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# Spectrum™ Technology Platform Release 2019.1

## What's New Preview

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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

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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.