



**STEP** ❖

# Trailblazer

Release Notes

Release 9.0

*Updated 06-July-2018*

**StiboSystems**

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# Release Notes for STEP Trailblazer 9.0

Spring 2018 Release

## Document Overview

### Audience

This document is intended for use by active STEP users and serves to describe the new and enhanced features provided by the release. It does not serve as a replacement for the STEP online help, which includes additional information on previously existing system functionality, as well as more detailed explanations and step-by-step instructions for use when appropriate.

### Content

This document describes the changes between the current and previous release.

**Some functionality is controlled via licenses and may not be available on a particular system.**

Questions regarding licensing and component activation should be directed to the Stibo Systems account manager or partner manager.

## Release Overview

Stibo Systems has enhanced the STEP platform in a number of areas, for example:

- The new integration with Stibo Systems' Product Data Syndication (PDS) Platform makes it possible to deliver master data, in the format required, to individual data receivers / channels via data governance mapping.
- Several improvements have gone into the Web UI, including a new workflow visualization tool, updates to the Guided Data Entry functionality (formerly Guided Navigation), and the addition of a component that displays and allows users to manage the new composite attribute objects for products in Web UI.
- Users may directly publish to GDSN data pools through the Product Data Syndication Platform.
- New monitoring solution for Customer MDM that allows users to monitor data and receive notifications about significant changes.
- New Customer MDM task filtering functionality allows the flagging of clerical review tasks as high priority, and lets users filter out lower priority tasks.
- For SpirePLM users, enhancements include new line plan creation and maintenance functionality as well as a new scheduling functionality for overall project management.
- The STEP Exporter functionality has been optimized for In-Memory. Additionally, In-Memory has a number of optimizations including search features and expanded Task List filtering.
- STEP offers a core SAML SSO (Single Sign-On) solution compatible with SAML 2.0.
- STEP now offers both a JSON-based and an XML-based REST API.

- Users can now leverage machine-learning capabilities to automatically tag image assets with keywords through visual analysis using the new Asset Analyzer Component and an integration with Google Cloud Vision API.

This document describes the above, as well as a long list of other new functionality and improvements, in greater detail.

As with every STEP release, some STEP components are deprecated, removed, or desupported for various reasons. Anything with a user impact has been called out in the applicable release note and may require special attention and user action before upgrading to 9.0.

A summary list follows. Customers should also read the Platform and Software Support Changes release note for additional items that may not be listed below.

- Some STEP functionality will be removed as baseline functionality and become accessible via a separate component installation. **User action is needed to continue using this functionality.** See the Platform and Software Support Changes release note and the individual release notes for each component: MongoDB, GDSN Publisher, and GDSN Receiver.
- The Data Container Popup Editor component in Web UI has been removed. Details can be found in the New and Improved Web UI Functionality release note.
- The Asset Thumbnail and Asset Midsized components have been superseded. Read more in the New and Improved Web UI Functionality release note.
- **Stibo Systems is officially ending support for the following versions of STEP Trailblazer: 7.0 - 7.2 and 7.3 (effective 1-Aug-2018), 7.4 (effective 1-Nov-2018), and 8.0 (effective 1-Apr-2019). See the Platform and Software Support Changes release note for full details.**

In addition to the information above, if there are any known future deprecations or impending desupports planned, the information can also be found in the release note set.

## Recipe

The baseline update can be installed with the following recipe:

```
to:step/trailblazer/step-9.0.spr
```

### Important information before updating:

- STEP 9.0 comes with enhanced functionality in relation to handling of images. STEP 9.x Application Servers running MS Windows Server 2016 / 2012 R2 64-bit must include Microsoft Visual C++ 2015 Redistributable (x64). Information about Supported Platforms can be found in the Platform and Software Support for Trailblazer 9.0 topic.
- Systems using Java 7 need to be updated to Java 8 and re-deploy all sidecars. For details, see the Platform and Software Support Changes release note.

Please contact your Stibo Systems account manager or your partner manager for additional information on upgrading to or installing the STEP 9.0 release.

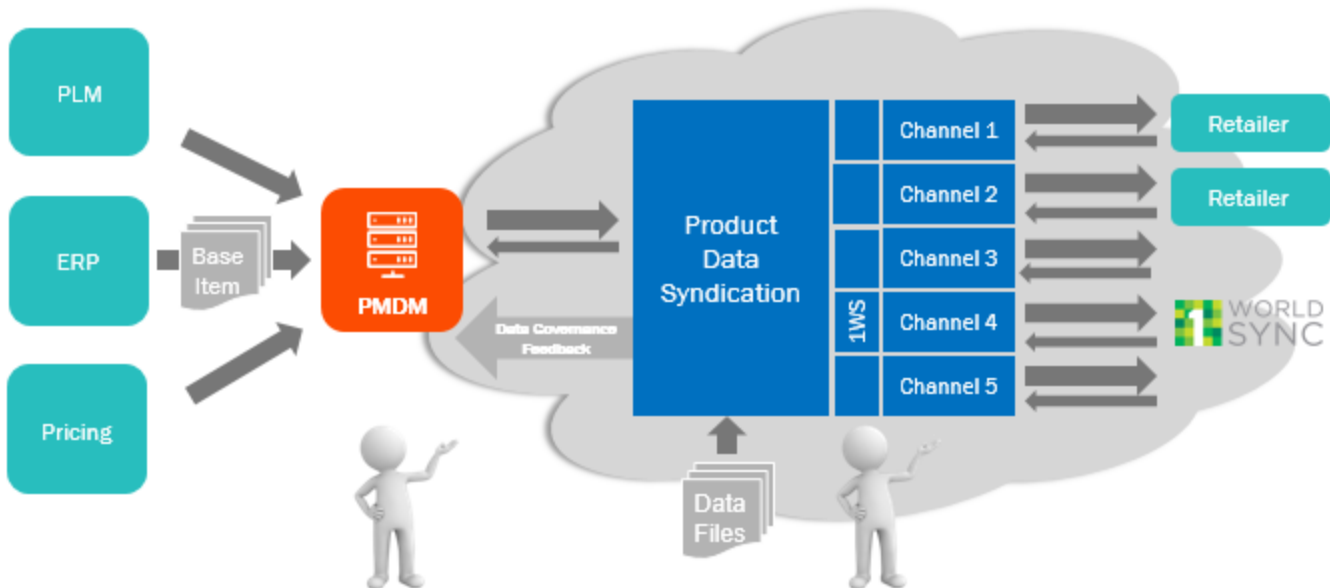
# New Integration with Product Data Syndication Platform

Fully mastering product data includes delivering a single view of the STEP master data to all data receivers. This can be a challenging task since data receivers often have differing data governance requirements. As a simple example, one data receiver may require a 'yes' value, while another expects only a 'Y'.

Leaving master data unchanged, the Stibo Systems' Product Data Syndication (PDS) Platform makes it possible to deliver the same data, in the format required, to each data receiver (or 'channel') via data governance mapping. Using each data receiver's required data standards, mapping rules are established and can be applied to all products at once. The channel-specific rules determine the transformations performed each time master data is delivered to the data receiver.

To further supplement the master data management process, PDS can include:

- Delivering product master data to all data receivers<sup>\*</sup>, in support of various business initiatives
- Adopting data delivery requirement changes quickly via mapping
- Reporting the data receiver's PDS delivery status in Web UI and STEP Workbench
- Improving 'Go Live' time for additional channels with a uniform PDS concept across all channels



<sup>\*</sup> depending on availability

The STEP integration with PDS is managed using two integration endpoints:

- An OIEP (outbound integration endpoint) sends master data from STEP to PDS. This can include product data and primary image, product references as well as metadata on those references, and packaging hierarchy information.



- An IIEP (inbound integration endpoint) receives PDS channel status information into STEP. This enables a STEP user to monitor the status of products being syndicated by PDS.

For more information, see the Product Data Syndication topic in the Data Integration documentation.

# Composite Attributes Capability for Products

Data containers provide a way to create a composite attribute object that represents complex data. Previously, data containers were only available on entities, typically used to represent multiple addresses (records) that belong to a single customer. With 9.0, the data container functionality is also available for products, allowing use cases such as a place to save unstructured data or complex statuses. Additionally, new methods have been added to the Scripting, Extension, and Query APIs that allow users to manipulate and search data containers programmatically.

As with standard product specification attributes, product data containers types can use inheritance, can be linked to specified nodes in the product and classification hierarchies, and can be made mandatory.

The following images show possible product data container uses:

- Collecting data where a set of values are combined to provide the value for a single attribute or a series of attributes. For example, multiple attribute values on a product are combined to determine the overall outcome for an industry standard test.

Industry Standard A	Specific Gravity	Tensile Strength	Water Absorption
	.08	65	>1
	.08	73	> 1
	.98	62	< 1
Add			

- Generating technical specification data, for example, by pairing attributes and values from variants of the same products.

Technical Specification	Inrush VA	Sealed VA	Sealed Watts
	300	30	6

- Storing non-typed data for unstructured, and initially non-mappable data, for example, creating a placeholder for data and values submitted to STEP by a supplier until the data cleansing process determines that new STEP attributes should be created to retain the data.

Non-Typed Data	Field Name	Value
	Operating temperature range	50-60
	Supplier description	A great multi-use product
	Water reservoir	Hinged top
	Base	Sliding
<a href="#">Add</a>		

Information regarding updates to Web UI Data Container components can be found in the New and Improved Web UI Functionality release note.

For information on setting up composite attributes via the data container functionality, as well as the functionality that is not supported in this initial release of product data containers, see the Data Containers topic within the System Setup / Super User Guide documentation.

# New and Improved Web UI Functionality

## Summary

The 9.0 release of STEP features a number of substantive improvements to the Web UI that include:

- A new Web UI Data Container component has been added that can be used with products. Additionally, the existing Data Container Popup Editor component has been renamed and Data Container Editor was removed.
- Error handling has been streamlined, including the addition of a Warning Notification panel that collates all warning and error notifications and displays them in a collapsible panel.
- Streamlining enhancements have been made to the Web UI including consolidation of four Asset components into two, and display of explanatory placeholder icons in content-free screens and homepage widgets.
- With multiple workflows for a single project, Workflow Visualization helps managers to more easily see work progress.
- Assets uploaded using the Asset Uploader widget are now processed in the background, enabling users to execute other tasks in the Web UI.
- Updates have been made to Guided Data Entry, formerly Guided Navigation, including an intuitive progress tracker and a more effective save function.
- When selecting a reference to display in a Reference header on a Node List, users may now narrow down which nodes to display for selecting a reference object rather than displaying nodes that may not be applicable.
- A new 'Children of Types' screen has been added that enables the display of children objects of multiple object types when working on a node.
- Image conversion configurations may now be applied to the Excel Custom Template export.
- Advanced Search has been augmented to allow users to locate reference objects based on attributes and attribute values residing on the target or source object.
- User configurable views now allow users to remove all columns, including 'Name' and 'ID.'
- A new config property can be added to change the interval for when background processes notifications update in Web UI.

## Details

### New and updated Data Container components

#### New components and extended usage

A new Web UI component, the Data Container Table View Editor, has been added that displays data containers on the screen in a table format in either a read-only format or an editable format allowing users to add, edit, and delete data. To accommodate the expanded use of data container functionality to products, this component can be used with both entities *and* products. To see examples of the kind of product-specific information stored in Data Containers that can be displayed via this component, see the Composite Attributes Capability for Products release note.

Industry Standard A	Specific Gravity	Tensile Strength	Water Absorption
	.08	65	>1
	.08	73	> 1
	.98	62	< 1
<a href="#">Add</a>			

The existing Data Container Popup Editor has been renamed to Data Container Attribute View Editor. The functionality of this component remains the same, including being limited to entities. Where previously configured, the Data Container Popup Editor will seamlessly transition to the new component upon upgrade since the parameters remain unchanged.

The Data Container Table View Editor and the Data Container Popup Editor are available in all the areas that the Data Container Popup Editor was available. Additionally, the use of these components has been extended so that they can be added to the Grouping Option component.

### Component removal

The Data Container Editor, a legacy data container component that was previously superseded by the Data Container Popup Editor, has been removed with this release. If this original component is configured in a Web UI, upon upgrade, an alert is displayed when entering design mode that says 'The Web UI configuration contains components that are no longer supported,' followed by a list of impacted screens (with screen names shown in { } brackets). To remove the alert, an admin user should select the impacted screen, remove the component, and save the screen after adding one of the new components, if needed. Once the Data Container Editor has been removed from a screen, the screen info will disappear from the alert. If multiple screens are impacted, then the alert will no longer appear after the component has been removed from all screens and changes are saved.

For more information about data container components in Web UI, see the Working with Data Containers in Web UI section of the Web User Interfaces documentation.

### Improved messaging and feedback in Web UI

Error messaging in the Web UI has been enhanced so that error and warning messages are more clear, correct, and consistent.

- A new Warning Notification panel has been added. The Corner Bar Warning Notification panel, accessed via a component in the corner bar, displays warnings and errors received in the Web UI. The errors that appear in the panel mirror those that display in popup warning and error messages, and accumulate until the Web UI browser tab or window is refreshed. Collecting all warning and error notifications in a central location may improve productivity by making errors easier to access and correct. The notifications in the panel have, when appropriate, live links out to relevant objects, just as the popup error notifications do. The notifications may be cleared from the panel manually either one at a time, or many at once.

Hierarchy References Multi Context Data Visualization

Select all Clear filter Apply view Clear view

	Reference Header Test*	Icon	Suppression
<input type="checkbox"/>			Suppressed
<input type="checkbox"/>			Visible
<input type="checkbox"/>			Visible

Number of items : 4

Error Notifications (1) [Dismiss All](#)

Changes to item has been saved. Item could \*not\* be deleted  
Mon May 07 11:39:49 GMT-400 2018 [Dismiss](#)

Warning Notifications (1) [Dismiss All](#)

Item could \*not\* be approved  
Missing mandatory values on attributes :  
step://attribute?id=AttributeB  
step://attribute?id=Target\_Attribute  
Mon May 07 11:39:45 GMT-400 2018 [Dismiss](#)

Additionally, error notifications and visual indications of mandatory fields have been enhanced throughout the Web UI:

- The number of current errors occurring on a tab page will now appear in a small yellow circle beside the tab title. The erroring fields counted in that number are now outlined in yellow to indicate its error status. The validation error descriptions that previously appeared to the right of the erroring field, now appear below the field. It is important to note that certain kinds of errors will, once saved, no longer display with an error message or with the field outlined in yellow, but will continue to be counted in the error total that displays beside the tab title. This is how these errors are handled in previous versions, and users should review the object info to determine what action needs to be taken. Additionally, as with previous versions of STEP, the error-counting applies to Node Details tab pages and has not been expanded to Node Lists at this time.

Basic Information and references <span style="background-color: yellow; border-radius: 50%; padding: 2px;">1</span>	Asset Preview	Category Informations
ID	181951	
Name	<input type="text" value="18216 L O"/>	
Long Item Description *	<div style="border: 2px solid yellow; height: 60px; width: 100%;"></div>	
	<div style="background-color: yellow; width: 15px; height: 15px; display: inline-block; margin-right: 5px;"></div> Long Item Description is mandatory	
Brand Name	<input type="text"/>	

For more information on the Corner Bar Warning Notification component, see the Corner Bar Warning Notifications Component section of the Web User Interfaces documentation.

## Consistent and Consolidated Web UI

In an effort to improve the Web UI user experience, a number of steps have been taken to streamline aspects of both Web UI usage and configuration.

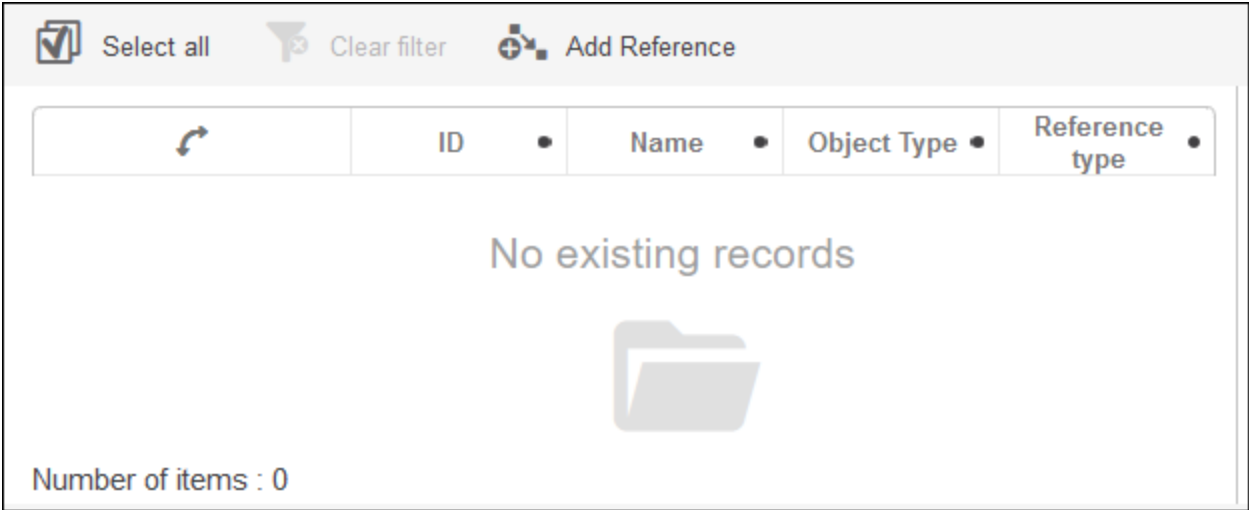
- Four components related to the display of assets in the Web UI have been consolidated into two components: Referenced Asset Representation and Asset Representation. This consolidation was done to simplify configuration of the Web UI and provide added clarity regarding which component to use with assets. The Referenced Asset Representation component can be configured to determine how an asset will display on the referencing object (ex. a product image when viewing a product), and the Asset Representation component can be configured to determine how the asset displays when viewing the actual asset in the Web UI (ex. the thumbnail that displays when viewing an instruction manual asset).

For users updating to 9.0 with one of the renamed or superseded asset components already configured on their Web UI, no substantive changes to the configuration will occur. Users who have configured either the Asset Value or Asset Image Value components will see them in their system under their new names, Referenced Asset Representation and Asset Representation, respectively. Users who have configured the superseded Asset Thumbnail and Asset Midsized components will continue to see the components and can access them through the designer. It is recommended, however, that users transition to using the new asset components as described above.

For more information on the new asset components, see the Asset Handling in Web UI section of the Web User Interfaces documentation.

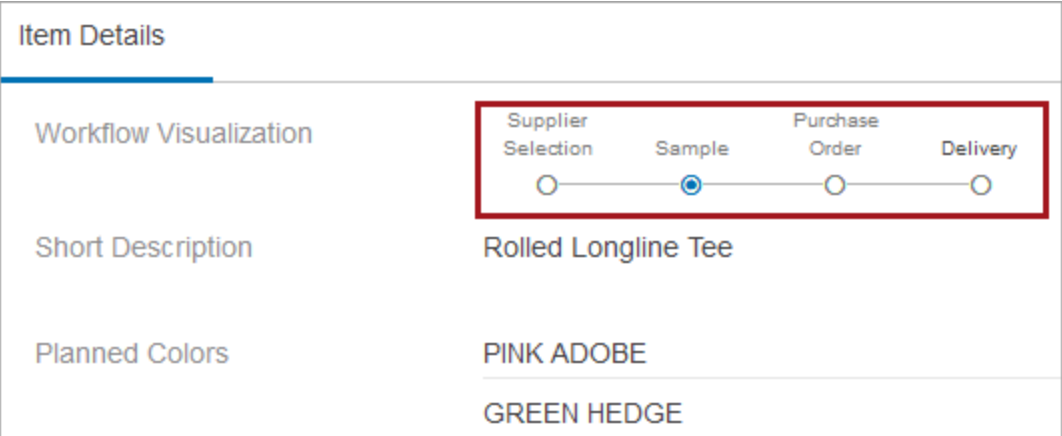
- The use of icon images inspired by Google's Material Design has expanded in the Web UI to further update the Web UI's look and feel. Changes to the icons for some toolbar actions, the single-, double-, and triple-user view icons for workflows, and other icons have been made throughout the Web UI.

- Homepage widgets, screens, and panels throughout the Web UI that contain no items will now display an icon and text that indicates the element being viewed has no content. Examples include: the results sections of the Advanced Search Screen will show a folder icon and 'No existing records' if no search has been initiated; in the Background Processes Panel, if there are no completed background processes, an in-progress icon and the text 'No processes' will display; in the Multi Reference Editor screen shown below, no references have been added, and so the text 'No existing records' and a folder icon display in lieu of no information.



**New Workflow Visualization**

STEP workflows can be very complex, especially when they have parallel states and a web of transitions. The new Workflow Visualization component simplifies things for users, allowing them to visually keep track of objects in workflows by first defining a group of STEP workflow states (from one or more workflows) in to a work process step. Once those process steps are configured, users can see an object's step-by-step progression on the screen. This can help users understand, at a glance, the overall status of an object, instead of having to check every workflow that the object is in.



The Workflow Visualization component, which is applied to a Node Editor on a Node Details screen, is highly configurable, making it easy to display the status of the work process steps for an object, according to user needs.



For more information, see the Workflow Visualization topic in the Workflows in Web UI documentation.

## Asset Uploader widget processes assets in the background

Assets uploaded using the Asset Importer widget in the Web UI are now processed in the background, allowing users to immediately pursue other tasks in the Web UI while the file upload task completes. Previously, upload tasks that were initiated using the Asset Importer widget would have to finish before the Web UI became functional again, causing appreciable delays when initiating large asset upload tasks. For more information on the Asset Uploader widget in Web UI, see the Asset Importer in Web UI section of the Digital Asset Exchange documentation.

