STIBO SYSTEMS
MASTER DATA MANAGEMENT

RELEASE NOTES

Release 11.2 (2023.2)

May 2023

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11.2 (2023.2) 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.

Release highlights:

- **Configured PDX Channels** – Providing retailers increased business agility over their product onboarding capabilities to proactively pivot or adapt to evolving markets (Product MDM, PDX)

- **JSON Import** – Addressing companies' need to receive complete data in an efficient, reliable, and consistent manner, with user-friendly formats and tools (Platform)

- **Centralized Authoring** – Improving the ability to create and update new Party Data with Optimized Central Onboarding, new typeahead capabilities including address auto complete, and enhancing the Data Validity features in the Web UI to support references (Customer MDM, Supplier MDM, Location MDM)

- **Accelerator for Retail with Instrument** – Supporting our productized solution for the retail industry by providing a modern user experience using our Instrument UI framework (Product MDM)

- **Outputs to Configured Channels** – Extending the output configurations for configured channels to send product data in various formats, via various delivery methods (PDX, Product MDM)

- **ECLASS Advanced Solution** – Expanding this Industry Standards functionality to include easy setup, importing and exporting data in BMEcat 2005.1 format, and adding JavaScript and workbench actions. (Product MDM)

- **Enhancement Requests** – Adapting to the changing needs of the market and our customers (All)

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 and online help are available in the PDX solution. Once logged into the tool, click Help Center > Documentation using the left navigation panel. Documentation will open in a new tab.

Upgrade Guide and Maintenance Patches

In addition to the individual release notes, upgrading customers should read the 11.2 (2023.2) 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 11.2 (2023.2) to understand the full scope of changes for the 11.2 (2023.2) 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 (and additional components) can be installed using these commands:

```
./spot --upgrade=step:11.2
```

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.

11.2 (2023.2) 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

- Take advantage of new capabilities and enhancements to improve the user experience and increase both productivity and efficiency

- Stay current with releases for security, supportability, third-party application versions, latest industry standards, and more

- Support new business initiatives, which allows for opportunities to expand the use of the solution and increase business value

- 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 11.2 (2023.2) 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

Elasticsearch upgrade required prior to taking STEP 11.2 (2023.2)

Versions 8.6.2 and higher are now supported for Elasticsearch.

> **Important: Customer action is required for on-premise customers using Faceted Search / Elasticsearch.** These customers must upgrade to Elasticsearch 8.6.2 prior to upgrading to 11.2 (2023.2). Faceted search will not work in 11.2 (2023.2) with older versions.

For SaaS customers, servers will automatically be upgraded to the newer version.

Refer to the Faceted Search Enhancements release note for other details around this update.

New component and properties required for Content Hub integrations

For customers using the Content Hub DAM integration functionality, changes are required to the configuration when updating to 11.2 to ensure continued operation.

An additional component called 'external-dam-adapter-v2' must be installed, and two properties must be amended:

- `ContentHub.WebUI.Enabled=true` must be amended to `ExternalDAMAdapter.WebUI.Enabled=false`

- `ContentHub.ClassificationID=[classification name]` must be amended to `ExternalDAMAdapter.ClassificationID=[classification name]`

Contact your Stibo Systems account manager for more information. For more information on integrations between STEP and the Content Hub DAM, refer to the Integration with Content Hub Dam topic.

Empty facets omitted from search results

Facets with *only* blank values will now be omitted from the search results. Previously, when searching on a list of facets, those with blank values would shift around on the list.

Refer to the Faceted Search Enhancements release note for more information.

New automatic stopping of long-running JavaScripts

The flexibility that JavaScript affords in STEP can mean that recommended practices are not always practiced (e.g., employing long running scripts), which can lead to diminished performance that is difficult to troubleshoot. To minimize or prevent performance issues caused by problematic business rules, long-running scripts are now detected and automatically stopped (with an appropriate exception written). This is enabled with a 15-minute deadline.

For more details about this change, refer to the General Enhancements and Changes release note.

TaskList Navigation Handler renamed Workflow Navigation Handler

The 'TaskList Navigation Handler' has been renamed to 'Workflow Navigation Handler.' Details can be found in the Data Exchange Enhancements and Changes release note in this set.

Scheduled Data Export to now exclude empty collection files

In Scheduled Data Export, empty collection files will no longer be delivered. If the user is using an empty collection file, as a way to monitor that a background process is running, then they need to handle this differently by using external systems to do the monitoring instead.

Details can be found in the Data Exchange Enhancements and Changes release note in this release note set

New option for Kafka to manage the topic offset for Kafka Receiver IIEPs

When enabled via a new 'Use Kafka to Manage Offset' parameter available for Kafka Receiver inbound integration endpoints (IIEPs), the Kafka offset management mechanism is used instead of the STEP-owned one.

When switching from having STEP manage the offset to having Kafka do it, upon invoking the IIEP, all messages that Kafka has available for a given topic will be re-fetched. This can be prevented on the Kafka side via customer action, by manually telling it what the offset should be for the IIEP consumer group. This information and concept is explained in online help.

Refer to the Data Exchange Enhancements and Changes release note for more details on this functionality.

STEP to PDX integration: JSON option deprecated with 2023.3 release

For STEP to PDX integrations, starting with the STEP 2023.3 release in September 2023, ONLY the new STEPXML outbound integration will be supported and the old JSON outbound integration will no longer be available. **Users of PDX, regardless of their STEP version, will be required to set up the new STEPXML outbound integration and disable the old JSON outbound integration by the time 2023.3 is released.** Existing customers on the JSON outbound integration must contact their Stibo Systems account or partner manager to discuss migration to the STEPXML outbound integration approach. For more information, refer to the Platform and Software Support Changes release note.

Support, platform, and system admin information

Baseline desupport information is as follows:

- In 2023, support for the 10.0 version ended May 1st and support for 10.1 ends December 1st.
- In 2024, the 10.2 release will be desupported May 1st.

Platform and Software Support information can be found in the 11.2 (2023.2) 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.

Online Help / documentation changes

With every release, documentation updates occur. In addition to documentation that was updated as part of 11.2 (2023.2) projects, the following documentation updates that users should be aware of when upgrading to 2023.2 are listed below:

- For customers who use the Accelerator for Retail solution, a new section has been added to the Data Management Accelerator for Retail enablement documentation that describes how STEP users can control PDX channels for product onboarding via STEP. To review this new documentation, refer to the Controlling the PDX Channel for Product Onboarding topic in the Data Management Accelerator for Retail documentation.

- Documentation was updated to remove information about unsupported versions and functionality. For unsupported platform versions, this includes the removal of the release and maintenance patch notes, which are still accessible via the Stibo Systems Support Portal within the Release Information dashboard. Product MDM for Automotive 10.0 release and maintenance patch notes were also removed and can be provided upon request.

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 11.1, which can be accessed via the 11.1 Release section within the 11.1 Maintenance Patch Notes section of the documentation.

New features incorporated via 11.1 maintenance patches

Below is a list of new features or important announcements introduced / published within the 11.1 release cycle:

- Experian email robustness improvement (MP4)

- Impact to Certain JavaScript Business Rules (MP2 / MP3 / MP4) and in the General Enhancements and Changes release note for 11.2

- New asset push and publish support for image transparency (MP2)

- New JavaScript Barcode Generator (MP2) and in the General Enhancements and Changes release note for 11.2

- Updated Loqate Local engine (MP1)

- New healthchecks identify data inconsistencies for Cassandra (MP1)

- The Add Dialog in data container sorts the attributes as configured in the Headers parameter (MP1)

- Keep ended BGP processes (MP1)

- Proof View in Web UI expanded to include classifications and entities (MP1)

Customer MDM and Supplier MDM Enhancements

Summary

The following enhancements have been made to the Customer and Supplier Master Data Management solution with the 11.2 (2023.2) release. These updates are outlined below and described in the Details section that follows:

- A new Address Typeahead option allows integration with Loqate, Google Places, or other address search services to provide suggestions for validated addresses in Web UI. Validated addresses for individuals and businesses improve contact success via postal deliveries, save money on mass mailings, and increase data deduplication efforts.

- Find Similar is added as a governance feature on a Node Details screen, which enforces that no duplicates are created during an initiation workflow.

- A new business condition type called 'NOT' has been created that inverts the result of another business condition so that 'true' becomes 'false' and 'false' becomes 'true'. This new condition gives business rule writers additional flexibility when creating complex business rules.

- The 'TaskList Navigation Handler' has been renamed to 'Workflow Navigation Handler' and now, on submit, it enables users to follow the task to the next state in the workflow.

- The REST versions of the Match & Merge Web Service and the Find Similar Web Service have been optimized for better performance. Additionally, the error handling in the Match & Merge Web Service has been improved.

Details

Address Typeahead in Web UI

In the Web UI, the new Address Typeahead functionality allows typeahead search for verified address data as provided by integration with Loqate, Google Places, or other address search services. This improves the efficiency and accuracy of typing in address information and the verified address data improves delivery of mail pieces and deduplication efforts.

