



Spectrum™ Technology Platform Release 2019.1

What's New Preview

This document provides a brief list of the new features, enhancements, and changes that you will see for each module in the upcoming release of Spectrum Technology Platform.

Analytics Scoring Module

This release provides multiple security enhancements.

Business Steward Module

This release adds a new command line interface (CLI) for Business Steward Module. The new interface currently implements a single command that removes all exceptions for a certain dataflow with an optional Job ID and an option to remove data quality report data for removed exceptions.

Data Hub Module

- Added new query and filtering capabilities to the Data Hub Visualization application
- Added Data Hub models to Metadata Insights, including Data Hub model creation and editing with virtual entity support
- Enhanced access to Data Hub models through a new Data Hub connector and a REST API

Enterprise Routing Module

We have renamed this module to the **Spatial and Routing Module**.

Enterprise Tax Module

- Improved single line matching for PO Boxes when entered as POST OFFICE BOX, or for numbers preceded by #.
- Improved standard, single-line secondary address handling.
- Improved handling of single-line input addresses with missing or out of range house numbers. We have enhanced the accuracy of returned matches and non-matches.

Geocoding Modules

Enterprise Geocoding Module - USA

- Added Master Location Data (MLD) Extended Attributes. When matching addresses with MLD, Spectrum returns additional property information such as Assessor's Parcel Number (APN), Elevation, Address Type, Lot Size, and more.
- Made multiple single-line matching improvements.
- Added support for the Spectrum Product Database (SPD) format.

Global Geocoding Module

- Added Master Location Data (MLD) Extended Attributes. When matching addresses with MLD, Spectrum returns additional property information, such as Assessor's Parcel Number (APN), Elevation, Address Type, Lot Size, and more.

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- Added support for multiple geocoding databases, which allows you to create and use multiple versions of data and software together in a Spectrum workflow.
 - Improved the performance and scalability for Global Geocoding.

Global Addressing Module

- Global Address Parser has added support for Australia, France, Spain, and the United States.
- New result codes provide information on how Global Address Validation processed United States addresses.
- The new VeriMove™ data block option returns 250-bytes of additional information codes for use with the Pitney Bowes VeriMove move update product.

Location Intelligence Module

We have renamed this module to the **Spatial and Routing Module**.

Machine Learning Module

This release provides multiple security enhancements and several new configuration options.

Metadata Insights

Collaboration and Approval Workflow in Business Glossary

- Collaborate and establish workflows for streamlining communication among data consumers across the organizations.
- Define custom semantic types.

Profile and Monitor

- Use scorecards to monitor data quality based on your specific business rules.
- View data quality trends and assess improvement over a specific timeframe.

Model

- Use logical models as a flexible quick-start point for creating Data Hub models.
- Create automated joins for discovered tables.

Screener Solution

- Define meaningful attributes for all secured entities.
- Toggle views between uncleansed and cleansed entries.
- Attach documents that justify and support user actions.

Server

This release features:

- A functional *technical preview version* of Flow Designer, our next-generation Web-based UI for designing and deploying workflows across your organization
- Several security enhancements, including string encryption: See the Spectrum™ Technology Platform 2019.1 *Release Notes* for details.
- Fixes to customer-reported issues: See the Spectrum™ Technology Platform 2019.1 *Release Notes* for more information.

Smart Data Quality Module

- We have automated the record grouping process with machine learning algorithms that define optimal group strength for creating a relevant training set.
- We have also automated smart selection variations based on matching definitions, and have removed the 20K record maximum.
- Smart Data Quality (Smart DQ) integration with the Business Steward Module (BSM) ensures match rules are updated to cover ever-changing data. Exceptions raised and approved during

the entity resolution flow in BSM are now linked back to Smart DQ to train the machine learning model, keeping match rules up-to-date.

Spatial and Routing Module

Spatial

- Spectrum Spatial Analyst is now managed using Spatial Manager. All of the functionality that was in the Spectrum Spatial Analyst Administration Console has moved to the Spatial Manager under the **Project Properties** tab.
- Spatial Manager now lets administrators (admin) and sub-administrators (sub-admin) create thematic maps for layers (individual value and value range thematic maps). They can also specify style overrides for layers that reference MapInfo Raster and Grid tables.
- The Find Nearest Stage in the Enterprise Designer now returns results based on a routing network in addition to a straight line.

Routing

- A new Matrix Route stage supports standard geometry input, including multi-point objects for matrix creation.
- Installing Spectrum Product Data (SPD) is fully integrated with the Management Console and CLI. As a result, you can install US data by selecting a single checkbox.
- When working with Route and Matrix stages, REST services, and SOAP services, you can use the localroadoptimization factor to load more local roads, optimizing the route.
- Travel Boundary service requests, stages, and the Route demo application support a propagation factor when using a distance rather than a time cost.

Universal Addressing Module

- We have added a tracker for transactions processed by Loqate.
- We have updated the ValidateGlobalAddress library from release 5.13 to release 5.15.
- You can now download and install Loqate and UAM Enhanced International (UAM-EI) databases in the Spectrum Product Database (SPD) format.