precisely

Spectrum Spatial Analyst

Version 2020.1

Release Notes

This document contains information about new features and enhancements made in Spectrum Spatial Analyst 2020.1.

Contents:

What's new

We have a new look and feel!

We have a new look and feel! We hope that you are as excited by our new look as we are. This is the first release of Spectrum Technology Platform with the Precisely brand.

Uploading Data

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

The data being uploaded is converted to a TAB file or SQL server table, depending on the named connection chosen. Once the data is uploaded, it can be added as a layer to any map.

> **Note:** The users who do not have one of the admin roles cannot upload files. An administrator can control which users can upload data by granting sub-admin roles and repository folder permissions.

Spectrum Spatial Analyst provides the following two ways to upload data.

⬆	**Upload files to Spectrum Spatial (.TAB, .shp, .csv, .xls)** In this case, the table is first uploaded to the Spectrum Spatial repository, and then you get an option to add your data as a layer in the Spectrum Spatial repository and to your map. After the layer is added to the repository, the layer will be available for adding to any map project. The same layer can be added to multiple projects.
📄	**Add files to map temporarily (.csv, .xls, .GeoJSON, .kml)** Previously, Spectrum Spatial Analyst allowed you to add data from CSV, XLS, GeoJSON, and KML files as temporary vector layers. Now, you can choose to upload the data to the Spectrum Spatial repository from the layers menu.

Supported File types

Admin and sub-admin can directly upload TAB, Shape, CSV and Excel (XLS or XLSX) files. The following table provides more details about the supported file types.
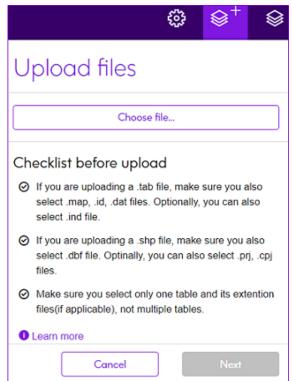
File extension	Description
.TAB	A MapInfo .TAB file. Only vector spatial tab files are supported (not raster), and the data file must be a MapInfo DAT file. The associated files are: • .map (required) • .id (required) • .dat (required) • .ind (optional) **Note:** All required and optional files should have the same name.
.shp	A shapefile is an Esri vector data storage format for storing the location, shape, and attributes of geographic features. The associated files are: • .dbf (required) • .shx (required) • .prj (optional) • .cpg (optional)
.csv	You can upload a CSV file containing spatial data to Spectrum Spatial repository then show the geospatial data on a map. • Spectrum Spatial Analyst supports and reads four CSV delimiters: comma, semi-colon, pipe, and tab. • The user can specify the decimal separator as a decimal point or comma. • Enclose text in double quotes (single quotes are not supported). Text without quotes will, in most cases, be interpreted as text and converted to a string column type.
.xls/.xlsx	You can upload an Excel file containing spatial data to Spectrum Spatial repository then show the geospatial data on a map. • Only Excel Workbook (*.xlsx) and Excel 97-2003 Workbook (*.xls) are supported. Previous XLS versions and Strict Open XML Spreadsheet (*.xlsx) are not supported • In an Excel workbook, each worksheet is a separate table. • Make sure that a table doesn't have a complex formatting such as merged cells or double header.

For further details on uploading data refer to the **Uploading Data** section in the Spectrum Spatial Guide.

How to Upload Data

To upload data, you can start with the following steps and click **Learn more** on the **Upload files** panel or refer to the User Guide for detailed instructions.

- 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 instruction.

Customize the Label text

Spectrum Spatial Analyst now allows you to customize the label style for non-raster spatial layers. You can now choose the desired label column and modify label properties.

- You can apply your style to the map label and save it with your map project.

- This feature enables you to define a style that fits with the theme of your map. You can choose the appropriate font, color, pattern, etc., for your labels.
- Changes made by the user are persisted with the map project if the user saves the project. The original named layer label settings are not changed.

You can edit the following label properties.

Table 1: Label Properties

Properties	Description
Label Source	Displays the column name from the table which is the source of label. You can change the label source by clicking another column from the drop-down list.
Font Family	Select a font family.
Font Style	Select a font style.
Font Color	Select a font color.
Font Size	Select a font size.
Font background	Select a background from the drop-down list. You can choose from Halo, Box, and None. • Click **None** to have no background. • Choose **Halo** to create a halo effect around the text. • Click **Box** to create a background box behind the text.
Box Color	If you have selected Box as background, select this to set a color for the box.
Halo Color	If you have selected Halo as background, select this to set a color for the Halo.
Horizontal alignment	Select this to set Horizontal alignment. If left is selected, then the label will be shown to the left of the feature.
Vertical alignment	Select this to set Vertical alignment.
X offset (px)	Select this to set distance between the map object and the label by entering a value in pixel. You can select a numeric values from 0 to 266 are allowed.
Y offset (px)	Select this to set distance between the map object and the label by entering a value in pixel. You can select a numeric values from 0 to 266 are allowed.

Properties	Description
Allow overlapping text	Select to allow labels to be drawn on top of each other. By default, it is unchecked. If you have overlapping labels, only those labels will be shown which have higher priority.
Allow duplicate text	Check to allow duplicate labels for different objects to display. This option can also be used with street maps to label street segments individually.

Ability to Save Annotations to a Map Project

After you draw an annotation and apply various styles to the annotation like color, size, and pattern, etc., and then save the map project, the annotations will also be saved. The project preserves all annotations in the current state, along with the queries created on the annotations.

On reload, the saved annotations are reloaded along with all customized properties and styles.

- You can query on annotations and save the result.
- Create annotations from extensible components and save them in a named project.
- Imported annotations from a KML file can also be customized and saved in a named project for further analysis.
- You can also save opacity for the annotation.

How to save annotations

1. Click or touch the right side menu 🗇 to open the **Map Legend** panel.

2. Click the **Overflow** ⋮ icon next to the **Map Layers**.

3. Click **Save Project** from the context menu.

    All annotations, and query on the annotations are saved with the map project.

    Note: When you delete an annotation, all queries based on that annotation will also be deleted. Spectrum Spatial Analyst alerts you and displays a list of queries associated with the annotation.
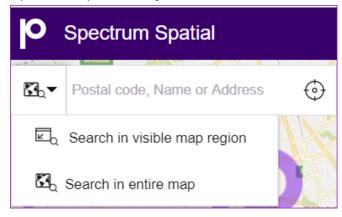
Enhancement to Address Search

Support for Typeahead API and Interactive Geocoder

Administrators can now specify interactive geocoder (on-premise) or Precisely Typeahead API (previously called Geosearch) URLs when creating geocoder configurations. As a result, the Spectrum Spatial Analyst users benefit from typeahead suggestions and more accurate geocoding when searching for an address on the map.

Search within Specified limit

Now you can limit your search by clicking the [icon] icon on the map.

Spectrum Spatial Analyst users can now select one of the following options:

1. **Search in the Visible Map Region** - The search is performed only within the visible map area on your screen. You can pan and zoom on your map before applying search for a better result.
2. **Search in entire map** - Search is performed in the entire map region.

   Note: These options are available only when **Precisely Typeahead API** and **Interactive Geocoder** services are configured as the Geocoder by the administrator.

Bug Fixes

The following issues have been fixed in this release.

Bug ID	Description
CONN-45072	Issue with switching the map project. While switching a map project having Bing as the base map, to another map project having Google as the base map, the application failed to display the Google base map. **Resolution** - Fixed.
CONN-45620	The Info tool for WMS layers used to fail if the WMS was in a different projection to the map project. **Resolution** - Fixed.
CONN-46410	In Spectrum Spatial Analyst version 2019.1, the version of the Command Line Utility was incorrect. **Resolution** - Fixed.
CONN-46554	Earlier, the zoom level labels could be seen even when the setting 'Display zoom labels' in the functionality profile was unchecked. **Resolution** - Fixed.
CONN-46599	Issue with HTTPS configuration in Spectrum Spatial Analyst 2019.1. **Resolution** - Fixed. We have updated the instructions for the SSL connector configuration in the installation guide according to the Tomcat 9 documentation.
CONN-46652	Incorrect translation of the word 'password' in the French locale. **Resolution** - Fixed. Corrected the translation.
CONN-46709	Spectrum Spatial Analyst 2019.1 - Map information would fail with the following error, if the name of the info template started with a numeric value. "Failed to determine the template to display information. Contact your system administrator". **Resolution** - Fixed.
CONN-46710	Legend icon failed to load for WMS layers containing spaces in their names. **Resolution** - Fixed.

Bug ID	Description
SSS-4089	Removed caching for services except Mapping service renderMap. **Resolution** - Fixed. We have removed caching of the REST requests for services like FeatureService, GeometryService, NamedResourceService and ProjectService. As a result, Spectrum Spatial Analyst gets updated data from the server.
SSS-5778	We have increased Batch Geocoding limit from 1000 records to 10,000, for OnPremise Global Geocoding Module in case of vector rendering and vector data upload. **Resolution** - Fixed.
SSS-9031	Business layer failed to be in sync with the base map on touch devices. This occurred on fractional zooms using pinch for zooming in and out. **Resolution** - Fixed.
SSS-9389	Vector data with address that renders on Spectrum Spatial Analyst should show X and Y coordinates in callout and query. **Resolution** - Fixed.

Documentation

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

SNo.	Document	Format	Locales	Description
1.	*Installation Guide* (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.	*User Guide*	HTML	English only	This guide is for Spectrum Spatial Analyst users and provides an overview of the Spectrum Spatial Analyst web mapping application.

SNo.	Document	Format	Locales	Description
3.	*Extensibility User Guide*	PDF	English only	This guide describes how to use the Spectrum Spatial Analyst Extensibility Platform for custom applications.
4.	*API Guide*	HTML	English only	This guide describes API specifications.
5.	*Release Notes*	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 2012 R2
• Windows Server 2016
• Windows Server 2019
• Ubuntu 16.04 and above
• CentOS 7 and 8

Supported Devices and Web Browsers

Spectrum Spatial Analyst supports the following devices and web browsers:

Web Browsers for Desktop:

• Microsoft Internet Explorer (IE) 11 and Edge
• Microsoft Chromium Edge (latest)
• Mozilla Firefox 82.0.3

- Google Chrome 86.0.4240.198
- Safari 13.0.2 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

Note about Microsoft Internet Explorer (IE) Browser

In line with many other products and Microsoft's own support timelines, this is the last version of Spectrum Spatial where IE 11 will be supported by Spectrum Spatial Analyst. In the next release code specific to supporting IE 11 will be removed. Please click the following links for further information on Microsoft's lifecycle and support of IE 11.

- **Lifecycle FAQ - Internet Explorer and Edge**
- **Farewell to Internet Explorer 11**

Supported Languages

Spectrum Spatial Analyst supports the following languages:

- cy (Welsh)
- cz (Czech)
- da (Danish)
- de (German)
- en (English - default)
- en_AU (English - Australian)
- en_GB (English - British)
- es (Spanish)
- et (Estonian)
- fi (Finnish)
- fr (French)
- it (Italian)
- ja (Japanese)
- nl (Dutch)
- pt (Portuguese)
- 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
```

Upgrading Spectrum Spatial Analyst

- During the upgrade process, the default banner and the brand.css file will be replaced with the Precisely branding. If you have customized your banner and brand.css file, please ensure that these are copied back from the backup folder which gets created during the upgrade.
- A new set of icon names are available in the template designer due to branding updates to the Spectrum Spatial Analyst. If you have used icons to represent columns in your templates, you will need to edit the template, choose the corresponding icon again, and re-save the template.
- When creating custom templates in template designer it is no longer possible to choose tables which are view tables. This will be fixed in subsequent patch or release. As a workaround a template can be created on the original table and associated with the layer using the view table in the project settings.

Limitations and Known Issues

Limitations

The following are the limitations in this release:

- When creating custom templates in template designer, it is no longer possible to choose tables that are view tables. We are working on it, and it will be fixed in the next patch or release. As a workaround, create a template on the original table and associate the template with the layer using the view table in the project settings.
- **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 Internet Explorer 11 and 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
CONN-30659	While printing, the print preview and print PDF do not honor the border defined for a map in the print template.
CONN-33841	UTF-8 characters (such as Japanese) in the copyright text are not supported in the print PDF output and display incorrectly.
CONN-34872	If a table has a percent symbol (%) in its name, the layer does not load in Spectrum Spatial Analyst.
CONN-40609	Raster reprojection fails to render tiles in geographic projections other than EPSG:4326, which uses degrees as a unit instead of meters. Projections that use meters as a unit should work.
CONN-40870	On hiding or unhiding layers from the legend panel, you may notice that the previous layer or label appears for few seconds.
CONN-40988	When accessing a map project in Spectrum Spatial Analyst via HTTPS named layers that contain a character with an accent, such as é, the map does not display.
CONN-42137	Address Search Error. The address search fails with a wild card search when there are more than two words.
CONN-43770	It is not possible to save the state of the thematic layer in map projects if it has been created on a query layer.
CONN-45157	Issue with templates and view tables in Spectrum Spatial Analyst 18.2. This issue is observed when a column name alias in view table contains spaces.
CONN-45213	Names layers based off view tables crash Spectrum Spatial Analyst when clicking 'See on map' in feature info
CONN-46591	Tile Levels Setting not honored after initial tile creation.
SSS-8744	If the name of the TAB file does not match with the layer name, then the label properties configured using Spectrum Spatial Analyst user interface may not work as expected.
SSS-9923	The Single Sign-on (log in) page is displayed when you access Spatial Manager after logging to Analyst.

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