A subscription with an address search service and a one-time configuration in STEP results in the address search functionality displaying for selected address attributes identified in the Address Component Model. Typing at least two characters of an address retrieves the top 10 potential matches from the external service. The user can select a general address from the dropdown menu that displays, or can click the arrow (>) next to a dropdown menu item to select from an extended list of specific house number addresses.

Address Typeahead is available on systems that have the Address Validation Service commercial license enabled.

For details on the new functionality and configuration, refer to the Address Typeahead topic in the Web User Interfaces documentation.

Find Similar as a governance feature

With release 11.2 (2023.2), Find Similar is added as a governance feature on a Node Details screen, which enforces that no duplicates are created during an initiation workflow. This also allows bypassing the Initiate screen when creating new objects and enables the use of data containers during the Find Similar process.

The workflow will prevent the creation of duplicates by not allowing the tasks to transition before any Potential Duplicates have been resolved.

For more information, refer to the Find Similar in Workflows topic in the Matching, Linking, and Merging documentation.

New business condition type called 'NOT'

The new business condition type 'NOT' enables users to invert the result of another condition, giving business rule writers additional flexibility when creating complex business rules. For more details, refer to the General Enhancements and Changes release note.

Improved and renamed Navigation Handler

With the navigation handler 'Workflow Navigation Handler' users can now configure a screen navigation that allows them to follow a task through the configured states in a workflow. For more details, refer to the General Enhancements and Changes release note.

Match & Merge Web Service and Find Similar Web Service Performance Optimization

The REST version of the Match & Merge Web Service has been optimized for better performance with small requests. The response time has been reduced, and the maximum possible throughput has been increased.

> **Note:** Parallel processing of multiple records in the same request has been deprecated, so records in the same request will now always be handled sequentially. For customers upgrading from a previous version and with existing configurations of a parallel degree higher than 2, this can be re-enabled. Contact your Stibo Systems account manager or Stibo Systems support.

Additionally, the error handling in the Match & Merge Web Service has been improved, so when a single entity in a request fails, it does not fail for any other entities in the same request.

The REST version of the Find Similar Web Service has been optimized for better performance.

For more information, refer to the **Web Service Endpoints** topic in the **Data Exchange** documentation.

Data Exchange Enhancements and Changes

Summary

The following enhancements to STEP's data exchange functionality have been made as part of the 11.2 (2023.2) release. These updates are outlined below and described in the Details section that follows:

- The Import Manager and IIEPs now include an out-of-the-box Generic JSON format for imports. Users can import a JSON file structure including mapping and transformations as needed.

- Data Sufficiency Messages and Calculation Dates can now be exported in human-readable format in Excel and CSV, allowing these messages and calculation dates usable for external analysis and communication with users outside of STEP.

- Logging information is now available in the Performance Analysis Tools for EPs and OIEPs running in Efficient Mode to help STEP admins determine how much time is spent analyzing and removing duplicate events. The information is useful in determining which mode is best to use for different use cases.

- Support for inbound mTLS is now available on SaaS environments. Using mTLS provides another level of security for system protection, ensuring that traffic is secure and trusted in both directions.

- The option to have Kafka manage the topic offset for Kafka Receiver IIEPs is now available. Now, Kafka will be aware of which messages have been consumed.

- Collections used in Scheduled Data Export will no longer deliver an empty file.

- Configured PDX Channels can now be set up by customers, partners, and consultants, eliminating the need for custom development by the PDX team. This speeds up the process and also increases retailers' business agility with a deployment that is adaptable to their changing needs.

- The ECLASS Advanced solution has been expanded to include an easy setup, importing and exporting of ECLASS Advanced data in BMEcat 2005.1 format, and JavaScript and workbench actions.

- The importing and exporting of ECLASS Advanced data in BMEcat 2005.1 format has been added to support the industry standards capabilities.

- SaaS customers can utilize Stibo Systems GDSN Receiver securely with an AS2 connection, and a new GDSN Receiver version is available.

- A new Data Onboarding solution simplifies data exchange between different data models or STEP objects.

Refer to the Web UI Enhancements and Changes release note for additional 11.2 (2023.2) information regarding Web UI-specific components / functionality. Also, check the 'Bugfixes' section of the Miscellaneous Bugfixes topic for specific fixes related to Data Exchange.

Details

Generic JSON out-of-the-box import option

In release 11.0, the Generic JSON format was introduced for export via the Export Manager and outbound integration endpoints (OIEPs). Now, the Generic JSON format is supported for imports via the Import Manager and inbound integration endpoints (IIEPs). This new functionality significantly simplifies the work for STEP administrators and enterprise architects as they can now import data in JSON format without requiring scripting, extensions, or other complex configurations. Additionally, having out-of-the-box solutions for Generic JSON import and export helps simplify the integration landscape via the exchange of data in the same format throughout the customer ecosystem and with external data trading partners.

Existing methods of importing data in JSON format are still available to support non-standard use cases, but customers should attempt to use the out-of-box format whenever possible to reduce extensions, experience smoother upgrades, and optimize inbound performance.

The new Generic JSON documentation includes examples of input files, templates, and the resulting new objects in STEP. Refer to the Generic JSON Inbound Processing Instructions topic in the Data Exchange documentation.

Data Sufficiency error messages now exportable in human-readable format

The exported data of Data Sufficiency messages and calculation dates are now available in human-readable format in Excel and CSV. Sufficiency calculation dates and error messages are stored in an encoded format, which is decoded for display in the Sufficiency Panel in the Web UI. This information is usable for external analysis and communication with users outside of STEP.

This supports users who are correcting data on a product-by-product level in the Web UI, but does not support cases where external management or analysis of the data is desired. For example, to review errors across a set of products in bulk and import data changes accordingly, or to perform further analysis to identify repeating or frequent problem areas.

To address these cases, two new transformations are available in the export mapper that transform the date and time information from epoch to ISO format and one that decodes the sufficiency messages, allowing the data to be extracted in human readable format in both Excel and CSV during export.

For more information, refer to the Sufficiency Configuration Type topic in the Data Governance documentation and Attribute Transformations topic in the System Setup documentation.

Logging added to help determine the best Event Mode for EPs and OIEPs

In the Performance Analysis Tool Activity tree, logging has been added for the time spent deduplicating events when an event processor (EP) or outbound integration endpoint (OIEP) is configured with the Efficient Event Mode. Using this information, customers can make data-driven decisions regarding which is the best mode to use (Efficient or Detailed), as the decision is highly dependent on the underlying use case and overall expected throughput. In some cases the time it takes to complete the deduplication of events outweighs the potential performance gains in processing, while in other cases the processing itself is the bottleneck. Therefore, being able to compare the time spent deduplicating against the overall run time supports administrators in selecting the setting that will lead to the most optimal performance for their particular scenario.

For more information regarding OIEP setup and configuration, refer to these topics in the Outbound Integration Endpoints section of the Data Exchange documentation:

- Creating an Event-Based Outbound Integration Endpoint

- OIEP - Event-Based - Manual Configuration

For more information on configuring an EP, refer to the EP - Event Processor Tab topic in the Event Processor section of the System Setup documentation.

New SaaS inbound mTLS authentication capabilities
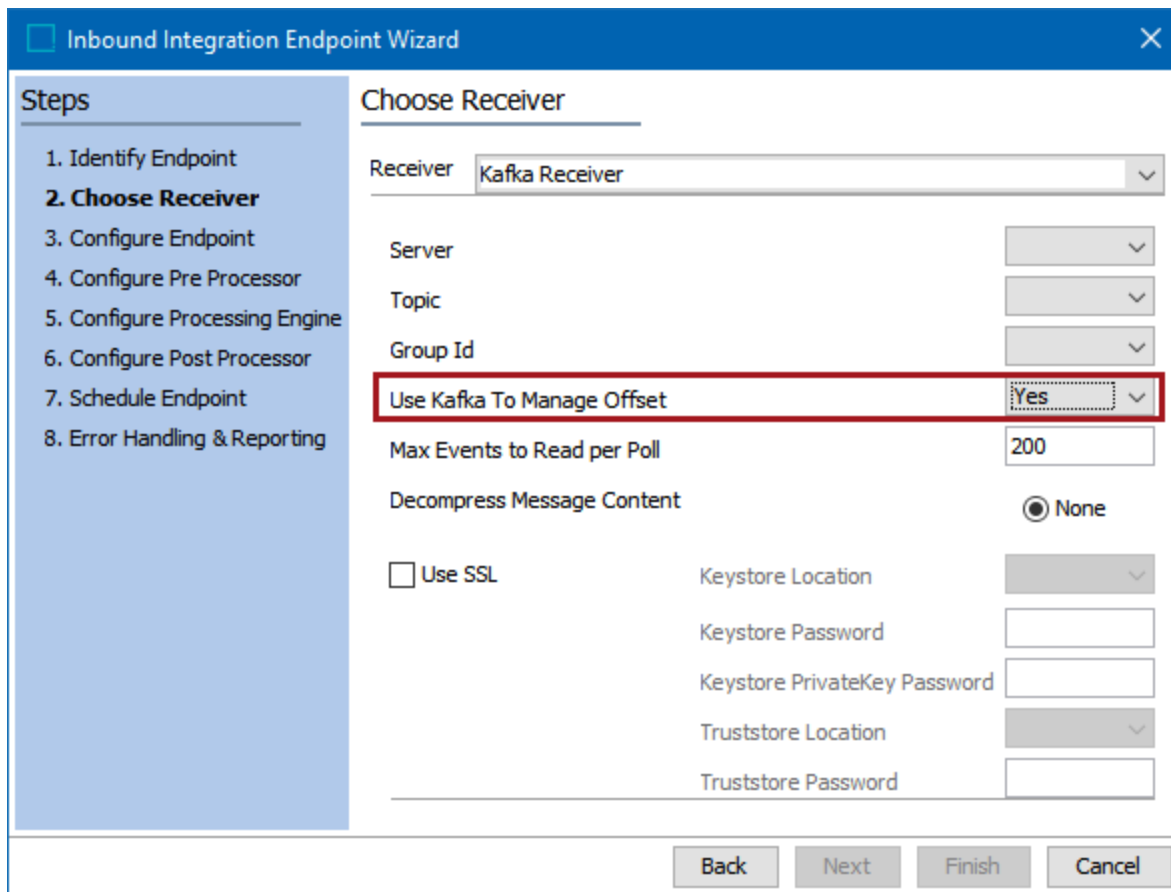
TLS (Transport Layer Security) is a well-established one-way security protocol, and mTLS (Mutual TLS) is the two-way version that requires both parties involved in the communication (server and client) to authenticate each other. To continue to support the latest security and authentication protocols, mTLS for inbound data is now available for SaaS environments via GraphQL, SOAP, RESTv2, and RESTv1.

