */
.view-annotation {
    fill: rgba(57, 0, 107, 0.5);
    stroke: rgba(57, 0, 107, 1);
    stroke-width: 4;
}
```

Customize See on Map using a new CSS class

There is a new branding option for the **See on Map** functionality. Now, you can customize **See on Map** using a new CSS class. Previously, **See on Map** did not have separate class and used to get branded with the annotation branding. In this release we have added a new `.see-on-map` class in the brand.css file for customizing the fill, stroke, and stroke-width properties of **See on Map**. For example:

```
{
    /* branding See on Map */
.see-on-map {
    fill: rgba(57, 0, 107, 0.5);
    stroke: rgba(57, 0, 107, 1);
    stroke-width: 2;
}
```

Allow Sub-admin to use template designer tool



Spectrum Spatial Analyst sub-admin can now access the Template Designer tool to create and edit callout templates so that those templates can be used to show the map information. Previously, only administrators could access the Template Designer tool.

Displaying Data Bind Result in Custom Template

In Spectrum Spatial Analyst, the data bind table information appears in the left panel as key-value pair. To improve the display of this information, you can apply a custom template to the data bind table. For example, you can apply a template created using the Template Designer tool.

In the Template Designer tool you can create a custom template and assign the template as a default to the data bind table. As a result, when a user views data bind table in the left panel, the information is displayed according to the assigned template.

To apply a template to data bind:

1. Click or touch a point on the map to see more information about the feature.
A callout appears in the left panel showing the attribute information about the location.
2. Click or touch on the **Overflow**  icon to see one or more options. The default template you have assigned to data bind table gets listed as an option.
3. Click or touch on the **Link**  icon against the template that you want to apply.

The information appears according to the applied template.

Migration to Angular 11

Spectrum Spatial Analyst and the extensibility framework have been upgraded to Angular 11. The load time when first browsing to the application has improved due to:

- Spatial Analyst is now compiled ahead of time (AOT)
- Lazy loading has been adopted for core Analyst modules

Support for placing extensions based on CSS

We are additionally supporting placement of extensions based on CSS tags so they can be placed anywhere and not just in a handful of parent components. Support for parent components will continue as always.

Other enhancements

The underlying components used by Analyst have been updated.

- Openlayers is now on version 6.5
- PrimeNG is now on version 11
- The underlying library supporting extensibility actions and state management is now NGRX 11

Bug Fixes

The following issues *have* been fixed in this release.

Bug ID	Description
SSS-10694	An issue with missing fonts. Some fonts were missing from the font folder in Spectrum Spatial Analyst. Resolution - Fixed.
SSS-10955	Unable to create thematic layer with a large data set. Resolution - Fixed.
SSS-11255	Spectrum Spatial Analyst returned incorrect radius for circle annotations. Resolution - Fixed.
SSS-11298	Issue with upgrading Spectrum Spatial Analyst from version 2019.1 to 2020.1, with exclamation mark in the password. Resolution - Fixed.
SSS-12354	Issue with the default parameter in the shared.properties file in Spectrum Spatial Analyst. Resolution - Fixed.
SSS-12831	Spectrum Spatial Analyst displayed a gray bar when printing. A gray bar appeared over the bottom half of the screen in the PDF. Resolution - Fixed.

Bug ID	Description
SSS-12863	<p>Incorrect projection information was being sent while uploading a GeoJSON with address.</p> <p>Resolution - Fixed.</p>
SSS-13649	<p>Issue with uploading data using Upload files to Spectrum Spatial function in Spectrum Spatial Analyst version 2020.1.</p> <p>Resolution - Fixed.</p>
SSS-13766	<p>Setting an external help link in Spectrum Spatial Analyst did not work properly. After setting an external help link, the application was showing the default help page.</p> <p>Resolution - Fixed.</p>
SSS-13800	<p>Issue with permissions propagation. The existing Role was not propagating to the new map, after adding a new map to a Map project.</p> <p>Resolution - Fixed.</p>
SSS-14014	<p>Issue with saving the label visibility on a layer which is turned off.</p> <p>Resolution - Fixed.</p>
SSS-14295	<p>Required field in Editing Template did not work for picklist.</p> <p>Resolution - Fixed.</p>
SSS-14421	<p>Issue with logging the project resourceID for every controller request in connect Usage log.</p> <p>Since Spectrum Spatial Analyst 2019.1 we had not been logging the map project name in the Analyst usage logs as a separate column. Now, it has been fixed and all requests made once a project is loaded will have a project name associated with them in each log entry.</p> <p>Resolution - Fixed. Now, Spectrum Spatial Analyst logs every controller request after a project has been requested.</p>
SSS-15487	<p>Issue with migrated print templates. The map was not getting center aligned.</p> <p>Resolution - Fixed.</p>
SSS-15561	<p>Print template designer elements did not collapse on left hand side in SSM so that I could have a better visibility of all the elements in that template.</p> <p>Resolution - Fixed.</p>

Bug ID	Description
SSS-15652	Saving Named Project was giving error if the Map referred to a NamedTable having spaces in the name. Resolution - Fixed.