## Improvements to Guided Data Entry

Guided Data Entry, previously called Guided Navigation, allows users to add attribute values and references to selected objects in a clear, step-by-step Web UI data enrichment process. The enhancements to this feature include, but are not limited to, a more intuitive step-tracker that lets the user know where in the process they are at any moment, clearer labeling, a collapsible side panel that lists all edited fields during a Guided Data Entry session, and a 'Save' button that displays at the bottom of the final screen enabling users to easily save the data they have added.

The screenshot shows the 'Enrichment' widget interface. At the top left, there is a title 'Enrichment' and a toggle switch for 'Only Show Mandatory Fields'. Below this is a progress indicator with three steps: '1 Initiation' (active), '2 Development', and '3 Last Step'. The main area contains a table with the following data:

	Available Colors	Color-Hex
Mens T PBO with Class	Aqua	
Mens T PGS w Class	Red	
Mens T PGW	Blue	
Mens T POY		

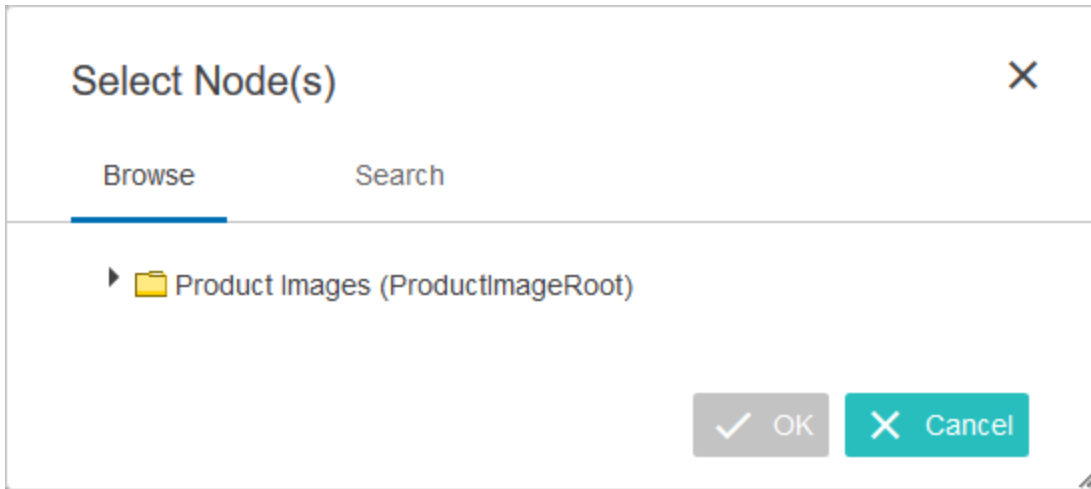
At the bottom right, there are three buttons: 'Reset', 'Previous Step', and 'Next Step'.

For more information on Guided Data Entry, including configuration, see the Guided Data Entry section of the Web User Interfaces documentation.

## New node selection for Reference Header

Users working in Node Lists that include a Reference header may now configure which nodes will display when selecting a reference object via the Reference header. Previously, users would have to scroll through all user-privileged nodes to locate the relevant object. Now, users can select precisely which object-containing nodes will

be available for users selecting objects to reference, making for a more streamlined user experience. In the screenshot below, the Root Node URLs parameter for the Reference header has been configured to show only one asset node (Product Images) from which users may choose their reference objects.



For more information on Node Lists, see the Node List Component section of the Using a Web UI documentation.

### New Children of Types screen in Web UI

The new Children of Types screen enables users to configure, based on object type, which objects will display in a Node List. Previously, the components and screens available in the Web UI could display either all objects regardless of object type, or only objects of a single object type, which put the capability short of full configurability. With the new Children of Types screen, users can now configure which object type or types will display in a node list display.

## Item Category Details

Primary Product Hierarchy > Products > Apparel > Upper Body Wear > T-shirts > T-shirts Items

Basic Overview      Attribute Link Editor      **Children Objects**

ID	Name	Object Type
18209	Cotton T-Shirts	Item Family
100914	88723-12	Item Family
208931	Red T-Shirts (3-pk)	Item Family
235914	235914-1	Item Family
245934	Blue T-shirt	Item

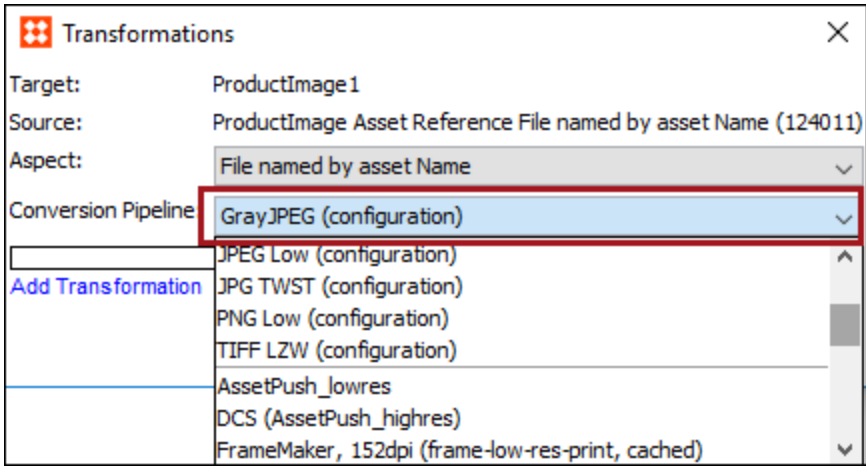
1-5 of 5

It should be noted that the 'Children of Types' screen will replace the 'Children of Type' screen, which has been withdrawn with this release. Users who have this screen already configured on their system will retain it upon an upgrade to 9.0. If removed, users will be unable to restore it.

### Image Conversion Configuration available for Excel Custom Template

Users of the Excel Custom Template export option may now apply an Image Conversion Configuration to images exported using this process. While the Excel Custom Template did allow users to specify how much space the given image would occupy in the Excel export, image distortion could sometimes occur. With the addition of the image conversion configuration option, users can leverage the utility of that feature to ensure correct display of all images.

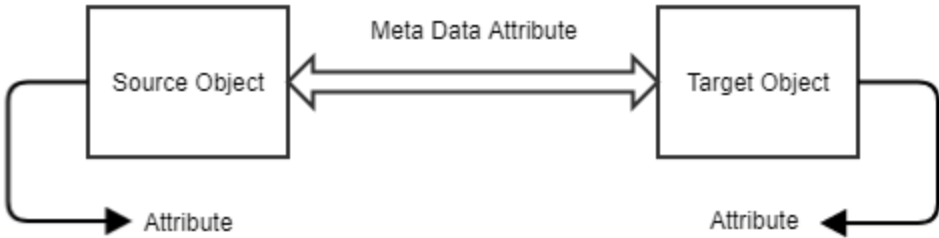
As an example, if a template stipulates that a primary product image will take up a square-shaped space of four columns by four rows (4X4), or 16 cells, but the primary product image is a side view of a tennis shoe, the rectangular image may appear disproportionate when exported into its square-shaped target area in the Excel file. However, with the image conversion configuration applied, the export can ensure the referenced image adheres to the image's dimensions rather than the template's configured image area, so the display of the rectangular shoe image will resize proportionally and appear without distortion in the Excel sheet.



For more information on configuration of the Excel Custom Template export option, including the Image Conversion configuration option, see the Excel Custom Template section of the Data Exchange documentation.

### References and Referenced By enhancement to Advanced Search in Web UI

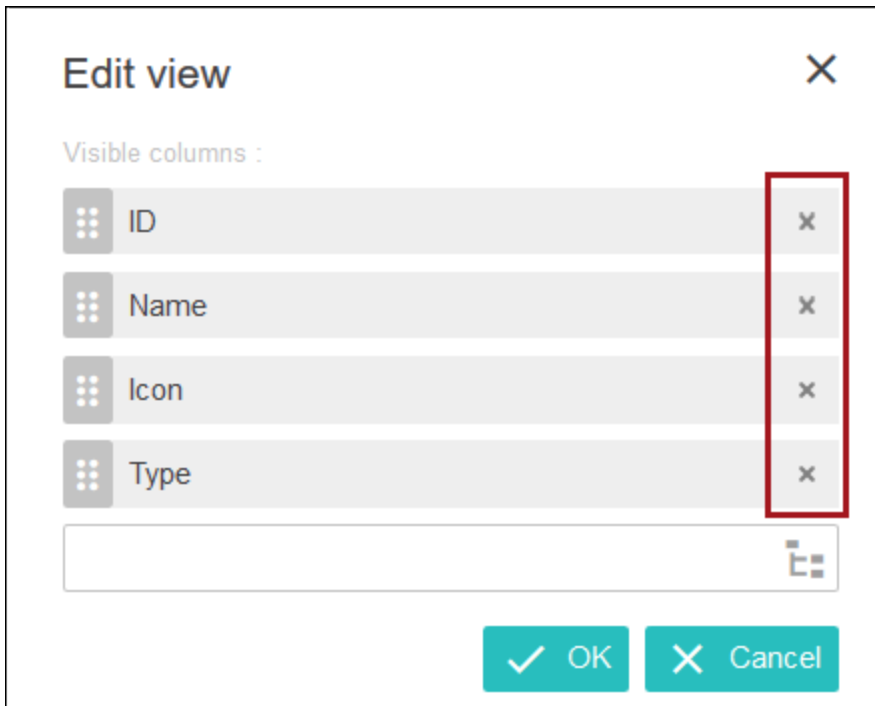
Users may now use the Advanced Search feature in Web UI to locate reference objects based on attributes and attribute values residing on the target or source object. Previously, the only attributes that could be searched using the Referenced By and References criteria were meta data attributes on the reference itself.



For more information on Advanced Search in Web UI, and the References and Referenced By criteria in particular, see the Advanced Search Initial Configuration section of the Web User Interfaces documentation.

### Enhanced user configurable views

User configurable views in the Web UI now allow users to more fully configure the columns that display in a view. Previously, the columns 'ID,' 'Name,' 'Type,' 'Reference Type,' and 'Icon' could not be removed when editing a user configurable view. Now, all columns can be removed when creating or editing a user configurable view.



For more information on user configurable views in the Web UI, see the User Configurable Views section of the Web User Interfaces documentation.

### New property to change interval of BGP notification updates

A new config property has been introduced (`Portal.BGPRefreshIntervalMillis`) with default value 1000 (ms), which allows users to change the interval for when background processes notifications in Web UI update. Increasing this interval can improve the performance of Web UI. This property is set in the `sharedconfig.properties` file. See the Configuration topic in the Admin Portal documentation for more information about setting properties.

# Security and Authentication Updates

## Summary

Stibo Systems is dedicated to the task of continuously improving the security level of STEP. With 9.0, several security enhancements have been made that, while improving the security of the STEP application, have no impact to end users. Those no-impact enhancements are not described in detail in the STEP 9.0 release notes.

Described below are the following security improvements, as well as authentication enhancements, that do affect end users.

## Details

### Core SAML Authentication Support

Previously, STEP authentication via SAML (Security Assertion Markup Language) has only been available to customers via extensions developed by Stibo Systems Technology Consulting. From 9.0, STEP offers a core SAML SSO (Single Sign On) solution compatible with SAML 2.0.

The core SAML solution is a licensed feature and must be configured in cooperation with Stibo Systems Technical Support. For more information, please contact your Stibo Systems representative.

For more details, see the 'STEP Authentication Guide' available from the STEP API Documentation page, accessible at [your system URL]/sdk or from the WebStart page.

### Smartsheet SSO Support

From 8.3 MP1, it has been possible to use Single Sign On (SSO) for Smartsheet authentication. The SSO options include Trusted Headers, OAuth, Kerberos SSO, and SAML.

For more details, see the 'STEP Authentication Guide' available from the STEP API Documentation page, accessible at [your system URL]/sdk or from the WebStart page.

### Other SSO improvements

The Blocker plugin, used for disabling manual authentication when Single Sign On (SSO) is enabled and authentication fails, has been modified so that by default, it resets the authentication flow. This makes it possible for the user to try authenticating again.

The behavior is controlled by a configuration property which is described in the STEP Authentication document, meaning that it is possible to revert to the previous behavior if desired.

When SSO is enabled and users log out from the Web UI, they are now able to automatically login again by accessing the Web UI (as opposed to having to press the 'Login' button on the modified login screen).

# New Data Quality Components and Functionality

## Summary

Data quality is a persistent issue when communicating with different source systems. Records can be incorrect or incomplete, and without a data monitoring plan, the integrity of the data cannot be maintained or ensured. With new data quality monitoring enhancements, data quality monitoring can be automated, allowing those performing these tasks to not have to manually monitor for changes and quickly respond to failing data quality as soon as a source system starts to deliver poor quality data.

New components and functionality that achieve this include:

- Data Governance Policies - Using metrics to test data and dataset definitions to limit the area of the database that is polled, policies can be created that set a standard for the data. Anything outside of this standard will trigger a notification.
- Data Metrics - Metrics are a way of describing a quality aspect of a data record and may be configured to report back on the overall status of certain record types.
- Web UI configuration - After configuring data policies, the Web UI components for managing and monitoring Policies show all the breaches and warnings in a visual dashboard. Also, a new Policy widget is available for the Web UI.

## Details

In CMDM systems, it is now possible to monitor data quality via a new STEP concept called 'Policies'. These policies define the acceptable parameters of critical data quality elements (e.g., completeness and accuracy), which can be monitored by the system and presented to data stewards via charts and widgets in Web UI. Notifications can be configured to inform the data steward of changes to a policy's compliance, allowing for a proactive approach to data stewardship.

### Data Quality Policies

A data policy is made up of dataset definitions, and if the data exceeds a threshold, then an alert is sent to the system administrator. Users in a data steward role can use these alerts to review the source system and determine what is polluting the data quality.

The screenshot shows the 'System Setup' interface. On the left is a navigation tree with categories: Tree, Search, BG Processes, and System Setup. Under 'System Setup', the 'Policies' folder is expanded, showing various metrics like 'Address Metric on AllIndividuals', 'Email Metric on AllIndividuals' (highlighted), and 'ValidateEmailAddress on AllIndiv'. The main panel displays the configuration for 'Existing Entity Data Quality Policy' (ID: 2004765). It includes a 'Description' table and a 'Configuration' table.

Description	
Name	Value
ID	2004765
Name	Email Metric on AllIndividuals
Object Type	Existing Entity Data Quality Policy
Revision	0.1 Last edited by SOAM on Wed May 16 16:04:02 CEST 2018
Path	Policies/Email Metric on AllIndividuals

Configuration	
Policy Type	Existing Entity Data Quality Policy
Dataset Definition	AllIndividuals
Metric	EmailMetric
Deviation	3.2
Threshold	3.2

[Edit](#)

For more information and to set up a data monitoring policy, see the Data Policies topic in the Data Governance documentation.

### Data Metrics

Metrics are used to test the data in a system. Completeness scores, a previously existing STEP component, are based on the overall percentage of mandatory attributes with data on an individual record. Function metrics allow for business functions to be performed to return a response.

With these metrics, insight into the quality of data can be exposed easily.



Business Address Metric rev.0.1 - Completeness Metric	
<span>Completeness Metric</span>   <span>Log</span>   <span>Status</span>	
<b>Description</b>	
Name	Value
ID	BusinessAddressMetric
Name	Business Address Metric
Object Type	Completeness Metric
Revision	0.1 Last edited by ERPO on Fri Apr 13 15:37:08 CEST 2018
Path	Completeness Metrics/Business Address Metric
Default	<input type="checkbox"/>
<b>Configuration</b>	
Completeness Metric Plugin Type: Standard Completeness Plugin	
Completeness Score Attribute (Optional)	Attribute Completeness Score
Attribute Group(s) Filter (Optional)	[Address Attribute Group]
<a href="#">Edit</a>	

Function metrics are built using a business function that returns an integer. This example functions as an expanded completeness metric of an individual.

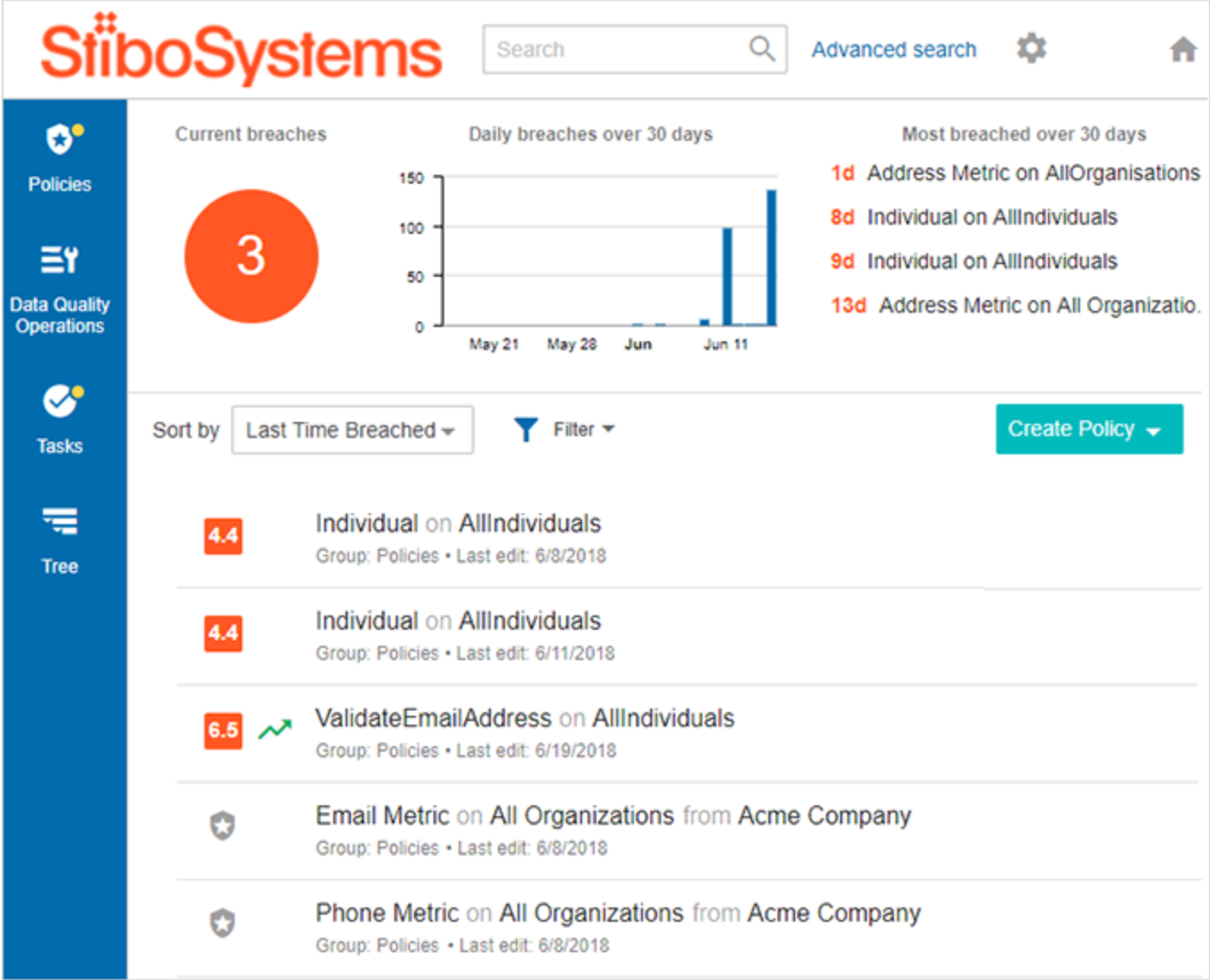
```

1  var val = 0;
2
3  var fname = person.getValue(firstName.getID()).getSimpleValue();
4  var lname = person.getValue(lastName.getID()).getSimpleValue();
5  var indEmail = person.getValue(email.getID()).getSimpleValue();
6
7  logger.info ("User Info: "+fname + " " + lname + " " + indEmail);
8
9  var factor = 0.25;
10
11 if (fname != null){
12     val = val + factor;
13 }
14 if (lname != null){
15     val = val + factor;
16 }
17 if (indEmail != null){
18     val = val + factor;
19 }
20
21 val = val*100;
22
23 return java.lang.Integer (val);

```

For more information and to set up completeness and function metrics for data policies, see the Creating a Completeness or Function Metric topic in the Data Governance documentation.

Web UI Components



After configuring the policies in the workbench, a 'Policies' component added to the Primary Navigation Panel allows users like data stewards to manage and monitor the results of the data policies.

Finally, users may add a Policy widget to the home page. This widget shows the active breached policies.

POLICIES

**9+** breaches

- CheckACustomerMetric on All Individuals
- Individual on AllIndividuals
- Individual on AllIndividuals
- StateCheck on AllIndividuals

[View Policy List](#)

For information on setting up the Web UI for data policies, see the Web UI Configurations for Policies topic in the Data Governance documentation.

# New and Improved Customer MDM Functionality

## Summary

The 9.0 release of STEP has introduced a series of enhancements for Customer MDM functionality including:

- Clerical Review tasks can now be filtered by high priority in Web UI, allowing data stewards to prioritize more important tasks.
- When potential duplicates are found, only a single record representing the match is entered into a Clerical Review workflow.
- Addresses can now be automatically formatted using new STEP functions.
- New Decision Table normalizers and matchers have been added for Organization Name matching.

## Details

### Flag high priority clerical review tasks

It is now possible to flag clerical review tasks as high priority, and filter out lower priority tasks from the Clerical Review Task List in Web UI. By filtering out lower priority tasks, data stewards can address more immediate issues in the data.