'Inbound' refers to requests made externally from STEP by another system. The existing options relevant for mTLS authentication are S3 / Azure Cloud Blob Storage and Kafka. Additionally, like the outbound mTLS solution, multiple certificates and/or keystores can be defined and individually selected.

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

New option for Kafka to manage the topic offset for Kafka Receiver IIEPs

When enabled via a new 'Use Kafka to Manage Offset' parameter available for Kafka Receiver inbound integration endpoints (IIEPs), the Kafka offset management mechanism is used instead of the STEP-owned one. This means that STEP commits the offset back to Kafka as soon as the message is read by STEP, although reading the message does not necessarily equate to successfully processing it. However, committing the offset when read makes it easier to manage the overall throughput, and when combined with the retention period setting in Kafka, can determine when messages can be purged in Kafka. Previously, the offset was managed completely in STEP with no commits done to Kafka.

When switching from having STEP manage the offset to having Kafka do it, upon invoking the IIEP, all messages that Kafka has available for a given topic will be re-fetched. This can be prevented on the Kafka side via manual intervention that is described in online help.

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

Exclude empty files generated from a collection via the Scheduled Data Export

For the Scheduled Data Export, when the export is based on a collection and the collection is set to refresh at each run, empty collection files will no longer be delivered. If the user is using an empty collection file as a way to monitor the status of the background process, then they need to handle this differently by using external systems to do the monitoring instead.

Previously, when a scheduled export (from Export Manager) was based on a collection, and the collection was set to refresh at each run. If the refreshed collection was empty, a file was still produced but it was empty (i.e., with no content). This was confusing for end users as the typical use case for a collection-driven scheduled export is to export a set of objects needing action, such as all products in a specific workflow state, or all objects with a particular attribute value (such as an upcoming publishing or expiration date). End users receiving an empty file were therefore distracted when no action was needed and/or were confused as to whether the export had failed or if the empty content was accurate. Further, it was inconsistent with the behavior in outbound integration endpoints where an empty file would not be sent as a result of a refreshed empty collection.

Non delivery of the empty files is consistent with other export methods, including outbound integration endpoints (OIEPs). This streamlines the process for end users by preventing confusion, improving productivity, and creating a consistent experience across exports.

For more information, refer to the Scheduling a Data Export topic in the Export Manager documentation and Monitoring an OIEP via External Systems in the Export Manager documentation.

New feature to set up PDX Onboarding channels in STEP

A new PDX Onboarding Channel Configurator solution has been introduced in STEP, enabling users to create PDX Onboarding channel configurations. This feature aims to simplify the PDX channel creation and its management in the Web UI, making it possible for more STEP implementations to quickly adopt PDX as the vendor facing product data onboarding solution.

With the new PDX Onboarding Channel Configurator component, which is designed to be standardized and driven by user input, retailers and their customers will benefit from an exclusive channel management solution. Implementing this new feature in the Web UI will allow customers to experience a more straightforward adoption process, faster implementation, and a quicker realization of its value. In order to take advantage of the PDX Onboarding Channel Configurator for PDX channel creation, some prerequisites must be in place: It is recommended that a discovery / data model analysis is completed before implementing this component as adjustments may be required for the setup process.

This new feature will significantly improve the ability to easily create onboarding channels, providing a more efficient solution for implementing and maintaining an onboarding channel within the STEP system.

Using the functionality requires the enablement of the Product Data Exchange Syndication commercial license.

> **Note:** The PDX Onboarding Channel Configurator is compatible with STEP versions 10.3, 11.0, 11.1, and 11.2.

For more information, refer to the PDX Onboarding Channel Configurator topic.

Expanded ECLASS Advanced industry standard solution

The Product Master Data Management (Product MDM) solution has recently expanded its functionality by including support for the ECLASS Advanced Industry Standard. This means that users can now easily import ECLASS Advanced files such as the ECLASS Unit, ECLASS Dictionary and BMECAT 2005.1 files into the system.

To use this functionality, it is necessary to have the ECLASS ADVANCED commercial license enabled. This functionality has also been backported to eclass-component-model component versions that are compatible with the last maintenance patches for STEP 11.1 and 10.3. Existing customers are advised to reach out to Stibo Systems Support prior to upgrading to newer versions.

The Easy Set-up action can automatically create the ECLASS Advanced data model, Inbound Integration Endpoints that facilitate the import of Unit, Dictionary, and BMEcat data, import widgets, and standard users for importing. This makes the process of importing and exporting ECLASS Advanced data much simpler and more efficient for business users who are responsible for managing product data in the system.

New importing / exporting of BMEcat 2005.1 industry standard data

It is now possible to import and export BMEcat 2005.1 industry standard data in the STEP system. BMEcat 2005.1 is a format designed specifically for the transport of ECLASS Advanced data, and therefore the importer for BMEcat 2005.1 can only be used in conjunction with ECLASS Advanced. To use this functionality, it is necessary to have the ECLASS ADVANCED commercial license enabled.

It is important to note that BMEcat data corresponds to certain ECLASS Advanced version(s) and it is necessary that the corresponding ECLASS Advanced version has been imported before the BMEcat data import takes place.

Additional industry standard updates

Additional industry standard support includes:

- With 11.2, SaaS customers can utilize our GDSN Receiver securely with an AS2 connection.

- The GS1 Maintenance Release 3.1.23 (May 2023) for the STEP GDSN Receiver solution is available. Read the release notes before importing the files. They can be found on the Release Information dashboard of the Stibo Systems Support Portal. This is a Stibo Systems product release for GDSN Receiver. The GS1 maintenance release is on May 20, 2023.

New Data Onboarding solution

Industries have varying data exchange standards, and STEP facilitates the import and export of files in multiple industry standards. However, each standard has a distinct data model for storing and handling data. Organizing products across different standards and data models can be challenging when dealing with imported files from multiple standards.

The Data Onboarding solution offers a valuable tool for simplifying data exchange between different data models or STEP objects, leading to greater efficiency in data maintenance within the STEP system. This solution optimizes the process of importing supplier data and mapping it into standard and proprietary data models. With the Mapper functionality, users can effortlessly move data, such as ID, name, and attribute values, between STEP objects, significantly reducing the configuration process's complexity. Data mapping can be executed via business rules or background processes, providing users with greater flexibility in managing their data.

To optimize the user experience of the Data Onboarding solution, it features several Web UI components such as the Comparison screen, Stacked mapper action, and Onboarding action. Previously, this solution was integrated as an embedded component in the PMDM for Automotive STEP instance, and now it has been enhanced to support all industry standards.

The functionality requires the enablement of the Onboarding Mapper license / component.

Faceted Search Enhancements

Summary

The following enhancements to STEP's faceted-search functionality have been made as part of the 11.2 (2023.2) release and are described in the Details section:

- Elasticsearch version support update, which includes improvements to the integration code. **On-premise customers will need to take action to perform a server update before upgrading to 11.2 (2023.2).**

- STEPXMLexport is now used to fetch data in bulk directly from STEP when publishing to Elasticsearch, allowing for faster publishing.

- Facets with *only* blank values are now omitted from search results so that only relevant facets will display.

Details

Elasticsearch version support update with required upgrade

STEP now supports Elasticsearch version 8.6.2 and higher. Improvements made in this version will make it easier to maintain for future enhancements.

> **Important: On-premise customers must upgrade to version 8.6.2 prior to installing 11.2 (2023.2) in order to continue using the Elasticsearch solution. The solution will not work with older versions.** For SaaS customers, this upgrade is done automatically.

For more information, refer to the Initial Setup for Elasticsearch topic in the Web User Interfaces documentation and the Upgrade Guide in the 11.2 (2023.2) release note set.

Elasticsearch publishing performance improvement

STEPXML export is now used to fetch nodes in bulk when publishing to Elasticsearch, allowing for faster publishing to Elasticsearch. By increasing publishing speeds between STEP and Elasticsearch, you will be able to utilize the search solution to its fullest potential, while continuing to increase data volumes without experiencing delays.

Updated search display for empty facets

Any time a user searches on a list of facets, those facets with *only* blank values (i.e., the whole data set does not have any value) will now be omitted. This keeps the list consistent and limits the results to relevant facets only.

For more information about Faceted Search, refer to the Search Screen Search Configuration 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:

- In the Web UI, custom messages can be configured for the Mandatory and Read Only Data Validation bind options. Custom messages can be used to alert users to the requirements for successful data enrichment. Additionally, data validation configuration is simplified via the Global Representation List parameter, allowing administrators to configure one validation rule that applies to all Web UI screens that include the relevant attribute or reference.

- In the Web UI, complex data (e.g., data containers, references and their metadata) can be mapped and exported in a user-friendly format without utilizing saved configurations using multiple mapping options via the Custom Export Action.

- A new configuration parameter called 'Default for Export Objects' is added to the Custom Export Action properties, giving admins the ability to determine how objects are exported by default.

- In the Web UI, multi-select is available when selecting attributes and attribute groups for the User Configurable Views, providing a more streamlined process for users.

- Initiating business actions is now available from the toolbar on the Globally Configured Multi Edit Data Container editor in the Web UI, allowing users to select individual data container instances to execute the action on and making the user experience consistent with other table-based editors.

- Visual indicators have been added to denote which data containers are inherited when using the Globally Configured Multi Edit Data Container, providing users with a more consistent and predictable experience.

- The new, intuitive web-based user interface is available to select early adopters.

Details

Custom messages in Data Validation binds and global configuration

The Mandatory and Read Only binds have been expanded to enable display of custom messages on relevant attributes and references without using a Data Issues Report bind. Configured in workbench, messages set up with these binds can help explain to Web UI users why a given attribute or reference has been designated as mandatory or read-only. Importantly, these messages do not override Data Issues Report messages that must also be displayed to the user. The Data Issues error and/or warning messages display first, followed by messages configured with the Mandatory and Read Only binds.

Additionally, while the previous data validation configuration has not changed, the Data Validation business condition can now be applied to the Web UI globally via the Global Representation List with the new 'Globally Configured Data Validations' component. Objects added to the Triggering Data Type parameter run the business condition regardless of the Web UI screen. This eliminates the need to add a validating business condition to each screen that needs it, saving administrators time to focus on other tasks.

For more information, refer to the Data Validation in Web UI topic in the Web User Interfaces documentation, and the Data Validation Binds topic in the Resource Materials documentation.

New options for mapping and exporting complex data using Custom Export Action

In the Web UI, the Custom Export Action now enables users to export complex data—which is defined as repeating multi-point data often modeled with references and metadata or data containers—so that each data point is given its own row in the exported Excel and CSV file. With the 11.1 release, this kind of export was made possible by enabling admin users to create an export configuration in the workbench and then implement that configuration for use in the Web UI.

With this release, the Web UI now enables end users to easily export complex data without the need for export configurations. Users can now select from seven new headers when mapping columns in the Custom Export component. The new headers are:

- Parent ID

- Data Type

- Data Owner Node

- Reference Type ID

- Data Container Type ID

- Insert References

- Insert Data Containers
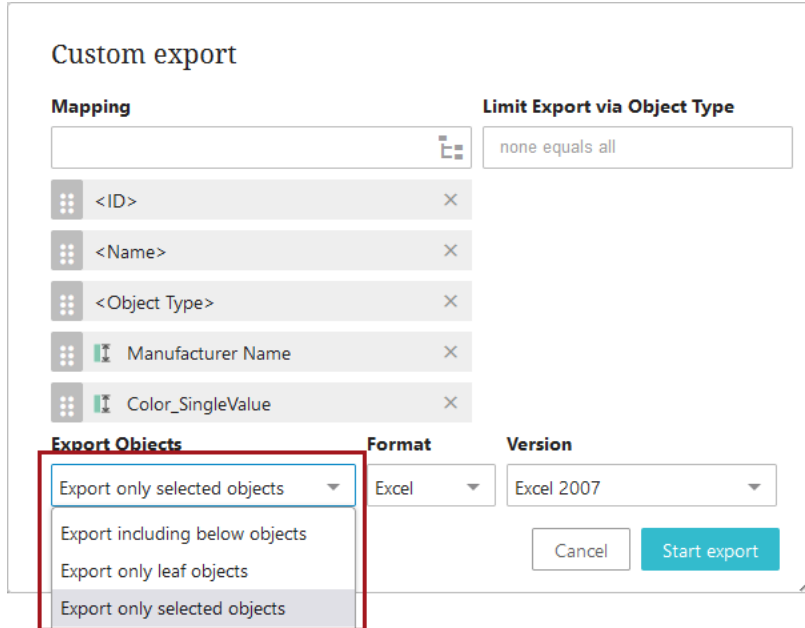
When mapped into columns using the Custom Export component, these new headers help ensure that salespersons, product managers, and suppliers can create ad hoc reports in a user-friendly format that allows recipients to easily and correctly associate data container instances with their values, or references with their corresponding metadata.
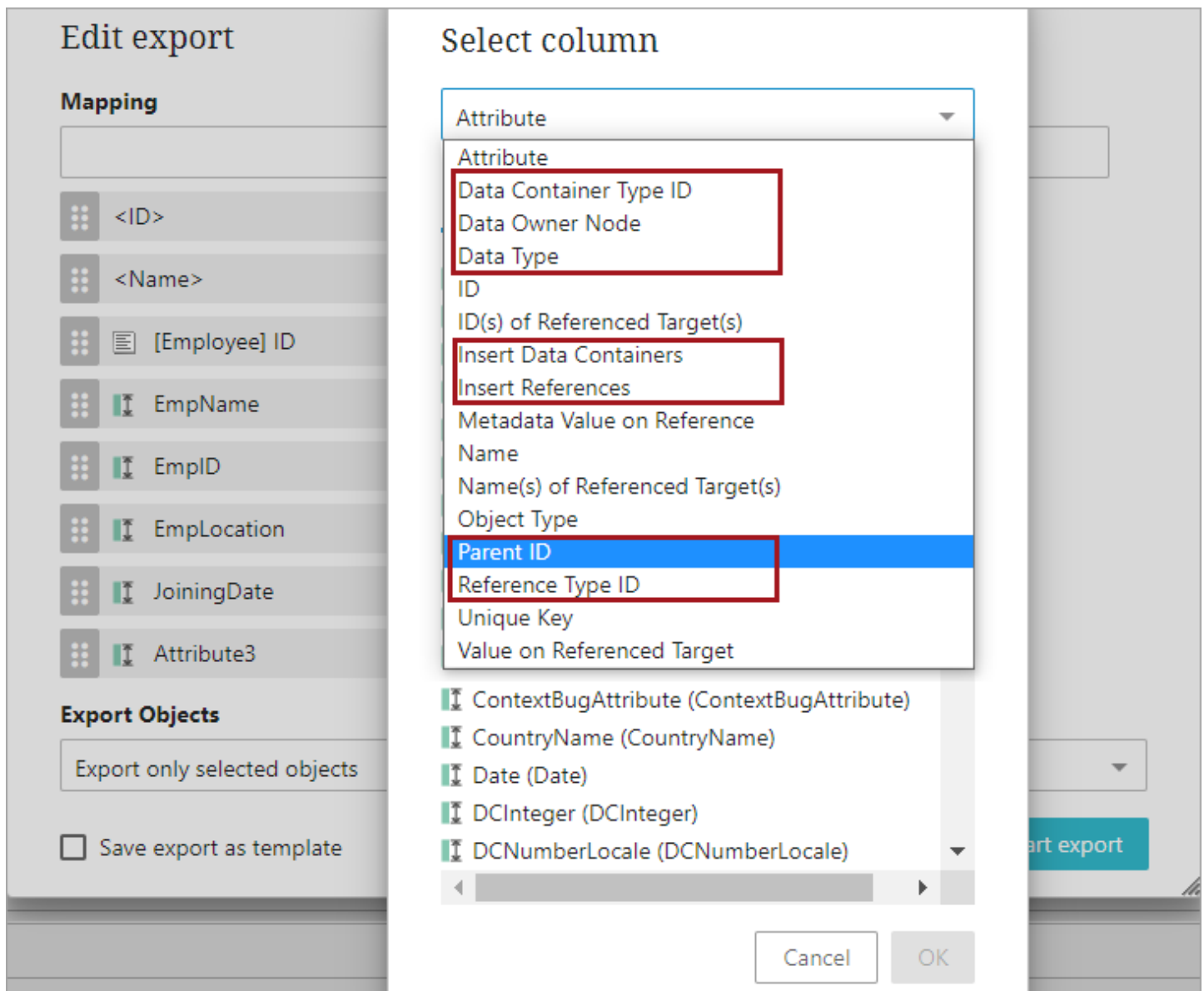
For more information, refer to the Custom Export Action topic in the Web User Interfaces documentation.

New selectable default for exported objects in the Custom Export Action

In the Web UI, a new configuration parameter called 'Default for Export Objects' is now available for the Custom Export Action component. The new parameter allows administrators to select which export option will be the default for the Export Objects field in the Custom Export editor dialog.

Based on which of the available three options-- 'Export including below objects', 'Export only leaf objects', and 'Export only selected objects' -- is selected for the 'Default for Export Objects' parameter, that export type option will be the default for that instance of the Custom Export Action. Previously, the default was set to 'Export including below objects' which could result in larger exports than expected. The new default is 'Export only selected objects'. This default will be implemented if no option is set for the 'Default for Export Objects'.

For more information, refer to the Custom Export Action topic in the Web User Interfaces documentation.

Multi selection of attributes / attribute groups available for User Configurable Views

When configuring User Configurable Views in the Web UI, users can now multi-select attributes and attributes groups when adding or editing new views using the Apply View toolbar action. Previously, uses could only add one attribute or attribute group at a time; when the user attempted to multi-select attributes and / or attribute groups, the OK button was disabled and an error message was shown.
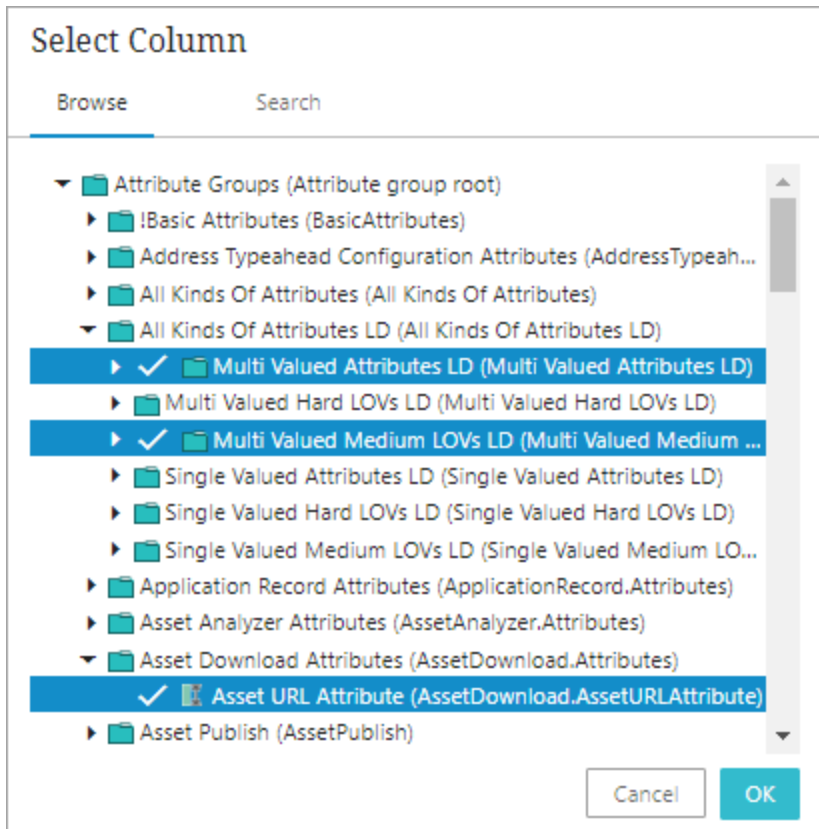
For more information, refer to the User Configurable Views topic in the Web User Interfaces documentation.

Initiating business actions available in data container Multi Edit Table View

Admins configuring data containers using the Globally Configured Multi Edit Data Container editor in the Web UI can now add the Initiate Business Action as a toolbar action. This toolbar action gives data stewards more granular control over their data container information by allowing users to select individual data container instances to execute a given business action on, providing a clearer and more consistent user experience.

Previously, it was possible to run a business action against all instances of a data container type via an action button configured at the bottom of the screen, but this could cause confusion as it was not always clear to users (e.g., product managers and content editors) which data container the action was being applied to. Now users can apply specific business actions directly to the desired data container table.

Add Component

Add Data Container Action	A toolbar action component to initiate a business action.
Delete From Grid Action	
Duplicate Data Container Action	
Hide Equal	
Initiate Business Action	
Mark Different	
Menu Group	
Show Revision History Action	

Filter

☐ Show deprecated components

[Cancel] [Add]

For more information, refer to the Globally Configured Multi Edit Data Container topic in the Web User Interfaces documentation

Inherited data containers now identifiable in the Globally Configured Multi Edit Data Container component

The Globally Configured Multi Edit Data Container in the Web UI now clearly displays whether a data container is inherited or not. This is accomplished via a red or green arrow displaying on the row: green when inherited from a parent, and red when inherited from a context. Inherited data containers will appear as read-only, meaning the user can only edit the data container by adding a local data container instance or by editing at the parental level, which preserves the integrity of the inherited data.

Previously, inherited data containers configured using the Globally Configured Multi Edit Data Container would not show as read-only, giving users the impression that the inherited data container could be edited. This change provides users with a clearer display of inherited data containers, enabling a more streamlined and consistent user experience, and ensures that users do not unknowingly update an inherited instance.

	ID	EmpID	EmpName	*EmpLocation	SingleReference	*JoiningDate	Ranking
☐	29897	P201	Tina	INDIA	EMP Excel 1	06-May-2020	45
☐	29899	P409	George	GERMANY	EMP Excel 3	10-Mar-2021	26
☐	29901	P114	David	USA	EMP Excel 4	14-Oct-2019	66
☐	29903	P786	Gracy	UK	EMP Excel 2	01-Feb-2022	52

For more information, refer to the Globally Configured Multi Edit Data Container topic in the Web User Interfaces documentation

New user interface designed to provide an intuitive user journey

The new Instrument user interface (UI) is designed to provide an intuitive user journey and is now available for select implementations.

Supporting our productized solution for the retail industry and, ultimately, strengthening our offerings to all our core verticals, the Instrument UI provides users a modern and intuitive user interface (UI) and user experience (UX) to utilizing STEP Accelerator-based solutions.

Instrument is a user-driven UI that is standardized and scalable—with few configurations required. Customers using Instrument will find it easier to adopt, faster to implement, and will realize a faster time to value. With this initial release, Accelerator for Retail will be the first product delivered with Instrument.

For Web UI users, it is important to note that Web UI continues to be available and supported. Web UI and Instrument are currently addressing different journeys.
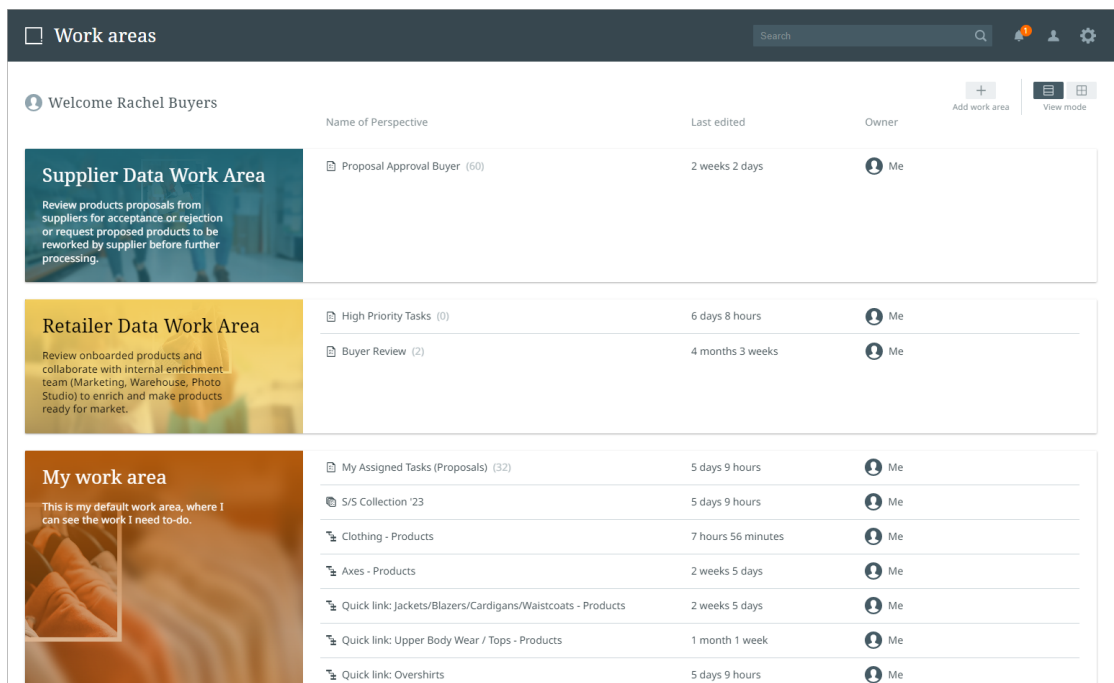
The Instrument UI is in ramp-up status and will be rolled out gradually. It will initially be enabled only for specific early-adopter deployments. To learn more about the ramp-up phase / status, refer to the License and Component Lifecycle in the System Release and Patch Notes section of online help.

General Enhancements and Changes

Summary

The following enhancements and changes have been made as part of the 11.2 (2023.2) release. These are outlined below and described in the Details section that follows:

- A new healthcheck is available to identify business rules that run too long and potentially create performance issues. By default, healthcheck issues of this type are registered after five (5) minutes and automatically stop rules running longer than 15 minutes. This enables administrators to proactively improve performance and reduce downtime.

- EAN, ITF, or UPC barcodes and QR codes can be generated via the 'Barcode generator' JavaScript bind. Adding a barcode to products can make product onboarding easier for customers.

- An update to the public API with the 'Asynchronous translation' component is available to customers and partners that makes it easier to code asynchronous translation services.

- The SaaS Self-Service UI now includes several new features such as upgrading STEP environments to a new feature release, creation of a time-limited release preview sandbox and support for using EdDSA-ed25519 keys for SFTP authentication.

- A new image conversion microservice that allows customers to handle their image conversion workloads outside of STEP is in the ramp-up phase.

- A new method (getCurrentTranslationStatus), added to the STEP Scripting and Extension APIs, reads the translation status of an object via business rules considering both its context and workspaces. This allows business processes to detect and react to translation statuses to, for example, export data to other systems or to assess translation status as part of sufficiency scoring.

- A warning dialog now ensures the Business Rule Editor dialog does not accidentally close (e.g., when a user hits Cancel or the Esc key) without saving the changes. This provides better experience while working with business rules.

- New DaaS initiatives, including event messaging and query by attribute value, better serve customers using the DaaS offering.

- A new business condition type called 'NOT' has been created that inverts the result of another business condition so that 'true' becomes 'false' and 'false' becomes 'true'. This new condition gives business rule writers additional flexibility when creating complex business rules.

- The 'TaskList Navigation Handler' has been renamed to 'Workflow Navigation Handler' and now, on submit, it enables users to follow the task to the next state in the workflow.

Details

New healthcheck identifies business rule performance issues and stops long-running rules

In order to minimize or prevent performance issues caused by problematic business rules, long-running scripts are now detected, automatically stopped, and logged with an exception. This will help to ensure that systems are reliably available and performing optimally, thus reducing delays and frustration.

The new 'Business rule execution time too long' healthcheck identifies business rules that should be reviewed. By default, business rules are reported as a warning if they run longer than five (5) minutes and are stopped and reported as an error if they run longer than 15 minutes. The healthcheck runs on schedule to alert admins or developers of business rules that may combine many operations into one rule, call external services with slow response times, access many objects, or access objects with many revisions. The identified business rules should be rewritten and/or the involved objects should be modified to eliminate performance issues.

Name		Category		Issues	Min (0) to Max (10)	Severity		Status		Completed
All		All				All		All		
Business rule execution time too long		Performance			3	High		Succeeded		27/02/2023, 13:41:52

The healthcheck is available in the Admin Portal on the Healthcheck tab and also from the STEP Performance Analysis link on your system's Start Page. For more information refer to the Healthcheck Test Index topic in the Administration Portal documentation.

New JavaScript barcode / QR code generator

The new 'Barcode generator' JavaScript bind can generate one-dimensional EAN, ITF, or UPC barcodes, as well as two-dimensional QR codes. With 11.1-MP2, it was made possible to generate theses codes via JavaScript, rather than requiring a custom extension, and the capability was added to the baseline for all future releases.

Images are generated completely in STEP (for security, no external services are used), and each generated image is saved as the specified asset object type (for example, using an object type of 'barcode'). Using existing JavaScript capabilities allows a business action to be run as part of a workflow or an approval that reads the relevant data from the product, creates the necessary code as an asset, and links that asset to the product. This is expected to streamline the product onboarding process for Product Managers and the like who must ensure that a barcode is in place prior to approval of a product.
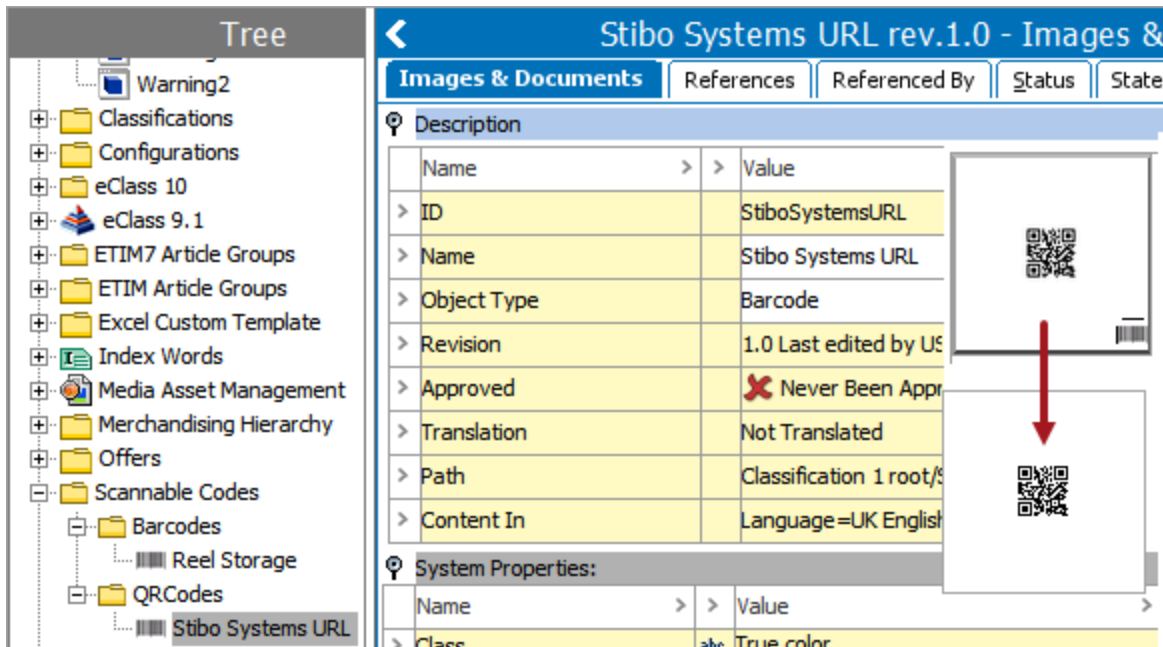
To make the barcode available for use with a product, setup is required to create a reference from the barcode asset to the applicable product. The additional setup can be implemented via JavaScript or using standard functionality available in STEP. For more information, refer to the Barcode Generator Bind topic within the Resource Materials online help.

New Asynchronous Translation component public API update

The 'Asynchronous Translation' component has been added to the public API. This will make it easier for partners and customers to code an asynchronous translation service. Previously, partners and customers would need to code methods for finding the products that need translation, finding the attributes, finding the languages, setting the translation status. These methods are now available as part of the public API.

For more details, refer to the STEP API Documentation available at [system]/sdk or accessible from the system Start Page.

SaaS Self-Service UI improvements

The following new features have been added to the SaaS Self-Service UI that enable SaaS customers further to maintain their STEP environments without requiring any involvement of Stibo Systems support:

- Until now, customers could only upgrade their STEP environments to a new maintenance patch release from the Self-Service UI, this limitation has now been removed and upgrades to new feature releases are also supported.

- Customers can now create a time-limited Release Preview Sandbox to try out the latest STEP feature release without having to upgrade any of their existing environments. The Release Preview Sandbox is free of charge, fully functional, and is automatically decommissioned after a period of seven (7) days.

- The use of EdDSA-ed25519 keys for SFTP authentication is now supported for Stibo Systems SaaS environments and customers can configure these public keys themselves in their SaaS Self-Service UI. This new key algorithm improves security and performance over using the RSA key algorithm that was available already.

- The environment Refresh Configuration tab has been extended with the ability to upload files. This provides further flexibility for customers in the process of refreshing their Sandbox environments and also provides the ability to reset these environments to 'vanilla' (i.e., plain) state when required.

- Customers can now view the descriptions of hotfixes that are included when upgrading a STEP environment to a new image.

Some of the above features are being rolled-out gradually to all SaaS customers and may not be available immediately. More information about the new features can be found in the SaaS Self-Service UI built-in User Guide.

New image conversion microservice

A new multi-tenant microservice allows image-conversion workloads to be separated from the STEP core services, optimally benefiting from cloud elasticity that automatically scales depending on the workload, without impacting the performance of the STEP core service.

This new microservice is currently in the ramp-up phase. To learn more about the ramp-up phase / status, refer to the License and Component Lifecycle topic in the System Release and Patch Notes section of online help.

Data Sufficiency error messages now exportable in human-readable format

The exported data of Data Sufficiency messages and calculation dates are now available in human-readable format in Excel and CSV. Sufficiency calculation dates and error messages are stored in an encoded format, which is decoded for display in the Sufficiency Panel in the Web UI. This information is usable for external analysis and communication with users outside of STEP.

This supports users who are correcting data on a product-by-product level in the Web UI, but does not support cases where external management or analysis of the data is desired. For example, to review errors across a set of products in bulk and import data changes accordingly, or to perform further analysis to identify repeating or frequent problem areas.

To address these cases, two new transformations are available in the export mapper that transform the date and time information from epoch to ISO format and one that decodes the sufficiency messages, allowing the data to be extracted in human readable format in both Excel and CSV during export.

For more information, refer to the Sufficiency Configuration Type topic in the Data Governance documentation and Attribute Transformations topic in the System Setup documentation.

Get translation status of a node via business rule

A new method (getCurrentTranslationStatus), added to the public API, allows users to now access the translation status of any object through business rules considering both its context and workspace.

Some use cases it could support include:

- It ensures that only translated objects are exported.
- It factors translation status into the sufficiency score of an object.
- It checks translation status as part of an approval.

This supports a fuller integration of the translation status into overall business processes and allows the user to react to the translation status outside of the translation workflow and other translation-specific processes.

For more information, refer to the Business Rules topic in the Business Rules documentation.

Scripting API and Extension API information can be found in the STEP API Documentation available at [system]/sdk or accessible from the system Start Page.

New warning for unsaved changes when exiting Business Rule Editor

In workbench, a warning dialog displays in the Business Rule Editor anytime there are any unsaved changes when the user attempts to exit without saving those changes. This prompting will provide the user a better overall experience when working with business rules in STEP, ensuring that edits are not accidentally lost (e.g., lengthy JavaScript) and preventing user frustration.
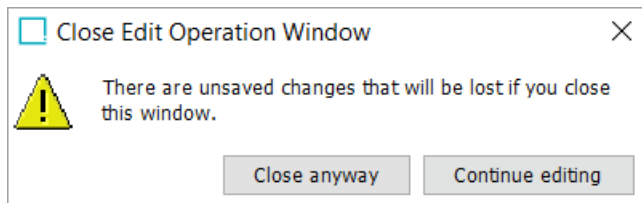
For more information, refer to the Business Rules topic in the Web User Interfaces documentation.

DaaS Improvements

New capabilities have extended the set of use cases and applications for Stibo Systems' Data as a Service (DaaS):
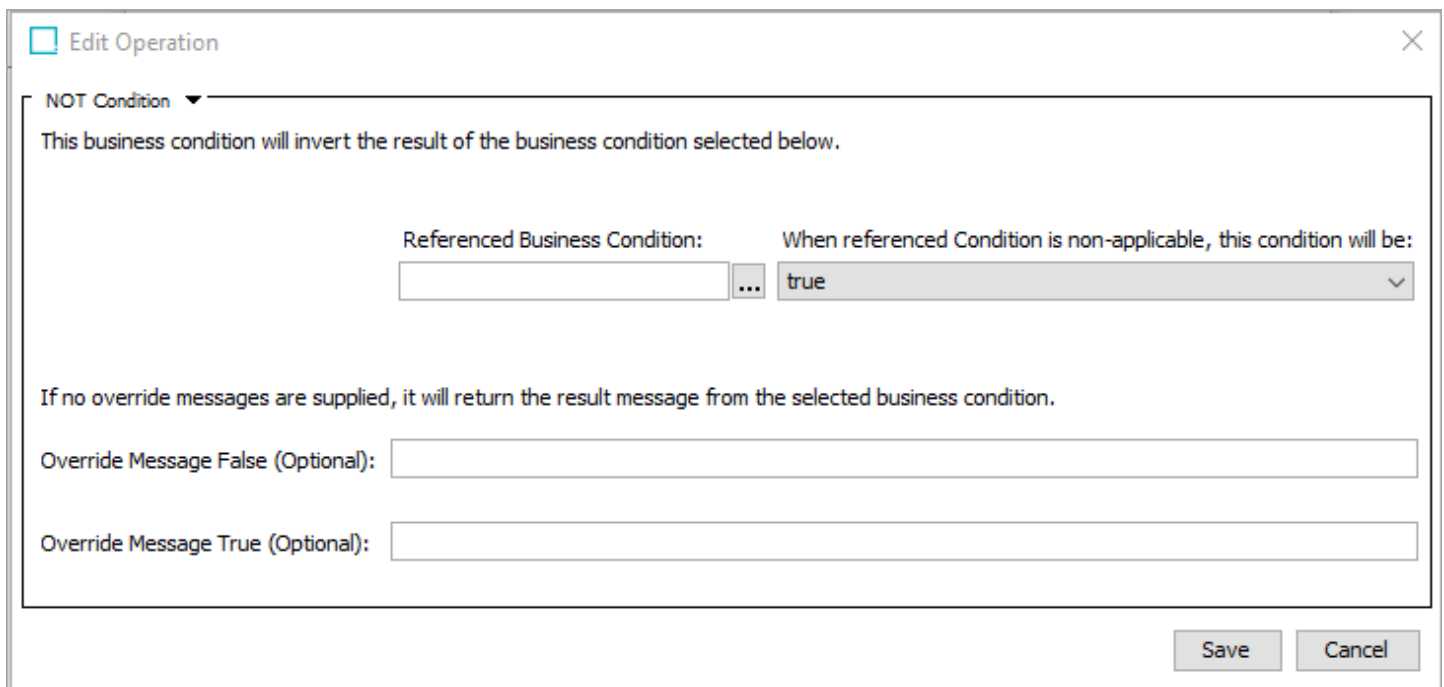
- Event messaging: It is now possible to configure a Kafka queue (or compatible queue, such as Azure Event Hub) and define one or multiple subscriptions in the language of your service-specific schema. The event message, besides basic event details, will also include the list of fields based on the schema for which changes have been registered, which can, for example, be used to keep a search index or cache updated in an efficient manner.

- Query by attribute value: There are scenarios where applications consuming data from DaaS do not know

the STEP ID but rather some other ID, e.g. a GTIN code for a product. It will be possible for Developer or Architect users to configure DaaS to look up objects using such alternative identifiers.

For more information about Data as a Service, refer to the Publishing to Data as a Service documentation or the DaaS built-in User Guide.

New business condition type called 'NOT'

A new business condition type called 'NOT' has been created that inverts the result of another business condition so that 'true' becomes 'false' and 'false' becomes 'true'. This new condition gives business rule writers additional flexibility when creating complex business rules. Furthermore, the 'NOT' condition allows business rule writers to override message(s) generated by the inverted business condition using the 'Override Message' fields shown in the image below.

For more information, refer to the Business Condition: 'NOT' condition topic in the Business Rules documentation.

Improved and renamed Navigation Handler

The 'Task List Navigation Handler' has been renamed to 'Workflow Navigation Handler' and now, on submit, it enables users to follow the task to the next state in the workflow.

For more information, refer to the Workflow Navigation Handler topic in the Web User Interfaces documentation.

Product MDM for Automotive
11.2 (2023.2) - 7.0.53 Release Notes

Release Date: May 15, 2023

📰 ANNOUNCEMENT

■ **Data Onboarding solution will hereafter be a separate component**

Effective with this release, the Data Onboarding solution will no longer be included as an integrated part of the PMDM for Automotive instance. Instead, it will be a separate component that needs to be patched along with the PMDM for Automotive license.

Existing implementations upgrading their automotive license for automotive-11.2 - 7.0.53 (Compatible with core STEP 11.2 (2023.2) baseline recipe) and beyond will also require patching the latest onboarding-mapper component as an add-on. And if the onboarding framework is not used, this can be ignored

The onboarding-mapper component can be installed with the following recipe (and must be installed with the automotive-11.2 - 7.0.53 installation recipe):

`to:onboarding-mapper/7.0/onboarding-mapper-7.0.0.spr`

🐞 BUGFIXES

Auto Care

■ **Corrected Region For parameter in AutoCare ACES Application Exporter**

Previously, the Region For parameter had issues filtering the correct application records during an export. The issue occurred when the Region (AC_ACESRegion) attribute was not populated on an application record. The ACES Application Exporter now considers including or excluding the application record based on the option selected in the Region For parameter, even if the Region For attribute is not populated. This ensures that the correct application records are filtered during export.

Hotfix recipe compatible with STEP 10.3 MP4+ Automotive-7.0.45: `to:hotfix/603/issue-603235-HOTFIX-6371.spr`.

■ **Corrected ACES Validation and ACES Conversion to better handle validation error messages**

The ACES file import process previously failed to display accurate error messages during conversion or validation. The issue was caused because of a missing dependent library. Now, the missing Apache dependencies are added and the issue is resolved.

Hotfix recipe compatible with STEP 11.1 MP2+ Automotive-7.0.52: `to:hotfix/612/issue-612690-HOTFIX-6448.spr`.

TecDoc

■ **Fixed Tecdoc articles ending up under the wrong parent folder**

When importing a Tecdoc supplier data file, there was an issue where the articles could end up under the wrong parents, which was caused by a caching problem. However, this issue has been resolved with the hotfix, which clears the cache before import. In case any supplier articles have been impacted, it is required to reimport the supplier to ensure the correct location of the supplier articles.

Hotfix recipe compatible with STEP 10.3 MP4+ Automotive-7.0.45: `to:hotfix/613/issue-613065-HOTFIX-6450.spr`.

⬇ PATCH RECIPE

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

`to:automotive/7.0/automotive-7.0.53.spr`

The above recipe is compatible with the following STEP 11.2 (2023.2) baseline recipe:

`to:step/platform/step-11.2.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 11.2 (2023.2) 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 11.1 to 11.2 (2023.2) are listed below. **Customer action may be required.**

Current Updates

Support has been added for:

- Adobe InDesign CC 2023 (and is also now available with STEP 11.1-MP4)

- MS Windows Server 2022 for STEP InDesign Server (compatible with Adobe InDesign 2023)

Future Updates and End-of-Life Notifications

The support for the items below will end with the next feature release (2023.3) or as indicated.

Server and client support

No longer supported with the 2023.3 release:

- Adobe InDesign CC 2021

- Red Hat Enterprise Linux and Oracle Linux 7.9 (for new customers only; for existing customers, 7.9 will be supported until it is officially desupported on June 30, 2024)

STEP to PDX integration

The new integration approach to integrating STEP and PDX moves the responsibility of converting multi-context STEPXML to PDX-native JSON from the STEP application to the PDX application. This change has been done to improve the overall throughput of product records transferred from STEP to PDX.

Currently, when the PDX component is added to STEP versions 10.1 – 11.2 (2023.2), the old JSON outbound integration is used. However, the new STEPXML outbound integration also works with these STEP versions. Starting with the STEP 2023.3 release in September 2023, ONLY the new STEPXML outbound integration will be supported, and the old JSON outbound integration will no longer be available.

Users of PDX, regardless of their STEP version, will be required to set up the new STEPXML outbound integration and disable the old JSON outbound integration by the time 2023.3 is released. Existing customers on the JSON outbound integration must contact their Stibo Systems account manager or partner manager to discuss migration to the STEPXML outbound integration approach.

New PDX Syndication customers should only use the STEPXML outbound integration.

Baseline EOL

Support ends in 2023 for these STEP versions:

- 10.0 — ended on May 1
- 10.1 — ends on December 1

Support ends in 2024 for version 10.2 (May 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 11.2 (2023.2) release and maintenance patch notes prior to installing or upgrading.

🐞 BUGFIXES

■ Fix to honor reference suppression tags on import

A fix was made to honor suppressed references of all types and classification links that are exported from one STEP system and imported into another STEP system. Previously, a target system did not honor suppressed asset references after being imported via Advanced STEPXML.

■ Fix for validity resets via STEPXML importing

The Change Package import method has been changed to additive for the 'Validity Ignored' Operation Mode. This allows validity for business rules and workflows to be ignored using the 'Validity Ignored' Operation Mode option without removing pre-existing validity definitions. Previously, Change Package imports of business rules and workflows replaced validity definitions when the 'Validity Ignored' Operation Mode was used.

■ ISSUE-498681 - Fix for different query results when running in In-Memory

Query API: Fixed problem that Conditions.objectType() sometimes returned objects that do not have an object type - such as attributes and other setup objects.

■ ISSUE-509440 - Fix for search in InDesign Images pallet not working

Fixed problem when InDesign did not work with In-Memory / Cassandra DB, as it was using the outdated search API.

■ ISSUE-511384 - Fix for Caching problem on Reference Formatting when going from a Collection Perspective to a Task or Browse perspective

Switching perspectives cached information necessary for showing which attributes appear on the currently displayed perspective. The cache also disregarded changing / different perspectives by displaying incorrect attributes. Now the cache is stored separately for reference attributes for different perspectives and also context and workspace.

■ ISSUE-536394 - Fix for supplier one-time agent verification not working

Fixed a problem occurring when In-Memory Object Type queries did not work for the User object type.

■ ISSUE-537409 - Fix for package object details not showing after upgrade

Fixed a problem occurring when a current Node Details selection on a Packaging Node List in Web UI was not loaded after reloading a screen upon performing a Reset Action (or any other action that reloads a current screen).

■ ISSUE-552347 - Fix for System Administration - REST API version 1 - Swagger UI cannot be started

Previously, all third-party libraries with older jQuery references were upgraded to newer versions for security reasons. Unfortunately, that introduced an error in the Swagger UI wrapper web page that is used for the legacy REST API documentation. Now, the index.html is bundled with the specific Enunciate version that generates the documentation data, so it is replaced with a fixed version during the build process of STEP.

■ ISSUE-555929 - Fix for when an eCatalog configuration is broken after used attributes have been deleted in STEP

Made the Export Wizard more robust in regards to handling missing attributes - i.e., the export configuration was referring to some attributes that no longer existed because they had been deleted. There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and mp5.

■ 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-559524 - Fix for datapool items - unable to purge datapool item because it is stuck in an event processor queue

Changed a message in the execution report of 'Recycle Bin' and 'Object Purge' to make it more obvious what is preventing the purge of an object when there is a related event sitting in an event queues. There is also a hotfix available for this solution that is applicable to step-10.3-mp4 and mp5.

■ ISSUE-562435 - Fix for clarifications on designing classification to attribute link type in Web UI

Fixed a problem when an Attribute Link Editor Screen without an Attribute Link Parent header configured was showing all the links as non-local (read only) without a possibility to change or delete.

■ ISSUE-568482 - Fix for video assets are not displaying in Web UI (Asset Preview screen)

Fixed problem when Asset Preview in Web UI did not work for externally stored DAM assets.

■ **ISSUE-571224 - Fix for OIEP advanced tab: 'select version to resolve tables' cannot be cleared**

The problem was that the field 'select version to resolve tables' under OIEP advanced tab was visible for both STEPXML and Advanced STEPXML. Ideally, it should be visible for only STEPXML format when the 'Include table' field is set to 'yes.' A fix has been implemented.

■ **ISSUE-572265 - Fix for a Web UI error message telling users to check the server log**

Added localizable 'Item cannot be deleted due to {number} reasons. Check the server log for more details 'message to Web UI when an item cannot be deleted' after clicking on Delete Action button. This message will be shown in other than default English locale, where the non-localizable reasons will be shown as it was before. There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and 11.0-mp5.

■ **ISSUE-576341 - Fix for asynchronous translation service: translation status not updated - was: reimport of the translated file fails**

An existing fix has been backported to step-10.3-mp5.

■ **ISSUE-577099 - Fix for XML importer errors with rollback**

Fixed a problem with healthchecks when it is used to fix problems. There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and 11.0-mp5,

■ **ISSUE-582338 - Fix for Web UI advanced search results displaying attributes that are not valid for products**

Fixed a problem when illegal attributes were shown under the attribute group on Advanced search node list after changing the search criteria and performing a new search.

■ **ISSUE-583270 - Fix for translation BGP failing**

Fix for translating LOVs to multiple languages that caused optimistic locking exceptions. This has been fixed and a hotfix is available for step-10.0-mp1 - step-10.0-mp5.
Also, fix for translating LOVs that caused attribute validation errors. This has been fixed, and a hotfix is available for step-10.0-mp3 - step-10.0-mp5.

■ **ISSUE-587752 - Fix for unable to use JavaScript search in STEP Workbench**

Fixed a problem when search in workbench failed if any business rule's plugin cannot be found (for example, because of the missing license, component, or data inconsistency). There is also a hotfix available for this solution that is applicable to step-11.0-mp4, 11.0-mp5, and 11.1-mp4.

■ **ISSUE-589440 - Fix for the character count while filling text on a data container attribute in Web UI is not appearing at the proper position**

Fixed a problem when the character count cell tooltip on Web UI Globally Configured Multi Edit Data container was not scrolling together with this component when the user is scrolling a Web UI Node Editor screen.

■ **ISSUE-589770 - Fix for request to set the WebUI.SSO.AllowChangePasswordForSTEPUsers=true property for the DEV environment**

Fixed a problem occurring when the User Password component on a User Details screen in the Web UI did not appear if a property to allow users changing the password for internal users was set and OAuthSSO was enabled.

■ **ISSUE-590869 - Fix for needing additional click on the screen while entering multi-valued attributes valid on Reference Type**

Fixed problem when an additional click was needed to enable an 'OK' button in popup dialog when editing an LOV attribute value on Web UI Attribute Column of References component.

■ **ISSUE-592162 - Fix for forward event queue generating 6M requests on Cassandra - add skip all events**

Added an action for skipping all events in event processors and event-based outbound integration endpoints.

■ **ISSUE-593631 - