



Location Intelligence

Spectrum™ Spatial Analyst Version 2018.2

Release Notes

This document contains information about Pitney Bowes Spectrum Spatial Analyst Release 2018.2.

Contents:

What's new in Spectrum Spatial Analyst?	2
What's new in SSA Administration Console?	4
Pre-requisites for Spectrum Spatial Analyst	5
Spectrum Spatial Map Uploader	5
Supported Operating System	5
Supported Devices and Web Browsers	6
Supported Languages	6
Bug Fixes	7
Limitations and Known Issues in this Release	8
Spectrum Spatial Analyst Documentation	11

What's new in Spectrum Spatial Analyst?

This release of Spectrum Spatial Analyst (SSA) incorporates the first phase of enhancing the way SSA is managed.

In this phase the creation of SSA map configurations (now called map projects) has been moved out of the SSA Admin Console and into the SSA end-user application. The subsequent phases will see the remaining Admin Console functionality moved and integrated with Spectrum Spatial Manager.

The following new updates and features have been added to the end user interface of SSA:

- **Map Projects:** Map Configurations are now called Map Projects. Map Projects are created, edited and saved in SSA's end user interface rather than in the SSA Admin Console. They are listed on SSA's new home page.

Note: All of the existing map configurations will be migrated and converted to the new map project XML structure. The functionality settings defined in the map configurations will be saved as new functionality profile XML files. Any third-party WMS or tile maps that were added into the map configurations will be saved as new WMS and Tile XML configurations. These separate configurations will be referenced by the map projects. For more details, refer to [What's new in SSA Administration Console](#) section.

- **The SSA Home page:** There is now a new SSA home page available where admins and users can see a list of all their projects with thumbnail images of each project. The home page can be accessed from a menu on the SSA options panel or directly via a URL like this -

```
http://ssa\_server:8010/connect/analyst/mobile/#/home
```

Map projects can be launched and opened into SSA from the home page. When logged in as Admin you can also open the project in edit mode, duplicate the project or delete the project. If the user wants to go straight into a project bypassing the home page, it is still possible to specify the project name as a URL parameter on the usual SSA URL.

- **Creating and Saving Map Projects as an admin in SSA:** When Admins are signed into SSA they can create new projects and can edit existing projects that they have created. There is an extensive new dialog for managing projects. Editing can be launched either from the home page or clicking the "Project Settings" menu which is on both the options panel, and in the overflow menu at the top of the legend. When creating and editing a project, they can-
 - Browse and Add Base maps
 - Browse and Add Business maps (from Spectrum or from a list of WMS and Tile services defined in Admin Console)
 - Choose what functionality to enable by picking a Functionality Profile
 - Choose the find nearest configuration

- Specify the pan-able extents and map projection visually.
 - Choose which roles can view the project
 - After saving the project and closing the dialog, further changes can be made and saved in SSA as an end-user (see below).
- **Viewing and saving map projects as an end user in SSA** : End users are able to load and view Map Projects. They can now also save a map project for re-use. A project can be opened from the home page, by specifying its name as a URL parameter or by using the project drop down menu at the top of the legend panel. A project can be saved (if admin has enabled this capability in the functionality profile) by clicking the “Save as new project” or “Save project” which is on both the options panel, and in the overflow menu at the top of the legend. The saved project will include the changes they have made to it. It will be available only to them, and cannot in this release be shared to other users. Users cannot overwrite admin created projects. When saving a project from SSA, the following items are saved in the project.
 - Layers browsed and added from Spectrum (locally added vector layers are not saved).
 - Thematic maps they have created in SSA
 - Query layers they have created in SSA (query layers referencing an annotation are not saved)
 - The layer order (users can now re-order layer groups in SSA 2018.2)
 - The visibility toggle of each layer.
 - The map zoom and location at the time of save.
 - A thumbnail image is auto generated at the map centre and saved with the project.

Note: Locally added vector layers and annotations are not saved. Query layers which reference annotations are not saved. Users can remove layers they have added, but Named Maps added into the project by admins cannot be removed by end users.

- **Users can re-order layers at the group level:** Users are now able to re-order layers at the group level in SSA by dragging them up and down. The changes made are persisted if the user saves their project. A new button has been added at the top of the legend to toggle between normal and re-order modes.
- **Users can expand and collapse all layers at once:** Users are now able to expand and collapse all legend items at once. A new button has been added at the top of the legend to toggle between normal and re-order modes. The visibility of the legend entry is not affected (expanding all legend items will not make all of the layers visible)
- **Maps in differing projections:** When creating Map Projects, admins can now choose and add base maps, WMS and Tile maps that are in different projections to each other. They can choose which projection is used for the view in SSA and the other maps will be re-projected on the fly to match the chosen projection. Furthermore, if a raster layer is added from Spectrum such as an MRR – it will also be re-projected. Previously raster layers served from Spectrum Spatial had to be created in the same projection as the SSA map to be shown.

Note: There are three minor limitations in this capability that are listed in the [Limitations and Known Issues](#) section.

For more information, refer to *Spectrum Spatial Analyst User Guide*.

What's new in SSA Administration Console?

With the map project creation moving to the SSA end-user application, there have been a number of changes in the SSA Admin Console. The SSA Admin Console is used to manage all of the other settings and configurations that are referenced by Map Projects. The changes are described below:

- **Map Configurations:** The Map Configurations tab is removed and is now replaced by the map project management in SSA as described in the section above.
- **Functionality Profiles:** A new functionality profile tab has been added. The functionality settings that used to be specified directly in Map Configurations are now saved as a new Functionality Profile and continues to be defined in admin console. When creating a Map Project in SSA you can browse and pick one of the Functionality Profiles created here to use. A single Functionality Profile can be re-used by many Map Projects. References to the following are now part of a functionality profile rather than a Map Project -
 - Routing configuration (for travel boundaries)
 - Geocoding or locate configuration (for address searching)
 - The print templates to be made available
 - The SSA brand
 - Watermark
 - Global copyright

Note: Zoom Level Description is not supported in SSA 2018.2. The Zoom level (static) can be switched on and off from Functionality Profile tab in Admin Console

- **Third party WMS and Tile services:** New tabs have been added for Tile Services and WMS. These are still configured in Admin Console but now each one can be saved as a third-party WMS or Tile layer. In SSA you can then pick and add them to Map Projects either as base maps or business maps, the same way that Spectrum Spatial maps and layers are added. The same tile and WMS layers created here can be added to and re-used in many Map Projects, without having to define them for each and every project.
- **Support for Single Sign On:** It is now possible to configure single sign on (SSO) for SSA. The SSO integration for SSA requires SSO to be set up to Microsoft ADFS in the Spectrum Platform as a pre-requisite. Details are in **Appendix L - Implementing Spectrum Single Sign-on (SSO)** of the SSA admin guide and in the Spectrum Administration Guide under Security - Implementing Spectrum Single Sign-on (SSO).

For more information, refer to *Spectrum Spatial Analyst Administration Guide*.

Pre-requisites for Spectrum Spatial Analyst

SSA 2018.2 is tested and supported on the Spectrum 2018.2 platform.

Note: SSA 2018.2 will not work on previous versions of Spectrum.

Upgrading to Spectrum Spatial Analyst: The upgrade installer for Spectrum Spatial Analyst 2018.2 will only upgrade from versions 12.2 and 12.2.S01, 12.2.S02 and 12.2.S03. Customers who are migrating from previous versions of Analyst will need to upgrade to 12.2.

Please see the release notes for [Spectrum Spatial Analyst 12.2](#) for details. For more information about Spectrum Spatial Installation, refer to:

- [Installation Guide for Windows](#) and
- [Installation Guide for Linux](#)

Spectrum Spatial Map Uploader

Spectrum Spatial Map Uploader is part of Spectrum Spatial Utilities. It can be downloaded from Spectrum Platform home under Spatial > Utilities section or by using links to that page provided in the Analyst Administration Console.

The Spectrum Spatial Map Uploader is a tool that is added to MapInfo Professional. It allows administrators to publish a map into Spectrum Spatial. The tool creates all of the Named Resources needed to view the data retaining any thematic maps, style overrides or other layer settings applied in MapInfo Professional.

Since Spectrum11.1 there are two versions of the uploader.

Note: SSA only supports the new version of the uploader which is available for MapInfo Professional 64-bit, since Label layers created by the old uploader will not work in SSA versions 12.0 onwards.

For more information, refer [Spectrum Spatial Map Uploader help](#) documentation.

Supported Operating System

Spectrum Spatial Analyst supports the following operating system:

1. Windows 2012R2
2. Windows Server 2016
3. Ubuntu 16.04
4. RHEL 7.1
5. CentOS 7.0

Supported Devices and Web Browsers

SSA has been tested on the following devices and web browsers:

Web Browser for Desktop:

- Microsoft IE 11 and Edge
- Mozilla Firefox 62.0.2
- Google Chrome 69.0
- Safari 11.1.2 on Mac

Web Browser for Devices:

- Safari (IPad) on iOS12.0
- Safari (IPhone) on iOS12.0
- Chrome on Android 6.0
- Microsoft Edge on Windows 10

Supported Languages

Spectrum Spatial Analyst supports the following languages:

- cy (Welsh) (not for Admin Console)
- da (Danish)
- de (German)
- en (English- default)
- en_AU (English- Australian)
- en_GB (English- British)
- fi (Finnish)
- fr (French)
- nl (Dutch)
- pt (Portuguese)
- es (Spanish)

- et (Estonian)
- sv (Swedish)
- cs (Czech Republic)
- ja (Japanese)
- tr (Turkish)
- it (Italian)

To launch either the Spectrum Spatial Analyst Admin Console or 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
```

Bug Fixes

The following issues have been fixed in this release:

Table 1: Bug Fixes in SSA 2018.2

Bug ID	Description
CONN-39626	Legend symbol sizes for graduated symbol thematic maps uploaded via the map uploader were showing with incorrect size in SSA legend.
CONN-39620	When searching for an address or co-ordinates via the locate bar, SSA was not taking the search zoom into account before doing the info callout, hence sometimes you would get search results for a wider area.
CONN-39325	Extensions in SSA would not load if the SSA deployment did not support public access.
CONN-38659	SSA was unable to render Third Party Tile Maps with CORS turned off.
CONN-38323	Zoom layering applied via Spatial Manager was not honored in SSA.
CONN-38225	When adding a custom copyright text to a particular map configuration in the Admin Console, the text was not showing in SSA if Bing map was used as a base map.

Bug ID	Description
CONN-37832	Adding Spectrum's tile service as a third-party tile was not working since its tile scheme was 1-based. This is now fixed.
CONN-37814	Column names having the word "where" in them were causing map information and querying to fail.
CONN-37814	Column names having the word "where" in them were causing map information and querying to fail.
CONN-38998	Info callout on Grid layers were resulting in internal server error. This has been fixed now.
CONN-39187	When switching map configurations, the zoom layer settings for layers were not honored.

Limitations and Known Issues in this Release

The following are the limitations and known issues in this release:

Spectrum Spatial Analyst

The limitations in Spectrum Spatial Analyst are listed below:

- Using EPSG:4326 raster layers with SSA: Raster maps in Spectrum Spatial such as MRR or MapInfo Grid (MIG) which are in geographic projection such as EPSG:4326 projection will not correctly align with other maps in SSA. This is due to the way the mapping service renders EPSG:4326 maps. We recommend making these kinds of maps available through the Spectrum Spatial Tile Service (or the WMS service) and not through the mapping service.
- Using other projections with Google as a base map: When adding Google maps as a base map, the map project must always be set to EPSG:3857. This is because Google maps are rendered using Google's own JavaScript APIs and the option to re-project them in SSA is not available.
- Using labels layers with EPSG:4326 projections: Labels will not align with the underlying maps if the map project is in geographic projection such as EPSG:4326. If labels are enabled for any

layers added to a map project, we recommend that a different projection be chosen such as EPSG:3857.

- In earlier versions, you had to control the access permissions individually for each saved query in the Admin Console. This has been simplified, now you can control access to the saved queries by associating them with a map project. A user is shown the associated saved queries only if one of his roles is granted access on map project. If you are migrating from SSA 12.2, you need to reconfigure the access to saved queries, by adding them to your map projects. Please refer to [Configuring Business Maps](#) section for more details.
- If the projection of a Spectrum Spatial raster named layer or named map does not specify an EPSG code, then it cannot be rendered in Spectrum Spatial Analyst, since SSA needs to know the existing EPSG code to perform a re-projection of the data.
- If there is more than one raster layer added to a single named map, and they are in different projections, then SSA will only render the first raster layer, since all of the raster layers in a named map are projected in SSA in one go and must have the same existing EPSG code.
- SSA Application help is not working properly in Mobile devices. As a workaround, you may use external support help [link](#).
- If you are logged in to Analyst and Admin Console and you sign out of one of the applications, your subsequent request to SSA may fail. To continue your work, please start a fresh session with SSA.
- For IE11/Edge, only PNG format is supported instead of SVG format in this release. The only limitation of this approach is that style annotation legend will not be shown on IE legend panel for print. It will not impact on main page legend panel. The main page legend panel will work as it is with SVG images. This fix will only impact the print functionality legend panel in IE11/Edge.
- If maps with graduated symbols, pie charts or bar charts larger than 30px are uploaded then the symbols may appear cropped on the map in SSA. For end user created thematic maps, SSA will handle and correctly show symbols up to 64px in size without cropping.
- For URL Parameters functionality, *showNearest* does not show the results on mobile. As a workaround, user can use *showInfo* to launch SSA and click on “Search nearby” button either on the left panel or on the mini pop up to see the FMN results.
- For URL Parameter functionality, *showRings* does not work on mobile, concentric rings not drawn on mobile.
- From Chrome browser, the zoom level should be set to 100% else you may face some UI issues on the Spectrum Spatial Analyst.
- Points and line annotations are not buffered with search width value when using them in a query for searching intersecting features. Sometimes, this may lead to no query results if user is not zoomed in enough.
- Full querying of layers is not a capability of WMS or Tile services. Hence, the Analyst query functionality will appear disabled for a map configuration containing only WMS or Tile Business data. Call outs will still work however.
- Maps which had a zoom range applied may not appear in print previews at certain zoom levels especially the lowest and highest zoom range levels. During print preview collation a larger size of image is requested as compared to the tile size present on Analyst. This difference in size sometimes leads to layers falling outside their prescribed zoom range, making them invisible in print preview.

Known Issues

The following are the known issues in this release of Spectrum Spatial Analyst:

Bug ID	Description
CONN-30659	While printing, border of map is not honored in preview and print PDF.
CONN-33841	UTF-8 character is not supported in copyright while exporting PDF. Please do not add any special character in copyright from admin console.
CONN 37149	Under Browse Add layer, different projection layer is not displayed for few map configurations. EPSG:3004 is not supported by spectrum and that's why layer is not rendering on base map.
CONN-33842	UTF-8 character is not supported in static text while exporting PDF.
CONN-34521	Legend icons are not visible on Mozilla Firefox V 55 onward for exported PDF. Workaround: Use Mozilla Firefox version 54.01, in order to view legend icons in exported PDFs.

Spectrum Spatial Analyst Administration Console

The limitations in Spectrum Spatial Analyst Administration Console are listed below:

- Maximum records that can be fetched on Spectrum Spatial Analyst application for a particular data bind is 999.
- Data Bind doesn't work for the tables having DateTimeOffset, We are not able to create named tables for such type of tables.
- Though Analyst supports the creation of WMS Base Maps with geographic projections (which use degrees as units such as epsg:4326), you are advised not to add Mapping Service Business Maps over such Base Maps. This is because the Mapping Service used by Analyst does not render maps in a form that aligns with geographic projections. The misalignment is because the standard parallel is changed as the map is panned away from the equator (this is called moving standard parallel and is a feature of all MapInfo products). The misalignment is more pronounced as you move further north or south from the equator.
- When adding WMS Maps Analyst will initially default to using WMS version 1.1.1. If the WMS service supports both version 1.1.1 and 1.3.0 then the administrator can enter the version=1.3.0 parameter to their WMS URL to force Analyst to use that version.

- If you are viewing reports from the Reports menu in Administration Console, make sure to disable any pop-up blockers in your browser as these may prevent the report appearing.
- The Analyst Admin should not use the Spectrum MWS Uploader or Management Console to upload a map as these do not create Named Layers and they will not work with Analyst. All the maps should be uploaded using Spectrum Spatial Map Uploader only which is available on Home tab of with Analyst Administration Console. From Spectrum Spatial 12.2, admins can also create maps and layers which work with SSA directly within the Spectrum Spatial Manager web application.
- The address search logs are not available from the Admin Console reports menu. In order to view usage logs for address searches and also other Analyst features the web access logs can be viewed in this folder: "C:\Program Files\Pitney Bowes\SpectrumSpatialAnalyst\Tomcat7\AnalystConnect\logs\". The access logs are named in this format "localhost_access_log.YYYY-MM-DD" and the address search log entries start with this URL pattern.
http://<server>:<port>/connect/analyst/controller/locator/singleLine. The log entries also include the address being searched as a URL query parameter.

Spectrum Spatial Analyst Documentation

Spectrum Spatial Analyst documentation is web help responsive, which means it adjusts according to the device for the best user experience.

The following documents are available with this release of SSA 2018.2:

SNb.	Documentation	Format	Locales	Description
1.	Spectrum Spatial Analyst Installation Guide for Windows	HTML	All, except Welsh	This guide explains how to install Spectrum Spatial Analyst on a Windows Server. The topics covered in this guide include system requirements, installation steps and uninstallation.
2.	Spectrum Spatial Analyst Installation Guide for Linux	HTML	English Only	This guide describes all the steps to install Spectrum Spatial Analyst on a Linux machine (Ubuntu).
3.	Spectrum Spatial Analyst Administration Guide	HTML	All, except Welsh	This guide describes all of the admin related tasks and help on using the admin console. This includes how to start Spectrum Spatial Analyst, loading data, creating users and roles, managing permissions, repository overview and using named tiles and base maps.

SNo.	Documentation	Format	Locales	Description
4.	Spectrum Spatial Analyst Extensibility User Guide	PDF	English Only	This guide describes how to use Analyst extensibility platform for creating customization in Spectrum Spatial Analyst.
5.	Spectrum Spatial Analyst API Guide	HTML	English Only	This guide describes API specifications for Spectrum Spatial Analyst.
6.	Spectrum Spatial Analyst User's Guide	HTML	All	This guide is for end users of Spectrum Spatial Analyst and provides an overview of using the Spectrum Spatial Analyst web mapping application.
7.	Spectrum Spatial Analyst Release Notes	PDF	English Only	(this document) This release note includes an overview of Spectrum Spatial Analyst, what's new and lists limitations and known issues for the current release.

After installation, all the documentation for Spectrum Spatial Analyst can be accessed from **Home** tab > **Analyst Guides** of **Spectrum Spatial Analyst Administration Console**.

Note: In Internet Explorer, Spectrum Spatial Analyst documentation is best viewed with IE Edge.



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