### Golden Record Clerical Review Task List

Show Details
Merge
Reject
Advanced Merge
Reassign

▼ High priority : 1

	Name	ID	Source	Main Address	Org SICCode
<input type="checkbox"/>	Thread Bear	1090007	SFDC	23601 NE 206th St Battle Ground WA 9...	5199
	Threade Bear	1137071	SFDC	1500 State St Eau Claire WI 54701-407...	5131

Tasks are automatically flagged (or unflagged) as high priority based on a business condition set in the relevant matching algorithm.

This functionality acts as an extension to the high priority status flag notification labels found in the Primary Navigation Panel. If these labels are configured, a workflow state is marked with a HIGH label when high priority tasks are found in the workflow state. This label does not specify which tasks in the workflow state were of high priority, just that there were high priority tasks within that state. Previously, this was the only way to display clerical review tasks as high priority. Additionally, high priority status flag display settings were previously configured in the Primary Navigation Panel component itself, but are now configured in the Global Representation List found in Main Properties.

For more information about configuring a matching algorithm with a high priority status flag, see the Configuring Golden Records for Matching and Merging and the Configuring Golden Record for Matching and Linking sections of the Matching, Linking, and Merging documentation.

For Web UI configuration, see the Golden Record Clerical Review Task List and Primary Navigation Panel Component sections of the Web User Interfaces documentation.

## Improved efficiency and consistency for records entering a clerical review workflow

When two or more records are matched together but do not exceed the automatic merge threshold, only one of them is entered into the clerical review workflow. Before merging, linking, or rejecting the match, references are created between the other matched records and the record in the workflow, and they all appear together as one task in the Clerical Review Task List.

Previously, it was common for several matched records to be unnecessarily entered into the Clerical Review Workflow.

For more information, see the Clerical Review section of the Matching, Linking, and Merging documentation.

## New method for automatically formatting postal addresses

A collection of new STEP functions have been introduced that make it easier to format address data via a calculated attribute. Previously, it was only possible to create such a calculated attribute by manually writing a complex formula. Now, one of three new STEP functions can be used to format the address data.

These new functions include:

- SimpleAddressFormat() - This function returns a formatted address based on the Standardized address attributes configured in the Address Component Model. If the Standardized address attribute fields are not populated, it will use the Input attribute fields instead.
- StandardizedAddressFormat() - This function returns a formatted address based on the Standardized address attributes configured in the Address Component Model.
- InputAddressFormat() - This function returns a formatted address based on the Input address attributes configured in the Address Component Model.

Once configured with an address formatting function, a calculated attribute can be mapped to, for example, the Data Container Attribute View Editor and/or Attribute Value Component in Web UI.

Main Address	Cherokee Ridge Trl NW Kennesaw GA 30144 United States
Formatted Main Address <i>fx</i>	Cherokee Ridge Trl NW Kennesaw GA 30144 United States

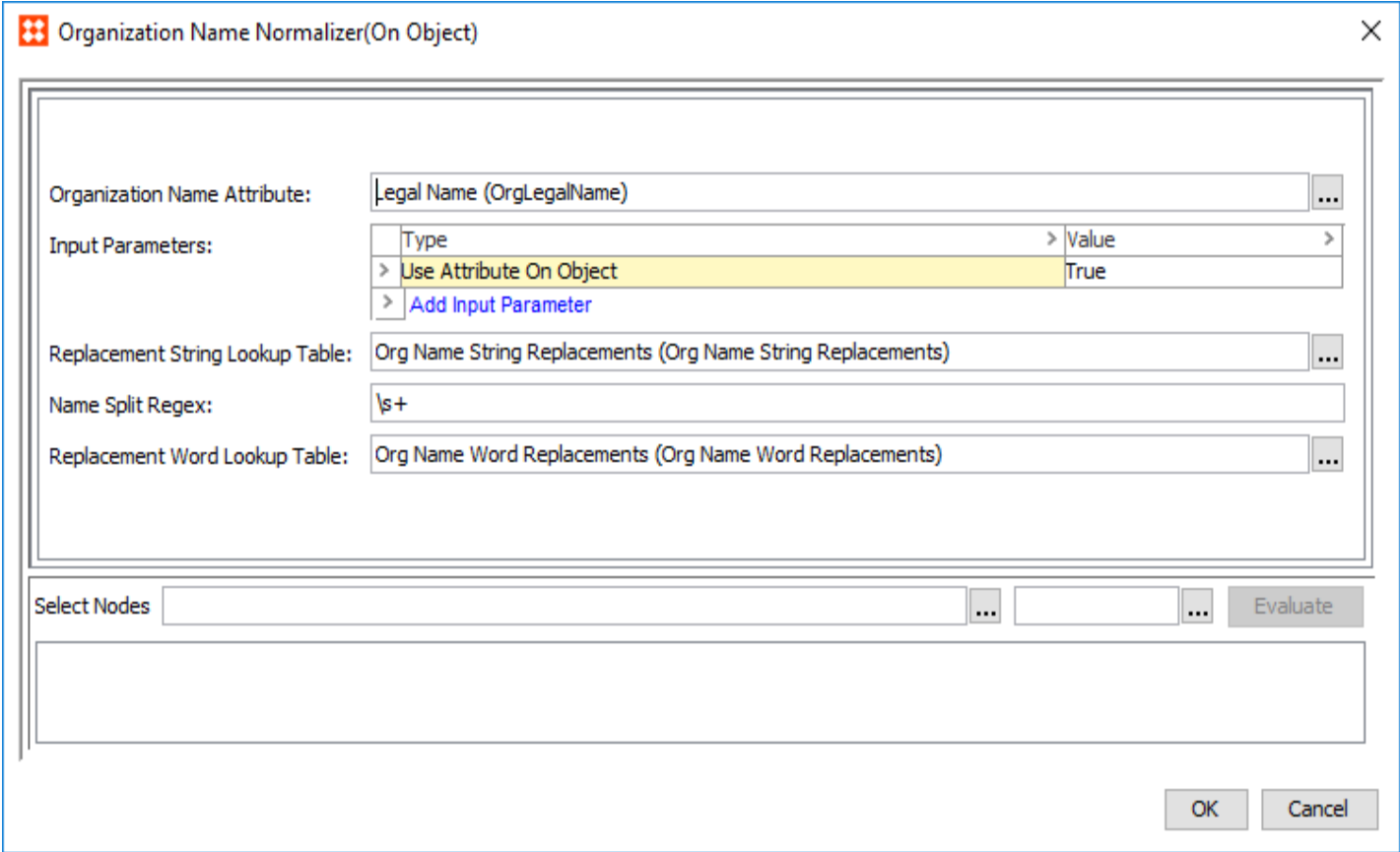
Formatted Addresses can also be useful in integrations that use a single field for exported address data and for mailing purposes.

For more information, see the Address Formatting Functions section of the Resource Materials online help.

**Enhanced support for normalizing and matching organization name data**

The party data matching component has been enhanced with new decision table normalizers and matchers that specialize in organization name matching.

The Organization Name Normalizer functions similarly to the existing Person Name Normalizer though optimized for organizations. It has the same capabilities as Person Name Normalizer with an additional parameter for replacing particular strings in the name text with corresponding text in a lookup table. As an example, a Replacement String Lookup Table can be used to replace 'n' in the organization name *ACME'n'Sons* with the normalized value *and*, resulting in the normalized organization name *ACME and Sons*.



For Organization Name Matcher, two new match factors have been introduced that are specifically tailored for organization name matching: Acronym Word Match Factor and Concatenation Word Match Factor.

The Acronym Word Match Factor scores pairs if one of the matched organization names is an acronym of the other. The acronym can be matched based on individual words within the organization name value and does not necessarily need to represent the value as a whole. For example, when comparing the organization names *ACME America Inc.* and *Advanced Cellular Medical Engineering of America*, the acronym *ACME* will match the words *Advanced Cellular Medical Engineering*.

The Concatenation Word Match Factor scores pairs if one of the matched organization names is a concatenated form of the other. The concatenated organization name can be matched based on individual words within the name value and does not necessarily need to represent the value as a whole. For example, when comparing the organization names *A C ME America Inc.* and *ACME of America*, *A C ME* will match its concatenated form *ACME*.

The screenshot shows a configuration window titled "Organization Name Matcher(OrgnameNORM)". It features several input fields for match factors and two table selection buttons. The match factors are:

- Input Normalizer: OrgnameNORM
- Word Alias Table: Org Name Equi Tokens (Org Name Equi Tokens)
- Exact Word Match Factor: 1.0
- Alias Word Match Factor: 0.9
- Concatenation Word Match Factor: 0.9
- Edit Distance Word Match Factor: 0.8
- Acronym Word Match Factor: 0.8
- Missing Word Factor: 0.75
- Word Out Of Order Factor: 1.0
- Unmatched Word Factor Table: Org Name Missing Token Factor (Org Name Missing Token Factor)
- Name Word Splitter Regex: \s+
- Condition Threshold: 70

At the bottom, there are two "Select Nodes" buttons with ellipsis icons, followed by an "Evaluate" button. At the very bottom right, there are "OK" and "Cancel" buttons.

Previously, there was no dedicated matcher that could handle organization name matching, so custom matchers were built using JavaScript.

In addition to these new match factors, the Unmatched Word Penalty Table parameter has been replaced by the new Unmatched Word Factor Table field which is used to assign factors to specific words. This change is also applicable to the Person Name Matcher and Words Matcher.

For more information, see the Decision Table Normalizers and Decision Table Matchers sections of the Matching, Linking, and Merging documentation.



# New Features for SpirePLM

## Summary

It is now easier to plan products needed for specific events, such as a selling season or campaign, to set financial goals, and then determine which products are able to meet these goals.

It is now easier to view, manage, and maintain projects with the addition of the following SpirePLM features:

- **Line Plan Creation and Maintenance:** Easily create line plans to help determine the activities needed to bring a product to market.
- **Scheduling:** Track the progress of activities on products to ensure that deadlines are met.

## Details

### New line plan creation and maintenance

New line planning capabilities in SpirePLM assist managers in making decisions, such as, if a product should be produced once market analysis has been completed. It also ensures that all design specifications needed to complete production tasks are created and accessible to the end user. All line plan fields are highly configurable to meet business needs, and it is easy for users to add, delete, and maintain line plans and their sub categories.

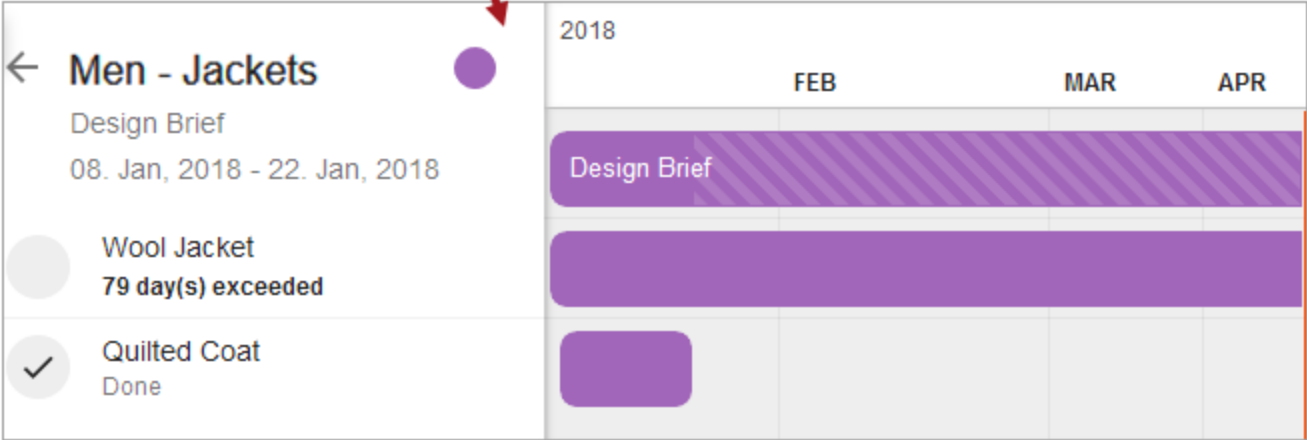
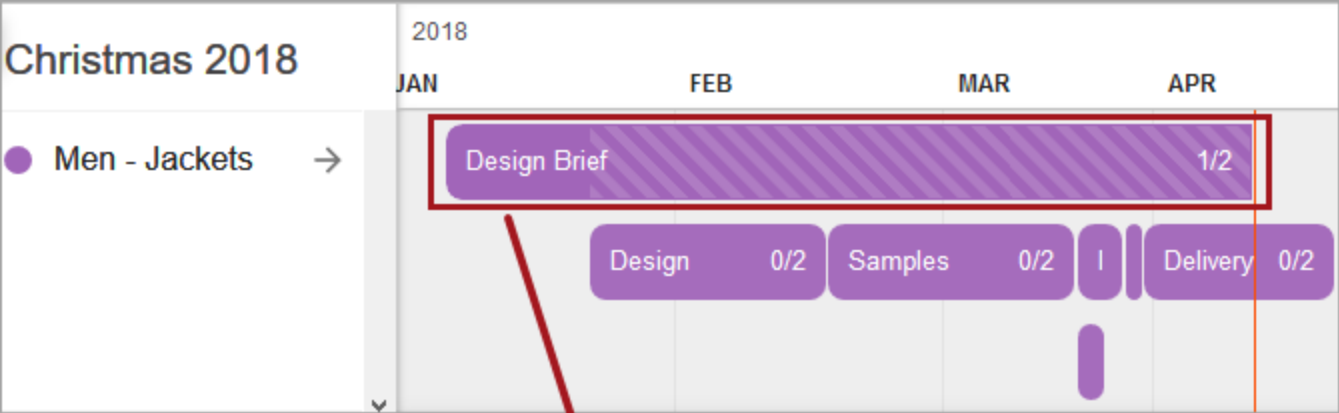
← 2019 Summer Mens		Schedule Deadline:	2018-11-15
		Line Plan Year:	2019
		Line Plan Start Date:	2018-02-05
		Line Plan Status:	In Progress
<a href="#">Edit Line Plan</a>	<b>926037200</b>	<b>3222982000 / 150000000</b>	<b>65.01 / 46</b>
	Cost	Revenue	Gross Margin % Actions
^ Work From Home Collection	411384000	937278000	51.15 - + ✓
Bottoms (72 styles)	158409000	349758000	47.01 -
Shirts (32 styles)	166320000	384720000	51.91 -
Sweaters (17 styles)	58695000	138000000	56.8 -
Tees (23 styles)	27960000	64800000	58.93 -
^ Office Collection	184020000	469704000	51.65 - + ✓
Jackets (15 styles)	16440000	39240000	55.46 -
Pants (36 styles)	92880000	257364000	54.23 -
Shirts (26 styles)	51120000	123120000	50.49 -
Outerwear (15 styles)	23580000	49980000	43.71 -
<a href="#">Add Category</a>			

Additionally, line plans are seamlessly integrated with SpirePLM Schedules as described in the following section.

For more information on line plans, see the [Setting up Line Plans in Workbench](#) topic in the SpirePLM for Admins documentation, and [Creating Line Plans](#) topic in the SpirePLM for Users documentation.

### New scheduling and project management

A new scheduling feature has been introduced to SpirePLM to manage the determined line plan product actions and bring them to market on time. This new feature is a simple tool that provides a Gantt view of the tasks and deadlines of the line plan category, and its relation to the tasks and deadlines of each design specification within the line plan category. Actual start and end dates can be tracked on each design specification so that progress is summarized by line plan category.



Schedules are quickly created using templates. All schedule templates are customizable according to company needs, and the duration of days for each main task is adjustable in the Web UI, should it need to be changed for a particular project.

← Men - Jackets

Start from date ▼ 11. April, 2018

Apparel Template (Make) ▼

Design Brief 08/01/2018 - 22/01/2018	11
Design 23/01/2018 - 16/02/2018	19
Samples 17/02/2018 - 23/03/2018	25
Margin Review and Selec... 24/03/2018 - 28/03/2018	3
Purchase Orders 24/03/2018 - 26/03/2018	1
Production 29/03/2018 - 30/03/2018	2
Delivery 31/03/2018 - 19/04/2018	14

Submit

For more information on schedules, see the Setting Up Schedules in Workbench topic in the SpirePLM for Admins documentation, and the Creating Schedules topic in the SpirePLM for Users documentation.

# In-Memory Improvements

## Summary

With the 9.0 release, the STEP Exporter functionality invoked via the Export Manager and Outbound Integration Endpoints has been optimized to use In-Memory. In addition, 9.0 represents a significant step towards accelerating all searches.

## Details

### Exporter enhancement

In previous versions of STEP, including those on In-Memory enabled systems, the STEP Exporter read data directly from the Oracle database. Now, for most export use cases, data will be read from memory, allowing for much improved performance.

For the initial 9.0 release, some STEP Exporter features have not yet been optimized. When an export configuration using these features is performed, the export is automatically run using the database mode. The list of limitations includes:

- Cross-context exports (to be enabled in an upcoming maintenance patch)
- Terms-lists exports
- Exports with 'ExportSize' = 'All' for products, entities, classifications, or assets
- Exports with 'ExportDeletedData'='true'
- Publication-related objects (green hierarchy) exports

For exports excluding the above mentioned limitation features, internal tests have shown that the domain exporter is three to five times faster than the database exporter. The improvement to be expected on specific installations depends heavily on the setup and configuration.

While the new export functionality introduces no syntactic or semantic changes in the STEPXML format, customers comparing the output with that of the database-mode exporter may find insignificant differences in the order of elements and attributes, or other differences that do not change the semantics of the file. Further, execution reports for export background processes run on the In-Memory enabled exporter will look different and provide more information of relevance to In-Memory enabled exports.

### Search optimizations

The following search features have been optimized for In-Memory:

- Inherited values searches
- Data container searches
- Numerical values searches
- Searches that include units
- Searches for missing values across all contexts using the '!!' operator

- Regular expression searches
- Object type searches (all options available from the workbench are now In-Memory enabled)
- Inherited and missing reference searches
- Unapproved objects searches
- Drill down searches performed from JavaScript business rules via custom bind options

## Support for large Task Lists

The In-Memory technology makes it possible to filter and sort Task Lists with over 10,000 items, which has been the limit prior to this release. Please read online help for more detailed information, including setup details and limitations. The information can be found in the In-Memory Large Task List Management topic in the Resource Materials documentation.

## Miscellaneous

In addition to the items mentioned above, a number of optimizations have been made that, for instance, make hierarchy node expansions and retrieval of background process details faster on In-Memory enabled systems.

For more information, see In-Memory Database Component for STEP topic in the online help Resource Materials online help.

# STEP API Enhancements and Updates

## Summary

The STEP APIs have been enhanced with both new features and improved functionality. Users should be aware of the changes now so that they can plan accordingly.

Additional information, as indicated in this release note and when applicable to the enhancements outlined below, is available in the STEP API documentation at [your system URL]/sdk or access the STEP API Documentation from the WebStart page.

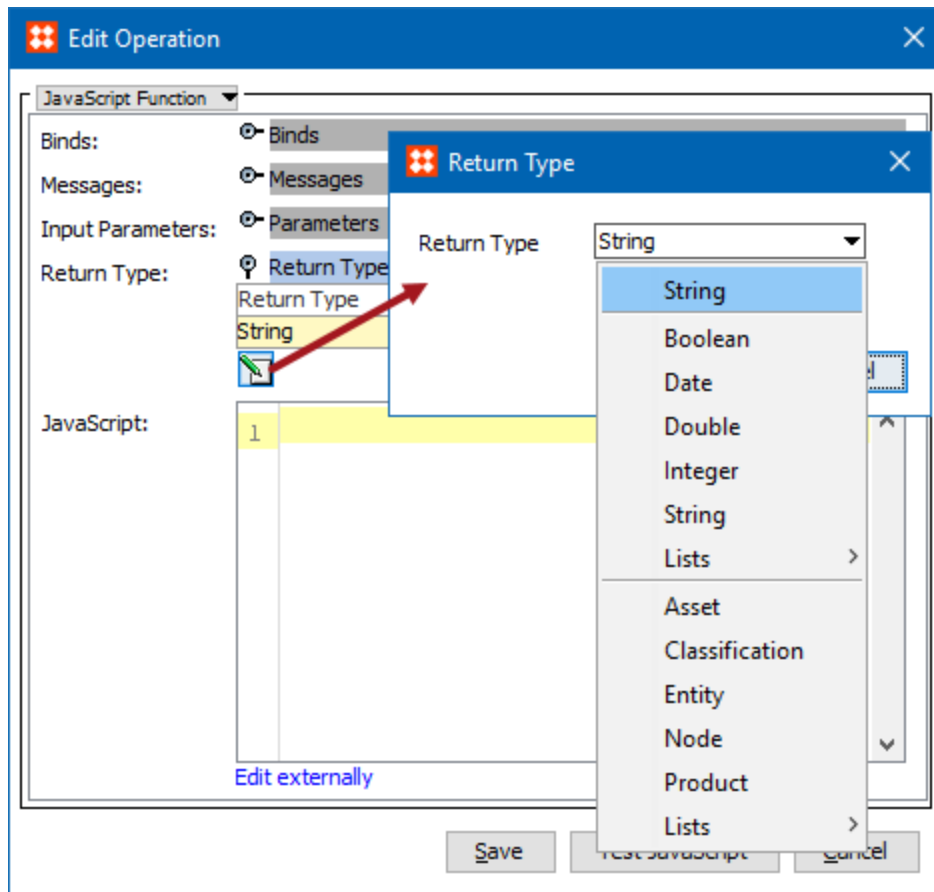
## Details

### Business function enhancements

Business functions now support a number of additional Java and STEP domain return types. The complete list of available return types is:

Business Function Return Types	
java.lang.String	java.util.List<java.lang.String>
java.lang.Boolean	java.util.List<java.lang.Boolean>
java.lang.Double	java.util.List<java.lang.Double>
java.lang.Integer	java.util.List<java.lang.Integer>
java.util.Date	java.util.List<java.util.Date>
com.stibo.core.domain.Node	java.util.List<? extends com.stibo.core.domain.Node>
com.stibo.core.domain.Asset	java.util.List<com.stibo.core.domain.Asset>
com.stibo.core.domain.Product	java.util.List<com.stibo.core.domain.Product>
com.stibo.core.domain.Classification	java.util.List<com.stibo.core.domain.Classification>
com.stibo.core.domain.Entity	java.util.List<com.stibo.core.domain.Entity>

The 'Return Type' of a business function determines the type of data being returned by the function. Many new return types are now available when writing JavaScript business functions or creating Java function plugins via the extension API. The new return types make it possible to produce the most common types of data and more closely mirror the available 'Input Parameter' options.



