



# RELEASE NOTES

Release 11.1

November 9, 2022

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# 11.1 Release Notes

These release notes describe the new, enhanced, and changed features provided with the release. Some changes may require action, so review these notes carefully. These notes complement the Stibo Systems Enterprise Platform (STEP) Online Help, which includes in-depth information on previously existing and new system functionality, including detailed explanations and step-by-step instructions for use, when appropriate.

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Fall 2022 release highlights:

- **Faceted Search** – providing a powerful and easy to use search interface for end users and a better experience for Administrators when managing their installations (Product MDM)
- **Simplified Data Exchange** – addressing companies need to send and receive complete data in an efficient, reliable, and consistent manner, with user-friendly formats and tools (Platform)
- **PDX / Product MDM Invitation Flow** – automating the process of inviting new vendors to create PDX accounts (PDX, Product MDM)
- **Match recommendations through ML** – improving operational efficiencies by automating repetitive data stewardship activities, providing the ability to filter by recommendations, and to perform bulk operations (Customer MDM)
- **Data Validity in Web UI** – improving the ability to deal with data structure complexities and processes which are particularly relevant for centralized party domain use cases (Customer MDM)
- **Enhancement Requests** – adapting to the changing needs of the market and our customers (All)

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Information regarding the enhancements above and a wide variety of other enhancements and changes are included in this release note set.

**Note:** Product Data Exchange (PDX) release notes are now available in the PDX standalone tool. Once logged into the tool, click Help Center > Documentation using the left navigation panel. Documentation, including release notes, will open in a new tab.

## Upgrade Guide and Maintenance Patches

In addition to the individual release notes, upgrading customers should read the 11.1 Upgrade Guide. This guide provides information that existing customers need to know prior to upgrading. This includes actions required for deprecated components and unsupported functionality.

***The Upgrade Guide includes information about actions that need to be taken prior to upgrading.***

If / when applicable at the time of your installation, read the maintenance patch notes for 11.1 to understand the full scope of changes for the 11.1 release and subsequent patches.

**Important:** Some functionality described within these notes is controlled via licenses and/or component installations and may not be available on your system. Questions should be directed to your Stibo Systems account manager or partner manager.

## Academy and Community Resources

### Stibo Systems Academy

Stibo Systems Master Data Management (MDM) Academy offers customer and partner hands-on training options to expand your knowledge on Stibo Systems MDM solutions. Information regarding our certification programs and specific classes can be found on our website: <https://www.stibosystems.com/services-support/mdm-academy>.

### Stibo Systems Communities

All customers and partners are encouraged to join their respective Stibo Systems Communities to collaborate with other users. These release notes and other release materials, including videos, are also available within each Community.

**Customers:** <https://www.stibosystems.com/online-community>

**Partners:** <https://www.stibosystems.com/partners/partner-community>

## Installation Recipe

The baseline can be installed using this command:

```
spot --upgrade=step:11.1
```

For on-premise systems, refer to the SPOT Program documentation for more information, including how to use the SPOT `--upgrade` command to also find compatible components that can be added at the same time as the baseline patch (`--upgrade=all`) in the SPOT Program topic of the System Administration Guide found in Downloadable Documentation. For assistance, contact Stibo Systems Technical Services. For SaaS systems, contact your Stibo Systems account manager. For customers that have custom add-on components and/or if Stibo Systems Support is deploying your system upgrades and patches, submit an upgrade request via the Support Portal.

*This document is intended for use by active Stibo Systems Enterprise Platform (STEP) users and partners and describes the above and other new functionality and improvements in greater detail. It does not serve as a replacement for the Online Help, which includes additional information on previously existing and new system functionality, as well as more detailed explanations and step-by-step instructions for use, when appropriate.*

# 11.1 Upgrade Guide

## Summary

There are many benefits to keeping your current system upgraded. And, remember that upgrades are made easy with SaaS!

- Get the latest and greatest to stay ahead of your competition
- Improve the user experience and increase both productivity and efficiency
- Stay current with releases for security and supportability
- Support new business initiatives
- Benefit from improved system performances

**Customer action may be required.** Before upgrading the platform and its add-on components, there are certain system changes that customers need to be aware of when moving to 11.1 from an earlier version. The list that follows may not be comprehensive; however, along with the full release note set, it provides a starting point for upgrade evaluation.

For on-prem deployed systems, it is always recommended to use the latest released version of SPOT (regardless of the current STEP version in use). If upgrading via the --upgrade command, using the latest SPOT version is required.

## Details

### Improved SaaS migration performance

By default, State Log entries for products, entities, and classifications are now limited to 93 days to improve performance in STEP. While this new State Log history maintenance is automatic after 93 days, prior to the 11.1 upgrade, admins can increase or decrease the number of days of entries to be kept. Once the system upgrade is complete with the new setting, entries older than the limit are flagged for deletion, removed completely when system resources are available, and cannot be retrieved. When planning a migration from on-premise to SaaS, do not increase the 93-day setting, and consider reducing it to streamline the data transfer process.

Additionally, multiple threads are now used to import collections, which can reduce the overall time for a SaaS migration.

For more information, refer to the General Enhancements and Changes release note for 11.1.

## New deleted object handling and automated connection / concurrency error handling in event processors and integrations

All event processors (EPs) now handle events for an object in the recycle bin by skipping the event, which allows the system to continue processing after attempting to process an event for a deleted object. For EPs that run business actions ('Execute Business Action' and the 'Execute Business Action for Event Batch'), a new 'Skip Deleted Nodes' parameter is set to 'No' to continue current functionality, which may include handling for deleted objects via JavaScript. All other processor types automatically skip deleted objects.

Updates to handle connection errors are now available for both inbound and outbound integration endpoints (IEPs) as well as event processors (EPs) and concurrency error retries are available for EPs. These updates reduce the manual intervention required to restart processing and the time delays previously experienced after connection and concurrency error failures. For all new and existing EPs, connection error handling is enabled by default with a 30 day retry duration – this should be reviewed and updated with an appropriate retry duration to suit each EP.

For more information on additional changes, refer to the Data Exchange Enhancements and Changes release note for 11.1.

## New automatic cleanup of IIEP files

At upgrade, older IIEP files are removed. **Before upgrading, review IIEP files (those that were imported successfully or that failed to import) and determine if they should be kept after upgrade.** To prevent deletion of older files, manually move the files to a new directory on the application server. Once upgraded to 11.1, IIEP import files are automatically deleted based on new parameters in the IIEP wizard. For more information, refer to the Data Exchange Enhancements and Changes release note for 11.1.

## Upgrade of internal numeric fields

Internal numeric fields are upgraded in 11.1 to their 64-bit equivalents to provide more capacity for data and prevent unplanned downtime. The change will add some time to the upgrade, measured in minutes, which will vary based on the size of the database tables with affected fields.

## Change in Web UI components for exporting empty values

In Web UI, the 'Export Empty Fields' parameter in Web UI Design Mode is now included for the Export Current View component and the Custom Export component configuration dialogs. By default, the parameter is disabled since exporting empty fields can increase the time for the background process to complete. As empty fields were previously exported automatically, admins should evaluate the configuration of these components to ensure the expected functionality after upgrade.

## Derived events now display user-defined ID

Derived events now display the user-defined ID on an event queue list to improve testing and troubleshooting processes. The user-defined ID is also now exposed in SOAP API responses as the new 'eventTypeName' element. While the functionality of existing integrations using 'eventType' are unchanged, it is recommended



to use 'eventTypeName' instead since it will not change between environments and is easily identifiable. For more information, refer to the General Enhancements and Changes release note for 11.1.

## New Loqate Local data packages update process for SaaS and on-premise deployments

The update process for Loqate Local data packages has been greatly improved for both SaaS and on-premise deployments. Customers with SaaS deployments no longer need to do anything to update; their systems will update regularly. Customers with on-premise deployments should follow the steps laid out in the Loqate Local License & Data Pack Update topic in the Data Integration documentation.

**Loqate reference data packs must also be updated on a regular basis (regardless of deployment type), even when not upgrading to a new version of STEP. Loqate provides a quarterly release. This release will typically include updates to the Knowledge base (GKR) and often also reference data. Loqate's release schedule can be found on their site: <https://support.loqate.com/release-information/>**

For more information, refer to the Loqate Integration topic in the Data Integration documentation.

## Support, platform, and system admin information

The following items are desupported or removed with the 11.1. release (or as indicated):

- macOS Catalina (10.15) support ends with this release.
- Support for the 9.2 version of STEP ended August 1, 2022.
- Support for the 9.3 version of STEP ended November 1, 2022.

**Note:** Support for the 10.0 version ends May 1, 2023, and support for 10.1 ends December 1, 2023.

Platform and Software Support information can be found in the 11.1 Platform Support and Software Support section. And, the latest changes included with this release can be found in Platform and Software Support Changes section of this release note set.

## Superseded, Withdrawn, and Deleted components

Some components are moving into a new stage within the component removal lifecycle with the 11.0 release. The purpose of these component status changes is to simplify the component list, minimize support on components that have an improved substitute, and to remove clutter and uncertainty as to which component (s) to use. **For users, this means that after components are superseded, they are later withdrawn (also referred to as deprecated). Previously withdrawn components are now being removed (status = deleted). Alternate components have previously been announced, and it is very important for customers to make sure they are using those recommended components prior to upgrade.**

- The ECLASS Advanced Screen is superseded and will be withdrawn in a future release. Read about the new ECLASS Advanced Editor Screen in the Data Exchange Enhancements and Changes release note in the 11.1 release note set.

**Important:** Prior to upgrade, customers should be aware of any maintenance patch updates that came out in earlier releases. The projects below were covered in the maintenance patch notes for 11.0, which can be accessed via the 11.0 Release section within the 11.0 Maintenance Patch Notes section of the documentation.

## New features incorporated via 11.0 maintenance patches\*

- ECLASS Import Message Updates (11.0-MP4 and 11.0-MP2)
- PDX Onboarding for Accelerator for Retail and Supplier Onboarding (11.0-MP4)
- New Uptime Report for SaaS Self-Service production systems (11.0-MP4)
- New Online Help Home Page (11.0-MP2)
- Enforce Validity for Add Action in Data Container (11.0-MP2)
- No white space around Summary Card thumbnail image (11.0-MP2)
- User to change their own password in Web UI without Maintain user password setup action (11.0-MP2)
- SPOT logs are now available from the Admin Portal (11.0-MP2)
- DaaS Publisher allows writing Last Published date / time to nodes (11.0-MP2)
- Asset Publisher includes a new option for processing delete events to manage blob storage (11.0-MP1)

\*11.0-MP3 was a hotfix only maintenance patch, and no new features were released.

# Customer MDM and Supplier MDM Enhancements and Changes

## Summary

The following enhancements have been made to the Customer and Supplier Master Data Management solution with the 11.1 release. These updates are outlined below and described in the Details section that follows:

- The **Loqate Data Package Update** process has been simplified for SaaS and on-premise deployments.
- The **Machine Learning Matching Agent** for Clerical Review is now generally available.
- New **filtering options** for Clerical Review have been introduced.
- The **Source System Information column** in Clerical Review has been modified to allow for filtering and to show more information.
- A **'Select All' button** has been added to Clerical Review, and bulk updates will now run as background processes.
- **Copy and paste functionalities** have been added to Clerical Review.
- The **Matching - Merge Golden Record** component model has been modified to have further protections.

## Details

### New Loqate Local data packages update process for SaaS and on-premise deployments

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For more information, refer to the Loqate Integration topic in the Data Integration documentation.

### Machine Learning Matching Agent for Clerical Review is generally available

The Machine Learning Matching Agent (MLMA) is now generally available. The matching agent works alongside the daily activities of the data steward by observing their duplicate review decisions during clerical review sessions and continuously refines its learning.

Golden Record Clerical Review Task List						
<span>Clear all</span> <span>Advanced Merge</span> <span>Merge</span> <span>Reassign</span> <span>Reject</span>						
Task	Assignee	Recommendation	Created	Golden Record		
<input checked="" type="checkbox"/> Assignee: Users Created: 9/16/22 Merge	Users	Merge	9/16/22, 1:30:06 PM	ID: 16046422 • Match Score: -- Created: 9/16/22 • Updated: 9/16/22		
				ID: 16045973 • Match Score: N/A Created: 9/16/22 • Updated: 9/16/22		
<input checked="" type="checkbox"/> Assignee: Users Created: 9/16/22 Merge	Users	Merge	9/16/22, 1:30:06 PM	ID: 16047209 • Match Score: -- Created: 9/16/22 • Updated: 9/16/22		
				ID: 16047980 • Match Score: 50 Created: 9/16/22 • Updated: 9/16/22		
				ID: 16047207 • Match Score: N/A Created: 9/16/22 • Updated: 9/16/22		
<input checked="" type="checkbox"/> Assignee: Users Created: 9/16/22 Merge	Users	Merge	9/16/22, 1:30:06 PM	ID: 16047136 • Match Score: -- Created: 9/16/22 • Updated: 9/16/22		
				ID: 16047922 • Match Score: 50 Created: 9/16/22 • Updated: 9/16/22		
				ID: 16047155 • Match Score: 50 Created: 9/16/22 • Updated: 9/16/22		

As the data steward continues to review the task list, the MLMA provides merge and reject recommendations, which cover more of the clerical review task list backlog over time. Eventually, the MLMA will have identified sufficient patterns to replicate the data steward's decision-making process. At this point, the data steward can use a combination of the new task list filter on the matching agent recommendation, the 'Select all' button, and the bulk update action to automatically resolve large sections of the clerical review backlog, relieving them of making the same tedious decisions and leaving them free to focus on other activities.

**New filtering options in Clerical Review**

In the previous release, filtering was introduced to the Golden Record Clerical Review Task List, allowing users to filter based on attributes and match scores. Now, this feature has been expanded to include filtering on Assignee, Created in Workflow Date, Merge / Reject Recommendations, and Source System (for more information on Source System filtering, refer to the following 'Filtering on the Source Information Header in Clerical Review' section).

**Golden Record Clerical Review Task List**

Select all   Advanced Merge   Merge   Reassign   Reject   Put onhold

Task	Assignee	Recommendation	Created
<input type="checkbox"/> Assignee: Users Created: 9/1/22 <b>Reject</b>	Users	Reject	9/1/22, 2:52:18 PM

Additionally, to be able to filter on match recommendations, a new MatchRecommendation workflow variable in the Clerical Review workflow must be created and stored on a MatchAgentRecommendation attribute.

For more information on filtering, refer to the Golden Record Clerical Review Task List topic in the Matching, Linking, and Merging documentation.

For more information on configuring filtering on match recommendations, refer to the Configuring the Clerical Review Workflow for MLMA topic in the Matching, Linking, and Merging documentation.

### Filtering on the Source Information Header in Clerical Review

Previously, the Source Information Header in a Golden Record Clerical Review Task List only showed the source system that a record originated from prior to being initiated into STEP. Now, the Source Information Header enables the data steward to filter the Task List by the source record information based on the value of the source record ID or the name of the source system itself. Furthermore, each row in this header will contain both the source system name and the source record ID.

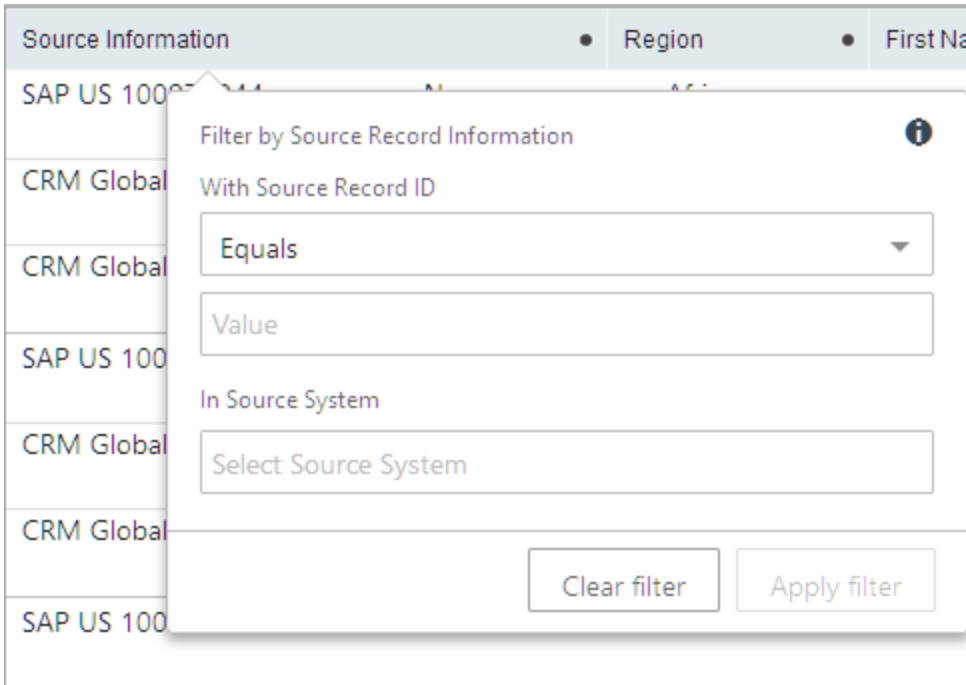
**Golden Record Clerical Review Task List**

Select all   Advanced Merge   Merge   Reassign   Reject   Submit

⚠ Not all potential duplicates are shown for all tasks.

Task	Golden Record	Source Information	Main Address	First Name	Last Name	Phone
<input type="checkbox"/> Assignee: Users Created: 3/1/22 <b>Reject</b>	ID: 820028 • Match Score: -- Created: 2/2/22 • Updated: 2/9/22	SAP US 100970364	309 Hollywood...	Richard	Steel	(239) 449-685...
	ID: 820269 • Match Score: 42.5 Created: 2/2/22 • Updated: 2/9/22	SAP US 100971707	309 S Hollywo...	Rick	Steel	(230) 412-546...
<input type="checkbox"/> Assignee: Users Created: 3/1/22 <b>Merge</b>	ID: 820096 • Match Score: -- Created: 2/2/22 • Updated: 2/9/22	CRM Global 200970364	36 Garden St A...	Jonathan	Fullgum	(555) 169-4619
	ID: 820268 • Match Score: 50 Created: 2/2/22 • Updated: 2/9/22	CRM Global 200971707	36 Garden St A...	John	Fullgum	(900) 140-6953

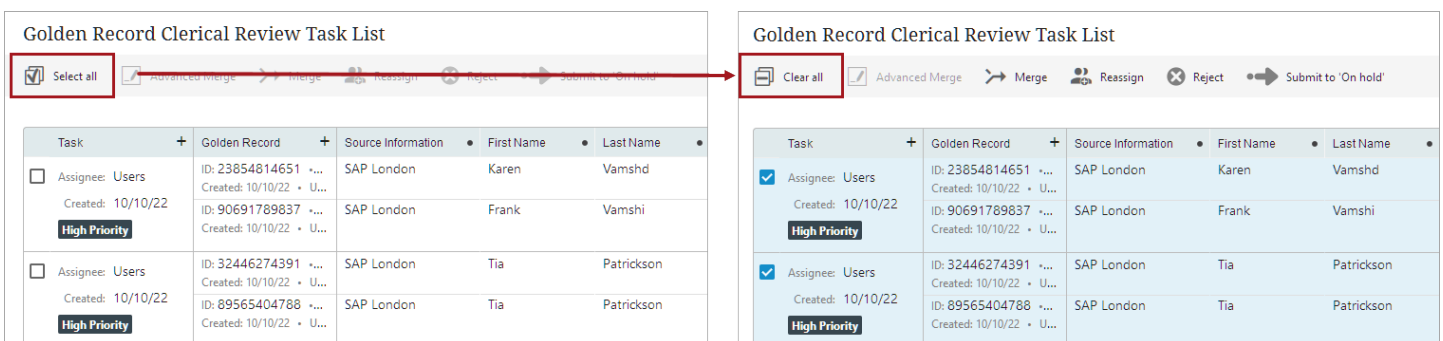
Filterable values can be sorted based on one of three conditions: 'Equals,' 'Begins with,' and 'Contains'. These conditions allow the user to filter information based on, respectively, whether the source record ID equals an exact match, begins with specific characters, or contains specific characters.



For more information, refer to the Golden Record Clerical Review Task List topic in the Matching, Linking, and Merging documentation.

## Clerical Review Task List 'Select All' and actions as bulk update background processes

In the Clerical Review Task List, a 'Select all' button that operates on all tasks in the list (respecting any filters applied) has been added. Additionally, when using the merge, reject, reassign, or submit action on 10 or more selected tasks, the operation will now run as a background process (BGP), giving users the ability to continue working in the user interface even while the operation is running.



For more information, refer to the Golden Record Clerical Review Task List topic in the Matching, Linking, and Merging documentation.

## Copy and paste values from the Clerical Review Task List

With this release, users can now copy values from the table on a Golden Record Clerical Review Task List screen and paste them into Excel or CSV files. The copy and paste functions are available for both single and multiple cells.

This update in functionality does *not* include the ability to copy and paste content from the Advanced Merge screen.

For more information, refer to the Golden Record Clerical Review Task List topic in the Matching, Linking, and Merging documentation.

## Matching - Merge Golden Record component model protections extended

The Matching - Merge Golden Record component model has been improved to reduce errors during configuration. If a user attempts to make an attribute or reference belonging to the component model valid for an object outside the component model, they will receive a configuration warning on all matching algorithms using those attributes and references. This ensures that all objects owned by the component model are protected from incorrect use.

**When upgrading to STEP version 11.1, if the user uses a business rule to change any of the protected attributes or references, it will generate an error, and the system will be unable to complete its task.**

For more information, refer to the Configuring the Matching - Merge Golden Record Component Model topic in the Matching, Linking, and Merging documentation.

# Data Exchange Enhancements and Changes

## Summary

The following enhancements to STEP's data exchange functionality have been made as part of the 11.1 release. These updates are outlined below and described in the Details section that follows:

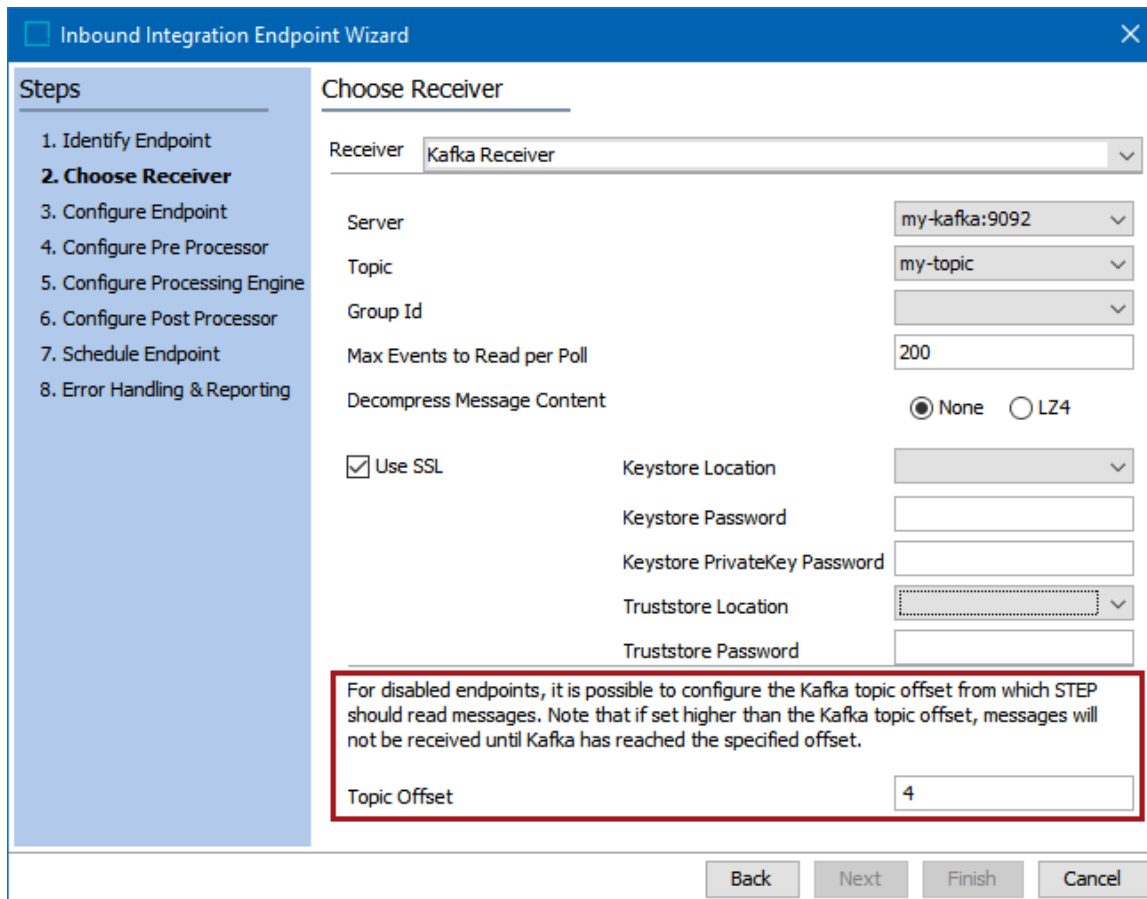
- Updates to the **Kafka integration** include improvements for Kafka Receiver functionality and support for the latest version.
- **Excel and CSV** data exchange has new mapping options for references and product-to-classification links (including their metadata) and data containers. These new mapping options result in a better user experience during mapping and an easier-to-understand layout in the Excel or CSV file.
- Exports using the CSV file format now allow **removing headers** to streamline data transfer and avoid manual manipulation of files for downstream systems that cannot consume a header.
- The **asset push sidecar** client can now communicate with the STEP server via HTTP, HTTPS, and SOCKS proxy servers.
- New configurable IIEP properties support **automatic cleanup of files** and allow admins to automatically delete successful files while errored files can be retained for troubleshooting.
- New **automated error handling** and **improved notification options** on inbound and outbound integration endpoints (IEPs) and event processors (EPs) reduce process failures, reduce required manual intervention for failed processing, and improve management of processors.
- Outbound integration endpoints (OIEPs) and event processors (EPs) now include a better estimate for the number of events displayed in the '**Unread events (approximated)**' parameter on SaaS systems.
- The OIEP **Business Rule Based Message Processor** now processes the nodes within a collection when the data source is Select Objects, and a collection object type is selected.
- Multiple certificates and/or keystores can be defined and individually selected for outbound integration endpoints (OIEPs) and gateway integration endpoints (GIEPs) that use **Mutual Transport Layer Security (mTLS)** authentication. Admins can now define a certificate / keystore for each integration, including those for a third party.
- Industry standard updates include support for the **newest versions** of ECLASS Basic, ETIM, UNSPSC, and GS1 GDSN.
- The **ECLASS Advanced Editor** Screen is now available for editing ECLASS data. This screen improves upon and supersedes the view-only ECLASS Advanced Screen.
- The IEP Transactional Setting parameter for processing in **Chain mode** is planned to be deprecated in a future release.



## Details

### Kafka integration improvements

Updates for the Kafka Receiver used in the workbench Inbound Integration Endpoint (IIEP) Wizard dialog now allows admins to monitor and modify the Topic Offset. The Topic Offset tracks the sequential order that messages are received by Kafka topics. Disabling the IIEP allows the offset to be changed, which gives admins the ability to reprocess failed messages.



**Inbound Integration Endpoint Wizard**

**Steps**

1. Identify Endpoint
- 2. Choose Receiver**
3. Configure Endpoint
4. Configure Pre Processor
5. Configure Processing Engine
6. Configure Post Processor
7. Schedule Endpoint
8. Error Handling & Reporting

**Choose Receiver**

Receiver: **Kafka Receiver**

Server: my-kafka:9092

Topic: my-topic

Group Id: [Empty]

Max Events to Read per Poll: 200

Decompress Message Content:  None  LZ4

Use SSL

Keystore Location: [Empty]

Keystore Password: [Empty]

Keystore PrivateKey Password: [Empty]

Truststore Location: [Empty]

Truststore Password: [Empty]

**For disabled endpoints, it is possible to configure the Kafka topic offset from which STEP should read messages. Note that if set higher than the Kafka topic offset, messages will not be received until Kafka has reached the specified offset.**

Topic Offset: 4

Back Next Finish Cancel

The Kafka Receiver execution report is also improved for these scenarios:

- When the Kafka broker is not running, the IIEP fails, and the number of logged entries is reduced since no messages are processed.
- When the Kafka broker is running but no messages are retrieved, the logged entry reports the number of events, the Topic, and the Topic Offset.

Additionally, both the Kafka Receiver and the Kafka Delivery Method now support the latest versions of Apache Kafka software.

For more information, refer to the Kafka Receiver topic and the Kafka Delivery Method topic, both in the Data Exchange documentation.

## Improved format for complex data imports and exports using Excel and CSV

Data exchange using the Excel and CSV formats can now take advantage of a better file layout for references and product-classification links (and any metadata) and data containers owned by the objects being imported or exported. The new easily readable file layout makes user-validation and editing faster and simpler by allowing users to easily associate complex data structures with their corresponding values when using import manager, export manager, and inbound and outbound integration endpoints.

The new Excel or CSV file layout for both inbound and outbound displays each object on an individual row. The new 'Data Type' source column indicates how the data is related. Target data objects for the imported or exported object are displayed on individual rows following the 'Data Type' source identified by the 'NODE' text. Metadata attribute values are displayed in the appropriate column for the rows to which it belongs.

A	B	C	D	E	F	G	H	I	J	K	L	M
<ID>	<Name>	<Data Type>	<Data Owner Node>	<Reference Type ID>	<Reference Target ID>	Effective Date	Order Lead Time	<Data Container Type ID>	<Data Container ID>	License Type	Start Date	End Date
380182	Crayola Colored Pens, 12 Count	NODE				2012-12-12						
		REFERENCE	380182	ProductToSupplierLink	Supplier_AllGoods	2022-01-01	4 weeks					
		REFERENCE	380182	ProductToSupplierLink	AcmeSupplier	2022-01-01	2 weeks					
		DATA_CONTAINER	380182					DC_License	380207	Trial	2022-01-01	2022-03-01
		DATA_CONTAINER	380182					DC_License	380206	Fixed Duration	2022-03-01	2022-12-31
380183	Crayola Colored Pens, 24 Count	NODE										
		REFERENCE	380183	ProductToSupplierLink	Supplier_AllGoods	2022-01-01	2 weeks					
		REFERENCE	380183	ProductToSupplierLink	Supplier_AtoZ	2022-06-01	4 weeks					
		DATA_CONTAINER	380183					DC_License	380214	Temporary	2021-03-26	2021-04-26

The 'Map Data' step for Import Manager, Export Manager, inbound and outbound integration endpoints includes new options for products, entities, classifications, and assets that make it easier to identify the data being received or generated by STEP.

Using new data source options, the format layout improvements include the ability to import and export:

- Reference target ID, name, key, and metadata on the reference
- Product-classification link target ID, name, key, and metadata on the link
- Data container values

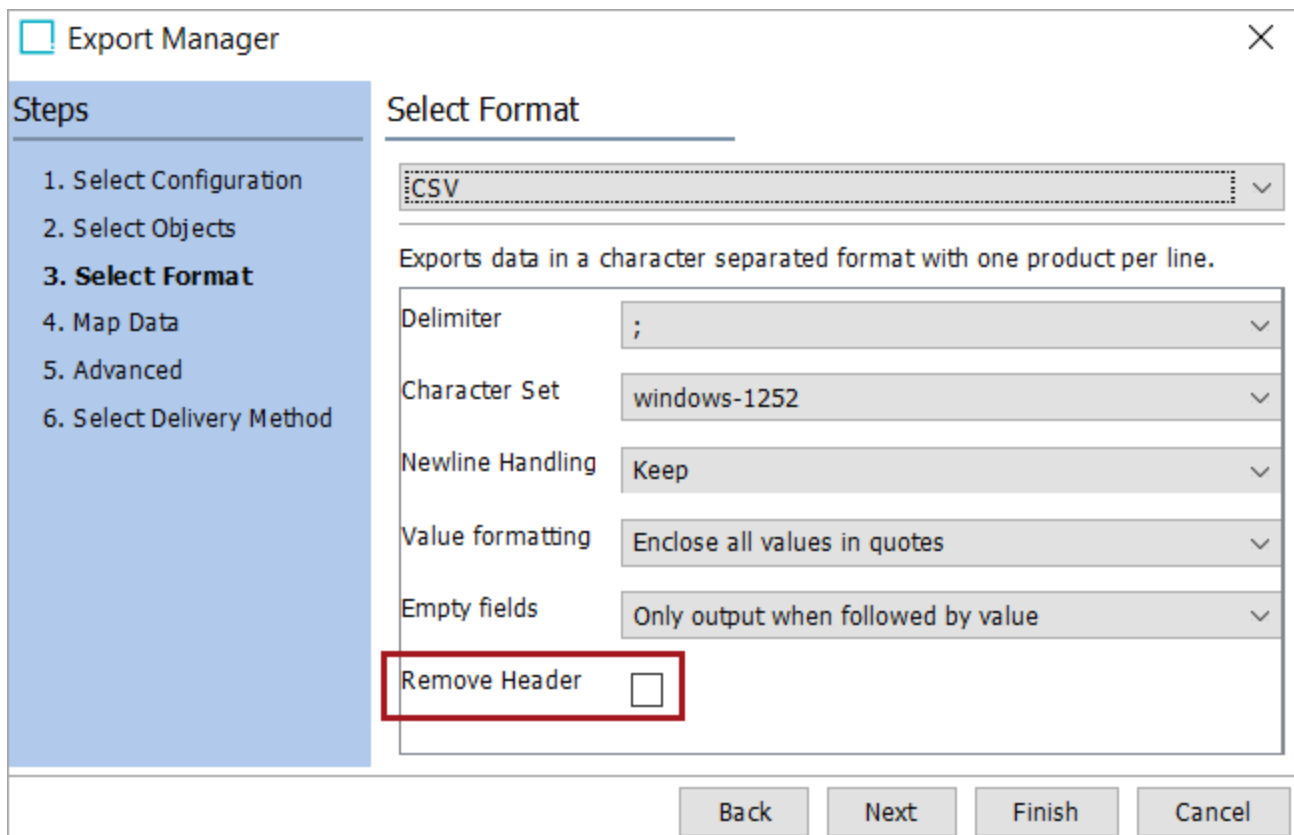
Also, using the new data sources, now data container references (the target ID and name) can also be imported and exported in the improved file layout.

The screenshots illustrate the configuration of data sources in the Import and Export Manager. In the Import Manager, the 'Map Data' step shows a table with columns for <ID>, <Name>, <Data Type>, <Parent ID>, <Object Type ID>, and <Reference Type ID>. A dialog box titled 'Map <Reference Type ID> to' is open, showing options to map the reference type ID to 'Data Type', 'Reference Type ID', 'Reference Target', 'Data Container Type ID', or 'Data Container ID'. The 'Inserted References / Data Containers' option is highlighted. In the Export Manager, the 'Map Data' step shows a list of data sources including 'Product Override Child ID', '<is deleted>', '<Constant Value>', '<Page Number>', 'All Attributes', 'Select Attribute', 'Classifications', 'Index Words', 'Product Classification Links', 'Product References', 'Asset References', 'Classification References', 'Entity References', 'STEP Workflow Task Info', 'Business Functions', 'Multi level References', 'Multi level Parent attributes', 'Multi level Referenced Objects', 'Insert Referenced Objects', 'Custom Attributes', and 'System Setup'. The 'System Setup' section is expanded, showing 'Inserted References / Data Containers' selected, with sub-options for '<Data Type>', '<Data Owner Node>', '<Reference Type ID>', '<Data Container Type ID>', 'Insert References', and 'Insert Data Containers'.

For additional documentation, refer to the Outbound Map Data - Data Source and the Inbound Map Data - Map topics, both in the Data Exchange documentation.

## Remove header for CSV format

The new 'Remove Header' parameter in the CSV file format in Export Manager and outbound integration endpoint streamlines data transfer and avoids manual manipulation of files for downstream systems that cannot consume a header. When a user exports data using CSV file format with the Remove Header parameter selected, the mapped data is exported and separated by the delimiter, but the headers are not exported. By default, the Remove Header option is not selected.



The screenshot shows the 'Export Manager' dialog box with the 'Select Format' step active. The 'CSV' format is selected in the dropdown menu. Below the dropdown, there is a description: 'Exports data in a character separated format with one product per line.' The configuration options are as follows:

Delimiter	;
Character Set	windows-1252
Newline Handling	Keep
Value formatting	Enclose all values in quotes
Empty fields	Only output when followed by value
Remove Header	<input type="checkbox"/>

At the bottom of the dialog, there are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'.

For more information, refer to the CSV Format topic in the Data Exchange documentation.

## HTTP, HTTPS, and SOCKS proxy support available for asset push sidecars

The asset push sidecar client can now communicate with the STEP server via HTTP, HTTPS, and SOCKS proxy servers with optional authentication.

For more information, refer to the Installing an Asset Push Sidecar topic in the Digital Assets documentation.

## Automatic cleanup of files for inbound integration endpoints

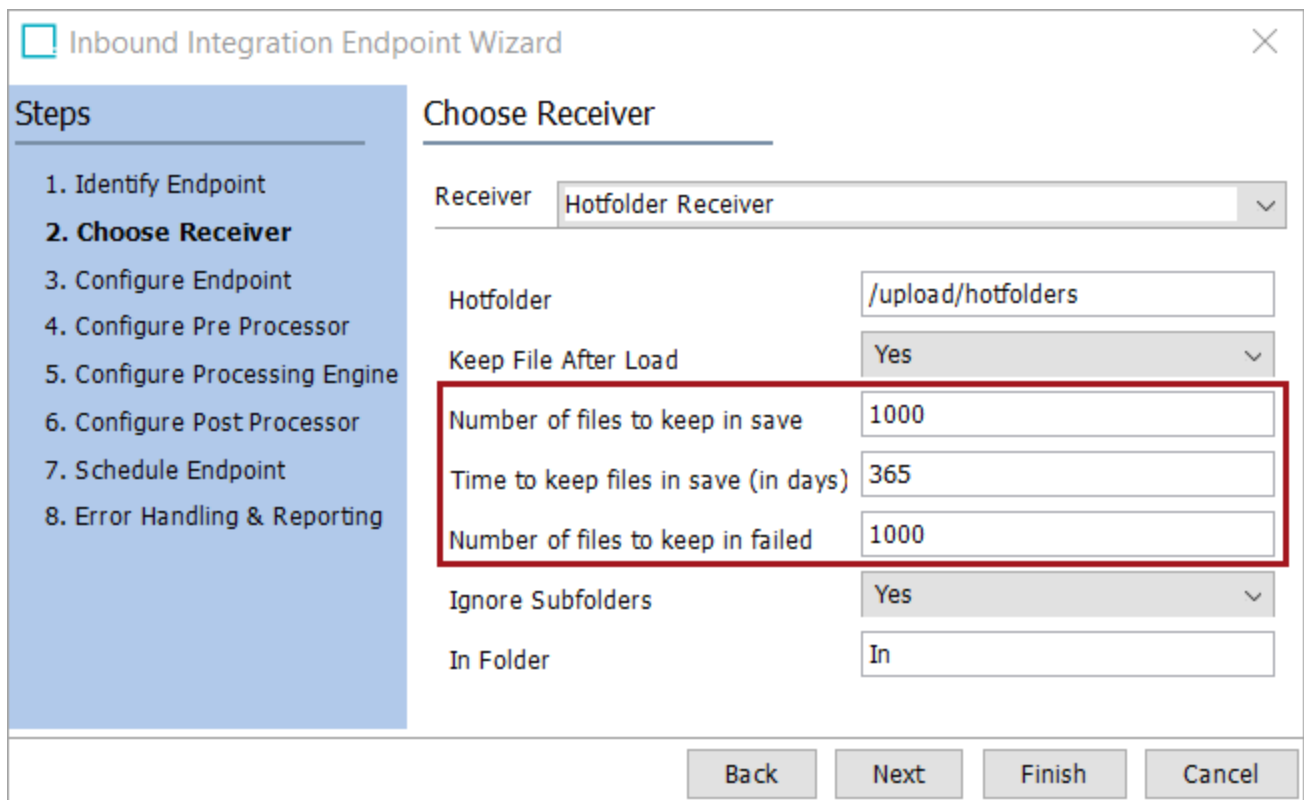
Typically, there is little need to retain inbound files that are processed successfully by an inbound integration endpoint (IIEP), particularly since high volumes of files can take up a lot of space on the server. Retaining files that failed, however, is beneficial since it allows time to troubleshoot and process the file again. Previously, additional maintenance effort was required to manage files delivered for processing via the hotfolder and REST receivers.

Now, for the following IIEP receiver methods, new parameters allow automatic deletion of files in the Save and the Failed folders with separate retention settings:

- Hotfolder Receiver
- Hotfolder using file sequence
- Hotfolder using meta files
- REST Receiver

The new automatic cleanup functionality in the Choose Receiver wizard step includes settings for:

- The Save folder - the 'Number of files to keep in save' parameter can save up to 1,000 files and the 'Time to keep files in save (in days)' parameter can save files for up to 365 days.
- The Failed folder - the 'Number of files to keep in failed' parameter can save up to 1,000 files.



**Inbound Integration Endpoint Wizard**

**Steps**

1. Identify Endpoint
- 2. Choose Receiver**
3. Configure Endpoint
4. Configure Pre Processor
5. Configure Processing Engine
6. Configure Post Processor
7. Schedule Endpoint
8. Error Handling & Reporting

**Choose Receiver**

Receiver:

Hotfolder:

Keep File After Load:

Number of files to keep in save:

Time to keep files in save (in days):

Number of files to keep in failed:

Ignore Subfolders:

In Folder:

Buttons: Back, Next, Finish, Cancel

The maximum settings are automatically applied to every IIEP upon upgrade to 11.1. **Upon upgrade to 11.1, only 1,000 IIEP import files, and none older than 365 days, are retained. All other IIEP files are deleted.** Before performing the 11.1 upgrade, review the IIEP files and store any files to be kept in a location outside of the defined Save and Failed folders.

For more information, refer to the Inbound Integration Endpoints topic in the Data Exchange documentation.

## New automated error handling and improved notification options on IEPs and EPs

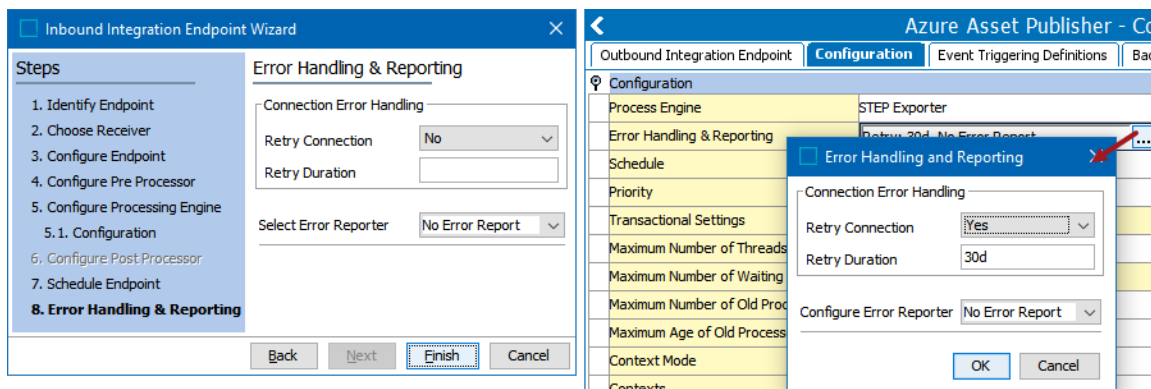
Inbound and outbound integration endpoints (IEPs) and event processors (EPs) include updates to reduce the overall downtime. The improvements include:

- Reduced manual intervention required to restart processing after connection errors via the new 'Retry Connection' parameter.
- Reduced manual intervention required to restart processing after concurrency errors via 'Retry Concurrency Errors' parameter.
- Notification of processing error and warning alerts sent to the appropriate users via expanded email notification options.
- Eliminated process failures related to deleted objects via the new 'Skip Deleted Nodes' option as well as embedded deletion handling.

### Automated retries for connection errors

When configured, connection errors (not authentication issues) that are encountered in inbound and outbound integration endpoints (IEPs) and event processors (EPs) can be automatically retried.

The new Connection Error Handling parameters are included on IEPs (shown below) and EPs (shown in the following section) that allow for an external connection. When the external system is unavailable, the IEP and EP can now initiate automated reconnection attempts. Connection error handling can be used when credentials are successfully authenticated but delivery fails on HTTP-based receiver and delivery options.



Set the Retry Connection parameter to 'Yes' and set the Retry Duration to define how long each retry process should continue while the endpoint or event processor is in a 'Failed (retrying)' state. Wait times are increased between each retry to avoid degraded performance, improve the likelihood that the issue can be resolved

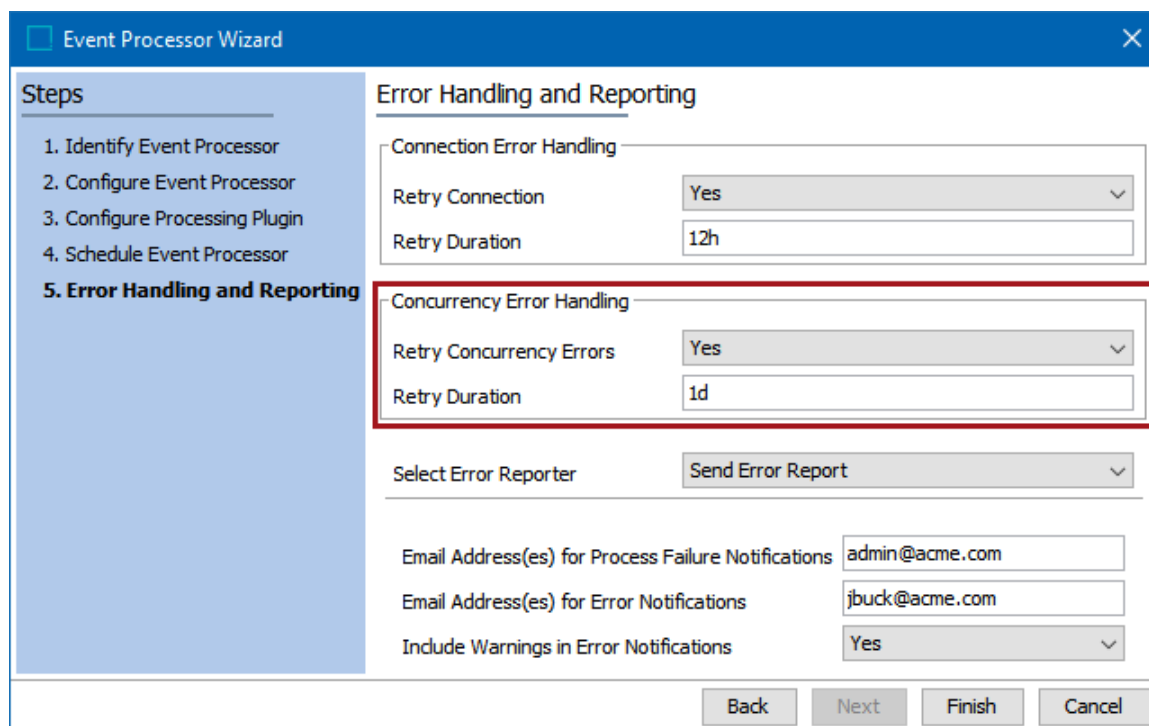
within the 'Retry Duration' time frame, and allow other processes to run as the system has available resources. Once the 'Retry Duration' has expired, if the issue continues, the IEP or EP fails, and email alerts are distributed based on the error reporter settings.

Upon upgrade, review existing endpoints and event processors with the following HTTP-based delivery or receiver options to determine the suitability of enabling the Retry Connection option: Amazon SQS, Cloud Blob Storage, Elastic Search, Git Delivery, Kafka, REST, REST Direct, and SFTP. (SFTP and Git Delivery connection retries fail immediately if connections are interrupted mid-transfer or if there are slow server response times, since these types of issues cannot be distinguished from authentication errors.)

- For all new and existing IEPs, connection error handling is disabled by default so that administrators can decide when and where to apply this feature based on the selected delivery or receiver support for automated connection retries.
- For all new and existing EPs, connection error handling is enabled by default with a 30 day Retry Duration to support backwards compatibility with some processors that already included built in connection retry mechanisms. Review and change the Retry Duration to suit each configured EP.
- Entries in the sharedconfig.properties file that control connection retries (such as those for the Email, REST Direct, and JMS delivery methods) continue to be effective and are applied prior to the new 'Retry Connection' parameter settings.

### Automated retries for concurrency errors

The new Concurrency Error Handling parameters are valid for EPs and allow for automatic retries of transactions that encounter optimistic locking errors. For example, concurrency errors can occur when an event processor attempts to commit a transaction, but the object is already being modified by another user or process. These typically occur when there is a high level of activity on the system and/or long-running business actions.



The screenshot shows the 'Event Processor Wizard' window, specifically the 'Error Handling and Reporting' step. The 'Steps' pane on the left lists: 1. Identify Event Processor, 2. Configure Event Processor, 3. Configure Processing Plugin, 4. Schedule Event Processor, and 5. Error Handling and Reporting (which is currently selected). The main configuration area includes:

- Connection Error Handling:**
  - Retry Connection: Yes (dropdown)
  - Retry Duration: 12h (text input)
- Concurrency Error Handling (highlighted with a red box):**
  - Retry Concurrency Errors: Yes (dropdown)
  - Retry Duration: 1d (text input)
- Select Error Reporter:** Send Error Report (dropdown)
- Email Address(es) for Process Failure Notifications:** admin@acme.com (text input)
- Email Address(es) for Error Notifications:** jbuck@acme.com (text input)
- Include Warnings in Error Notifications:** Yes (dropdown)

At the bottom, there are four buttons: Back, Next, Finish, and Cancel.

Set the Retry Concurrency Errors parameter to 'Yes' and set the Retry Duration to define how long each retry process should continue while the endpoint or event processor is in a 'Failed (retrying)' state. Wait times are increased between each retry to avoid degraded performance, improve the likelihood that the issue can be resolved within the 'Retry Duration' time frame, and allow other processes to run as the system has available resources. Once the 'Retry Duration' has expired, if the issue continues, the IEP or EP fails, and email alerts are distributed based on the error reporter settings.

Since enabling concurrency error handling can result in reduced throughput and a perceived decrease in performance, it is recommended to first investigate reported concurrency issues from the 'Optimistic Lock Recovery' health check in Performance Analysis Tools (defined in the STEP Performance Analysis topic) to determine if business rule logic can be improved to eliminate the errors.

For all new and existing EPs, concurrency error handling is disabled by default so that administrators can decide when and where to apply this feature. As concurrency error handling does introduce wait times when enabled, if concurrency issues occur frequently, performance is impacted.

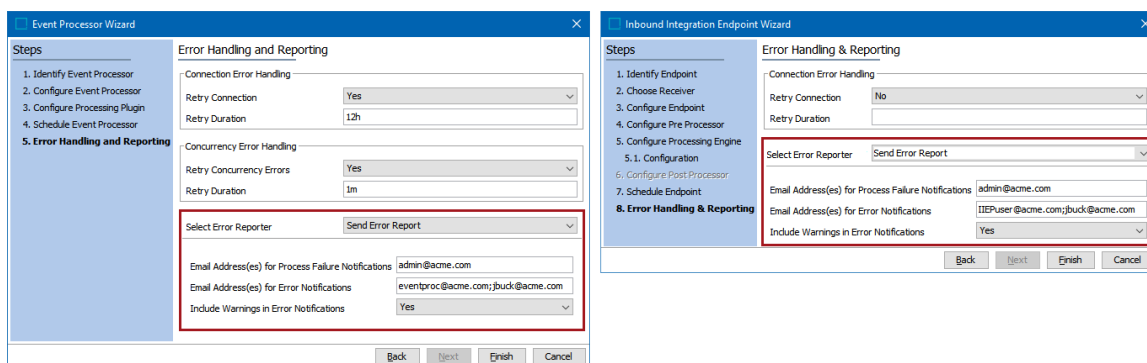
### Expanded email notification options for processing errors and warnings

Error handling for both inbound and outbound integration endpoints (IEPs) and event processors (EPs) is simplified with improved email notification tools as defined below.

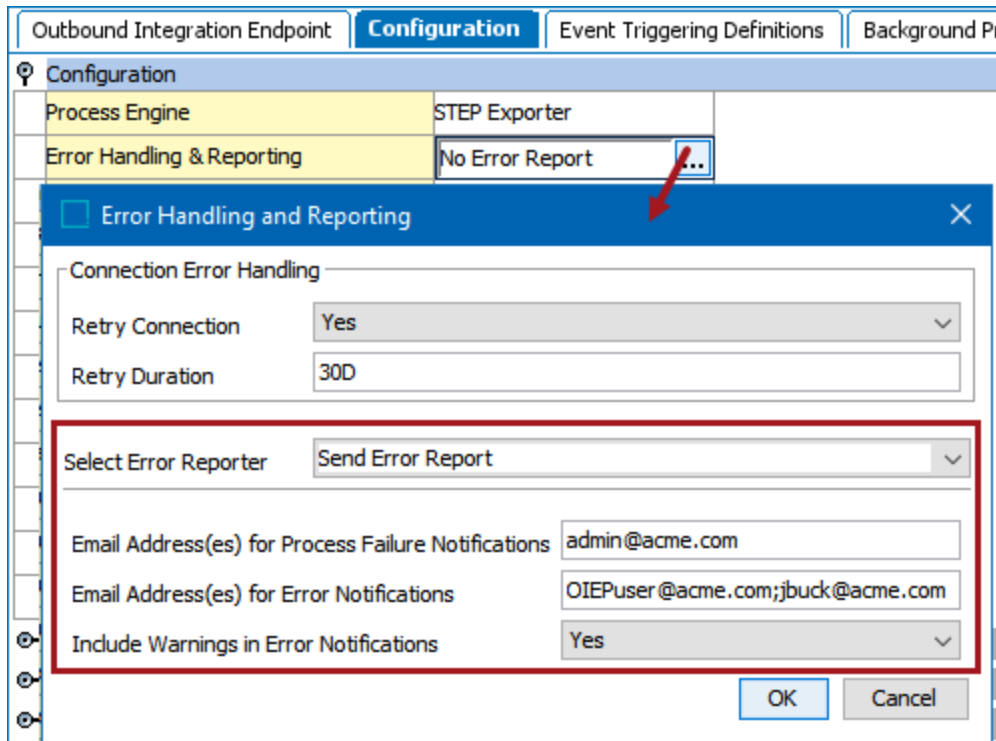
- Admins can now specify separate email addresses to send error alerts based on the type of error encountered when the 'Send Error Report' option is selected for the 'Error Handling & Reporting' step in the configuration. This means email notifications can be distributed to two groups of users: those monitoring fatal processing errors and those who can address data warnings and/or errors that do not cause the process to stop. Additionally, a new parameter allows notifications to be generated for errors only, or to alert on errors and warnings.

Multiple users can be indicated for each group by separating the email addresses with a semicolon. Also, consider using email groups created on the email system to handle address validation outside of STEP, which also allows for changes in the list of group members without a corresponding edit to the configuration.

For EPs and inbound IEPs, the error reporter can be configured in the wizard.

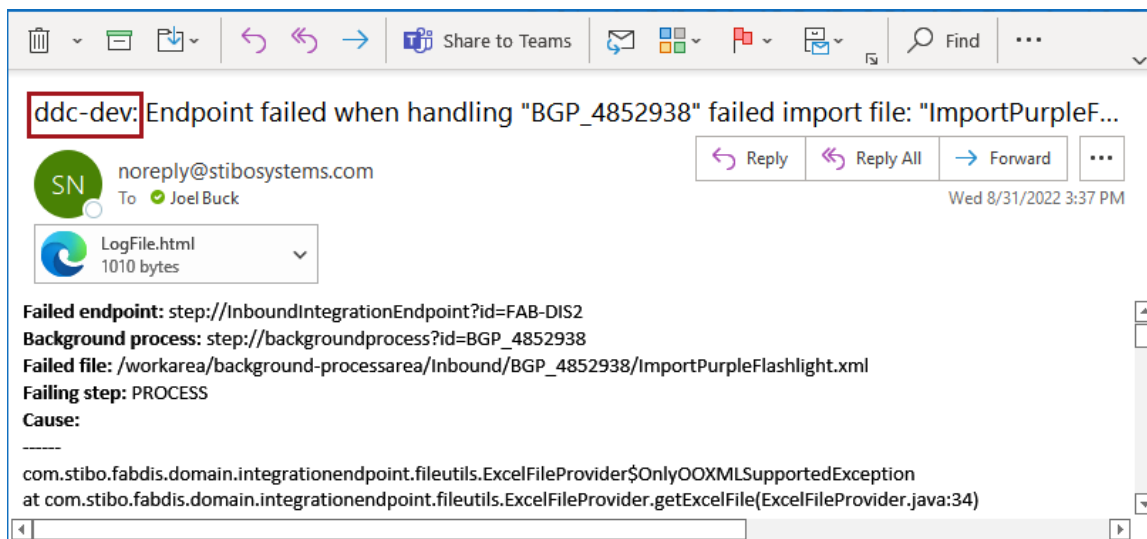


For outbound IEPs, the error reporter can be configured from the editor.



Upon upgrade, IEPs and EPs with the 'Send Error Report' option configured are updated so that all types of alerts are emailed to the specified existing email address(es). IEPs and EPs without error reporting configured are unchanged.

- Users can now identify the system that is reporting errors via the email subject line. This improves troubleshooting efforts since the system name can help the email recipient(s) prioritize the urgency of the error. For example, the 'ddc-dev' system highlighted in the following image identifies that a failure happened on a lower environment, namely a dev system, not on a production system. Additionally, the Execution Report now indicates the email address(es) used when sending error reports.





## Improved handling for deleted objects in EPs

Event processors (EPs) with the 'Select Processor' parameter on the 'Configure Event Processor' step set to 'Execute Business Action' or 'Execute Business Action for Event Batch' have a new 'Skip Deleted Nodes' parameter. This eliminates the need to handle deleted objects via JavaScript. All other EPs automatically skip deleted nodes, which means that objects in the recycle bin are automatically skipped and do not cause a failure.

The 'Execute Business Action' event processor wizard displays the new parameter in the Configure Processing Plugin step:

The screenshot shows the 'Event Processor Wizard' dialog box. On the left, a 'Steps' sidebar lists five steps, with '3. Configure Processing Plugin' selected. The main area is titled 'Configure Processing Plugin' and contains several configuration fields:

- Business Action: Email User (EmailUser)
- Context: English US
- Workspace: Main
- Collate Nodes: No
- Triggering Workspace: Trigger in Approved only
- Skip Deleted Nodes: No** (highlighted with a red box)

At the bottom, there are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'.

The 'Execute Business Action for Event Batch' event processor wizard also displays the new parameter in the Configure Processing Plugin step:

The screenshot shows the 'Event Processor Wizard' dialog box. On the left, a 'Steps' sidebar lists five steps, with '3. Configure Processing Plugin' selected. The main area is titled 'Configure Processing Plugin' and contains several configuration fields:

- Business Action: CreateCollection (CreateCollection)
- Context: English US
- Workspace: Main
- Skip Deleted Nodes: Yes** (highlighted with a red box)

At the bottom, there are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'.

For all new and existing EPs that run business actions, the default 'Skip Deleted Nodes' parameter setting is 'No' to allow the admin to decide when to implement the new functionality. This also maintains the previous

functionality where deleted object handling is addressed via JavaScript or where the business action EP fails when attempting to process events for deleted objects. Manually update the parameter to implement the new functionality.

Additionally, all new and existing EPs using the Data Sufficiency Calculator processor no longer fail with an error when encountering an object that is in the recycle bin. Now, the event is automatically skipped, allowing calculations to continue uninterrupted.

Refer to the following topics for more information on error handling and reporting improvements:

- OIEP - Event-Based - Manual Configuration, OIEP - Configuration Flipper, and the individual delivery method topics linked from the OIEP - Delivery Method Flipper topic, all in the Data Exchange documentation
- IIEP - Error Handling & Reporting or the individual receiver topics linked from the IIEP - Choose Receiver topic, both in the Data Exchange documentation
- EP - Error Handling and Reporting in the System Setup documentation

Refer to the following topics in the System Setup documentation for more information on the 'Skip Deleted Nodes' parameter:

- Execute Business Action Processing Plugin Parameters and Triggers topic
- Execute Business Action for Event Batch Processing Plugin Parameters and Triggers topic

## **OIEP and EP 'Unread events (approximated)' parameter improvement for SaaS systems**

Outbound integration endpoints (OIEPs) and event processors (EPs) running on SaaS systems now employ improved methods for estimating events remaining in the queue resulting in a more accurate count of events in the 'Unread events (approximated)' parameter. Previously, for SaaS systems, a count of no more than 1,000 was displayed. With this improvement, admins can make a better estimate of the size of the event queue, consider approximately how long it will take to clear the events (based on experience with processing speed history), and then allow the events to process or decide on another course of action. For example, if an event queue has a large backlog of events that are either no longer relevant or that can easily be recreated, it may be beneficial to purge the event queue, optimize processing or resolve configuration errors, and then republish or recreate the events.

**Item Modify - Configuration**

Background Processes | Statistics | Error Log Excerpts | Log | Status

Outbound Integration Endpoint | **Configuration** | Event Triggering Definitions

Configuration

Event Queue Configuration

Event Actions: Forward | Rewind | Purge | Republish

> Days to Retain Events	0
> Number of Events to Batch	1000
> Number of event batches to include pe...	1
> Queue Status	Read Events
> Unread events (approximated)	1750 (2022-09-13 10:18:54)
> Event Mode	Detailed

Edit Configuration

Output Templates

Delivery Method

**DnBMatching - Event Processor**

Background Processes | Statistics | Error Log Excerpts | Log

**Event Processor** | Event Triggering Definitions

Description

Configuration

ID	Name
User Running Event Processor Plugin	User E
Number of Events to Batch	1000
Days to Retain Events	0
Priority	Medium
Maximum Number of Old Processes	100
Maximum Age of Old Processes in Hours	168
Limit of Lines in Execution Report	1000
Triggering Workspace	Trigger in Approved only
Processor	Matching
Schedule	Not Scheduled
Queue Status	Read Events
Unread events (approximated)	21000 (2022-09-13 10:29:53)
Event Mode	Efficient

Edit Configuration

Current Background Process Log

For more information, refer to the Event-Based OIEP Queued Events topic in the Data Exchange documentation and the EP - Event Processor Tab topic in the System Setup documentation.

## Updated Business Rule Based Message Processor in OIEP gets nodes within a collection

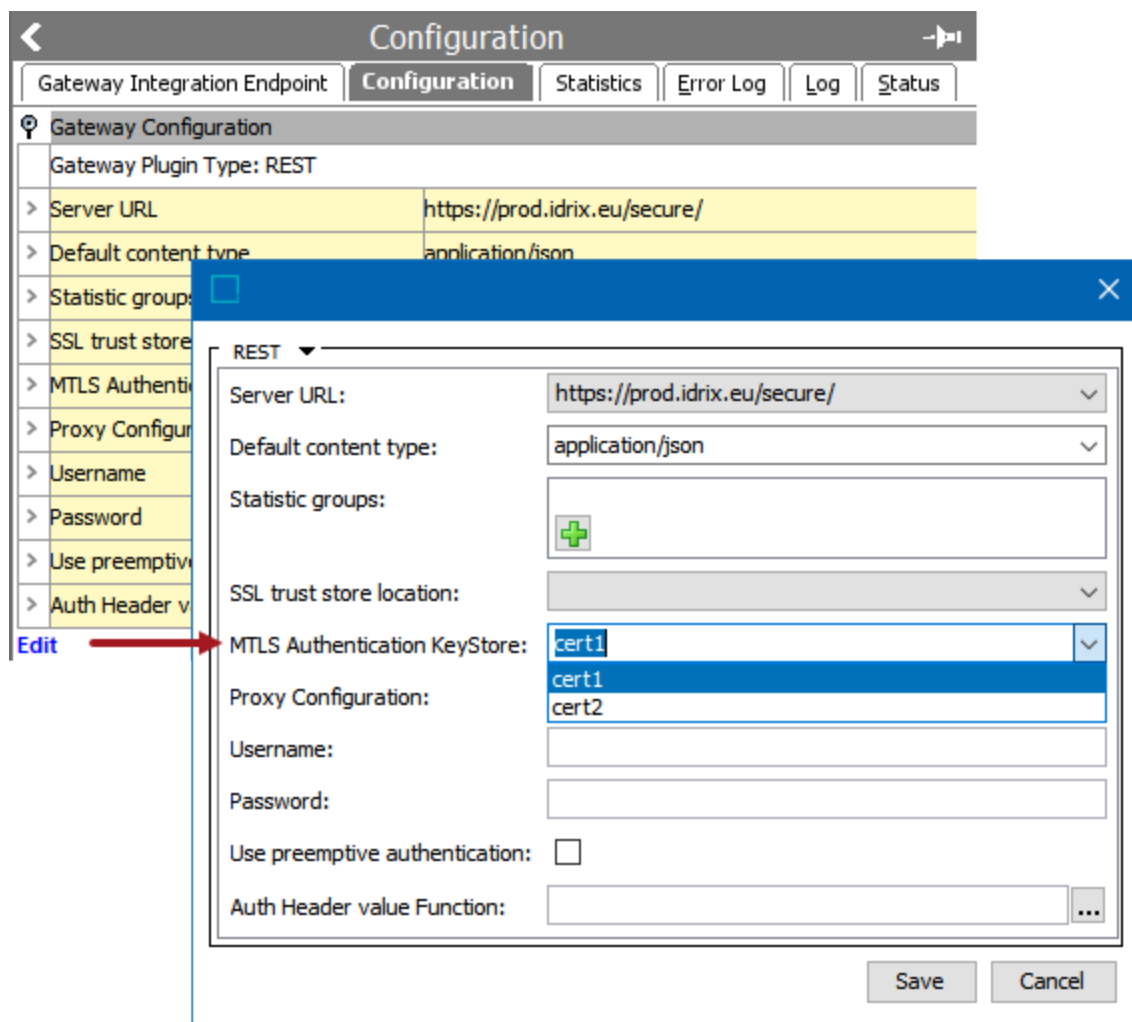
The Business Rule Based Message Processor in the outbound integration endpoint (OIEP) is updated to get nodes within a collection. When a user configures a collection object in an OIEP, the Business Rule Based Message Processor processes the nodes under the particular collection. Previously, if a collection was configured in the OIEP, the nodes were not processed in the exported file.

For more information, refer to the Outbound Integration Endpoint topic in the Data Exchange documentation.

## Mutual Transport Layer Security (mTLS) now allows specifying a certificate and/or keystore per endpoint

For outbound integration endpoints (OIEPs) using delivery via SSL and REST Direct and for gateway integration endpoints (GIEPs) using delivery via REST, multiple certificates / keystores can be added within the sharedconfig.properties file. Having the ability to select from more than one certificate / keystore is useful when integrating with multiple systems that use different CNames (the STEP system name as defined by another system) or when each integration requires a different certificate.

Selection of the appropriate certificate / keystore is now possible on the OIEP 'Delivery Method' flipper and on the GIEP 'Gateway Configuration' flipper.



For single certificate scenarios, the default setup and 'SSL.Default' properties (shown below) are unchanged. For multiple certificate scenarios, the properties for additional certificates can be set based on the requirements for each delivery method and are identified with a user-defined name for the additional certificates that replace 'Default' in the 'SSL' properties.

The user-defined options displayed above in the 'MTLS Authentication KeyStore' configuration dropdown are determined by the 'Location' properties in the sharedconfig.properties file below. In this example, two additional certificates ('Cert1' and 'Cert2') are applied. The user-defined labels align with the file names of the keystores / certificates.

```
SSL.Default.KeyStore.Password=password
SSL.Default.KeyStore.Location=/home/myDir/keystore.jks

SSL.Cert1.KeyStore.Location=/home/myDir/Cert1.jks
SSL.Cert1.KeyStore.Password=password
SSL.Cert2.KeyStore.Location=/home/myDir/Cert2.jks
SSL.Cert2.KeyStore.Password=password
```

```
RestDirect.Mtls.CertificateKeyStores=,Cert1,Cert2
RestDirectDeliveryURL=1=https://DeliveryUrl1.com,2=https://DeliveryUrl2.com

RestGateway.Mtls.CertificateKeyStores=,Cert1,Cert2
RESTGateway.ServerURL=1=https://DeliveryUrl1.com,2=https://DeliveryUrl2.com
```

Administrators can apply keystores / certificates for on premise systems. Activating new or changed keystores / certificates on the application server requires a system restart. For SaaS systems, contact Stibo Systems Technical Support to apply keystores / certificates.

For more information, refer to the Mutual Transport Layer Security topic in the Data Exchange documentation.

## Support for the latest industry standard formats

Updates include support for:

- ECLASS Basic 13
- ETIM 9
- GS1 GDSN 3.1.20
- UNSPSC 24 and 25

For more information, refer to the ECLASS Format, ETIM Format, and UNSPSC Format topics in the Data Exchange section of the documentation.

For more information on GS1 GDSN, refer to the GDSN Receiver Solution Enablement in the Solution Enablement documentation.

## ECLASS Advanced Editor Screen updates

ECLASS Advanced Editor Screen is a new screen in the Web UI that improves upon and supersedes the existing ECLASS Advanced Screen, which will be deprecated and withdrawn in a future release. In the past, users could only view the ECLASS Advanced data from the Web UI. But now, it is possible to not only maintain products already linked to the ECLASS Advanced hierarchy, but also link existing or new products to one more version of the ECLASS Advanced hierarchy. The ECLASS Advanced Editor Screen will allow adding aspects and blocks to the product supporting polymorphism and cardinality. You must first have an ECLASS Advanced commercial license enabled to access the functionality.

The screenshot shows the 'Product Details' page in the ECLASS Advanced Editor. The breadcrumb trail is 'ECLASS 10.0 > 27-37-04-01 Motor protection circuit-breaker'. The left sidebar contains navigation tools: Search, Global Search, Tree, Links, Attribute Groups/Attributes, Faceted Search, Design Mode, Logout, Workflow, Tasks, Basket, User Settings, and System Settings. The main content area lists various technical specifications for the motor protection circuit-breaker, such as 'Application standards' (IEC 60947-2), 'Certificate/approval' (DAA603), 'Connection type' (WAA065), and 'Device type' (AAM055). It also includes numerical values for trip settings like 'Greatest value of overload release adjustment range' (150.000) and 'Greatest value of tuning range short circuit tripper, undelayed' (2.250.000). Radio buttons are used for boolean settings like 'Integrated auxiliary switch present' and 'Integrated undervoltage tripper present', both currently set to 'false'. At the bottom, there are buttons for 'Save', 'Reset', 'Delete', and 'Link to ECLASS Advanced'.

For more information, refer to the ECLASS Advanced Editor Screen topic.

## IEP Transactional Setting 'Chain' option is planned to be deprecated

For inbound integration endpoints and for Select Object outbound integration endpoints, 'transactional settings' specify how background processes will be generated, how the messages will be processed, and what will happen upon failure. The legacy 'Chain' option is planned to be deprecated in a future release since it generally has slower processing speeds compared to using the 'Strict' option with similar features for enforcing the order of import files. For more information, refer to the Integration Endpoint Transactional Settings topic in the Data Exchange documentation.

# Faceted Search Enhancements

## Summary

The following enhancements have been made for the faceted search solution, powered by the Elasticsearch search engine, as part of the 11.1 release. These are outlined below and described in the Details section that follows:

- Elasticsearch [version support update](#).
- The [Elasticsearch publishing](#) process has been streamlined and additional functionality has been added to schedule and manage reindex events.
- [Elasticsearch indexes](#) can now be monitored and managed via a new tab on the configuration.
- Faceted search can now be configured in the [Web UI designer](#) under Global Navigation Panel.

## Details

### Elasticsearch version support update

Version 7.17.5 is now supported for Elasticsearch and Kibana.

For more information on Elasticsearch and Kibana, refer to the Initial Setup for Elasticsearch topic in the Web User Interfaces documentation.

### Elasticsearch publishing enhancements

Publishing to Elasticsearch now provides users with more control over the publishing process while also streamlining its more tedious and complex aspects. When publishing an Elasticsearch configuration for the first time, the system will automatically detect the relevant objects based on the configuration and publish accordingly. Previously, the user needed to manually select specific hierarchies or object types to publish.

Additionally, if any changes are made to the configuration, users can now update Elasticsearch via reindexing. During the reindexing process, the system will automatically clear existing data to ensure that the published data matches the configuration, which could otherwise be misaligned. The system will automatically transition to the newly published dataset only after publishing of all changes has completed, however, searches can still be made using the previously published configuration until the process completes. Previously, when changes were made to the configuration the user needed to manually republish, which required manually selecting and overriding existing data.

Because the publishing process can take some time, it is now possible to schedule publishing and reindexing processes for later. These processes can be rescheduled at any time via the Reindexing tab, which allows users to monitor and manage their reindexing processes.

Faceted Search Conf - Reindexing							
Elasticsearch Configuration Type <b>Reindexing</b> Index Management Log Status							
<b>Reindexing status</b>							
Reindexing started		Reindexing finished		Reindexing aborted		Actions	
Thu Sep 15 11:10:14 EDT 2022		Thu Sep 15 11:10:14 EDT 2022				Cancel	
<b>Reindex</b>							
<b>Generating events processes</b>							
Generating events process	Status	Created	Scheduled at	Generating events started	Generating events finished	Actions	
BGP_1214100	succeeded	Thu Sep 15 11:09:05 EDT 2022	Thu Sep 15 06:05:00 EDT 2022	Thu Sep 15 11:09:09 EDT 2022	Thu Sep 15 11:09:09 EDT 2022	Cancel	Reschedule
BGP_1214048	succeeded	Mon Sep 12 07:24:08 EDT 2022	Now	Mon Sep 12 07:24:10 EDT 2022	Mon Sep 12 07:24:10 EDT 2022	Cancel	Reschedule
BGP_1214047	succeeded	Mon Sep 12 06:57:04 EDT 2022	Now	Mon Sep 12 06:57:08 EDT 2022	Mon Sep 12 06:57:09 EDT 2022	Cancel	Reschedule
BGP_1214040	succeeded	Mon Sep 12 06:37:24 EDT 2022	Now	Mon Sep 12 06:37:28 EDT 2022	Mon Sep 12 06:37:28 EDT 2022	Cancel	Reschedule
BGP_1214039	succeeded	Mon Sep 12 06:31:20 EDT 2022	Now	Mon Sep 12 06:31:22 EDT 2022	Mon Sep 12 06:31:23 EDT 2022	Cancel	Reschedule
BGP_1214037	succeeded	Mon Sep 12 04:44:36 EDT 2022	Now	Mon Sep 12 04:44:38 EDT 2022	Mon Sep 12 04:44:38 EDT 2022	Cancel	Reschedule
BGP_1214026	succeeded	Fri Sep 09 08:35:33 EDT 2022	Now	Fri Sep 09 08:35:38 EDT 2022	Fri Sep 09 08:35:38 EDT 2022	Cancel	Reschedule
BGP_1214025	succeeded	Fri Sep 09 08:33:19 EDT 2022	Now	Fri Sep 09 08:33:23 EDT 2022	Fri Sep 09 08:33:45 EDT 2022	Cancel	Reschedule
BGP_1214024	succeeded	Fri Sep 09 08:29:59 EDT 2022	Now	Fri Sep 09 08:30:02 EDT 2022	Fri Sep 09 08:30:29 EDT 2022	Cancel	Reschedule
BGP_1214023	aborted	Fri Sep 09 08:28:57 EDT 2022	Fri Sep 09 09:00:00 EDT 2022			Cancel	Reschedule
<a href="#">Remove all</a>							

For additional documentation, refer to the Elasticsearch Publishing topic in the Web User Interfaces documentation.

## Elasticsearch index management

A new Elasticsearch Index Management tab has been added to Elasticsearch configurations, allowing users to monitor and manages indexes from within STEP. This allows users to manage the overall system dataset without having to use a third party interface such as Kibana, and will help to expose potential issues before they become a problem.

Additionally, indexes are now automatically deleted when a configuration is deleted, ensuring that users are not retaining irrelevant data in their Elasticsearch instance. Previously, indexes needed to be manually deleted in Kibana when their corresponding configuration was deleted.



ProdConfig - Index Management					
Elasticsearch Configuration Type		Reindexing	<b>Index Management</b>	Log	Status
elasticconfig	Name	Shard count	Document count	Total store size (kB)	
>	elasticconfig-approved-context1-v13	2	127	334	X
>	elasticconfig-approved-context1-v14	2	127	334	X
>	elasticconfig-approved-context2-v13	2	127	330	X
>	elasticconfig-approved-context2-v14	2	127	330	X
>	elasticconfig-approved-context3-v13	2	127	330	X
>	elasticconfig-approved-context3-v14	2	127	330	X
>	elasticconfig-approved-context_5-v13	2	127	334	X
>	elasticconfig-approved-context_5-v14	2	127	334	X
>	elasticconfig-main-context1-v13	2	278251	210200	X
>	elasticconfig-main-context1-v14	2	278251	210456	X
>	elasticconfig-main-context2-v13	2	278251	205865	X
>	elasticconfig-main-context2-v14	2	278251	205721	X
>	elasticconfig-main-context3-v14	2	278251	211541	X
>	elasticconfig-main-context_5-v13	2	278251	210258	X
>	elasticconfig-main-context_5-v14	2	278251	210734	X
>	<b>Summary</b>	30	1948773	1467431	
>	<a href="#">Remove all</a>				

To avoid index-related errors, it is no longer possible to create more than three Elasticsearch configurations per STEP system.

For more information, refer to the Elasticsearch Publishing topic in the Web User Interfaces documentation.

## Faceted search configurable in Web UI designer

In Web UI, the faceted search icon is no longer available automatically in the Global Navigation Panel without configuration. Previously, when the Faceted Search Powered by Elasticsearch license was installed in the system, the faceted search icon automatically displayed, and it could only be removed through a configuration property. Users can use the existing configuration options available in the Web UI designer under Global Navigation Panel to configure the faceted search option. The faceted search can now be configured in the Web UI designer under Global Navigation Panel. This will further allow the users to rename and reposition the faceted search in a different order within Global Navigation Panel.

For more information, refer to the Search Screen topic in the Web User Interfaces documentation.

# Web UI Enhancements and Changes

## Summary

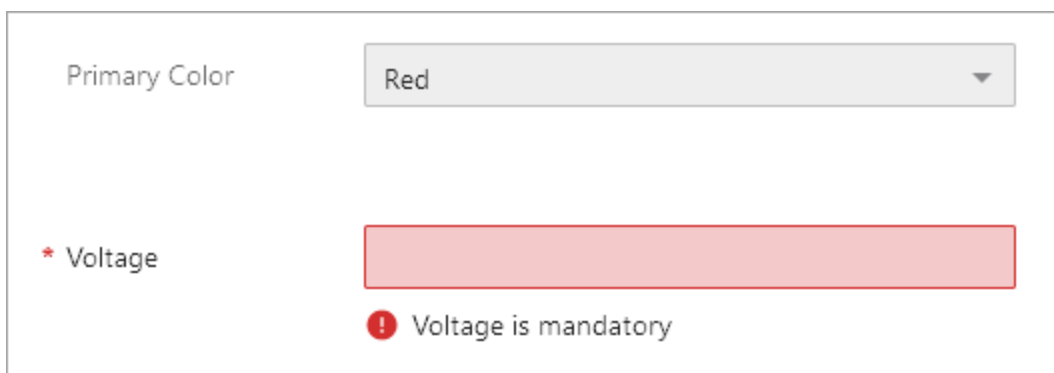
The following enhancements and changes have been made to the Web User Interface:

- New **mandatory, read only, and hidden** options for attributes and references.
- **System announcement** messages will be displayed after the user successfully logs into the system.
- A number of improvements to the **Referenced Asset Representation** component.
- **Sufficiency scores** can now be evaluated for entity objects and displayed on the Sufficiency Card, increasing a user’s insight into data quality for both products and entities.
- **Product Summary Card** and **Sufficiency Card** supports both Breadcrumb Type parameters.
- A number of **styling improvements** in Sufficiency Panel Metric messages provides a better user experience.
- A new **ECLASS Advanced Editor Screen** supersedes the ECLASS Advanced Screen to allow editing in the Web UI.

## Details

### New mandatory, read only, and hidden options for attributes and references in the Web UI

A new business condition allows super users to mark attributes and references as either mandatory, read only, or hidden in the Web UI. This ensures that only the relevant data is available, the mandatory data is visualized, and read-only data cannot be modified.



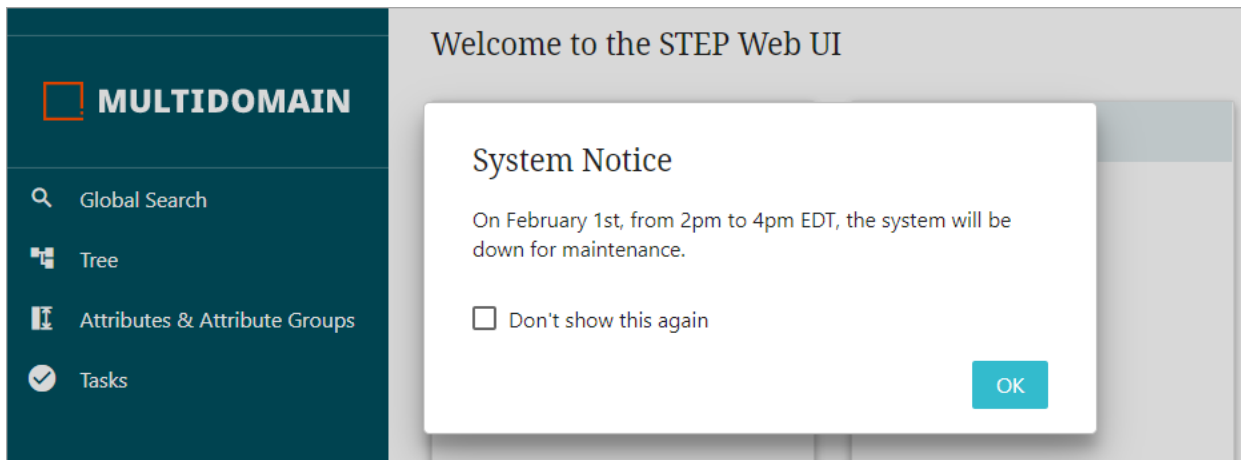
The screenshot shows a web form with two main elements:

- Primary Color:** A dropdown menu with 'Red' selected.
- \* Voltage:** A text input field with a red border. Below it is a red error icon and the text 'Voltage is mandatory'.

For additional documentation, refer to the Conditional Data Validity topic in the Web User Interfaces documentation.

## System announcements moved in Web UI and enabled for SaaS systems

In Web UI, system announcement messages are displayed after the user successfully logs in to the system. The message can popup on any screen with the dialog displaying the system announcement as configured by the administrator. Previously, the system announcements were displayed on the login page and the SaaS environment and Single Sign-On (SSO) users did not get to view the announcements on the login page. Additionally, the application server no longer needs to be restarted when the announcement file has been updated with a new message.

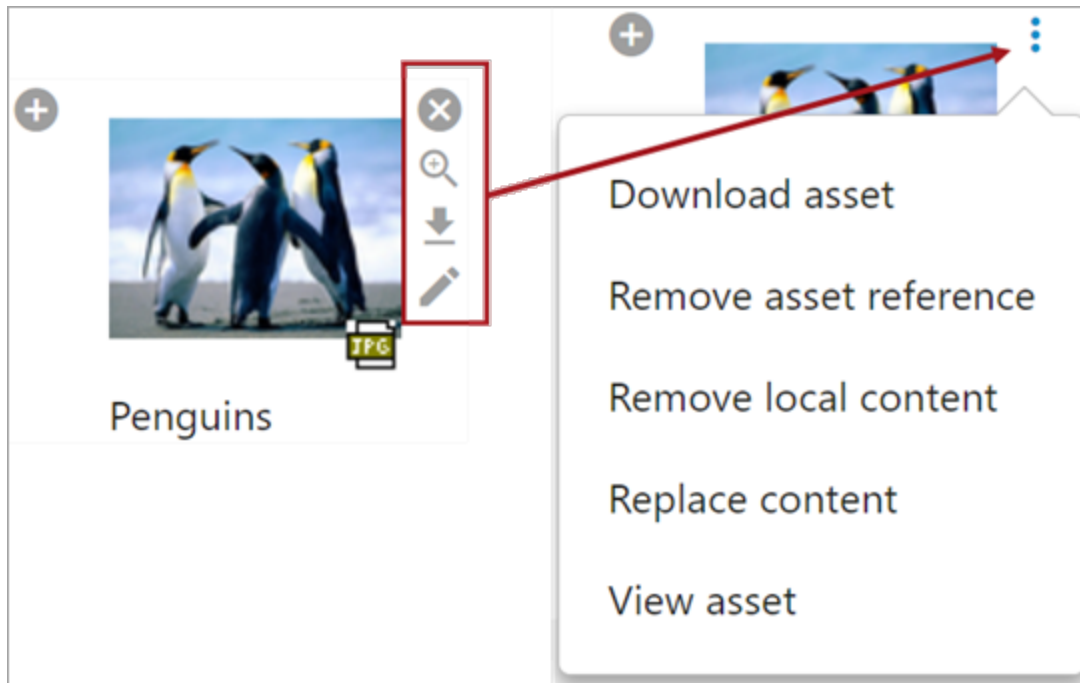


For more information, refer to the Adding Announcements topic in the Web User Interfaces documentation.

## Enhanced Referenced Asset Representation

A number of improvements in the Referenced Asset Representation component have been implemented, enabling users to have a better user experience. They include the following:

- The icons displayed on the right of the thumbnail image are now transformed into a single menu button which shows the actions in a pop-up window based on the configuration done in the Web UI designer.



- In Web UI Design Mode, administrators have more granular control to give users access to only what they need. The new parameters include enabling or disabling the functionalities below:
  - Allow users to insert an asset reference.
  - Allow users to upload a new asset and then insert it.
  - Allow users to remove an asset reference.
  - Allow users to navigate to a pre-configured asset management screen.
- New parameters can be found under Asset Content (as shown below).

Properties (edited)

Configuration    Web UI Style

Node Details Screen ▾   Save   Close   New...   Delete   Rename   Save as...

Referenced Asset Representation [go to parent](#)

Pop Up Representation <Select an option> ▾ Edit...

Representation <Select an option> ▾ Edit...

Show Asset Name

**Enable Link**

▶ **Advanced**

▼ Asset Content

Create Local Content

Remove Local Content

Replace Content

Direct Download

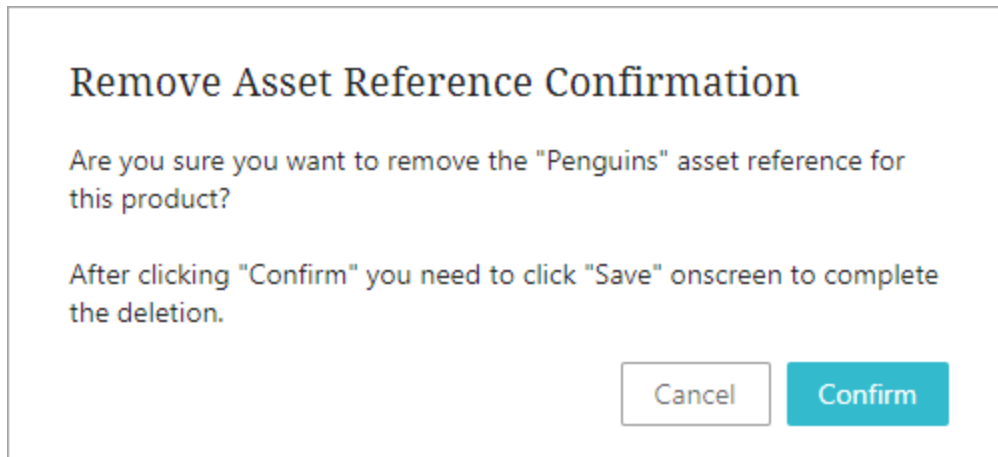
Disable Resizing

**Insert Asset Reference**

Remove Asset Reference

Upload And Insert Asset Reference

- When Enable Link is selected, the user can navigate to the pre-configured screen showing the details of the asset. This allows users to inspect additional details and/or metadata, and also provides consistency across the UI as most places allow a clickable navigation link.
- To prevent accidental unlinking, when the Remove Asset Reference is enabled, users will get a pop-up message to confirm, before the asset reference is deleted.



- For assets with long names, the name is displayed to the full width of the asset and then is truncated. Hover to view the full name.

For more information, refer to the Referenced Asset Representation topic in the Web User Interfaces documentation.

## Sufficiency Card now supports products and entities

The 'Product Sufficiency Card' is renamed to 'Sufficiency Card' with the new support for entity objects, in addition to existing support for product objects. After configuration, selecting a product or entity object on a Node Details screen displays the sufficiency scores on the Sufficiency Card (via the Below Title child component). The Sufficiency Panel now also includes messages for both product and entity objects.

Although a single sufficiency cannot be used for both products and entities, to implement the functionality for products and entities simultaneously, a business condition must specify the relevant object type and be applied to all sufficiencies. For details on configuration, refer to the Sufficiency Scores for Product Data Quality and Completeness topic in the Data Governance documentation.

## Product Summary Card and Sufficiency Card support both 'Navigation' and 'Copy and Share'

In Web UI, a new Breadcrumb Type parameter is available in the Product Summary Card and the Sufficiency Card, giving users the option to either use the breadcrumb as a navigable link or to copy the breadcrumb to clipboard so that it can be shared.

The default parameter for Product Summary Card is 'Navigation' and for Sufficiency Card the default parameter is 'Copy and Share.'

When 'Navigation' is selected the user will be able to navigate using the breadcrumb by clicking on it and when 'Copy and Share' is selected the user will be able to copy the product hierarchy path by clicking on it.

For more information, refer to the Below Title Product Summary Card topic in the Web User Interfaces documentation.

## Styling improvements in sufficiency panel metric messages

A number of styling improvements in Web UI have been implemented, enabling users to have a better user experience. They include the following:

- The Success, Warning, and Error text is now replaced by respective icons.
- In workbench, the Newline placeholder is introduced in the metric configuration which will add a line break for better visibility of error messages.

- Spacing between metric titles and messages are aligned.

### Quality and Sufficiency ✕

---

Overall Product Score 60

---

Overall Product Score !

- Marketing Description 2 must be populated before Marketing Description 3
- Short Description is missing or is not at least 15 characters in length. Please check this in the Basic Information section.

---

Basic Data Population 66

---

Validates that basic product data has been provided

Short Description must be provided and must be at least 15 characters !

- Short Description is missing or is not at least 15 characters in length. Please check this in the Basic Information section.

Brand must be populated !

Sellable Channels must be selected ✓

---

Marketing Copy 50

---

Validates that marketing copy has been provided and that priority text is provided before secondary descriptions

Marketing Description 3 should only have a value if 2 does 0

- Marketing Description 2 must be populated before Marketing Description 3

Marketing Description 1 must be provided 100

Marketing metric four 60

- Text for the warning

For more information, refer to the Sufficiency Panel topic in the Data Governance documentation.

## New ECLASS Advanced Editor Screen for editing ECLASS data

The ECLASS Advanced Editor Screen gives users of this product classification taxonomy the ability to maintain ECLASS Advanced data from the Web UI. This new screen improves upon and supersedes the



view-only ECLASS Advanced Screen, which will be deprecated and withdrawn in a future release. For more details, refer to the Data Exchange Enhancements and Changes release note in the 11.1 release note set.

# General Enhancements and Changes

## Summary


The following enhancements and changes have been made as part of the 11.1 release. These are outlined below and described in the Details section that follows:

- The workbench indicator for the **Approved workspace** now displays an orange background for better visibility.
- New **healthchecks** are available to identify event processing, attribute values, and JavaScript business rules and large commits that can negatively affect performance. This enables administrators to proactively address potential issues before they become a problem.
- Workbench **responsiveness** is improved to reduce wait times.
- User-defined IDs for **derived events** now display in event queue lists to improve troubleshooting activities and are also available in the SOAP API as the new eventTypeName element to improve integration development capabilities.
- The new bulk update **Reassign operation** for workflows has been added to the workbench.
- The amount of workflow information stored and displayed on the **State Log** tab in the workbench editors is now limited to improve STEP performance. The default can be overwritten by an admin.
- Performance improvements on the **migration to SaaS (Cassandra)** process significantly reduce the time required to import collections.
- Improvements in workbench now control displaying the '**Force Authentication via STEP**' parameter only as needed to reduce confusion about when and how it should be used.
- The **SaaS Self Service UI** now allows admins to set system configuration properties to reduce reliance on Stibo Systems Support to manage commonly updated properties.
- Inherited data is now accessible via **REST API V2**.
- The **GraphQL API** now allows searching for, and returning, the attribute values in data containers of a specified type on product or entity nodes using conditions, including various operators for exact- or partial-match queries.
- The **Stibo ASPIRE gateway integration** has been greatly improved to make configuration easier.
- Updates on the **Start Page** provide an improved user experience.
- A new privilege action has been added to **control access to workbench** so that users who should only work in Web UI can be easily restricted from logging in to the workbench.
- Multi-select functionality is now available on the Handling column of **Change Packages**, making it easier to configure and streamlining the user experience when choosing to ignore dependent items.

- The **Asset Publisher Storage Template** now allows use of the asset name and attribute ID macros, which streamlines the migration from Asset Push to Asset Publisher and improves search engine results for published assets.

## Details

### Approved workspace indicator is more obvious in workbench

The workbench workspace indicator has been improved with an orange background () to clearly show that a user has left the Main workspace. This improvement matches the orange background of the Approved workspace indicator in Web UI to eliminate confusion about the absence of some options, such as the Recycle Bins, and the editability of parameters.

For more information, refer to the Workspaces topic in the System Setup documentation.

### New and improved healthchecks identify performance issues

The Healthchecks functionality (available from Performance Analysis Tools and the Admin Portal) now includes the following new healthchecks to identify data and scenarios that can negatively affect performance:

- The configuration healthcheck 'Residual events for a queue' reports event processors, outbound integration endpoints, and event queues that have generated events that have not been processed within a week. The identified processors are set to 'read' events but are either not enabled, are stopped in an error state, or are enabled but not scheduled. An administrator can inspect the objects in the report and change the configuration to either consume the events or discard them.

<input type="checkbox"/>	Name	Category	Issues	Severity	Status	Completed
<input type="checkbox"/>	Residual events for a queue	Configuration	5	Medium	Succeeded	20/08/2022, 00:04:41

- The configuration healthcheck 'Non-compacted attributes' identifies non-LOV attribute values that do not use Compact Value Storage (CVS) on Oracle-based systems. CVS requires less storage space and improves the system response time. An administrator can review the attributes reported by this check and convert them to CVS or to LOVs, as appropriate.

<input type="checkbox"/>	Name	Category	Issues	Severity	Status	Completed
<input type="checkbox"/>	Non-compacted attributes	Configuration	15	Medium	Succeeded	24/09/2022, 00:01:43

- The configuration healthcheck 'Javascript catch without rethrow' identifies JavaScript business rules that use a try-catch statement without a rethrow for exceptions. The absence of a rethrow can cause data inconsistencies since the database transaction is not rolled back. With this healthcheck, exceptions are no longer ignored, and instead are rethrown by the business rule framework. An administrator can edit the

identified business rules and add a rethrow.

<input type="checkbox"/> Name	Category	Issues	Severity	Status	Completed
<input type="checkbox"/> Javascript catch without rethrow	Configuration	3	High	Succeeded	03/09/2022, 00:04:56

- The performance healthcheck 'Large Commit' identifies very large transactions (commits) that can cause a system running on Cassandra to have poor system performance. This healthcheck runs on schedule for Cassandra systems and warns if larger commits are happening.

For more information, refer to the Healthcheck Test Index topic in the Administration Portal documentation.

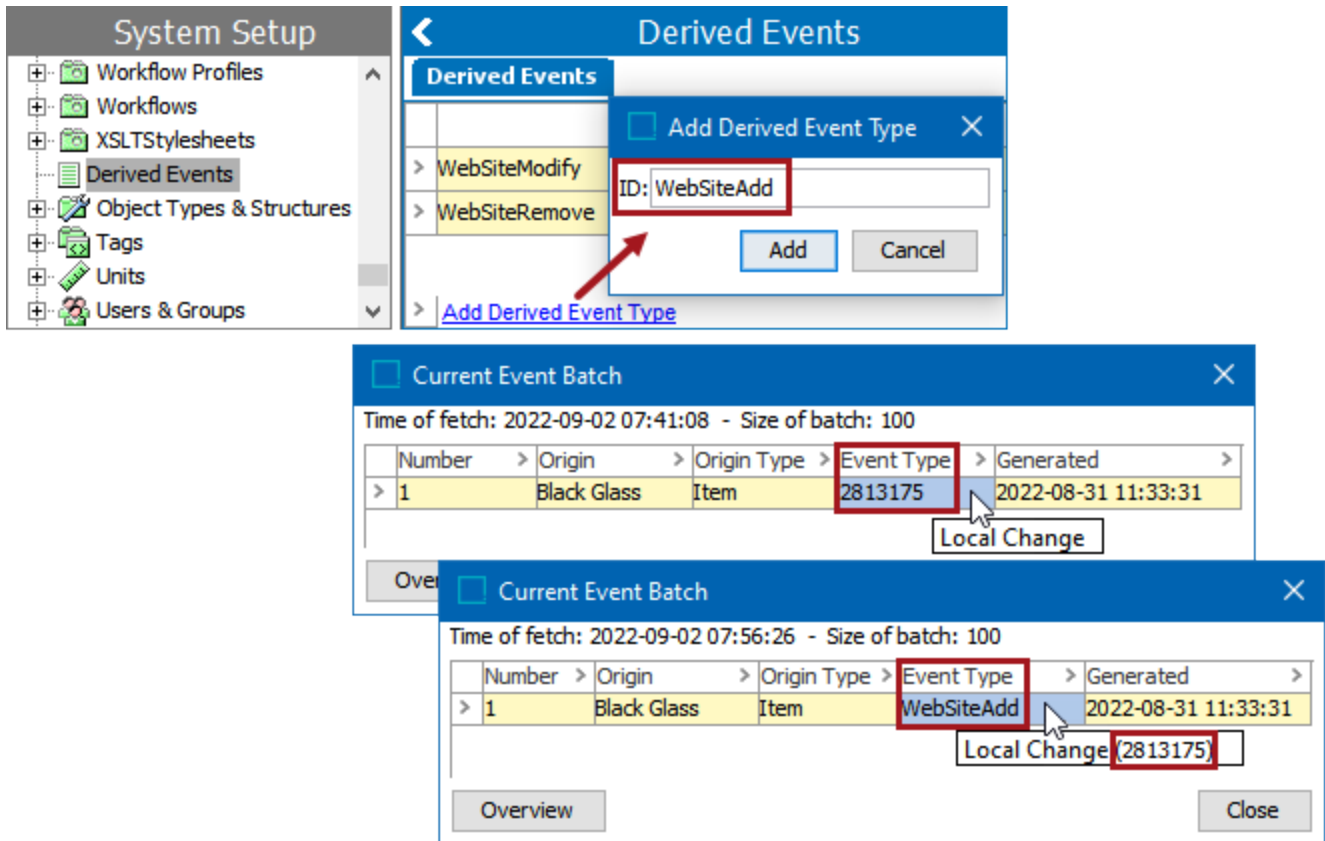
## Improved workbench responsiveness

The workbench has been improved to reduce the wait time for downloading the workbench launcher, starting the workbench, and loading individual screens within the workbench. These enhancements give users faster access to the workbench and improved responsiveness working in the workbench.

## Improved derived event identification

In workbench, derived events now display the user-defined ID on an event queue list. Troubleshooting is improved because users can confidently identify derived events in a batch to be processed by the text displayed in the Derived Events editor as the ID instead of by a system-generated internal ID. As shown in the following images, previously, only the internal ID was displayed in the Event Type column of the 'Current Event Batch' dialog. Now, the user-defined ID is initially displayed using the Details view in the 'Current Event Batch' dialog via the 'View First Event Batch' option for outbound integration endpoints, event processors, and event queues. The internal ID is still visible when hovering over the user-defined ID for a derived event.

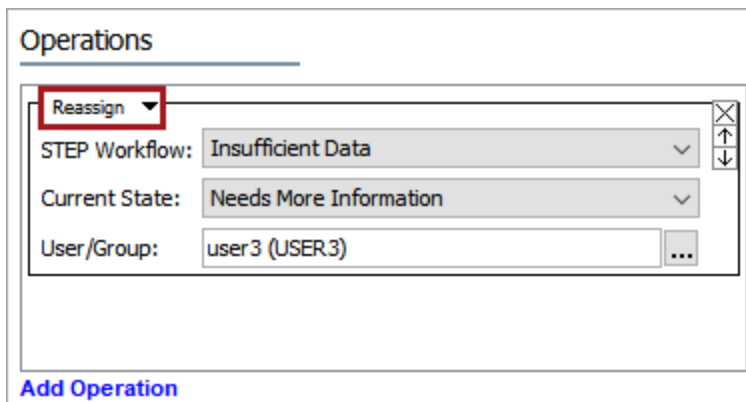
The user-defined ID is also now exposed in SOAP API responses as the new `eventName` element. For backward compatibility, `eventType` continues to provide the system-generated internal ID, however, it is recommended to update integrations using `eventType` to use `eventName` instead because the `eventName` value will not change between environments and is easily identifiable. Additionally, this provides a configuration management benefit when migrating configurations across systems.



For more information, refer to the Derived Events topic in the System Setup documentation.

## Bulk update Reassign operation in the workbench

A Reassign operation as a bulk update has been added to the workbench. Now, users can initiate this action as a bulk update that runs as a background process (BGP).



For more information, refer to the Workflow: Reassign topic in the Bulk Updates documentation.

## Improved management of State Log entries

Logs for workflow transitions, also referred to as 'State Flow Logs' or 'State Logs', are displayed in the 'State Log' tab of a product, entity, and classification editor in workbench. This tab includes a complete history of transitions, notes, assignments, and status flag changes for the object. Over time, the number and size of such log entries can result in poor STEP performance and can also hinder migration to SaaS due to the required storage.

State Log									
Product	References	Referenced By	Images & Documents	Commercial	Tables	Category Profile	Proof View	Status	State Log
Lead Pipe Plumbing Check									
<input checked="" type="checkbox"/> Show transitions <input checked="" type="checkbox"/> Show assignments <input checked="" type="checkbox"/> Show notes <input checked="" type="checkbox"/> Show status flag changes <input type="checkbox"/> Hide parallel and cluster states									
Time	User	Event	From State	To State	Note	Assignee	Status Flag	Log Type	
> 2017-04-19 09:23:27	USERJ		Lead Free			USERJ		assignment	
> 2017-04-19 09:23:27	USERJ	Proceed	Review Data	Lead Free				transition	
> 2017-04-19 09:23:27	USERJ		Lead Free				Low	statusflag	
> 2017-04-19 09:23:09	USERJ		Review Data			USERJ		assignment	
Reassign									
<input checked="" type="checkbox"/> Show transitions <input checked="" type="checkbox"/> Show assignments <input checked="" type="checkbox"/> Show notes <input checked="" type="checkbox"/> Show status flag changes <input type="checkbox"/> Hide parallel and cluster states									
Time	User	Event	From State	To State	Note	Assignee	Status Flag	Log Type	
> 2017-04-28 12:10:54	USERJ		Work			USERJ		assignment	
> 2017-04-28 12:10:54	USERJ		Start	Work	These notes were added during submission.			transition	
> 2017-04-28 12:10:54	USERJ		Work				Low	statusflag	

By default, upgrading to release 11.1 allows only entries for the previous 93 days to be kept on the State Log tab. While older entries are not immediately deleted, they are marked for deletion and will be removed as the system has the available resources to run the cleanup process.

The age of the entries kept on the State Log tab is determined by the value for the StateflowLog.Days.Retention property (Oracle) or the Cassandra.StateflowLog.Days.Retention property (based on the database in use) in the sharedconfig.properties file on the STEP application server. This allows the State Log tab to store slightly more than three (3) months of information instead of keeping the complete history. Maintaining fewer State Log entries improves STEP performance and aids in scalability.

**This constitutes a change in functionality for existing customers.** Before upgrading, consider if 93 days of workflow transition logs is sufficient for your business. To keep logs for a shorter or longer period of time, prior to upgrading, add the StateflowLog.Days.Retention or the Cassandra.StateflowLog.Days.Retention property to the sharedconfig.properties file and set the value as needed. Although the property value can be increased, doing so after the upgrade does not restore state logs that have been deleted. Increasing the value is not recommended before migrating to SaaS because it will extend the time required to migrate and may impact the schedule.

For more information, refer to the State Log Tab topic in the Workflows documentation.

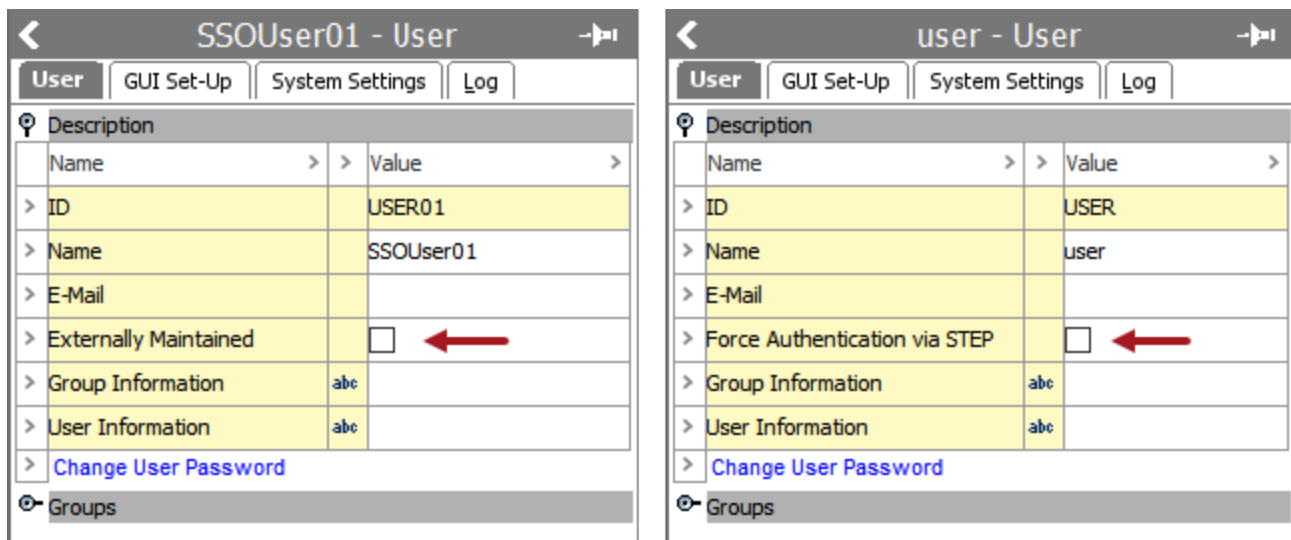
## Improved migration to SaaS (Cassandra) for collections

Optimized performance for the migration to SaaS (Cassandra) now uses multiple threads to import collection objects, which can result in a notable decrease in the overall time required. While it is advised to purge unnecessary collections prior to migration, this improvement allows the migration to run more efficiently for the remaining collections.

For more information on SaaS, contact your Stibo Systems account manager or partner manager.

## 'Force Authentication via STEP' parameter improvement

The 'Force Authentication via STEP' option is no longer available on STEP systems with OAuth2-based authentication enabled. For these environments, the 'Externally Maintained' option indicates if the user authentication is managed by STEP or not.



SSOUser01 - User		user - User	
Name	Value	Name	Value
ID	USER01	ID	USER
Name	SSOUser01	Name	user
E-Mail		E-Mail	
Externally Maintained	<input type="checkbox"/>	Force Authentication via STEP	<input type="checkbox"/>
Group Information	abc	Group Information	abc
User Information	abc	User Information	abc

For more information, refer to the Working with Users topic in the System Setup documentation.

## System property management via SaaS Self Service UI

For SaaS systems, the SaaS Self Service UI now allows admins to monitor and modify commonly updated configuration properties. Previously, the remote system administration API options were required to get and set configuration properties. With this change, the remote system administration option is removed, and customer management of select properties is via the SaaS Self Service UI.

For more information on the Self-Service UI for SaaS, or to update properties not available in the Self Service UI, contact your Stibo Systems account manager or partner manager.

## Inherited data via REST API V2

Developers using REST API V2 to access STEP objects can now also access inherited data. This data is explicitly marked as inherited and is ignored when creating / updating via the PUT / PATCH / POST operations. With this improvement, users can migrate from the deprecated REST API V1, which is not being updated.

For more information, refer to the REST API V2 section of the STEP API Documentation, available from the Start Page.

## GraphQL can access and return values in data containers

GraphQL can now search for specified attribute values in specified data containers of a specified type and return nodes with data container attribute values that match the query. This improvement applies to both product and entity objects and includes conditions and various operators for exact- or partial-match queries. For example, identifying a customer based on their phone number, which is part of a data container on the customer entity object, or identifying a product by the value on an industry standard included in a data container on the product object.

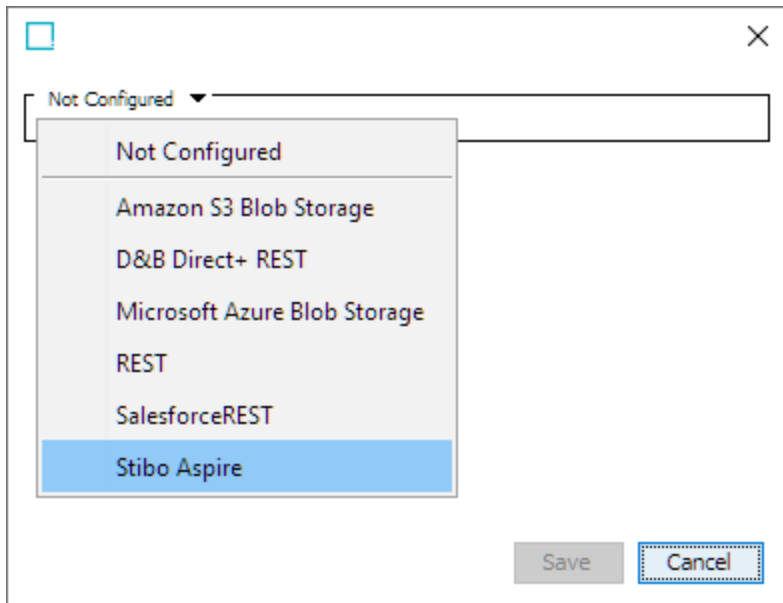
GraphQL is available to use with STEP via the STEP.SDK.WebService license. Contact your Stibo Systems account manager or partner manager to begin the process of enabling licenses for your system.

For more information, refer to the GraphQL API section of the API documentation at [system]/sdk or access the STEP API Documentation from the Start Page.

## Improved integration of Stibo ASPIRE gateway with STEP

Integrating ASPIRE with STEP is now significantly simpler. The authentication REST gateway and the business function that handled the authentication (which were necessary in prior releases) are no longer needed. Instead, a dedicated 'Stibo Aspire' REST gateway is now available. Customers with Stibo Systems SaaS system deployments are able to use it directly out of the box with no additional configuration. For non-SaaS system deployments, credentials must be manually configured in the sharedconfig.properties file.





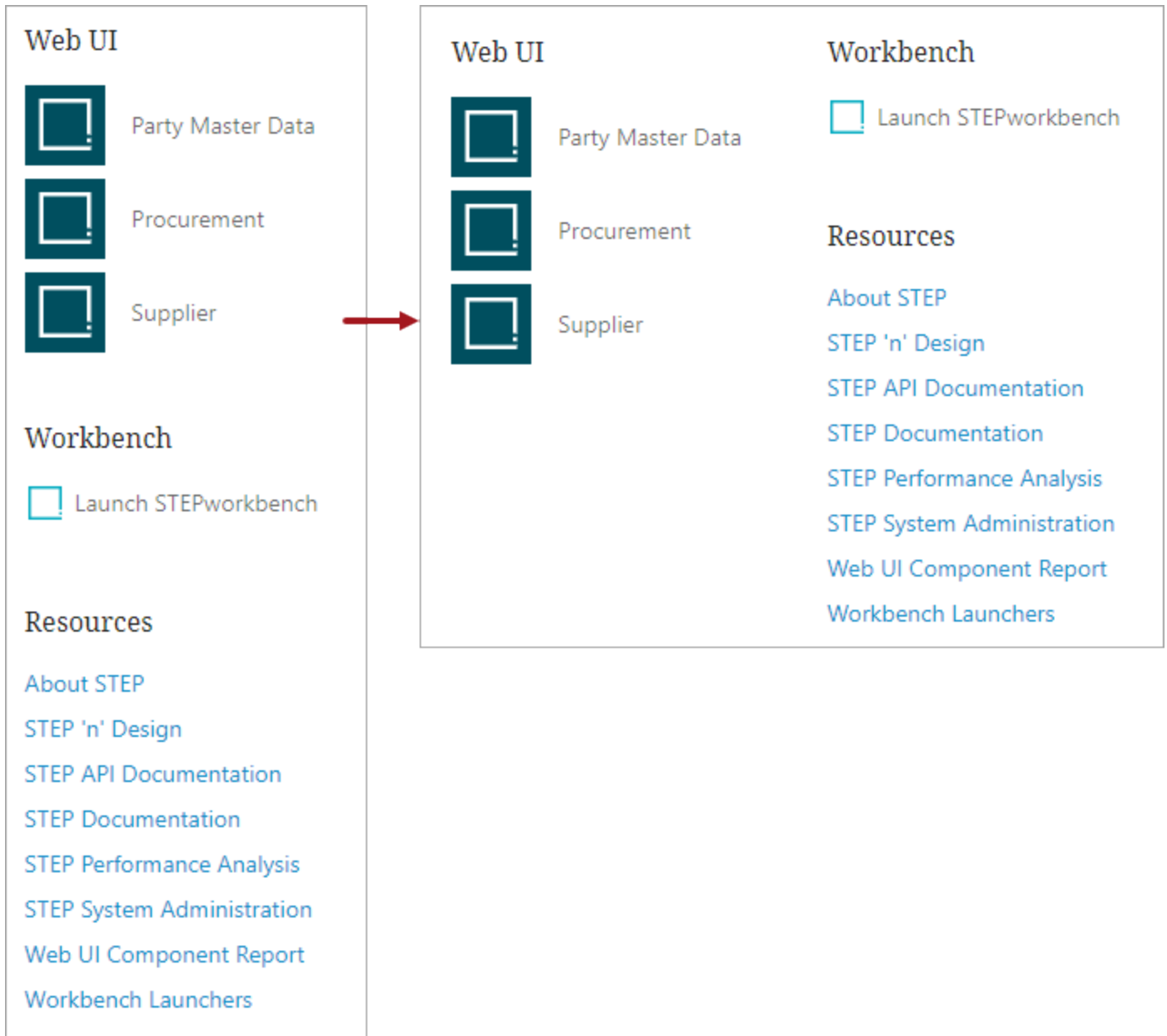
ASPIRE is used for the Machine Learning Matching Agent for Clerical Review. For more information, refer to the Configuring the Stibo Aspire REST Gateway topic in the Matching, Linking, and Merging documentation.

## Start Page design updates

Updates to the Start Page provides an improved user experience while working and accessing the STEP instances. The sections are reordered as:

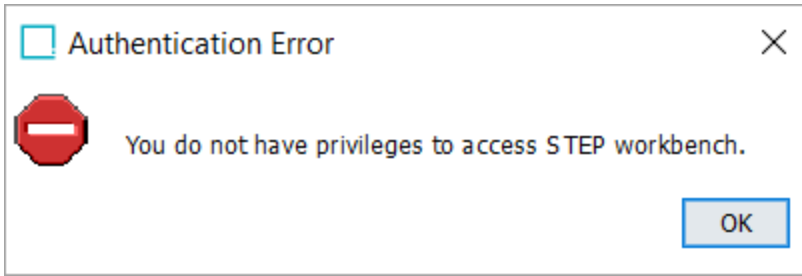
- Web UI
- Workbench
- Resources

If the vertical viewing pane limit is exceeded, the Workbench and the Resources section moves to the second column and the Web UI stays on the first column.



## Control access to workbench

In workbench, a new setup action privilege 'Access Workbench' is now available, which allows the administrator to control the workbench access. When a user group does not have the Access Workbench setup action, users belonging to that group will still have access to workbench links in the Start page, but when the user clicks a workbench link, enters their username / password, and tries to log in, an error displays: 'You do not have privileges to access STEP workbench.'



For backward compatibility, when a system is upgraded, the Access Workbench setup action privilege is automatically added to all existing setup action objects and all users can log in to workbench using existing login methods. The administrator must manually remove the Access Workbench setup action privilege from the user groups that should not have access to the workbench.

For more information, refer to the STEP Workbench UI topic in the Getting Started documentation.

### Change Package Handling column update

Within a Change Package, the Handling column gets populated with the 'Use' setting. Now, as required, users can copy an 'Ignore' setting and paste it into multiple cells. Previously, if a user needed to ignore multiple attributes, the 'Ignore' option was manually selected from the dropdown menu for each attribute.

Secondary Items (0)				
Items Required For Transfer (717)				
Item	Current	Handling	Included	
> Attr_Attribute	1221 days	Use	2019-05-14 00:59:49	
> Attr_UoM	1221 days	Use	2019-05-14 00:59:49	
> Attr_Value	0 minutes	Ignore	2022-09-16 12:22:42	
> Attribute Description	1221 days	Use	2019-05-14 00:59:50	
> Attribute Group Section	1221 days	Use	2019-05-14 00:59:50	
> Attribute Help Text	0 minutes	Ignore	2022-09-16 12:23:09	
> Attribute Name Style Name	0 minutes	Ignore	2022-09-16 12:23:10	
> Attribute P	0 minutes	Ignore	2022-09-16 12:23:10	
> Attribute ShortName	0 minutes	Ignore	2022-09-16 12:23:11	
> Attribute Value Style Name	0 minutes	Ignore	2022-09-16 12:23:12	
> Caption 1	0 minutes	Ignore	2022-09-16 12:23:12	
> Catalog Group Theme	1221 days	Use	2019-05-14 00:59:50	

For more information, refer to the Change Packages topic in the Configuration Management documentation.

### Asset Publisher Storage Template now supports additional macros

In Asset Publisher, the \$assetNAME\$ and \$attribute:attributeID\$ macros are available to allow exporting assets with meaningful names based on data on the asset. This also simplifies the process of moving from Asset Push to Asset Publisher by aligning additional macro options between the two offerings as follows:

- The macro \$assetNAME\$ is used to publish the name of the asset.
- The macro \$attribute:attributeID\$ is used to publish the value of the description attribute of the asset.

**Conversion Configuration**

Name: Conversion1

Image Conversion: <source>

Storage Template: \$assetNAME\$\_\$attribute:attributeID\$. \$autodetected-extension\$

Condition: ...

Path Attribute: Path Attribute (PathAttribute)

Version Attribute: Version Attribute (VersionAttribute)

Status Attribute: Status Attribute (StatusAttribute)

OK Cancel

The Path attribute is mandatory when \$assetNAME\$ and \$attribute:attributeID\$ macros are used.

For more information, refer to the Asset Publisher Processing Plugin Parameters and Triggers topic in the System Setup documentation.

# Product MDM for Automotive 11.1 - 7.0.50 Release Notes

**Release Date: Nov 8, 2022**

There is no new functionality or bugfixes included with this release. The 11.1 - 7.0.50 installation recipe makes the automotive component compatible with the released core code for STEP 11.1.



## PATCH RECIPE

The Automotive add-on can be installed with the following recipe:

```
to:automotive/7.0/automotive-7.0.50.spr
```

The above recipe is compatible with the following STEP 11.1 baseline recipe:

```
to:step/platform/step-11.1.spr
```

**Important:** Once an Automotive add-on is installed to a base STEP system, the base system cannot be upgraded without upgrading the Automotive add-on at the same time. Additionally, when upgrading any base STEP system that has any Automotive add-on installed, both install recipes must be prepared at the same time.

For assistance in applying the patch to systems with extensions or additional add-on components, contact Stibo Systems Technical Services. For on-premise systems, instructions for installing components can be found in the SPOT Program topic in the System Administration Guide found in Downloadable Documentation. For SaaS systems, contact your Stibo Systems account manager.

# 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 11.1 Platform and Software Support section of the System Release and Patch Notes documentation within online help.

The changes in platform and software support from version 11.0 to 11.1 are listed below. **Customer action may be required.**

## Current Updates

Support has been added for:

- macOS 13 (Ventura) for Mac clients
- RHEL / Oracle Linux 8.6 support for the STEP database, application, and asset push file servers
- MS Windows Server 2022 for BeyondTrust Jump Proxy server

Support for the items listed below has ended:

- macOS 10.15 (Catalina) for Mac clients
- STEP versions 9.2 (ended on August 1, 2022) and 9.3 (ended on November 1, 2022). Release notes for these releases have been removed from online help but are accessible via the customer portal.

## Future Updates and End of Life Notifications

The support for the items below will end with the next feature release (Fall 2022) or as indicated:

- The Dun & Bradstreet Direct 2.0 platform is scheduled to be discontinued as of December 31, 2022, and as of January 1, 2023, D&B Licensed Products may only be accessed via Direct+. The 10.3-MP4 notes include additional information.
- On IEPs, the legacy 'Chain' option for the Transactional Settings parameter is planned to be deprecated. The Data Exchange Enhancements and Changes release note includes additional information.
- Support ends in 2023 for these STEP versions:
  - 10.0 — ends on May 1
  - 10.1 — ends on December 1

Customers should update as soon as possible to the latest release of Stibo Systems Enterprise Platform (STEP). Contact your Stibo Systems account manager or partner manager, or the support department, if you have questions and/or to receive help and guidance on how to update to a supported release.

Software errors reported for the versions shown above may be rejected after the listed effective dates. Application support issues in progress for the releases being desupported will be closed on the desupport date. It is not possible to extend the support services for desupported versions.

# Miscellaneous Bugfixes

A number of bugfixes have been applied as part of this release. Separate notes are generated for each maintenance patch. Refer to the entire set of 11.1 release and maintenance patch notes prior to installing or upgrading.



## BUGFIXES

### ■ **Cassandra improvement for forwarding events**

For Cassandra systems, when forwarding events, the confirm dialog now displays an estimated number of events that will be forwarded if the user confirms.

### ■ **Fix for exception in search when excluding objects with Search from List based on a key**

When upgrading an Oracle In-Memory STEP system to 11.0 (or later), unique key values are also In-Memory optimized. However, a slight difference exists for In-Memory optimized unique key values compared to the non-In-Memory version regarding handling of null values. This problem has now been resolved by this fix. There is a hotfix also available for this solution that is applicable to inmemory-7.0.66.

### ■ **Fix for MongoDB connector: missing extValues for attributes on Reference Types**

Fix for the extValues for the metadata attributes on the References. Previously, the LOV value ID of reference metadata was not getting exported via Mongo.

### ■ **Fix for numerous '... deleted instance' entries in logs + errors in Matching and Merging event processor**

Fixed an issue in the Address Matcher with regard to an inconsistent city score when one of the city's name length was less than five (5) characters, and the second was above or equal to five (5) characters. A hotfix is also available for this solution and is applicable to partydatamatching-7.0.14.

### ■ **Fix for supplier name missing in Compare view**

Added missing supplier names in Compare view. An error would occur in the case where the first ingredient in a section was not present for one or more of the suppliers being compared.

### ■ **Fix for when AMF stops writing to Postgres DB and will not reconnect without restart**

Logging information on consumer not getting reattached in the consumer creation loop. This solution is also available as a hotfix that is applicable to audit-messaging-7.0.5.

#### ■ **ISSUE-400494 - Fix for a problem with DTP export data below when selecting a version**

The problem occurred when doing an 'Export Data Below' on a 'Page data' object in the workbench. The case was that two products were mounted on the page in one version and only one of the products was mounted in a second version. Changing version in the 'Select objects' tab of the export wizard did not change the list of products being exported. As a 'Page Data' object is attached to one version only, it makes no sense to change the version in the wizard when a 'Page Data' object has been selected. The solution has been to remove the 'Version' column for 'Page Data' objects in the 'Select Objects' tab of the export wizard.

#### ■ **ISSUE-469559 - Fix for error on filtering Task List**

Fixed an error with column sorting in the Web UI Node List component. Previously, a combination of nodes could cause an error which prevented the list from being shown. A hotfix is applicable for step-10.1-mp4, step-10.1-mp5, and step-10.1-mp6.

#### ■ **ISSUE-473507 - Fix for imported translation management error-free files going to error subfolder**

Fixed an issue occurring where import files with translations were moved to the error folder even if there were no errors during translation using those files. A step-10.3-mp4 hotfix is also available for this solution.

#### ■ **ISSUE-510715 - Fix for attribute group not opening properly when attribute is created in Web UI**

Now, Web UI Tree Navigator will be reloaded correctly after a user creates new attribute or LOV on Attribute / LOV Management screens in Web UI.

#### ■ **ISSUE-520097 - STEP logout error**

Fixed issue with logout when using /webui/webui/logout link. It did not work correctly if run from external HTML page from iframe element. This solution also has a hotfix available that is applicable to keycloak-ss0-7.0.14 and one applicable to step-10.3-mp4.

#### ■ **ISSUE-521543 - Fix for duplicate objects with same name (not ID) appear dimmed in Parent Selector node picker**

Now, it is possible to select a parent with a similar name but different ID via the Parent Selector component on a Web UI Node Editor's node picker.

#### ■ **ISSUE-522430 - Fix for large exports causing the streaming mapper to run out of memory**

When an export included mappings for asset or entity references on data with many references, the export could run out of memory because it cached the asset / entity information. This has now been fixed so it no longer caches.



■ **ISSUE-522931 - Fix for OIEP Advanced STEPXML error**

There is now an improved error message for OIEP Email Delivery for emails without body text. If an email body is empty, the following message will show: 'Cannot deliver the email. Email body is empty.'

■ **ISSUE-524452 - Fix for 'Include inherited values' not working in Advanced Search Screen**

Now, it is possible to copy and paste values from Excel cells to the Advanced Search Attribute Value criteria without causing exceptions to appear.

■ **ISSUE-525655 - Fix for display issue in event processor configuration**

In the workbench, work was done to resize the Mail Error Report input form under the Select Error Report section to make the horizontal scroll bar work correctly. (Vertical scroll bar has been removed.)

■ **ISSUE-526344 - Fix for product selection not returning any data after unchecking a 'Type of packaging' selection**

Now, a Node Details section will not be closed if a user selects / deselects the same item on a Web UI Node List.

■ **ISSUE-527816 - Fix for data inconsistency error when publications are deleted**

Additional checks have been added to the remove orphan publication nodes option ('Clean orphan publication data'). There is a hotfix for this solution that is applicable to step-10.1-mp4.

■ **ISSUE-528473 - Fix for ECLASS Importer not filtering on LOV Value (ECLASS 12)**

Unlinked attributes from classifications of the attributes marked as deprecated but already linked to the classification before the import. Made sure that LOV values marked as deprecated in the extension part of the ECLASS import file are taken into account when adding values to a LOV or creating a value filter for the LOV. This solution is also available as a hotfix that is applicable to eclassimporter-7.0.67 and eclassimporter-7.0.70.

■ **ISSUE-531146 - Fix for Web UI not working as expected in case of scanning products**

Now, it is not possible to apply a filter while the filter strings are still loading on a Filtering Dialog on a Web UI Node List.

■ **ISSUE-542515 - Fix for inability to drag and drop product on classification node in Web UI**

Now, it should be possible to manually resequence Classification Product Links on a Multi Reference screen with Sequence Display Mode.

#### ■ **ISSUE-544385 - Fix for Remove Links action**

Fixed a problem occurring when selecting all references / links and deleting them within a Multi Reference component. This caused the deletion of the references / links of non-configured types, if they had a same source / target (depending on ref / link direction). This solution is also available as a hotfix that is applicable to step-10.2-mp3.

#### ■ **ISSUE-547180 - Fix for whole Design Mode getting highlighted instead of selected component**

Now, the Value Section sub-components will be correctly highlighted on hover and can be clicked in Web UI Design Mode.

#### ■ **ISSUE-548371 - Fix for Web UI node popup width taking up whole screen**

Now, Parent Selector's node picker popup will not take the whole screen width.

#### ■ **ISSUE-550149 - Fix for Excel translation file import issue**

Now, manual Excel translation in the workbench will respect 'Always Excluded Attributes' from translation which is configured in Translation Settings in Users & Groups System Settings. There is a hotfix of this solution that is available for step-10.3-mp4, step-11.0, and step-11.0-mp1 through mp4.

#### ■ **ISSUE-551432 - Fix for inability to edit Name field in Multi Edit Display Mode**

Now, a Name component on a Web UI Node Editor will be marked as read only if the current user does not have the privilege to edit it - specifically, if the MAINTAIN\_SETUP\_ENTITY privilege is missing. This behavior is now consistent with the Table Header Name component on a Web UI Node List.

#### ■ **ISSUE-552339 - Fix for conditions returning as 'false' if matcher uses condition threshold**

Fixed presentation of comparison between matcher result and matcher's threshold in the Match Criteria Evaluator's Match Reason column when rules contain conditions with a True / False comparator. There is also a hotfix applicable to step-10.2-mp3 through mp6 available for this solution.

#### ■ **ISSUE-553074 - Fix for performance issue in business function after upgrade**

Performance optimization was done for business rules using JavaScript. The code used to restrict the JavaScript to call methods provided by the public API was not handling situations where the arguments were automatically cast to the correct type very efficiently. This solution is also available as a hotfix for step-10.1-mp2 through mp5, step-11.0, and step-11.0-mp1 through mp4.

#### ■ **ISSUE-553722 - Fix for Data Import screen throwing an error when added as Sub Screen Tab Page**

Fixed a NullPointerException (NPE) that was caused by the Data Import component when it was configured with a product selection import configuration but called from the Node Editor screen when a

classification is selected. Instead of the NPE being thrown, an 'Invalid Product Parent' message will be shown. This solution is also available as a hotfix that is applicable to step-10.3-mp4.

#### ■ **ISSUE-555736 - Fix for NPE thrown when editing existing import configuration**

When editing an existing import configuration, exceptions could be thrown if the data source did not match the existing mappings. This has been fixed.

#### ■ **ISSUE-556571 - Fix for issue in auto datasheet generation**

Fixed a problem causing a connection from InDesign to the app server to be torn down after five minutes. This solution is also available as a hotfix that is applicable to step-10.2-mp3.

#### ■ **ISSUE-557286 - Fix for error message showing in HTML script that is not in readable format**

The problem is the user planned to use color text in their error message, but in Web UI the error message is showing in HTML script. The unreadable error message is confusing. To fix this problem, a color tag has been added `<p style="color: your color;">` to `BackgroundProcessImpl.legalHTMLIElementPrefixes`. This solution also has a hotfix available that is applicable to step-11.0-mp4.

#### ■ **ISSUE-557761 - Fix for tab key not working as expected in Web UI**

Now, focus is moved to the new empty multi-value field when a user presses a tab key within a multi-value Attribute Value component field on Web UI Node Editor screen.

#### ■ **ISSUE-558286 - Adding logging to identify issue for incorrect Kafka Header published**

Log endpoint configurations to determine if the erroneous variation is due to specific users or app servers. This solution is also available as a hotfix that is applicable to step-10.2-mp3.

#### ■ **ISSUE-558807 - Fix for business rule taking a long time to run on a Web UI via the Run Business Action button for 1000 products**

Introduced a new parameter (Disable Reload) for the Run Business Action Toolbar component, which allows admins to disable reloading a Node List after performing a corresponding action. This solution is also available as a hotfix that is applicable to step-10.2-mp3 and step-10.3-mp4 / mp5.

#### ■ **ISSUE-559808 - Fix for long process time for one item price change**

Improved performance when pasting a huge amount of cells into an Excel Smartsheet. Note that subsequent editing after a huge paste operation may still perform slower, as Smartsheets need to detect the changed product IDs, and after a huge paste it will be a lookup through the amount of pasted cells. This solution is also available as a hotfix that is applicable to step-10.1-mp3 through mp6.

#### ■ **ISSUE-559855 - Fix for typeahead issue on the Search Panel**

The problem was that when the user entered the same values for different attributes, the typeahead would display the same values multiple times. To fix this problem, the data structure of 'SearchSuggestion' from List<> to Set<> was changed so that the typeahead will display the same values only once.

#### ■ **ISSUE-559876 - Fix for reference metadata attribute not working properly**

In a multi-reference Multi Edit Display Mode component in the Web UI, it was not possible to remove inherited dimension-dependent LOV values. This has been fixed. There is a hotfix also available for this solution that is applicable to step-9.3-mp3, mp4, and mp5, and step-10.3-mp4.

#### ■ **ISSUE-560921 - Fix for module proofing not working**

The InDesign Sidecar could incorrectly restart if the sidecar temporarily could not reach the STEP servers to report its status. This has now been fixed. This solution also has a hotfix available that is applicable to step-11.0-mp1 through mp4.

#### ■ **ISSUE-561466 - Fix for inability to access a background job for impersonated user**

Fixed a problem occurring when users, impersonating a supplier user who does not have privileges to view BGPs of other users, were not able to access their own BGPs on a Background Process Details screen in Web UI with In-Memory enabled. There is also a hotfix available for this solution that is applicable to step-10.3-mp4.

#### ■ **ISSUE-561682 - Fix for BMECat 2005 not displaying Price List Names when mapping**

Previously, in the mapping step of the exporter, price list names were named by their object type. Now, they are named by their ID to allow the user to differentiate multiple price lists within the same object type.

#### ■ **ISSUE-561927 - Fix for Advanced STEPXML export not working for event-based outbound integration endpoint**

Now, a previously introduced configuration property for ignoring the Trade Terms effective date will only affect event-based exports. This solution is also available as a hotfix that is applicable to step-10.1-mp4 through mp6 and step-11.0-mp4.

#### ■ **ISSUE-561929 - Fix for the 'AutoApprove=Y' tag not working as expected**

When importing an export configuration with auto approval, the content of the export configuration would not get approved. This has been fixed.

■ **ISSUE-562401 - Fix for a missing expansion icon**

Fixed a problem where a selected item on a Web UI Tree Navigator on a Global Navigation Panel did not have an icon to expand even if it had children. A hotfix applicable to step-10.3-mp4 is also available for this solution.

■ **ISSUE-563200 - Fix for Web UI 'References Asset Representation' component not working for product overrides**

Fixed a problem in Web UI Node Editor when asset references for product overrides were not displayed via Referenced Asset Representation. A hotfix is available for step-10.0-mp3, step-10.0-mp4, step-10.0-mp5, and step-10.3-mp4.

■ **ISSUE-563501 - SaaS fix for randomly changing configuration of outbound endpoints**

In the workbench, viewing an old revision of an outbound integration endpoint could unexpectedly overwrite the current configuration if the user then selected the 'Configurations' tab. This has been fixed. A hotfix is available for step-10.3-mp4.

■ **ISSUE-563935 - Fix for delete privilege on the Data Container not working as expected**

Now, a recycle bin icon will not be shown in the Web UI Data Container editor popup if the current user does not have privileges to delete a data container of a given data container type.

■ **ISSUE-564275 - Fix for idle Matching Event Processor**

Improved parallel tasks constraints resolving and parallel tasks processing to avoid Event Processor locking.

■ **ISSUE-564516 - Fix for thumbnail images not working**

The problem was that some thumbnail images were not shown in the Web UI. The system had a pipeline called thumbnail-64, but the DAM version dam-thumbnail-64 was missing. The solution has been to add the dam-thumbnail-64 pipeline. This solution is also available as a hotfix that is applicable to step-11.0-mp4.

■ **ISSUE-564611 - Fix for unavailable error file in a workbench BGP when Kafka Receiver BGP fails**

Previously, when a user ran an endpoint in strict / batch mode and multiple files fail, then only the last failed file would be attached to the background process. Now, a zip file will be created for attached error files when importing multiple files via a hotfolder where at least two files generate an error file.

■ **ISSUE-564824 - Fix for error with Web UI changes**

Fixed a NullPointerException (NPE) on a Web UI Node Editor screen related to the Referenced Asset Representation component, when the External Storage component model was configured. This solution is also available as a hotfix that is applicable to step-11.0-mp4.

■ **ISSUE-564887 - Fix for multi-language Smartsheet import not working correctly with multi-valued text attributes**

Fixed cross-context import of multivalued values in Smartsheet format when there are single and multivalued values being imported in one Smartsheet for the same language. This solution is also available as a hotfix that is applicable to step-10.0-mp3, mp4, and mp5.

■ **ISSUE-565269 - Fix for internal server error while view packaging**

Now, a packaging screen in the Web UI will not immediately fail loading with an exception if there are illegal links to non-packaging nodes via the packaging link. Instead, an error message will be logged at a SEVERE level to the STEP app log that will allow users to locate such a problem. This solution is also available as a hotfix that is applicable to step-10.3-mp4.

■ **ISSUE-565751 - Fix for persistence query throwing: java.net.SocketException: Connection reset**

The Admin Portal has a debug feature that allows Stibo Systems to examine data using an Adhoc Query. The server selector had a problem that caused it to not always send the query to the correct server URL. This has been fixed.

■ **ISSUE-565782 - Fix for Optimistic Lock error on multi-selection in Data Containers**

Now, Optimistic Lock exceptions will not be shown on Web UI screens when Alert notifications are about to be deleted in multiple threads. This solution is also available as a hotfix applicable to step-11.0-mp2 through mp4.

■ **ISSUE-566808 - Fix for 'Read Only' setting being ignored for the Reference Header in Multi Edit Display Mode**

Now, the 'Read Only' design mode parameter will be correctly respected on a Web UI Node List screen for the Table Header References component configured to display Data Container references. There is a hotfix also available for this solution that is applicable to step-11.0-mp2, mp3, and mp4.

■ **ISSUE-566879 - Table Transformation Horizontal Wrap Table fix for failure on row and page break (Rule Left)**

STEP and InDesign: If a table was using the Horizontal Wrap transformation, the table rule styles applied could be incorrect on the wrapped portion of the table when there were no repeated headers. This is now fixed.

■ **ISSUE-567409 - Fix for 'Send diagnostics' not supporting multiple app servers on SaaS**

It is now possible to upload diagnostics from a STEP cluster to Stibo Systems, even when there is no SSH access between the nodes in the cluster. This solution is also available as a hotfix that is applicable to step-10.3-mp4 and mp5.

■ **ISSUE-567413 - Fix for issue while trying to save an LOV value in a Data Container attribute**

Fixed a problem occurring when an LOV value with more than 5000 values in a Data Container editor on a Web UI Node Editor was not able to save the LOV value whose ID starts by the same prefix as other LOV IDs for this attribute. There is also a hotfix for this solution that is applicable to step-10.3-mp4.

■ **ISSUE-567610 - Fix for the Reference Header property causing slowness of Data Containers loading on screen**

Introduced a possibility to disable Reference history loading for Table Header references component for performance reasons. To use this possibility, contact Stibo Systems Support. This solution is also available as a hotfix that is applicable to step-11.0-mp4.

■ **ISSUE-567618 - Error message fix for inability to submit articles in a new product enrichment workflow**

The customer was getting a generic submit error previously. This fix introduced the possibility to return additional messages generated by a Reference Other Business Condition. To enable these messages, contact Stibo Systems Support. This solution is also available as a hotfix that is applicable to step-11.0-mp4.

■ **ISSUE-568071 - Fix for inability to transform / simplify selection for plugin ObjectTypeCondition**

Fixed a NullPointerException occurring when a user tried navigating to the Target Column ID in a Classification Product Links table on a Web UI Node Editor screen. Fixed exception when user tried navigating to the Target column title or ID in a Nested References table on a Web UI Node Editor screen. This solution also has a hotfix available that is applicable to nested-references-7.0.8 and another hotfix applicable to step-11.0-mp4.

■ **ISSUE-568376 - Fix for out-of-date serving platform**

Upgraded moment.js dependency to the latest version for the Customer MDM Data Profile component. There is also a hotfix available for this solution that is applicable to step-10.2-mp3 and step-10.3-mp4.

■ **ISSUE-568378 - Fix for lack of authentication config endpoint access**

Now, config resources will not be available for STEP system with SSO enabled if the current session is not authenticated. Fixed workbench inaccessibility issues with config resource blocked. There is also a hotfix available for this solution that is applicable to step-10.2-mp3 and step-10.3-mp4.

■ **ISSUE-568403 - Fix for 'Read Only' setting being ignored for the Reference Header on the Multi Workspace screen**

Now, the 'Read Only' design mode parameter will be correctly respected on a Web UI Node List screen for the Table Header References component configured to display Data Container references.

References will now be shown as read only for the Table Header References component on a Web UI Multi Workspace screen for the approved workspace. There are hotfixes also available for this solution that are applicable to step-11.0-mp2, mp3, and mp4.

■ **ISSUE-568508 - Fix for Reference component not working properly for metadata attributes**

In attributes within the References component in the Web UI, it was not possible to remove inherited dimension dependent LOV values. This has been fixed. This solution is also available as a hotfix that is applicable to step-9.3-mp3, mp4, and mp5.

■ **ISSUE-569033 - Fix for ClassCastException in pre-prod**

Fixed a ClassCastException in a Web UI BGP Notifications Panel caused by Data Container Objects reported in STEP URL format in one of the Background Processes. There is a hotfix for this solution that is also applicable to step-10.1-mp3 through mp6.

■ **ISSUE-569067 - Fix for custom Excel export inability to sort on column values**

Child products in Excel exports from Web UI were sorted randomly. They are now sorted consistently and identically to when exported from the workbench. A step-11.0-mp4 hotfix is also available for this solution.

■ **ISSUE-569120 - Fix for pre-prod financial report crash**

Financial report (B2CReportAction) has been improved to use a newer format than Excel 2003 when writing Excel sheets. Thus, the reports no longer have a maximum limit of 65535 rows. There is a hotfix also available for this solution that is applicable to step-11.0 and step-11.0-mp1 through mp4.

■ **ISSUE-569368 - Fix for the inability to copy values with local formatting when using User Configurable Views**

Introduced a possibility to enforce the 'Enable Locale Formatting' option for Table Header Values that are configured via User Configurable Views in Web UI. To enable this property, contact Stibo Systems Support. It is important to note that this property will affect all the table headers added to User Configurable Views, and it only affects newly created views. This solution is also available as a hotfix that is applicable to step-10.3-mp4.

■ **ISSUE-569586 - Fix for the inability to create a product and view the product details**

Fixed a side effect causing an exception after installing HOTFIX-6019, which was related to initialization of a References component on a Web UI Node Editor. The solution is also available via a hotfix for step-10.3-mp4.

■ **ISSUE-569744 - Fix for manual sorting causing error on Task List**

Fixed IllegalArgumentException sporadically thrown on a Web UI Task List's filtering dialog. There is also a hotfix available for this solution that is applicable to step-10.1-mp4 through mp6 and step-11.0-



mp4.

■ **ISSUE-569851 - Fix for asset search not working in a Run Business Action component**

Now, the assets can be found via typeahead suggestions if a classification is set as a Static Root Node for a Node Picker configured for a Run Business Action component on a Web UI Node Editor. This solution is also available as a hotfix that is applicable to step-10.2-mp3.

■ **ISSUE-570108 - Corrected issue preventing copying of eCatalog configs after update**

This issue was seen after an 11.0-MP4 update. Now, it is again possible to copy and paste eCatalog configurations in workbench. This solution is also available as a hotfix applicable to step-11.0-mp4.

■ **ISSUE-570562 - Fix for reference and link privileges not reflecting in Smartsheets**

Now, references / links cells in exported Excel Smartsheets will be mark as read only if the user, who exported a Smartsheet, does not have privileges to edit these references / link types. There is a hotfix also available for this solution and is applicable to step-10.1-mp4 through mp6.

■ **ISSUE-570924 - Additional logging added to identify Product MDM event processor error**

Gathering of more information from the exception is being done for better debug options. Additionally, there were JavaScript data inconsistencies that were cleaned up as part of the process of working to resolve the issue. This solution is also available as a hotfix that is applicable to step-10.3-mp4.

■ **ISSUE-571039 - Fix for 'Replace Content' is displayed even when the parameter is disabled**

Fixed a problem occurring when the Replace Asset option was visible for vendor users on a Web UI Node Editor for the Referenced Asset Representation component, even if the 'Replace Content' parameter was disabled in the Design Mode configuration.

■ **ISSUE-571262 - Fix for error received when exporting data using Web UI**

The problem was that a NullPointerException (NPE) was thrown if a product was exported from a Web UI if the user did not have view privileges to the product hierarchy above the selected product. The solution is to process the part of the hierarchy where the user has view privileges only. There is a hotfix also available for this solution that is applicable to step-11.0-mp4.

■ **ISSUE-572184 - Updated message shown when attempting to delete your own user name**

When you are logged into STEP and try to delete your user, the message indicating that you cannot delete the user logged into the current session in Workbench has been replaced and improved.

■ **ISSUE-572280 - Fix for URL taking longer time than usual to load**

Changes were made to replace the Google font since it cannot load in the restricted network.

#### ■ **ISSUE-572854 - Fix for failing import of STEPXML**

Fixed a NullPointerException (NPE) in STEP import occurring when FINEST logging was enabled for com.stibo.core.domain bundle. This solution is also available as a hotfix that is applicable to step-11.0-mp4.

#### ■ **ISSUE-572862 - Fix for Web UI article not opening**

Fixed an exception on the Web UI Node Editor screen with the Multi Reference component configured under the Value Section. This solution is also available as a hotfix that is applicable to step-11.0-mp4.

#### ■ **ISSUE-573185 - Fix for Override Control Type Rule 'LOV-Checkbox' not working in Web UI**

Fixed a problem occurring when the Global Override mapping on the Web UI MAIN screen did not work for LOVs and did not change the representation of them. There is a hotfix for step-11.0-mp4 that is also available for this solution.

#### ■ **ISSUE-574085 - Fix for Apache Commons-text library RCE vulnerability**

Addressed security vulnerability in third-party library apache-commons-text in core, ECLASS and Configuration Management STEP components by upgrading a dependency to 1.10.0 version of this library where the vulnerability is addressed. There is also a hotfix for this solution that is applicable to step-10.2-mp3, step-10.3, and step-10.3-mp1, mp2, mp4, and mp5. There is also a hotfix for system-management-7.0.9 and 7.0.11 as well as one for eclassimporter-7.0.67 and 7.0.70.

#### ■ **ISSUE-574353 - Fix for scheduled exports not zipping file**

The problem was seen when SFTP delivery was done. If the delivery configuration contained a filename that was prefixed with an absolute path or a relative path, and zip was switched on, then the delivery failed. The path was used as the upload path, and the filename was also used as the name of the local zip file in the BGP\_ directory. The solution has been to use the filename without path for the temporary file in the BGP\_ directory.

#### ■ **ISSUE-574765 - Fix for References component not working as expected in Web UI**

Fixed a bug with the References component on a Web UI Node Editor that was mishandling dimension inherited references when deleting a local reference pointing to the same target, which caused an inherited reference to be deleted as well.

#### ■ **ISSUE-575295 - Fix for KAFKA Receiver import failure**

Some Background Processes may add audit-log entries. If the audit-logs become big, they are automatically pruned. And if two different processes (or sub-processes) does so at the same time, they may start the pruning at the same time, which could give deadlock errors. This could make the process fail, which could lead to processes being half-way done. This has been fixed so that the probability of deadlock is far less. If it does happen, it will only log it and continue the process since the pruning of old

audit-logs is not relevant for the process. There is a hotfix available for this solution that is applicable to step-11.0-mp4.

#### ■ **ISSUE-575362 - Created a new healthcheck plugin to find and fix duplicate edges**

Added new healthcheck plugin (Nodes having multiple parents) for a Cassandra-specific problem with nodes having two (2) parents.

#### ■ **ISSUE-575950 - Fix for outstanding issues with 'Data Issues Report' Bind**

Fixed the following problems with combined data issues:

1. Now, all attribute-related data issues messages will be correctly shown in combined popup.
2. Now, data issues will be correctly combined if configured as a business condition on workflow transition.

This solution is also available as a hotfix that is applicable to step-10.0-mp3, mp4, and mp5.

#### ■ **ISSUE-577019 - Updated CKEditor Library**

Upgraded a dependency to third-party library CKEditor to the latest 4.20.0\_full version in order to address an XSS vulnerability.

#### ■ **ISSUE-577230 - Fix for inability to clear filters in the Background Process List**

Fixed NullPointerException (NPE) occurring on the Background Process List screen in Web UI when any of the background processes did not have a start date.



## PERFORMANCE ENHANCEMENTS

#### ■ **ISSUE-540109 - Fix for Match and Merge API performance issue**

The previous implementation processed entities one-by-one and created cache for them, which was time consuming. The current solution is processing them all at once. There is also a hotfix for this solution applicable to step-10.2-mp3.

#### ■ **ISSUE-555302 - Fix for search with NULL (!) not working**

Improved performance for exclamation searches in STEP. There is also a hotfix for this solution that is applicable to step-10.0-mp3, mp4, and mp5.

**Note:** Customers may want to search the Support Portal for their Issue Numbers (if shown). To do so, while in the Support Portal, navigate to Issues (in the header bar) and then select 'Search for Issues.' Click on the 'Advanced' option on the filtering bar, and then type in 'issue=' and the Issue number from the

Maintenance Patch Notes. Press Enter or click the magnifying glass icon to run the query. **Users will only be able to view Support Portal issues for Issue Numbers that they have privileges to access. If the issue is not applicable to the user searching, then a 'No issues were found to match your search' message will be displayed.**