SSS-16448	An issue where copyright clause on map was spilling out of the map frame in print. Resolution - Fixed.

Documentation

The following documents are available with this release of Spectrum Spatial Analyst.

S.No.	Document	Format	Locales	Description
1.	<i>Installation Guide</i> (Windows and Linux)	HTML	English only	This guide explains how to install Spectrum Spatial Analyst on a Windows Server and Linux. The topics covered in this guide include system requirements, installation steps, and uninstalling.
2.	<i>User Guide</i>	HTML	English, German, French, Italian, Japanese, and Spanish (Mexico) only	This guide is for Spectrum Spatial Analyst users and provides an overview of the Spectrum Spatial Analyst web mapping application.
3.	<i>Extensibility User Guide</i>	PDF	English only	This guide describes how to use the Spectrum Spatial Analyst Extensibility Platform for custom applications.
4.	<i>API Guide</i>	HTML	English only	This guide describes API specifications.
5.	<i>Release Notes</i>	PDF	English only	This document provides an overview of what is new and lists limitations and known issues with this release.

After installation, the documentation for Spectrum Spatial Analyst can be accessed from **Project Home > Help** .

Note: For optimal performance in Internet Explorer, we recommend viewing documentation with Internet Explorer (IE) Edge.

Supported Operating Systems

Spectrum Spatial Analyst supports the following operating systems:

Windows

- Windows Server 2012 R2
- Windows Server 2016
- Windows Server 2019

Linux

- CentOS 7.x
- CentOS 8.x
- Oracle Linux 7.x
- Oracle Linux 8.x
- Red Hat Enterprise Linux 7.x
- Red Hat Enterprise Linux 8.x
- Ubuntu 16.04 LTS
- Ubuntu 18.04 LTS
- Ubuntu 20.04 LTS

Supported Devices and Web Browsers

Spectrum Spatial Analyst supports the latest versions of Chrome, Firefox, Microsoft Chromium Edge, and Safari at the time of this release:

Web Browsers for Desktop:

- Google Chrome version 97.0 and 98.0
- Microsoft Edge Chromium version 97.0 and 98.0

- Mozilla Firefox version 98
- Safari 15.3 on Mac

Web Browsers for Devices:

- Safari (iPad) on iOS 13.1.3
- Safari (iPhone) on iOS 13.1.3
- Chrome on Android 6.0
- Microsoft Edge on Windows 10

Supported Languages

Spectrum Spatial Analyst supports the following languages:

1. cy (Welsh)
2. cz (Czech)
3. da (Danish)
4. de (German)
5. en (English- default)
6. en-au (English- Australian)
7. en-gb (English- British)
8. es (Spanish)
9. et (Estonian)
10. fi (Finnish)
11. fr (French)
12. it (Italian)
13. ja (Japanese)
14. nl (Dutch)
15. pt (Portuguese)
16. tr (Turkish)

To launch Spectrum Spatial Analyst in one of these languages, add a "lang" parameter to the end of the URL. For example:

```
https://<server>:<port>/connect/analyst/?lang=en-gb
```

Note: The language parameter is case sensitive, for example- "?lang=en-gb".

Limitations and Known Issues

Limitations

The following are the limitations in this release:

- **Rendering multiple raster layers:** If there is more than one raster layer added to a single named map and they are in different projections, then Spectrum Spatial Analyst only renders the first raster layer. All of the raster layers in a named map are projected in Spectrum Spatial Analyst in one go and must have the same existing EPSG code.
- **Using SVG icons in annotations:** In Microsoft Edge, the legend icons for annotations are not shown in the print preview page or the final PDF, because HTML2Canvas does not support SVG. HTML2Canvas is the library that Spectrum Spatial Analyst uses for capturing legend information onto PDF.

Known Issues

The following are the known issues in this release:

Bug ID	Description
SSS-10310 (CONN-30659)	While printing, the print preview and print PDF do not honor the border defined for a map in the print template.
SSS-10398 (CONN-40870)	On hiding or unhiding layers from the legend panel, you may notice that the previous layer or label appears for few seconds.
SSS-10399 (CONN-42137)	Address Search Error. The address search fails with a wild card search when there are more than two words.
SSS-4723 (CONN-46591)	Tile Levels Setting not honored after initial tile creation.
SSS-9923	The Single Sign-on (log in) page is displayed when you access Spatial Manager after logging to Analyst.



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