## Business function optional parameters

For Extension API plugins that call business functions by extending the BusinessFunctionProxy interface, it is now possible to specify that a function input parameter is optional. If an input parameter is optional, a function is not required to have the input parameter defined to meet the 'contract' specified by the interface extending BusinessFunctionProxy. For more information, see the User-Defined Functions topic in the Business Rules documentation.

## Business functions available when developing Web UI components

When developing Web UI components via the Extension API, it is now possible to call business functions that can be selected via the Web UI Designer. See the BusinessFunctionProxy interface in the Extension API Javadoc (available on the STEP API Documentation link on the WebStart page) for an example of how to use a business function from an Extension API plugin.



## New JSON-based REST API

With the goal of extending STEP's openness and connectivity and ease of integrations with other modern third-party applications, STEP now offers both a JSON-based and an XML-based REST API. While the long-term goal is to make all of the operations that are available in the XML-based API also available in the JSON-based API, the 9.0 release has been focused on providing read / write access to data objects (products, entities, classifications, and assets) and read access to a number of System Setup / configuration objects.

The new API is available to all customers who already have the STEP.SDK.WebService component. The API is not part of the STEP baseline and requires that you activate the separate component 'restapiv2' on your system, in addition to the normal update procedures. Contact your Stibo Systems representative for more information.

Once activated, a Swagger UI and a detailed OpenAPI 3 specification is available at [STEP-server]/restapiv2/swagger-ui and [STEP-server]/restapiv2/specification/openapi.json (Links are also available from the STEP API Documentation page.).

## General scripting and extension API improvements

New features have been added for the JavaScript APIs, including:

- The Query API has been expanded with functionality making it possible to find nodes based on the presence of data container objects and incoming / outgoing references meeting specific conditions. Notice that the 'query' component is not part of the STEP baseline and must be activated on your system in addition to the normal update procedures for 9.0. See your Stibo Systems representative for more information.
- API interfaces and methods for image autotagging, available with the new Asset Analyzer Component, have been made available in the Scripting and Extension APIs. See the New Asset Analyzer Component for Image Autotagging release note for additional details.
- An API interface and method has also been made available in the Scripting and Extension API for asset downloads from a URL and is available with the new Asset Download Via URL Component. More details are available in the Asset Download Via URL Component release note.
- Option to get hold of a historic version of a node from a revision is made available in the Scripting API.
- Option to create user groups is made available in the Scripting and Extension APIs.

A complete list of all added and updated elements in the Scripting and Extension APIs from the 8.3 to the 9.0 release is available from the STEP API Documentation at [your system URL]/sdk (via the Scripting API and Extension API Change History links).

# Expanded Asynchronous Translation Integrations

## Summary

STEP now provides an enabled solution for integrating STEP with the Lionbridge translation service.

## Details

STEP now supports asynchronous translation service capabilities for Lionbridge, a translation provider, via their API. Beginning with a 'Start Translation' business action, the Lionbridge translation service will:

- Send translation data to Lionbridge via their API methods.
- Poll for translation status updates via Lionbridge's API methods.
- Receive and import translated data from Lionbridge.

For any given translation job, users can see the progress of the Lionbridge translation status in STEP and see which job nodes are included in the Lionbridge translation job via the Web UI.

LIONBRIDGE TRANSLATION	
All configurations	▼
Waiting	0
Query Translation	0
Translation Export	0
Send to Lionbridge	0
Waiting for Translation	0
Import Translation	0
Completed	8
Failed	0
Cancelled	0

To access and use the functionality as described above, the 'lionbridge' component and its associated framework must be activated on your system in addition to the normal update procedures for 9.0. See your Stibo Systems representative for more information.

For more information about asynchronous translations in STEP, see the Asynchronous Translations topic in the Data Integration documentation.

# Data Exchange Enhancements

## Summary

The following updates have been made within the Data Exchange functionality:

- The Amazon SQS functionality now includes user-defined OIEP message attributes that can be used for Amazon SQS event queue routing and sorting, a receiver option for IIEPs, and an option to use Amazon S3 for sending and receiving messages with sizes of 256 KB or larger.
- MongoDB delivery functionality is now available as an independent component and updates to the OIEP Mongo delivery method allows it to run with the MongoDB driver version 3.6.
- New functionality has been introduced in the Import Manager for Excel imports that allows users to import numeric and date values in standardized FULLISH. and ISO formats instead of the regional formats that may appear in source spreadsheets.
- The new FAB-DIS ETIM/Media format is available in the Export Manager and in OIEPs. The output is delivered as an Excel file that can include the ETIM tab or the MEDIA tab.
- Several new enhancements have been added to the ETIM process in STEP. This includes ETIM import plugin, BMEcat 2005 export plugin, and Web UI enhancements.

## Details

### Amazon SQS improvements

Users can now send and receive Amazon SQS messages using OIEPs and IIEPs, even those with a size of 256KB or larger, and can also include custom text-based message attributes.

These enhancements include:

- Message Attributes - Up to seven (7) user-defined, text-based message attributes can be configured. When set up on separate OIEPs configured to handle a single event (create, modify, or delete) or on different output templates, messages can be sent to a single Amazon SQS message queue, and then routed according to the message attribute(s). Additionally, an ISO date delivery timestamp attribute with millisecond resolution is automatically included with all outbound messages, making it possible to sort messages of different event types or output templates on the queue for FIFO processing.
- Amazon SQS Receiver - The inbound integration endpoint wizard can include an Amazon SQS option in the Choose Receiver step, which allows messages to be imported into STEP from Amazon SQS.
- Amazon S3 - Messages that are 256KB or larger can be processed via the new 'S3 Enabled' parameter. This is available for both IIEPs and OIEPs. An Amazon S3 account is required for this option to be effective.

**Updates are required in the sharedconfig.properties file, which constitutes a change in functionality.**

In 9.0, two new properties must be configured for use with Amazon SQS IIEPs and OIEPs. The following new properties are required for either Amazon SQS option: `SQSCredentialsPath` and `SQSServerUrl`. The previously-used Amazon SQS OIEP properties (`SQSDeliveryCredentialsPath` and `SQSDeliveryServerUrl`)

are no longer valid, nor are they displayed in the OIEP dropdown parameters. Even if the receiver component is not required, the `sharedconfig.properties` file must be updated to use the new properties.

Additionally, in 8.3, when delivering multiple XML files at the same time, the messages were concatenated without a delimiter and delivered as a single message, making it difficult to see where one message ended and the next one began. **In 9.0, delivering multiple files to the SQS queue now sends each message individually, which constitutes a change in functionality.** This means that messages with multiple files sent via the 8.3 delivery method are not compatible with the 9.0 receiver, and vice versa.

To access Amazon SQS functionality, the `Receiver.AmazonSQS` component and/or the `Delivery.AmazonSQS` component must be activated on your system in addition to the normal update procedures. Contact your Stibo representative for more information.

For more information, see the Amazon SQS Receiver topic and the Amazon SQS Delivery Method topic, both in the Data Exchange documentation.

## MongoDB updates

For the 9.0 release, the OIEP Mongo delivery method has been updated to run with MongoDB driver version 3.6. For backward compatibility, any MongoDB server version back to 2.6 can be used. Search the internet for more information on this driver.

Additionally, the MongoDB component has been removed as baseline functionality and is accessible via a separate component installation. This provides the flexibility to build and manage a STEP system that meets the business need.

**This constitutes a change in existing functionality.** Before upgrading, it is important to plan ahead and verify if the MongoDB is being used. If so, upgrading must include an independent MongoDB component recipe in addition to the normal update procedures for 9.0. Otherwise the functionality will no longer be available after upgrade. Please note that when a component is removed, no data is lost. However, there can be other adverse system effects if other functionality was reliant on the component removed.

See your Stibo Systems representative for more information.

## New option to use Excel source formatting for numeric and date values in Import Manager

Users who import Excel data into STEP via the Import Manager now have the option to automatically import numeric values in a standardized, US-English based format, and date values in ISO format, instead of the regional formats that may appear in their source spreadsheets. This is helpful for users in regions other than the United States, who can now avoid the need to apply numerous and sometimes non-intuitive transformations on their source data, which allows for more predictable and consistent data imports. This change has been accomplished by adding a new option on the Select Format screen of the Import Manager wizard titled 'Use date and number formatting from sheet.'

The below screenshot shows the Conversion Preview for a spreadsheet created on a computer with its region set to Germany, displaying currency in a Euro format and dates in a German format. When 'no' is selected for 'Use date and number formatting from sheet,' the currency and dates are automatically transformed into the following standard formats: date values as `yyyy-MM-dd`, date-time values as `yyyy-MM-dd HH:mm:ss`, and numeric values as `#.#####`.

**Select Format**

Format: Excel

Converter for files in Microsoft Excel format that contain one object per row.

Has Header: yes

Trim whitespace: yes

Use date and number formatting from sheet: no

---

**Conversion Preview:**

Artikel Nr	Bezeichnung	VK ab 01.10.16	Heute	Datum und Zeit
011934	Getriebekasten	1339.67	2025-03-21	2025-03-21 13:30:00

	A	B	C	D	E
1	Artikel Nr	Bezeichnung	VK ab 01.10.16	Heute	Datum und Zeit
2	011934	Getriebekasten	1.339,67 €	21.3.25	21.3.25 13:30

Previously, there was no option in the Import Manager to automatically convert numbers and dates into a standardized format. Selecting 'yes' from 'Use date and number formatting from sheet' will cause the Import Manager to behave in the prior manner, i.e., importing values as they appear in the source spreadsheet. By default, the new option is set to 'no.'

For more information, see the Excel Format section of the Import Manager documentation.

### New FAB-DIS ETIM/Media export format

FAB-DIS is an exchange format primarily used by companies doing business in France, and facilitates the sharing of quality product information between manufacturers and distributors.

A FAB-DIS file is delivered as an Excel file containing seven tabs. In STEP, the 'FAB-DIS ETIM/Media' format option can generate the ETIM and MEDIA tabs. Once exported, these tabs can be manually combined with the additional five tabs, obtained from other sources, into a single FAB-DIS file.

To access the 'FAB-DIS ETIM/Media' functionality, the 'fabdis' component must be activated on your system in addition to the normal update procedures. Contact your Stibo representative for details.

For more information, see the FAB-DIS ETIM/Media Format topic in the Data Exchange documentation.

### ETIM enhancements

Several new enhancements have been added to the ETIM process in STEP including enhancements to the ETIM import plugin, BMEcat 2005 export plugin, and Web UI.

**ETIM Import Plugin**

- ETIM attributes that are identical across all ETIM versions will now be represented only one time in STEP. This ensures that the value only needs to be maintained one time per product and the ID of the ETIM attributes will no longer contain the version number. While the ETIM attributes will be imported and maintained in one ETIM attribute group, they will still be represented in multiple attribute groups by ETIM version with references. ETIM metadata attributes and specification attributes will still be maintained in separate groups.
- Previously, if standard units existed in STEP, the same units in the ETIM import would not be imported. This made it difficult to understand the ETIM data model in STEP. Now the ETIM importer plugin will load all of the ETIM units, even if the standard units already exist in the system and the ETIM units will be stored in a non-version specific Unit Group.
- In order to remain consistent with STEP recommended practices, an underscore will be used between the ETIM version and the ETIM identifier, instead of a space, when importing an ETIM file for attribute groups and attributes, LOV groups and lists of values, and units. This makes it easier to create business rules and import / export configurations. Note that the validation type information will no longer be used as part of the STEP ID for attributes, and the version number will no longer be part of the attribute ID.

Description		Description	
Name	Value	Name	Value
ID	ETIM EF003454 Logical	ID	ETIM_EF003454
Name	Built-in	Name	Built-in

- STEP now makes it easier to handle values-about-values by creating shadow attributes that can automatically be mapped to the FVALUE\_DETAILS-tag in BMEcat. This eliminates the need to create them manually.

**BMEcat 2005 for ETIM Exporter**

- ETIM data in BMEcat 2005 format can now be exported across multiple contexts in one export. Users no longer have to export one context at a time.
- Easier mapping of the FVALUE\_DETAILS attributes and attribute groups.
- ETIM number range values will now be split into two FVALUE fields: a minimum value field and a maximum value field, as shown in the image below. This complies with the BMEcat for ETIM standard without additional mappings.

```

<FEATURE>
  <FNAME>Voltage</FNAME>
  <FVALUE>120-240</FVALUE>
  <FUNIT></FUNIT>
  <FORDER></FORDER>
  <FDESCR></FDESCR>
  <FVALUE_DETAILS></FVALUE_DETAILS>
</FEATURE>

<FEATURE>
  <FNAME>Voltage</FNAME>
  <FVALUE>120</FVALUE>
  <FVALUE>240</FVALUE>
  <FUNIT></FUNIT>
  <FORDER></FORDER>
  <FDESCR></FDESCR>
  <FVALUE_DETAILS></FVALUE_DETAILS>
</FEATURE>
  
```

- Now, it is possible to only export the attributes related to a selected ETIM version. Previously, all of the attributes related to all of the classifications are exported in the BMEcat export.

## **ETIM Web UI**

- Four new components were created to support ETIM use cases. The 'Classification-Specific Attribute Value Group Component', the 'Classification-Specific Attribute Value Component', the 'Classification-Specific Attribute Value Group Header Component', and the 'Classification-Specific Attribute Value Header Component'.
- Previously, the Web UI had an issue showing the correct ETIM default unit because of the way the units are provided on the attribute-to-classification links. Since the same attribute can have different default units depending on where the attribute is used in the classification, it is now possible to see the correct default ETIM unit when maintaining an ETIM value.
- A new filter option in the Web UI designer has been provided for the Attribute Value Group Component, allowing the component to show only the attributes that are applicable to the classification that is being worked. In previous STEP versions, there was not a way to filter attributes by specific classification, which meant users would see for instance, ETIM 7 attributes when looking at an ETIM 6 classification in the Web UI.
- A new component has been developed that will display an ETIM attribute together with its corresponding FVALUE\_DETAILS attribute. This will make it easier for users to see that the attributes belong together, and it will make it easier to configure a screen where these attribute pairs should be presented. This only for FVALUE Details attributes created by the STEP ETIM importer.

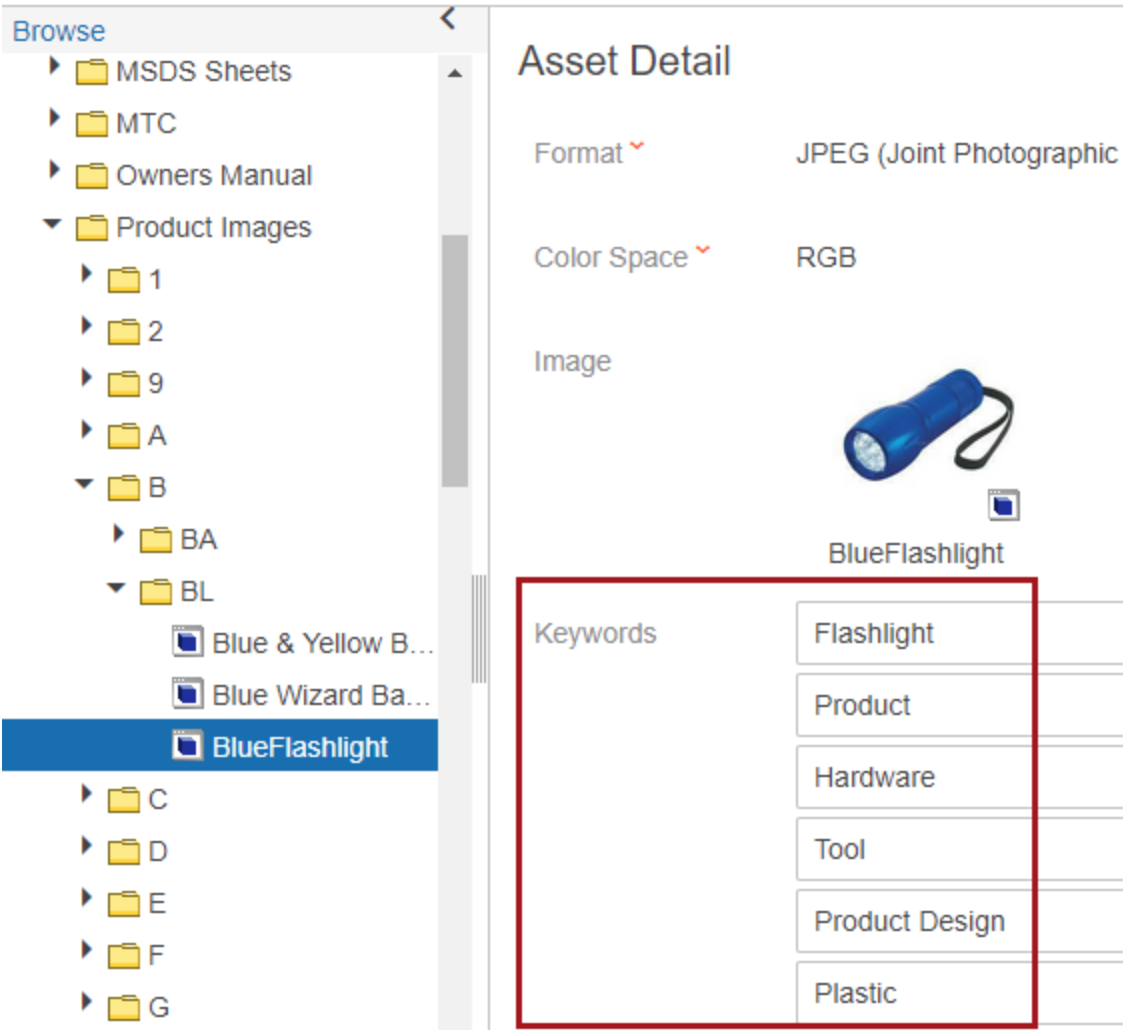
For more information about the ETIM format, please see the ETIM Format section in the Data Exchange documentation.

# New Asset Analyzer Component for Image Autotagging

## Summary

STEP users can now leverage machine-learning capabilities to automatically tag image assets with keywords through visual analysis. This automated metadata enrichment enables enhanced search capabilities, improved categorization, and better search engine optimization (SEO) for web publishing.

This has been accomplished by the addition of the new Asset Analyzer component, which integrates with the Google Cloud Vision API. The Asset Analyzer sends images from STEP to the Google Cloud Vision API, where the image is analyzed and the metadata computed. The metadata is then returned to STEP, where the keywords are stored in a description attribute on the image. This new functionality greatly simplifies the process of using machine learning to classify images while reducing the time needed to publish properly tagged assets to the web.



The Asset Analyzer component helps users to:



- Enrich data-poor images by running images through an analytics algorithm to gather relevant metadata for each image, then assigning metadata values to that image based on the value's certainty score
- Make newly enriched images more searchable
- Enhance matching and linking by using metadata on assets

## Details

The Asset Analyzer is a new add-on component for STEP that can be used from within the Web UI, workbench, and during imports—i.e., any location where bulk updates and JavaScript business rules can be run. Users can send assets to the Google Cloud Vision API by performing bulk updates or executing business actions on assets and/or on products with referenced image assets. In turn, the Google Cloud Vision API analyzes the images and automatically computes tags based on their visual characteristics. These tags are then stored in STEP and can be used to search images, export metadata about an image for the web, and improve the classification of products according to their referenced images.

### Automatic pre-configuration

When the Asset Analyzer component is first installed, the majority of the configurations necessary to run the solution are installed automatically. This pre-configuration makes the solution easy to set up and use. The pre-configured items are as follows.

### Setup group

A setup group named Asset Analyzer is created upon installation, which contains the following items:

- Asset Keywords Event Filter
- Send Asset Keywords Event - business action
- Set Asset Keywords - business action
- Asset Analyzer Event Processor
- Asset Analyzer Gateway Endpoint

The screenshot displays the 'System Setup' interface on the left and a detailed view of the 'Setup Group' configuration on the right. The 'Asset Analyzer' folder is highlighted in the System Setup tree, and its contents are listed in the Setup Group table.

Setup Group	
Name	Value
ID	AssetAnalyzer.SetupGroup
Name	Asset Analyzer
Type	Asset Analyzer
Last edited	2018-03-13 15:38:51 by DBA
Path	Asset Analyzer

### Attribute

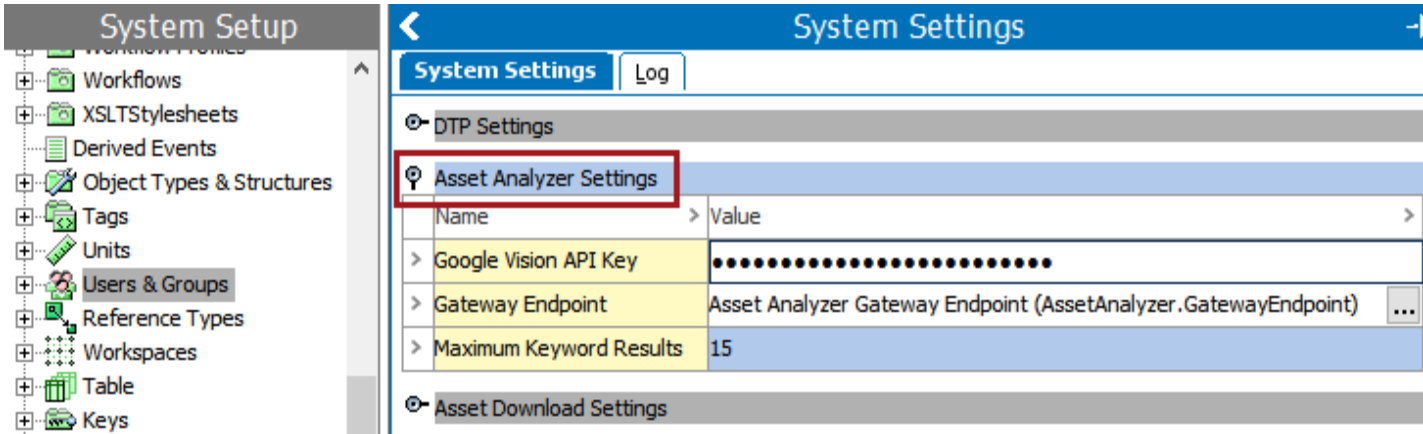
A multi-valued description attribute named Keywords is created along with an attribute group named Asset Analyzer Attributes. This attribute holds all keywords returned by the Google Cloud Vision API.

### Component Model

The Asset Analyzer component model is where the valid object types for the Asset Analyzer are specified, as well as the default attribute in which to store the keywords.

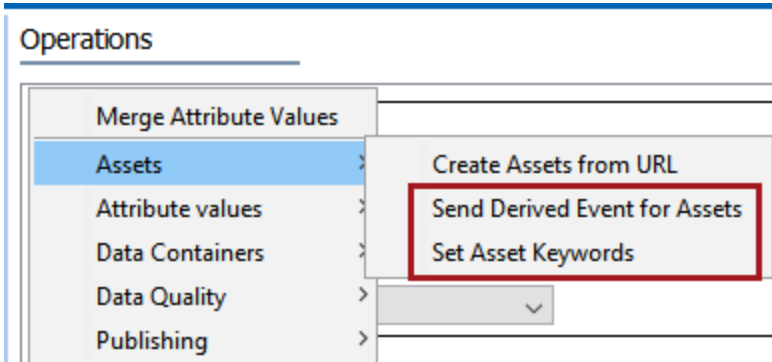
### System Settings

Three settings are available under Asset Analyzer Settings in System Settings: Google Vision API Key, which is used to authenticate requests to the Google Cloud Vision API; Gateway Endpoint, which handles the communication with the Google Vision API; and Maximum Keyword Results, which determines the maximum number of keywords that should be returned.



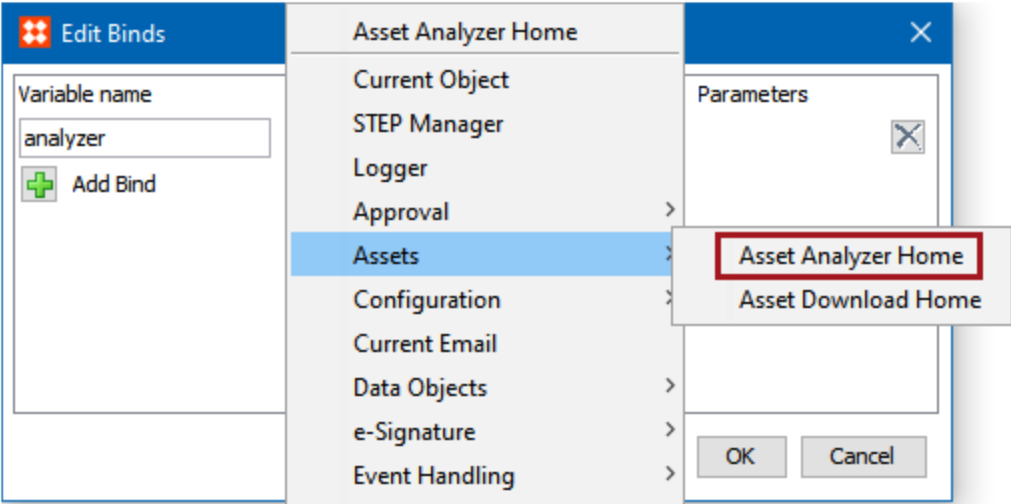
### Bulk Update operations

A new category of bulk update operations named Assets has been added, which contains two new operations for asset keywords: Send Derived Event for Assets and Set Asset Keywords. These behave in a near-identical fashion to the 'Send Asset Keywords Event' and 'Set Asset Keywords' business actions, detailed in the 'Setup group' subsection above.



### Public JavaScript API methods to get and set asset keywords

Two new public API JavaScript methods have also been added to handle scenarios outside of those covered by the other two asset keyword business actions, such as performing operations based on the returned keywords and their score. These new methods are `getAssetKeywords` and `setAssetKeywords`. Both are used with the new Asset Analyzer Home bind that has been introduced under the new Assets category for Execute JavaScript business actions. Both methods analyze the asset and return the keywords found. The `setAssetKeywords` method sets the relevant keywords to the Keywords Attribute. The `getAssetKeywords` method returns the keywords found, but does not set them.



To access the Asset Analyzer component, an 'assetanalyzer' add-on component must be activated on your system in addition to the normal update procedures for 9.0. See your Stibo Systems representative for more information.

For more information, see the Asset Analyzer section of the Digital Asset Exchange documentation.


# New Asset Download Via URL Component

## Summary

Users can now provide a URL to an asset on a product and have STEP automatically download the asset. This new functionality allows users, such as suppliers, to efficiently create and/or replace their business-critical assets in STEP, adding a new layer of flexibility in how they can manage and store the assets and images that need to be linked to their products.

This functional capability has been accomplished with the addition of the new Asset Download component, which enables STEP to pull assets (e.g., images) from external URLs, store them in supplier asset classification structures, and link them to products in an automated operation.

The screenshot displays the Stibo Systems interface. At the top, a browser address bar shows the URL `products-galore/images/party_hats/purplewhitehat.png`. Below this, a search bar contains the text "Search". The main content area features a large image of a purple and white party hat. To the right of the image, there are tabs for "references 1", "Asset Preview", "Category Information", and "Additior". Below the tabs, the product name "Purple & White Party Hat" is displayed. The product details section includes:

- Object Type: Item
- Primary Product Image:  purplewhitehat
- Approved: × Last approved 5/9/17 3:09 PM
- Product Category: Products | Party Supplies | Party Hats | Paper Hats | Children's Hats

At the bottom, a "Product URL Attribute" field is highlighted with a red box, containing the URL `http://products-galore/content/images/party_hats/purplewhitehat.p`. A red arrow points from the browser address bar to this field.

## Details

Asset Download is a new add-on component for STEP that is configured within the STEP Workbench and can be used from within the Web UI, workbench, and during imports—i.e., any location where bulk updates and business actions can be run.

This feature supports both the download of new assets and the replacement of existing assets. Users can have an asset downloaded from the web by providing the image URL as an attribute value on the product to which the asset will be linked. Through a bulk update operation, or a business action invoked from, for instance, an import or workflow transition, STEP fetches the asset from the URL, stores it in a specified supplier asset classification hierarchy, then links it to the product using a specified asset reference type. The same processes can also be used to replace the content of existing assets. The image URL is checked against previously downloaded assets to determine whether to replace an existing asset or create a new one.

Note that this functionality will only work on supplier products, which are products that are linked into a supplier product classification. However, the actual execution of the features (such as the running of an asset URL bulk update or business rule, detailed below) can be performed by any STEP user.

### Automatic pre-configuration

When the Asset Download component is first installed, many of the configurations necessary to run the solution are installed automatically. This pre-configuration makes the solution easy to set up and use. The pre-configured items are as follows.

#### Attribute

A description attribute named Asset URL Attribute is created along with an attribute group named Asset Download Attributes. This attribute stores the URL from which the image is downloaded. By default, it is valid on all asset types in the system. It can be either single or multi-valued.

#### Unique Key

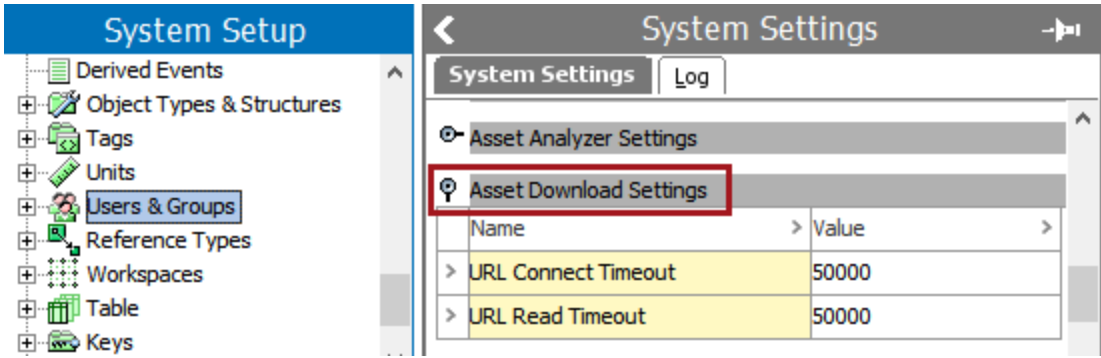
A unique key named Asset URL Key is created that is used to return the value of the Asset URL Attribute when identifying whether or not an asset has already been downloaded.

#### Component Model

The Asset Download component model is where the valid object types for the Asset Download component are specified, as well as the attribute in which to store the asset URL.

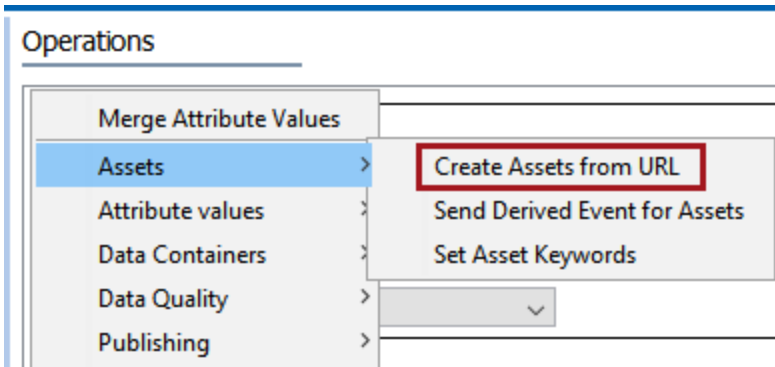
#### System Settings

Two settings are available under Asset Download Settings in System Settings: URL Connect Timeout, which specifies how long the system should wait before it gives up on connecting to the URL, and URL Read Timeout, which specifies the time allowed to download the asset. By default, the value for each is 50000 milliseconds.



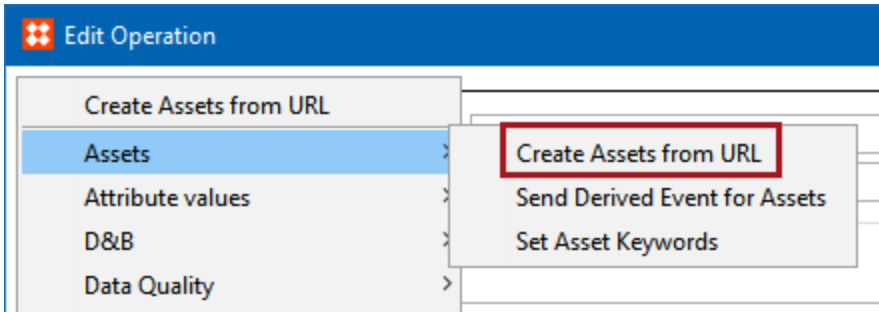
### Bulk Update operation

A new category of bulk update operations named Assets has been added, which contains a new operation for asset downloads, Create Assets from URL.



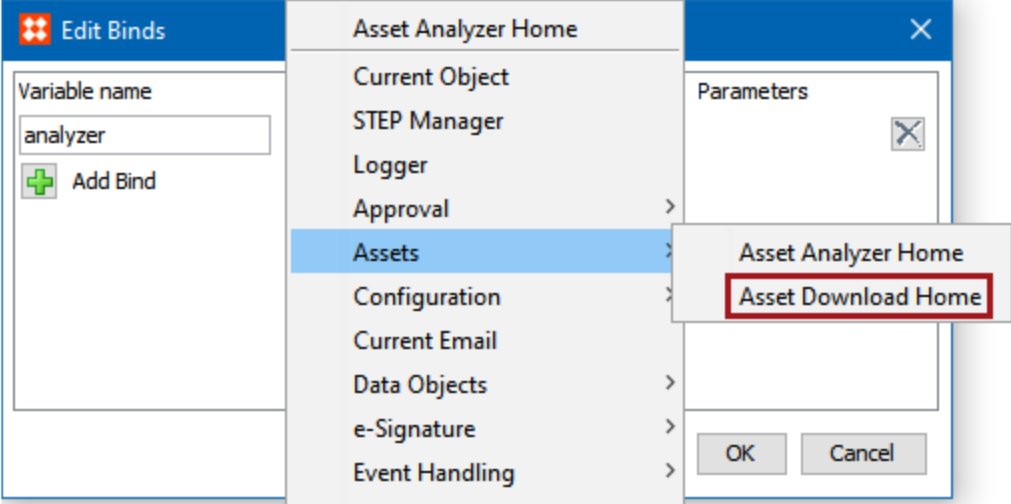
### Business action operation

Similar to the new bulk update operation for asset downloads, a new category of business action operations named Assets has been added. This category contains a new operation for asset downloads, Create Assets from URL.



### Public JavaScript API method to download assets

A new public API JavaScript method has also been added to handle scenarios outside of those covered by the Create Assets from URL business action, such as allowing for asset download actions to be performed on non-supplier products. This method, called downloadAssetContent, is used with the new Asset Download Home bind that has been introduced under the new Assets category for Execute JavaScript business actions.



To access the Asset Download component, an 'assetdownload' add-on component must be activated on your system in addition to the normal update procedures for 9.0. See your Stibo Systems representative for more information.

For more information, see the Asset Download Via URL section of the Digital Asset Exchange documentation.

# JavaScript Business Rule Improvements

## Summary

Creating, modifying, and testing business rules using JavaScript operations is now easier with the following updates:

- The 'Bind to' dropdown, accessible via the 'Edit Binds' dialog, provides faster access to the relevant bind through a reorganization of the binds available on the dropdown. New logical groupings include the three most frequently used binds at the top of the dropdown, and two new binds for 'object type' and 'classification product link type'.
- The 'Time and Test Business Rule' functionality is now directly accessible via the 'Edit Operation' dialog, and features line numbers for JavaScript code that correspond to errors reported during testing.
- The 'Time and Test Business Rule' dialog now provides an Error status and stacktrace for all exception errors thrown from a business rule execution.

## Details

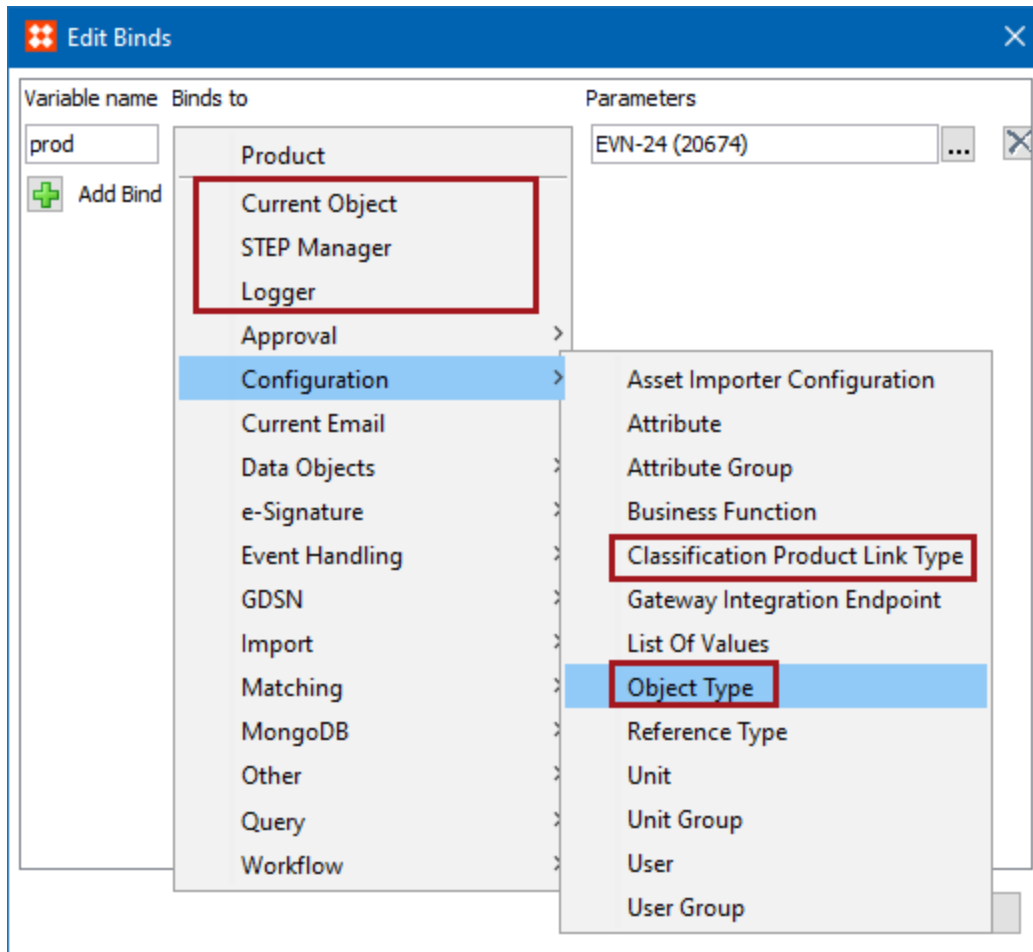
### New JavaScript bind groupings and options

The JavaScript business rule bind options have been reorganized into new groups, with the most frequently used binds (Current Object, Logger, and STEP Manager) displayed first in the list.

Additionally, the following two new JavaScript binds are available:

- The 'Classification Product Link Type' bind allows users to assign a classification product link type object to a JavaScript variable.
- The 'Object Type' bind allows users to assign an item from the 'Object Types and Structures' root node to a JavaScript variable. This bind will most often be used for product, entity, asset, and classification object types.

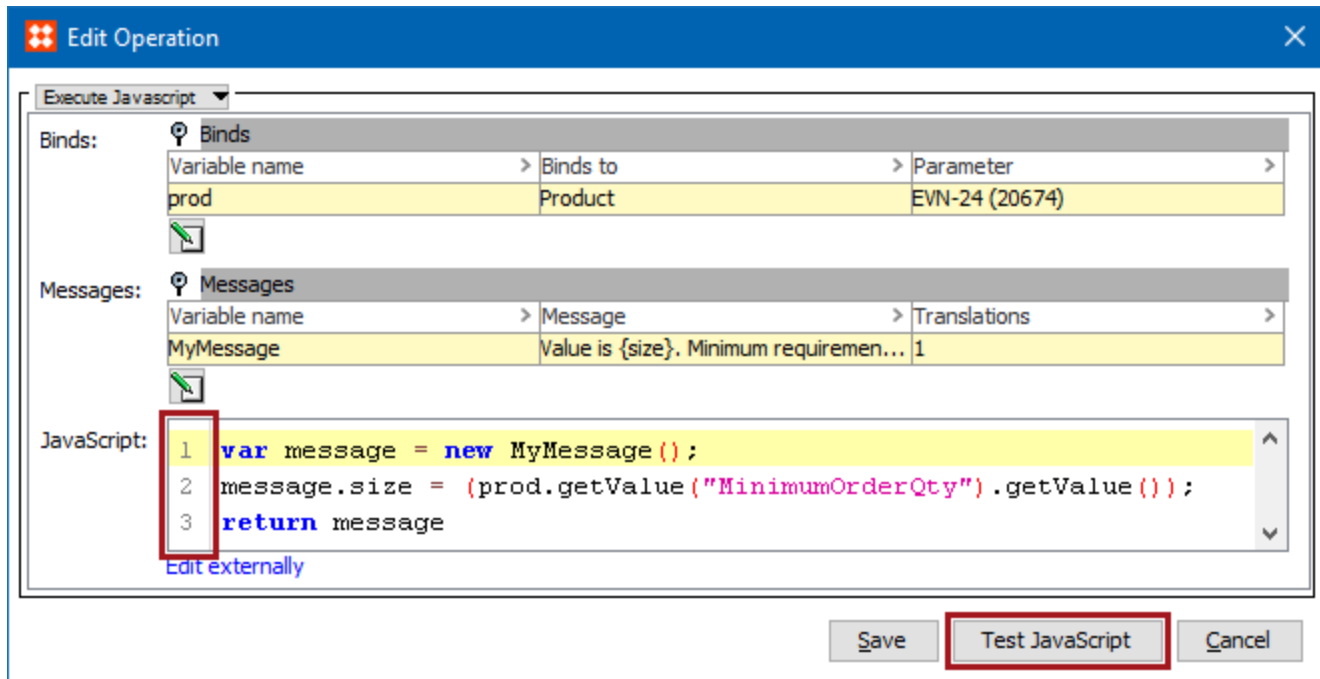




## Improved troubleshooting for JavaScript business rules

Because writing JavaScript business rules also includes testing, access to the test functionality is now available from the 'Edit Operation' dialog via the new 'Test JavaScript' button. The 'Time and Test Business Rule' dialog can be displayed on-the-fly when using the 'Execute JavaScript' operation for actions, the 'Evaluate JavaScript' operation for conditions, or the 'JavaScript Function' operation for functions.

Troubleshooting has been made easier with the addition of line numbers that display in the JavaScript editor on the 'Edit Operation' dialog. These line numbers correspond to the line numbers referenced in the error details on the test dialog, making it easier to identify problematic code. Errors reported can be resolved and retested without leaving the edit dialog.



## Improved testing for JavaScript business rules

The business rule testing functionality has been improved to make troubleshooting information readily available when errors are returned. All exception errors now display an error status and show the stacktrace in the 'Error Details' parameter.

**Test & Time Business Rule**

Test Object: (ER-179160)

Timing: 0.000000 ms

Status: Error

Result: -

Error Details: Cannot deliver bind of type EventQueue in this context.  
com.stibo.core.domain.unstable.usermessage.DomainRuntimeUserException: Cannot deliver bind of  
at com.stibo.core.domain.businessrule.parameterresolver.DomainParameterResolver.  
at com.stibo.core.domain.businessrule.parameterresolver.legacy.BRContextParamete  
at com.stibo.core.domain.impl.businessrules.BusinessRuleHomeImpl\$2.resolve(Busines  
at com.stibo.core.domain.impl.bulkupdate.contextparameter.ContextParameterResol  
at com.stibo.core.domain.impl.businessrules.parameterresolver.RequiredBindParamet  
at com.stibo.core.domain.impl.businessrules.parameterresolver.RequiredBindParamet

Log

Rollback changes after test

Execute in Approved Workspace

Notice that context-specific JavaScript binds do not work in Business Rule Test.

Test Cancel

For more information, see the JavaScript Binds topic in the Resource Materials online help and the Testing a Business Rule topic within the Business Rules documentation.

# STEP Publisher and Tables Enhancements

## Summary

A number of usability enhancements and functionality improvements have been made to the STEP Publisher and Tables components, both in the STEP Workbench and within the InDesign interface.

These enhancements include:

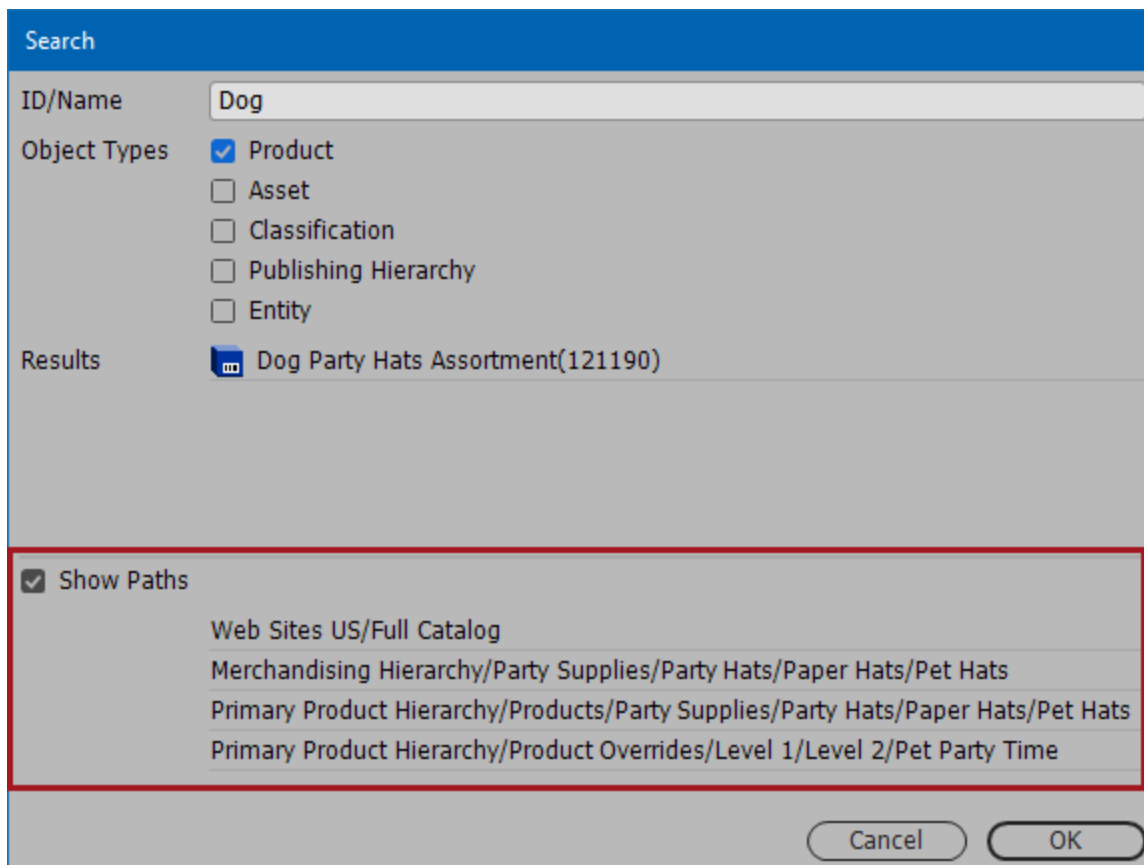
- Enhanced product search in STEP Structure View panel in InDesign
- New and updated table transformations
- New option to choose either page 1 or 2 as the starting page for Proof Views and Proof View PDFs
- Addition of two new STEP Functions for print

## Details

### Enhanced STEP'n'design search to show object path in search results

Search in STEP'n'design now supports the listing of full object paths in search results from the STEP Structure View panel. This enhancement, made possible through a redesign of the 'Search' dialog, allows creative users to click on an object path and go directly to the location in the product or classification hierarchies in the Tree that contain the business-critical content they need to build their printed pages. Full object paths are crucial, for example, when users need to locate products in classification structures or when the products are children of product-overrides. Previously, the search would only locate the original location of a product, meaning that users had to manually locate the associated classification or product-override. This new level of location transparency allows users to work from the sections of the product and classification hierarchies of their choice, speeding up the print production process and helping users more efficiently meet important print publishing deadlines.

This search is accomplished in two steps, so as not to impact performance. Once the initial search has been conducted, users can check the 'Show Paths' box to conduct a second search, which returns all file paths where the object appears in STEP. The 'Show Paths' section of the dialog can be collapsed or expanded as needed. The below screenshot shows how the search dialog appears in the STEP Structure View panel. Note that this functionality is only supported in Adobe InDesign versions CC12 and above.



For more information on STEP'n'design search functionality, see the STEP Structure View section of the STEP Publisher / STEP'n'design documentation.

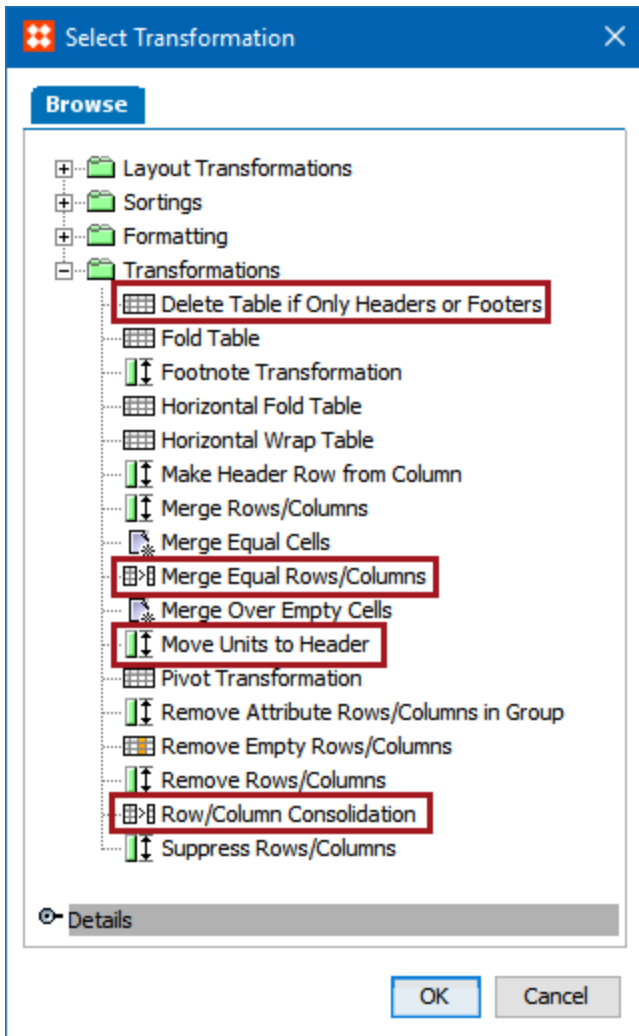
### STEP table transformations enhancements

Four new table transformations have been added to the STEP Workbench, and a number of existing table transformations have been updated, providing a wider range of options for the creation of tables in print publications. These transformation enhancements not only make it easier for users to meet business requirements for complex product data presentations, but they allow users to spend less time on table creation, helping them more easily meet crucial publication deadlines. Note that the table transformations have also been re-ordered in the 'Select Transformation' dialog so they now appear in alphabetical order.

Table transformations are accessed on the Preview tab when viewing tables on product, classification, and product-override nodes, and in System Setup when configuring Default Transformations for table types.

### New transformations

The following new table transformations have been added:



### Delete Table if Only Headers or Footers

This transformation checks to see if all of the current rows or columns in a table are designated as Headers or Footers, i.e., if they are designated as anything other than Normal. If either all rows or all columns are headers or footers, then the entire table is deleted.

### Merge Equal Rows/Columns

This transformation merges consecutive rows or columns if they have identical data.

### Move Units to Header

This transformation enables a header row or header column to be built from unique units that appear on values inside the table. This simplifies the creation of tables that feature technical product information; for example, for electronic components that use units such as Ohms ( $\Omega$ ). Additionally, it helps to save space on column widths or table heights. This functionality parses through the actual column units of a table and, if all units are the same, a

header row or header column is built from the unique unit. When moving the units to the header, either a new header is built using the unique unit, or the unit text is appended to the text of an existing header. In either instance, the units are removed from the values within the table after they are moved to the header.

**Row/Column Consolidation**

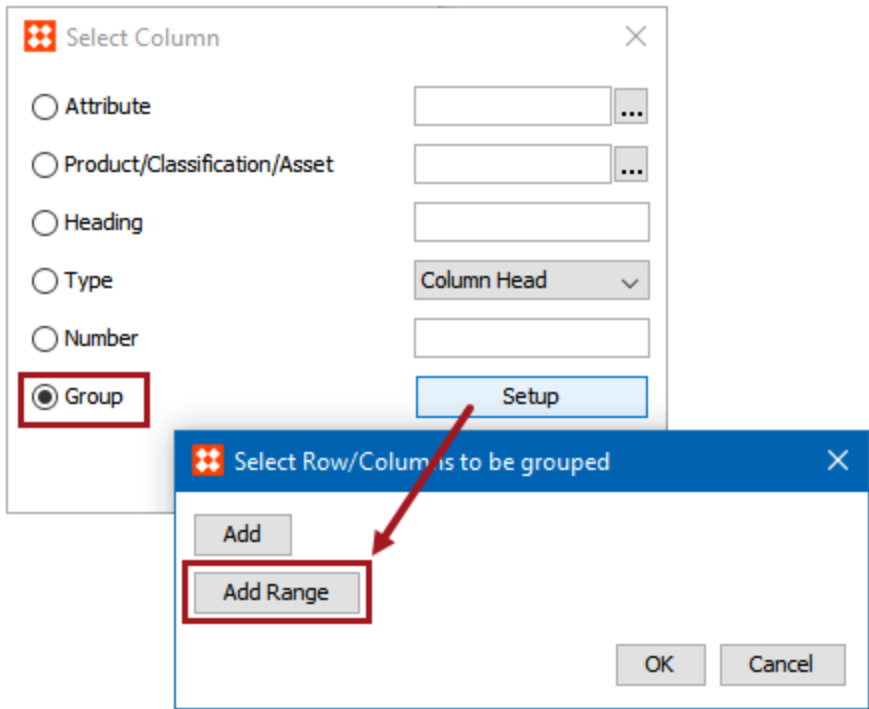
This transformation consolidates consecutive rows or columns that are identical except for the values in one designated row or column. The values in those cells corresponding to the designated row or column are merged. This transformation has previously been available for certain Automotive solutions, but is now available to all users.

**Enhancements to existing transformations**

The following updates have been made to existing transformations:

**New 'Add Range' feature when setting up groups of rows or columns**

A new 'Add Range' option has been added to all transformations where the option to set up a group of rows or columns is present. This new feature allows more than two rows / columns to be merged in one operation. The selection of the row / column range is specified by column and row numbers.



**Merge Rows/Columns – new 'keep localized cell settings' and 'merge groups' options**

The Merge Rows/Columns transformation has been updated to accommodate cell-level formatting that may have been applied to cells in a row or column. Previously, all such cell formatting would have been lost after a merge, but it may be a requirement to maintain this cell-level formatting after the merge. To ensure backwards compatibility, a new option has been introduced on the Result screen of the transformation wizard, labeled 'Keep localized cell settings from first merged row' (or column, if merging columns). Thus, any cell formatting that was in

effect on the first selected row or column may be maintained. Any cell formatting that was in effect on the row or column that will be removed will still be discarded.

Additionally, the ability to merge groups of rows or groups of columns has been added to the Merge Rows/Columns transformation. Previously, only single rows or single columns could be merged.

## Suppress Rows/Columns – expanded matching options, including support for regular expressions

The number of options in the Suppress Rows/Columns transformation has been expanded to allow for greater flexibility when determining which rows and/or columns should be suppressed. Previously, this transformation was very basic in its criteria for when to suppress a row or column, only allowing an 'is' or 'isn't' option that would match on static text. Now, a regular expression can be entered instead of static text, with support for basic operators such as equals or does not equal, etc. Additionally, the following 'Where' options are now available: all values are equal; all values are equal but not; and values are different.

A common use for this transformation may be for rendered tables that have retrieved values using the Attribute Group Attributes content definition. In some cases, these values will be the same for all the rendered products. This transformation enables these rows / columns to be suppressed if the values are equal.

For more information on table transformations, see the Table Transformations section of the Tables documentation.

## New ability to choose a starting page number for Proof View and Proof View PDFs

Users of the Proof View component can now choose whether to start the page numbering for proof views and PDFs created from Proof View on either page 1 or page 2. This has been achieved by adding a new option called Proof View Start Page Number under Users & Groups > System Settings > DTP Settings.

The screenshot shows the 'System Setup' interface. On the left is a tree view of system components, with 'Users & Groups' selected. The main area displays the 'System Settings' for 'DTP Settings'. A table lists various settings, with 'Proof View Start Page Number' highlighted in yellow and its value '2' selected in a dropdown menu. A red box highlights the 'DTP Settings' header and the 'Proof View Start Page Number' row.

Name	Value
> Use Publication Name prefix when naming ...	N
> Enable calculation of border rectangle spac...	N
> Calculated DTP Table width includes left an...	N
> Attribute Display Sequence	Print Display Sequence (PrintDispl ...
> Attribute Name Style Meta-attribute	...
> Attribute Value Style Meta-attribute	...
> Asset Order Meta-attribute	Image Display Sequence (ImageC ...
> Table Cell Skip Empty Cell	N
> JPEG DPI	72
> DTP Page - preview image	High-resolution
> Inherit Default Product Template through ...	Y
> Proof View Start Page Number	2
Asset Analyzer Settings	1
	2



Previously, the starting page number was always 2. The new option to choose page 1 gives users greater flexibility when producing documents for PDF output, such as datasheets, that may not be produced in a 2-page spread format and should start page numbering at 1.

For more information on Proof Views, see the [Generating Proof Views](#) topic in the [STEP Publisher / STEP'n'design](#) documentation. For more information on DTP Settings, see the [DTP Settings](#) section of the [System Settings](#) documentation.

### **New STEP Functions for print**

Two new STEP functions have been introduced to make it easier for users to retrieve information about publication versions when mounting InDesign pages (e.g., when used within a calculated attribute). The first, `getPublicationVersionID`, returns the ID of the currently selected publication version. The second, `getPublicationVersionName`, returns the name of the currently selected publication version. For more information, see the [Publishing Functions](#) section of the [STEP Functions](#) documentation.

# GDSN Enhancements

## Summary

A number of enhancements have been added to the GDSN Provider and Receiver components. These include functionality improvements in both the Web UI and the STEP Workbench.

- The Product Data Syndication Platform has been extended with GDSN Provider capabilities.
- Three new GDSN Receiver Solution extensions have been added to facilitate easier setup, automation between the Receiver Solution and the MDM platform, and to make working with nested references easier.
- The GDSN Provider and Receiver Solutions are now separate components.

## Details

### GDSN Publisher Solution Data Syndication Platform

Users may directly publish to GDSN data pools through the Product Data Syndication Platform. In addition to improving data governance, this integration allows for the mapping of Product MDM data models directly to GDSN data standards, and the Product Syndication Platform user interface highlights when required data is missing or incorrect. This improvement enables the Product Syndication Managers to manage item registration and publishing statuses quickly and efficiently. It is no longer necessary to be a GDSN protocol expert as the Data Syndication Platform handles all of the registration and publishing requirements and messaging including when the packaging hierarchy links must be updated. For more information on the new integration with the Product Data Syndication Platform, see the New Integration with Product Data Syndication Platform release note.

### GDSN Receiver Solution extensions

The following new features have been added to the GDSN Receiver Solution.

#### GDSN XSLT Outbound Post Processor

A GDSN XSLT Outbound Post Processor has been created to help send GDSN item data to downstream systems. This post processor allows for complex transformations to occur and align the data across systems. This post processor will:

- Split cross-context STEPXML into per-context STEPXML.
- Split large XML output in to one STEPXML per trade item.
- Apply the MDM based XSLT.
- The resulting file contents are compared to the previous file contents.
- If the contents match, an 'output: false' business action will execute. If the contents do not match, an 'output: true' business action will be executed, and the XML will be sent to the MDM system.

The processor also removes embedded lower-level package hierarchy products so that the XML only contains one trade item and all of its referenced nested products.

## REST resources

When the GDSN Receiver Solution imports package hierarchies from the data pool, it will send them to the MDM platform via an endpoint running the XSLT post processor. The MDM must respond to the GDSN receiver indicating whether it rejects or accepts the trade items, or whether corrections are required for the trade items to be accepted. REST resource methods have been added to the GDSN Receiver Solution to perform the following:

- Access the system to find available data pools.
- Get the status for a specific trade item.
- Invoke four different business actions via a REST call. Business actions must be configured and set up using a setup entity. The operations are Synchronize, Reject, Review, and Ignore.
- Build a bind object that contains the acceptance status identified by the platform, and if applicable, identify the corrective actions that the GDSN Publisher must take. The REST resource invokes the business action with a JavaScript binding to allow the business action to access the relevant data.
- Execute a global business action on the selected trade item with the binding supplied.
- Set an execution status to be passed back to the MDM platform. The resource methods read this from the bind and construct a JSON API response indicating the package hierarchy CIC status, list of applicable GTINs, and business rule execution status.

## GDSN componentization

The GDSN Provider and Receiver Solutions were initially part of the core STEP platform. They have now been removed and componentized to give Stibo Systems greater flexibility in updating and expanding the component.

**Upgrading to 9.0 via the baseline recipe will remove these components from your system, so installing the components separately (or at the time of upgrade) and making sure the functionality is fully activated will be necessary.**

To access the GDSN Receiver Solution, a 'gdsn2-receiver' add-on component must be activated on your system in addition to the normal update procedures for 9.0. To access the GDSN Provider Solution, a 'gdsn2' add-on component must be activated on your system in addition to the normal update procedures for 9.0. Please note that when a component is removed, no data is lost. However, there can be other adverse system effects if other functionality was reliant on the component removed. See your Stibo Systems representative for more information.

# Minor Enhancements and Changes

## Summary

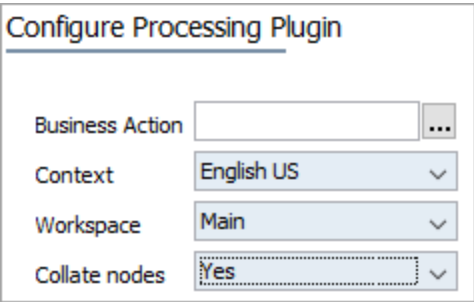
STEP has received a number of minor enhancements in various areas of the software as part of the 9.0 release. These are listed below.

- The Execute Business Action event processor 'Collate nodes' functionality has been updated.
- The automatic classification functionality now only considers links and references local to the objects for which it is applied.
- For business conditions, a new 'OR' plugin has been made available to evaluate two or more business conditions.
- STEP now supports the WebP image format via asset export.
- The JPEG Quality selection when exporting / converting images has changed to a sliding scale for easier user control.
- Since the GDSN Receiver plugin will include Global Product Classification, the 'Import Global Product Classification' default has been removed from the 'Import' menu.
- Numeric search behavior for values, when the attribute has units, has been modified.
- STEP documentation has been rearranged for easier navigation.

## Details

### Business Action Event Processor enhancements

The Execute Business Action can now be configured to execute business actions just once for each node having triggered an event, in the case that many events for the same node exist in the event batch. This is done by selecting the 'Collate nodes' option and setting it to Yes during the configuration process. Previously, the Execute Business Action processor executed a business action once for each triggered event where the action is applicable for the configured object type. This legacy behavior can still be applied by setting 'Collate nodes' to No.



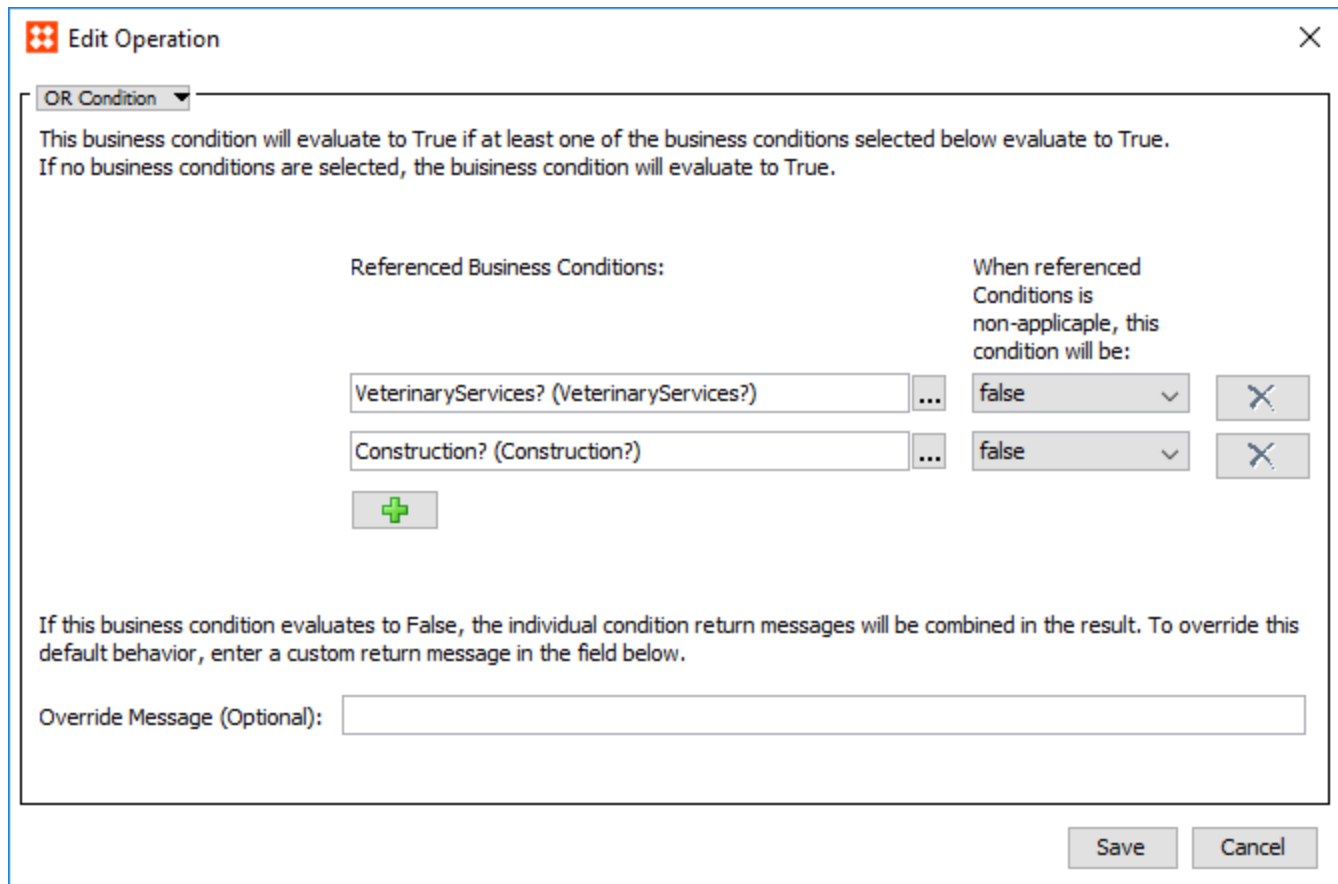
Configure Processing Plugin	
Business Action	<input type="text"/> ...
Context	English US ▼
Workspace	Main ▼
Collate nodes	Yes ▼

## Update to Automatic Classification functionality

The automatic classification functionality has been corrected so that it now only considers links and references local to the objects for which it is applied. The old functionality, where inherited links and references were also considered and potentially deleted, could cause unforeseen side effects for objects outside of the set to which the functionality was applied.

## New OR business condition plugin

A new business condition plugin is now available that can evaluate two or more other business conditions. If any of the referenced business conditions return true, this 'OR' condition evaluates to true.



**Edit Operation** [X]

OR Condition ▾

This business condition will evaluate to True if at least one of the business conditions selected below evaluate to True. If no business conditions are selected, the business condition will evaluate to True.

Referenced Business Conditions:	When referenced Conditions is non-applicable, this condition will be:
VeterinaryServices? (VeterinaryServices?) ...	false ▾ [X]
Construction? (Construction?) ...	false ▾ [X]

+ [Add Condition]

If this business condition evaluates to False, the individual condition return messages will be combined in the result. To override this default behavior, enter a custom return message in the field below.

Override Message (Optional):

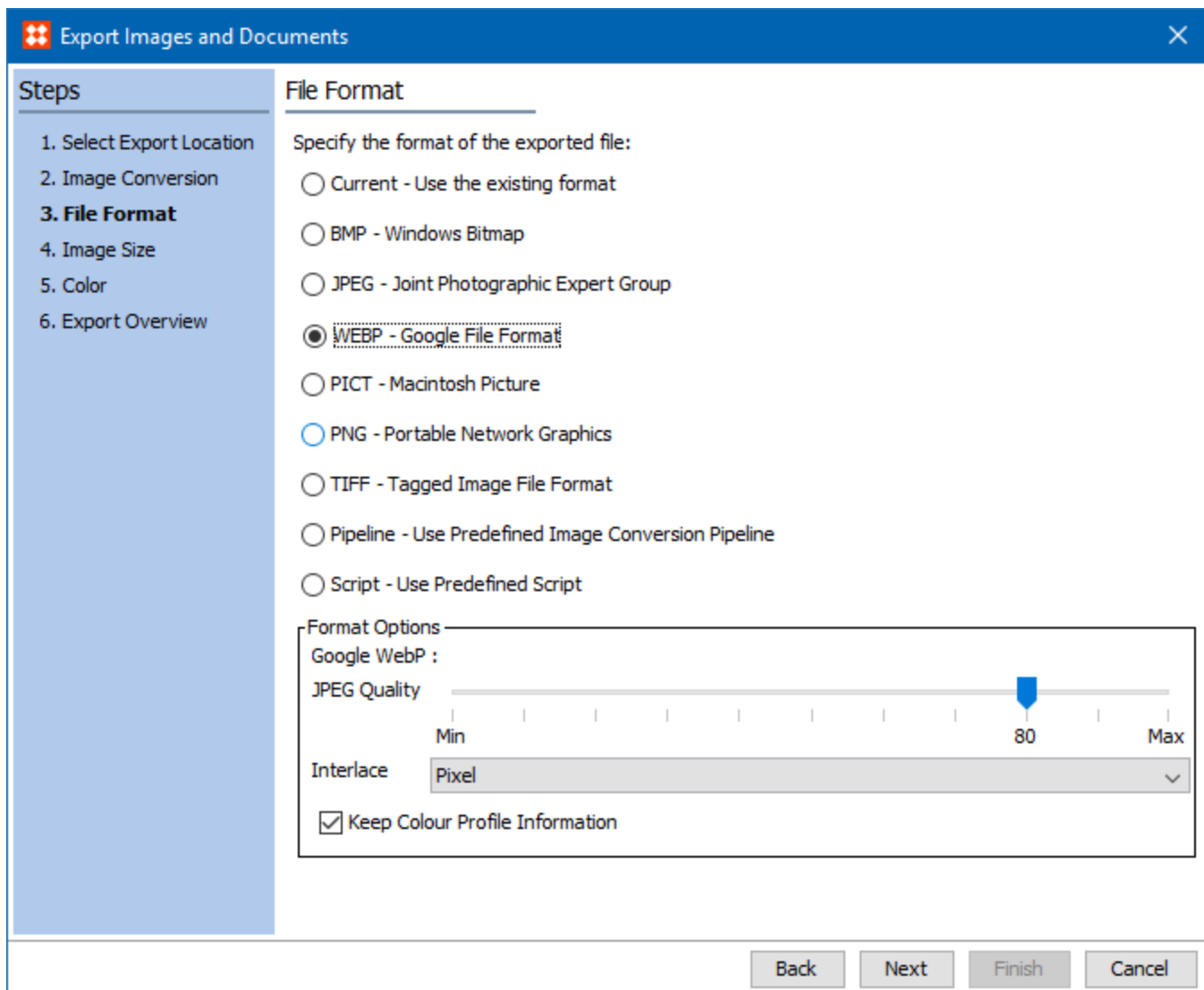
[Save] [Cancel]

For more information, see the Business Condition: OR Condition section of the Business Rules documentation.

## Support for WebP image format

STEP now supports the WebP image format during export. WebP is a relatively new format developed by Google. WebP images are created using JPEG image conversion; however, the image compression is better compared to other formats. This means that image file sizes are smaller, making them optimized for website usage, all while retaining image quality.

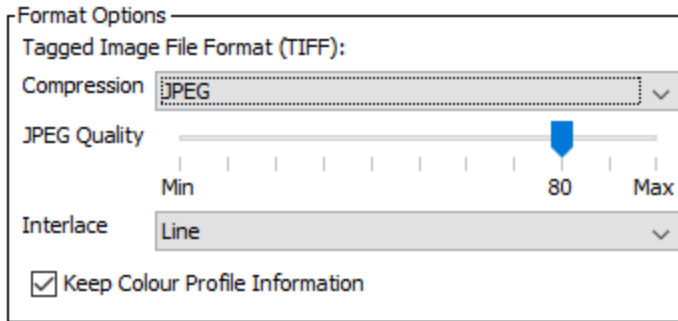
WebP images are natively supported in the Google Chrome browser. More information about this file format, and the browsers that natively support it, can be found by searching the internet.



For more information, see the File Format topic in the Digital Asset Exchange documentation.

### JPEG Quality Compression scale

When exporting images and doing image conversions, some formats (JPEG, WEBP, TIFF) use, or can use, JPEG compression. When doing JPEG compression, users are able to select the JPEG Quality. Previously, users could choose from four options: Low, Medium, High, and Maximum. Now, users are presented with a sliding Min - Max scale. Min (Minimum) provides the lowest quality image with the smallest file size; Max (Maximum) creates the highest quality image with the largest file size. The scale defaults to 80, as shown below.

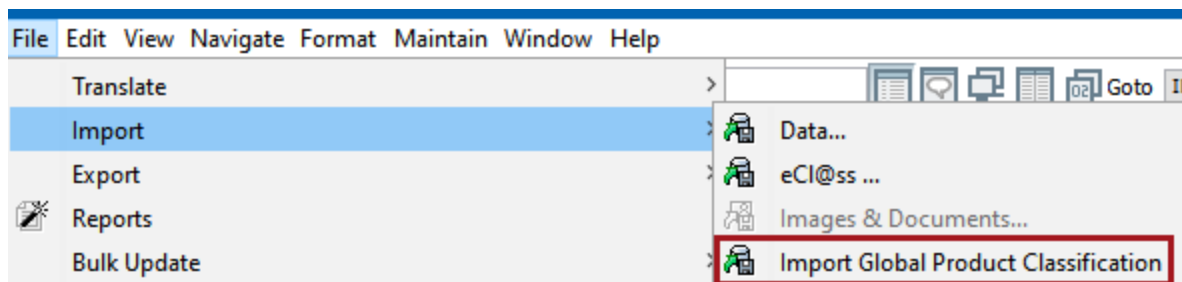


For detailed setting information, see the File Format topic in the Digital Asset Exchange documentation.

### Import Global Product Classification option removed

The option to 'Import Global Product Classification' has been removed as a default option in STEP 9.0. The Global Product Classification will be included and configured in the GDSN Receiver solution, thus the option has been removed to prevent the possibility of loading the classification twice.

If there are concerns about the removal of the Import Global Classification option, please contact your account manager.



### Search changes

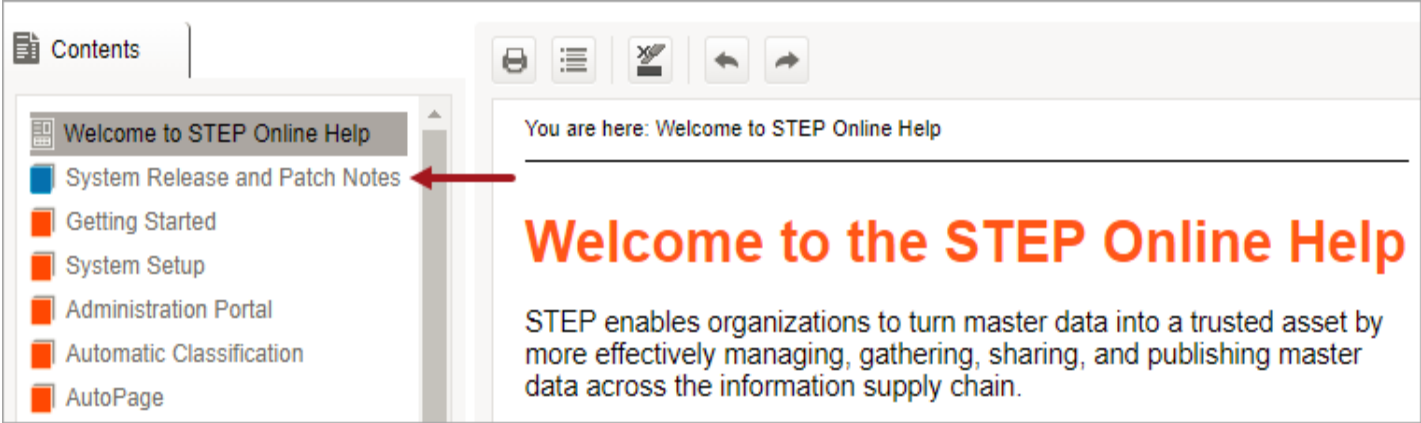
The behavior of numeric searches for values for a specific attribute has been modified.

Previously, if no unit was supplied in the search criteria, e.g., 'Weight = 1', the search functionality would assume that the value '1' was supplied in the base unit. With g (gram) being the base unit for units used for the Weight attribute, the search would match values '1', '1 g', '0.001 kg'. This behavior has now been changed so that values for numeric searches with no units are assumed supplied in the default unit for the attribute. Following this, if kg is the default unit for the Weight attribute, 'Weight = 1' will match '1 kg' and '1000 g'. If no default unit is configured, the search 'Weight = 1' will only match the value '1' with no unit.

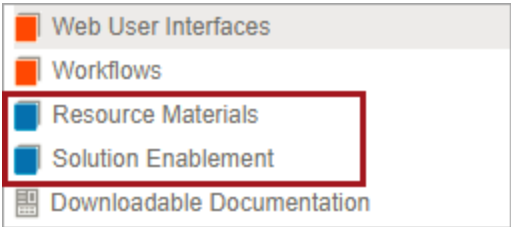
### Online help reorganization

Enhancement of the STEP online help documentation is continuous, with updates released with each feature release and maintenance patch. In addition to documentation updates for the 9.0 release, the following changes have been made:

- The System Release and Patch Notes can now be found at the top of the left navigation online help panel (below Welcome to STEP Online Help). This gives users easier access to find information in release and maintenance patch notes as well as the Platform and Software Support information. Additionally, we have created a Resource Materials section that includes topics that impact multiple online help topics / sets of functionality and needed a more general place to be housed for easy access.



- Some of the left-navigation topics now show in blue rather than the standard orange. This is to differentiate the materials available in online help. The legacy orange books include standard online help topics and the blue books indicate that the materials are more supplemental and appendix-type of documentation.





# Platform and Software Support Changes

This section lists current and future planned changes to platform and software support. The complete list of platform and software support is available in the Platform and Software Support for Trailblazer 9.0 section of the System Release and Patch Notes documentation.

## Baseline Functionality / Patching Updates

As of 9.0, some STEP functionality will be removed as baseline functionality and become accessible via a separate component installation. Because fewer components are installed by default, component-based architecture allows for easier and faster software development and delivery. With this change, customers have the flexibility to build and manage a STEP system that meets the business need.

**This constitutes a change in existing functionality.** Before upgrading, it is important to plan ahead and verify if the following independent components are being used:

- GDSN Publisher
- GDSN Receiver
- MongoDB

If so, upgrading must include each individual independent component recipe. Otherwise the functionality will no longer be available after upgrade.

More information can be found in the individual release notes for these components within the Release Notes for STEP Trailblazer 9.0.

## Sidecar and Java 8 Update Required for Some Systems

The sidecars (assetpush and indesign server) have required Java 8 since the STEP 8.2 release, but Java 7 compatibility for old installations has been maintained until this release. **The Java 7 compatibility for sidecars has now ended and all sidecars need to be re-deployed with the latest released version of Java 8.**

The list of sidecars on a given system can be found at: [your system URL]/sidecar

Please contact your Stibo Systems account manager or partner manager, or the support department, to receive the steps and further guidance on how to update Java and re-deploy the sidecars.

## Additional Current Updates

Oracle Java SE 8 has been updated from Java JDK 1.8.0\_144+ 64-bit to Java JDK 1.8.0\_162+ 64-bit.

## Future Updates and End of Life Notifications

The changes in platform and software support expected in the future include the following:

- Adobe InDesign CC 2015 (Client and Server) will no longer supported with the fall 2018 release.
- **Support for STEP Trailblazer 7.0 - 7.2 and 7.3 is ending, effective 1-Aug-2018.**

- **Support for STEP Trailblazer 7.4 is ending, effective 1-Nov-2018.**
- **Support for STEP Trailblazer 8.0 is ending, effective 1-Apr-2019.**

The purpose of the support notifications above is to officially communicate desupport / end of life for these systems and request that customers update as soon as possible to the latest release of STEP. Please contact your Stibo Systems account manager or partner manager, or the support department, to receive help and guidance on how to update to a supported release.

Software errors reported on versions 7.0 - 7.2 and 7.3 may be rejected after 1-Aug-2018, after 1-Nov-2018 for version 7.4, and after 1-Apr-2019 for version 8.0. Application support issues in progress for the STEP releases being desupported will be closed on the desupport date. It is not possible to extend the support services for desupported versions.

If you have any questions or would like to be contacted to receive help on updating the STEP application, please contact: [STEP-updates@stibosystems.com](mailto:STEP-updates@stibosystems.com).

- As mentioned in previous feature release notes, older versions of Excel will be desupported in an upcoming STEP release. This includes Office versions prior to 2010 for Windows users and 2011 for Mac users. Using an older version of Excel could cause problems with files. It is best to always choose the newest, supported version of Microsoft Excel. Additional information on supported MS Excel versions can be found in the Platform and Software Support for Trailblazer 9.0 section of the System Release and Patch Notes documentation.

## Miscellaneous Bugfixes

A number of bugfixes have been applied to STEP as part of the 9.0 release.

### ◆ **ISSUE-251057 - Fixed a bug when using localization files in an external folder**

Previously, using localization files in an external folder would fail to work (revert to English) when using the German locale. This has now been fixed.

### ◆ **ISSUE-261461 - Corrected STEP'n'design STEP Tasks panel yellow highlighting issue**

Fixed a problem with yellow highlighting appearing behind the tasks on the STEP'n'design STEP Tasks panel in versions of Adobe InDesign CC, both on Mac and PC.

### ◆ **ISSUE-275144 - An error no longer occurs when duplicating objects in workbench**

In workbench, a 'not privileged' error could be thrown when duplicating objects. Depending on the implemented object type hierarchy, the workbench would erroneously attempt to apply key values from previous duplications to invalid objects on subsequent duplications. This caused a 'not privileged' error. This behavior has been corrected.

### ◆ **ISSUE-276727 - Enhanced Smartsheet LOV picker dialog with a horizontal scrollbar**

A horizontal scrollbar has been added to the Smartsheet LOV picker, which appears if one of the LOV values does not fit within the fixed width of the box. This allows for users to scroll to see the whole value.

### ◆ **ISSUE-278164 - Fixed an issue with read-only users being able to edit matching algorithms in the workbench**

A bug has been fixed in the workbench that would allow read-only users to edit matching criteria, global binds, match actions, survivorship rules, categories, and match code windows.

### ◆ **ISSUE-279720 - Fixed an issue with IIEPs with malformed import configurations**

Users can now edit IIEPs with malformed import configurations. Now, a warning popup will be shown before the editor appears: 'Error occurred while parsing import configuration. Please edit configuration before proceeding further.' After clicking OK, users can continue editing the IIEP.

### ◆ **ISSUE-284695 - Fixed a Clerical Review Task List empty value / alignment issue**

Cells in a Clerical Review Table (Task List) now have a minimum height so that even empty ones will have a height. This fix prevents issues such as: If an attribute value was missing for one of the golden records in the Clerical Review Task List, the display became centered and you could not distinguish which of the records a particular value belonged to.

◆ **ISSUE-289855 - Corrected issue where external asset content was unavailable to the Thumbnail Header component**

Added missing functionality in the Thumbnail Header of the Web UI to support external DAM systems through a plugin.

◆ **ISSUE-290745 - Fixed a problem with LOV editor in workbench**

Fixed a problem when in the STEP Workbench LOV editor on the System Setup tab, the second LOV value was initially selected instead of the first. This fix has also been backported to step-8.3-mp3.

◆ **ISSUE-296422 - Fixed an inconsistency between error messages in Web UI screens for attribute value length validations**

In the Web UI, when a user would enter an attribute value that exceeded the maximum character limit for that attribute, a different error message would display on the Multi Language Screen and other header-based screens than the message that would appear on Node Editor screens and in the workbench. This has been fixed.

◆ **ISSUE-298622 - E-Signature authentication fix**

A problem was fixed where E-Signature authentication was not able to authenticate user correctly in cases when multiple domains were set for the system. It should work as expected now.

◆ **ISSUE-300005 - STEP'n'design: Fixed an issue with split tables and 'Keep With Next' setting**

A problem has been fixed in STEP'n'design where a table would split unnecessarily when using the 'Keep With Next' option. This has been hotfixed to step-8.3-mp3.

◆ **ISSUE-300402 - Made it possible to search for nodes not translated**

A fix went in for the drilldown search framework's "Translation Status" plugin. It is now possible to search for not translated nodes. Not all of these nodes were showing up in searches previously. This has been hotfixed to step-8.3-mp3.

◆ **ISSUE-300910 - Fixed a limitation with the Send Email Business Action**

Now, it is possible to choose a sender by clicking 'Add recipients/sender' action for Send Email Business Action in the From: field when using the workflow variables 'receiverMail' and 'senderMail'. This could only be done from the To field previously.

◆ **ISSUE-301239 - Corrected issue so that special characters escape properly in workflow state names**

Fixed problem, when ampersand character ("&") was not properly escaped in Workflow Editor in Workbench for state names. Now users do not need to add escaping character ("&") manually, as the ampersands are escaped automatically.

◆ **ISSUE-301439 - Corrected issue with OIEP failing for Alpha Index export**

Fixed a problem where the incorrect Version was used during an Index Export that was started from an Outbound Integration Endpoint.

◆ **ISSUE-301763 - Fixed an issue with Web UI Max Suggestion parameter in search panel component**

Fixed bug in the Web UI where the Max Suggestion parameter in 'Value Criteria' configured in the Search Panel component was ignored, and set to 5, when searching in attributes. The issue was first noticed as an inconsistency in the suggestion results in the left pane search and the reference target search. Also backported to step-8.1-mp5.

◆ **ISSUE-302322 - Fixed ordering issue with classifications**

Manually ordered classifications fixed in the node tree. Some users were finding that the order had changed without any manual input from a user.

◆ **ISSUE-302348 - Fixed an error that would occur when setting up a Collection view in Web UI**

When the References component was used on a Node Details screen for a Collection in the Web UI, a ClassCastException would be thrown, as it was not designed for being configured for collections. This has been fixed.

◆ **ISSUE-302378 - Fixed a Product Reference Editor performance issue**

Fixed a performance problem in Product Reference Editor. When adding a number of new references using the editor, the product reference editor would reload a large number of times causing the dialog being slow. This has been fixed.

◆ **ISSUE-302971 - Fixed an issue with the Web UI Grouping component**

Fixed problem with the Submit button not being enabled after filling out all of the mandatory fields displayed in the Grouping component.

◆ **ISSUE-303056 - Fixed a 'No results found' popup problem in Web UI Advanced Search screen**

In the Web UI Advanced Search screen, a 'No results found' popup dialog was displaying even when the user had not actually triggered a search. This was occurring when navigating to the Advanced Search screen for the first time, when the user expanded / collapsed the left Tree panel. This has been fixed, and hotfixed to step-8.3-mp3.

◆ **ISSUE-303405 - Corrected issue occurring when removing references from deleted source records**

There was a problem with references to be removed. It was reproduced in the situation when Matching Algorithm #1 created golden records from source records, and Matching Algorithm #2 used these golden

records from MA #1 as a source for creating so called Households, which are also golden records. So, this relationship could be illustrated like:

Source Record #1 -> Golden Record #1 -> Household #1

Source Record #2 -> Golden Record #2 -> Household #2

And, when two source records in MA #1 become equal in terms of match codes, the situation started to look like: Source Record #1, Source Record #2 -> Golden Record #1 -> Household #1, Household#2 because of retargeting references from removed Golden Record #2.

This problem has been fixed, so from now on in the case of Source Records equality, the references from deleted golden records will not be retargeted to the survivor record, and it will look like this: Source Record #1, Source Record #2 -> Golden Record #1 -> Household #1

### ◆ **ISSUE-304013 - Restored search, collection creation, and bulk update actions to Profile tab for attribute frequent values**

After the STEP 8.2 release, the search, collection creation, and bulk update actions were missing below Frequent Values on the Profile tab for attributes. These have been restored.

### ◆ **ISSUE-304121 - User activity report corrected**

The admin portal allows downloading of a user activity report. When selecting 'Interface: All' the expected behavior was that all types of activity (Web UI, workbench, etc.) were included. Sometimes some of the entries were incorrectly omitted. This has been fixed, and hotfixed to step-8.2-mp3.

### ◆ **ISSUE-304561 - Fixed a problem with empty Excel files loaded to the Web UI Simple Importer Widget**

If an empty Excel file was loaded to the Web UI Simple Importer Widget, this would cause an invalid conversion or XML validation errors. Now, the Simple Importer supports Excel file extensions (.xls, .xlsx), .csv and .txt. Zip files are not supported for this component.

### ◆ **ISSUE-304801 - Fixed translation exception**

Fixed an error in workbench, which was appearing in Outbound Integration Endpoint in Background Processes tab. It was caused by incorrect translation and it is fixed so the translation could not cause it anymore.

### ◆ **ISSUE-305132 - Fixed a problem when rearranging attributes in Web UI user configurable views**

A problem has been fixed in the Web UI that occurred while rearranging attributes in Web UI user configurable views when the list was so long it required a scrollbar. When users tried to edit the order of columns in a view by dragging and dropping the attributes, the user could not control where the attributes were being placed.

**◆ ISSUE-305363 - Removed CSRF token from some URL requests from the Web UI**

The CSRF token from URLs (requests) from the Web UI has been removed if the property `Security.EnableCSRFProtectionForGetService` is set to false. This fix has also been backported to step-8.2-mp3 and step-8.3-mp3.

**◆ ISSUE-305585 - Corrected issue with GPC attribute group duplication**

A problem was occurring in the workbench System Setup when the attribute group 'GPC' is duplicated. The GPC attribute group contains some hidden references to internal system attributes. These attribute references were duplicated, too. If the user wanted to remove the duplicated attribute group, it was not possible because the references were hidden. The solution is that the hidden references to internal system attributes are not duplicated when an attribute group is duplicated. If already existing duplicated attribute groups have to be removed, customers should contact Stibo Systems for help.

**◆ ISSUE-305594 - Fixed an issue with Smartsheet imports that contain numeric ranges with spaces**

Fixed problem with Number Range-validated attribute values not being imported correctly using Smartsheets due to there being spaces within the numeric range, which display correctly when entered into the workbench by other methods.

**◆ ISSUE-305694 - Fixed DAM asset issue**

Added functionality to the Web UI asset servlet to enable it to detect the file extension from the content if it is not found in the system attribute `asset.extension`. This may be the case when using an external DAM system to store assets. This has been hotfixed to step-8.2-mp3.

**◆ ISSUE-305811 - Fixed IIEP import issue**

In STEP IIEP, it is possible to override import parameters for specified import folders. There was an error when it was not possible to use this feature. The error has been fixed.

**◆ ISSUE-306224 - Dead link on STEP API Documentation page fixed**

Fixed dead / wrong help link to 'Granting Access to the SDK and API Documentation' page on STEP API Documentation login page.

**◆ ISSUE-306260 - Fixed import reporting error**

Fixed a problem that occurred when a user tried to import an Excel file in workbench with a column mapped to a non-existing unique key value. During import, the BGP reported the wrong line number in which the error occurred. This was hotfixed to step-8.3-mp3.

**◆ ISSUE-306298 - Fixed empty attribute value validation error issue**

Fixed a problem occurring when empty attribute values with a RemoveIfEmpty recursive tag were not removed after Generic XML conversion. These tags appeared when an attribute did not have a value. In this case, XSD on GDSN Provider Data Pool failed with a validation error due to the tags without values. The empty tags are now removed from the output, eliminating the issue.

**◆ ISSUE-306644 - In-Memory search update**

In-Memory only: until now searching using equals (=) without units has always been text searches. A future release will ensure those searches are done numerically when the value is numeric for numeric validators. This will slow down the search but make it compatible with how such searches work without In-Memory. To revert to database mode search for searching using equals (=) against numeric values for attributes that have numeric validators, users should speak to their Stibo Systems representative for assistance.

**◆ ISSUE-306771 - Fixed a problem with the language selector in the Multi Language Screen of the Web UI**

A problem was occurring in the Web UI in Internet Explorer that caused the language selector in the Multi Language Screen of the Web UI to not allow the selection or deselection of languages. This has been fixed.

**◆ ISSUE-306956 - Fixed privilege issue**

Fixed possibility to set privileges to see parts: 'Ungrouped Reference by Products, Classifications and Entities' and 'Used on Page', on 'Reference By' tab for assets in workbench.

**◆ ISSUE-307016 - Fixed a glitch when clicking the 'back' button in the browser in the Web UI**

A problem has been fixed that was happening when users would navigate from the Advanced Search screen to the Product Details Screen with a Details Overlay, then navigate by a breadcrumb to the node parent and return by pressing the 'back' button in the browser. In this case, the Product Details Screen would flicker because of an infinite reload of Details Overlay.

**◆ ISSUE-307114 - Fixed a single update mode deadlock issue**

A session can already have a shared lock, when requesting an exclusive single update lock. A session can request the exclusive single update lock without a timeout. If two sessions both hold the shared lock and concurrently ask to upgrade it to an exclusive single update lock, both sessions will be deadlocked as neither of them will release their shared lock and both are waiting to get the exclusive lock. If both of the sessions are requesting the exclusive lock without a timeout, they will be deadlocked 'forever.'

To fix the problem scenario above, and in order to avoid multiple sessions being deadlocked on the exclusive single update lock 'forever,' a solution has been made such that only one session can wait for the exclusive lock without a timeout. The next session requesting the exclusive lock without a timeout will fail rather than wait for the exclusive lock. This way there can be no deadlock without a timeout. This has been hotfixed for 8.3-mp3.



◆ **ISSUE-307203 - Fixed a problem with incorrect search result warnings in Web UI**

A problem has been fixed that caused the Web UI Advanced Search screen to warn about large results when opening, closing, or otherwise working with the Detail Overlay configuration.

◆ **ISSUE-307289 - Web UI Data Container Editor Popup availability updated**

In a STEP 8.3-mp3 hotfix for this issue, a new Grouping Extended component has been introduced, which allows users to add the Grouping Option Extended component. This component allows users to display the Data Container Editor Popup component. For the spring 2018 (9.0) release, the Data Container Editor Popup (renamed to Data Container Attribute View Editor) and a new Data Container Table View Editor will both be available under the Grouping Component in Web UI. There is an issue where labels are not shown for Extension API components under the Grouping option, and this will be fixed in the next maintenance patch (step-9.0-mp1).

◆ **ISSUE-307472 - STEP'n'design Server: InDesign could crash if the scripting function openDocumentFromStepDb was called multiple times**

STEP'n'design Server: If a custom InDesign script called openDocumentFromStepDb multiple times, the InDesign renderer could crash. This has been resolved.

◆ **ISSUE-307483 - Fixed a permissions error in the Web UI that should not have been appearing**

A problem has been fixed in the Web UI that was causing the error message 'User is not allowed to view requested content' to appear. This error message should not have been appearing. This fix has also been backported to step-8.2-mp3.

◆ **ISSUE-307646 - Fixed an issue with assets being imported without name**

Fixed a setback from when the asset name was not displayed in the BGP report during asset import. This fix has also been backported to step-8.3-mp3.

◆ **ISSUE-307661 - Search performance improvement for inherited references**

A performance improvement has been implemented for drill down searches that are done when searching for inherited references. Previously, the system was not using the ideal execution plan for these types of searches.

◆ **ISSUE-307690 - Fixed component dialog resizing issues**

Fixed issue with the dialog used to configure various components in the designer where the OK and Cancel buttons would escape the dialog when it was resized.

◆ **ISSUE-307733 - Data Container Popup mandatory attributes and hover text fix**

Now mandatory attributes on the Data Container Popup editor will be marked as mandatory, and their availability will be checked properly. Additionally, another issue has been corrected: overlapping long texts

on Data Container Popup editor labels. Now they should be truncated, display an ellipsis, and the full text will be shown by hovering over them with the mouse cursor. This has been hotfixed to step-8.3-mp3.

◆ **ISSUE-308034 - Changed the size of the workbench application window upon initial launch**

When launching workbench for the first time, the application window will now be sized to the width of the main screen minus 200 pixels, then to the height of the main screen minus 200 pixels, and centered. Before, the application would launch with a fixed size of 800 x 580.

◆ **ISSUE-308036 - Fixed an issue with tooltip text that was not properly displaying in the Web UI**

An issue was occurring in the Web UI when users would hover their mouse cursor over attributes on data containers and references. The expected tooltip text was not displaying. Now, the specified help text will display.

◆ **ISSUE-308100 - Corrected slow exporting issue**

In some cases, exporting medium to large sets of data would take longer than necessary during compact soft value fetching. Previously, the system was not using the ideal execution plan for this type of export.

◆ **ISSUE-308253 - Fixed an issue in Web UI regarding an invalid error message about a Reference Header component**

In the Web UI, when launching the designer, an invalid error message about an unsupported component would display. This has been fixed by enabling a new feature for root nodes in the References Header component of the Web UI.

◆ **ISSUE-308257 - Corrected a bug with the Multi Context Screen**

When selecting contexts to see in the Multi Context Screen in the Web UI, the list exceeded the screen height if many contexts were added. The list uses the screen height as the maximum height, and adds a scrollbar when required.

◆ **ISSUE-308357 - Changed the workbench splash screen to '2018'**

The About STEP workbench splash screen has had the copyright date changed to 2018.

◆ **ISSUE-308368 - Fixed an issue with null values being returned for LOV values during survivorship of golden records**

A scripting API issue was occurring when accessing LOV values during survivorship of database golden records. This issue was causing these values to return null. This was being caused by LOV values not being copied correctly to NonPersistentObjects, such as merged golden records, which are shown on the Advanced Merge screen in the Web UI. This has been fixed.

◆ **ISSUE-308456 - Corrected issue causing failure of table definitions import**

Import of table definitions failure) happens when import of table definitions is made from the workbench. The problem is that some tables are damaged when import is made and only happens if an active key exists. A solution has been made to import all tables without damages.

◆ **ISSUE-308545 - Fixed an issue in Web UI related to the maintenance of multi-value metadata attributes in a reference list**

An issue was occurring in the Web UI within the Multi Reference component when displaying references and their defined metadata attributes. Users were unable to add values to multi-valued metadata attributes. This has been fixed.

◆ **ISSUE-308550 - Fixed an issue in STEP'n'design with crashes caused by a 'mount children' data source**

In InDesign, a problem was occurring if a product template was created with a frame using the data source of 'mount children.' If a product with child objects was mounted on an InDesign page and any of the child attributes had empty content, then InDesign would crash. The crash has been removed.

◆ **ISSUE-308866 - Enhanced the display of calculated attribute values in the Web UI to make them more readable**

The calculated attribute value rendering in the Web UI has been updated to be more readable for users. Previously, these values were difficult to read because they rendered in gray text on a gray background.

◆ **ISSUE-309004 - Corrected stylesheet loading issue**

Fixed an error in the Web UI, which resulted in no styles loading if a custom stylesheet with syntax errors was added to the system.

◆ **ISSUE-309060 - Fixed issue with widget OK button not activating**

In the Web UI Simple Importer Widget, when 'Import Configuration' is configured and 'Create products' option is selected, the 'OK' button was not available. This error has been fixed.

◆ **ISSUE-309080 - Corrected missing headers issue impacting Web UI**

An error has been fixed in regards to the Assign To Me Header and Assignee Header in the Web UI. The headers were not available for selection through the designer when setting up a Node List on an Advanced Search Screen. This has now been fixed and also hotfixed to step-8.3-mp3.

◆ **ISSUE-309100 - Fixed Headline component alignment**

In the Web UI Node Editor, the Headline component had an empty space on the left side (space for a non-existent label). This has been fixed and Headline component is left aligned now.

## ◆ **ISSUE-309101 - Fixed Static Html component alignment**

In the Web UI Node Editor, the Static Html component had an empty space on the left side, if there is no label used. This has been fixed. If the Static Html component is used without a label, it is left aligned now.

## ◆ **ISSUE-309103 - Fixed issue preventing conditional attribute usage**

Now, conditional attributes are available on Data Container Popup Editor.

## ◆ **ISSUE-309106 - Data Container Popup mandatory attributes fix**

Now, mandatory attributes on Data Container Popup editor will be marked as mandatory, and their availability will be checked properly. This has been hotfixed to step-8.3-mp3. Previously, there was no enforcement on mandatory attributes in a data container.

## ◆ **ISSUE-309334 - List of Values translation correction**

When a language dependent LOV list was sent to a translation from file – Translate – Setup Objects then the name of the LOV list was not made translatable. This has been fixed.

## ◆ **ISSUE-309340 - Corrected the CSS styling for the State Flow Variable Component**

State Flow Variable Component had inappropriate CSS styling. The fix adds stibo-Value and stibo-Value-Text styling to this component to make its appearance consistent with other components. This has been hotfixed to step-8.3-mp3.

## ◆ **ISSUE-309698 - Fixed styling issues on the Web UI Multi Context Screen**

Some styling issues were appearing on the Multi Context Screen for the context picker. This has been fixed.

## ◆ **ISSUE-309998 - IIEP import failure solution**

This problem was seen in the workbench: If an IIEP failed during an import using a hotfolder, then the input file was not copied to the failed folder. The file is now copied to the failed folder if the import fails.

## ◆ **ISSUE-310068 - Search update for Add Reference typeahead**

Fixed a problem occurring when typeahead search results lagged when using the Add Reference action on a Web UI Multi Reference screen. Removed unnecessary suggestions for empty values in the same search panel. This is hotfixed to step-8.3-mp3.

## ◆ **ISSUE-310262 - Corrected Homepage Widget bug**

There was a bug in the Homepage Widget Component's command dispatcher. The Async Callback was trying to cast an Trigger Listeners object to a Failure Handling Trigger Callback on callback failure for

handling. The fix includes passing the failed Throwable to the Trigger Callback instead, for failure handling. This has been hotfixed to step-8.3-mp3.

◆ **ISSUE-310343 - Fixed user asset duplication issue**

Fixed a setback causing a Null Pointer Exception (NPE) in some cases where the duplicate dialog is used in the STEP Workbench, preventing certain users from duplicating assets. This has been hotfixed to step-8.3-mp3.

◆ **ISSUE-310371 - Fixed a Multi Edit Display Mode issue**

The Multi Edit Display Mode in the Web UI allows customizing the columns displayed. When configuring the value header with a medium LOV attribute, strange things could happen when using the typeahead menu. This has been resolved and hotfixed to step-8.3-mp3.

◆ **ISSUE-310464 - Corrected an issue with unreadable text on the STEP Tasks palette in STEP'n'design**

STEP'n'design (Windows): The STEP Tasks palette was unreadable when the Interface Color Theme was set to Light or Medium Light. This has been fixed.

◆ **ISSUE-310493 - Updates to invoking an endpoint using REST API**

When uploading an import file to an Inbound Integration Endpoint using the REST API, the IIEP will automatically be invoked. If the REST API is used to make concurrent uploads, it can cause optimistic locking errors, because the integration endpoint poller is being modified concurrently. Therefore, an option to not automatically invoke the integration endpoint after uploading an import file to it, using the REST API, has been added. If multiple threads are uploading files via the REST API, it is better to turn off the auto invoke functionality in order to avoid optimistic locking errors. Instead the REST API call to invoke the integration endpoint in a more controlled manor can be used. It is also possible to simply schedule to the integration endpoint regularly, so it is not necessary to invoke it manually.

◆ **ISSUE-310597 - Corrected translation file removal issue**

Fixed a problem with ServerSideDelivery removing translation files from the BGP directory on the server during translation in workbench.

◆ **ISSUE-310729 - Config property default update**

The default value of the config property ApplicationServer.Type is now standalone as it is the only supported value.

◆ **ISSUE-310851 - Corrected trusted source issue**

Merge golden record: this fix makes sure that a trusted source is respected when applying the same attribute value update. This issue also relates to the 'Fixed an issue with null values being returned for LOV values during survivorship of golden records' bugfix. This has been hotfixed to step-8.3-mp3.

◆ **ISSUE-311092 - Fixed issue with non-editable Reference Metadata**

An issue was corrected that made metadata attribute values non-editable in Referenced By mode on Web UI's Multi Reference component. This has been hotfixed to step-8.3-mp3.

◆ **ISSUE-311186 - Sorting order correction for LOVs and Product Variants**

Product Variants produced errors sorting LOVs with both text and numbers. Changes to both workbench and Web UI have been made so that the sorting order is fully deterministic.

◆ **ISSUE-311280 - Corrected issue in Web UI and import translation**

The issue related to Web UI and a screen with an import translation. The screen configuration was being ignored, so the data was being imported in the wrong context. It should work as expected now.

◆ **ISSUE-311824 - Performance improvement to Golden Rule Matching**

A performance improvement to the Golden Rule Matching. The Survivorship Rule Plugin has been optimized. This has been hotfixed to step-8.3-mp3.

◆ **ISSUE-311999 - Fixed exception that occurred during import mapping**

Fixed null pointer exception that occurred during validation in the Simple Importer Widget.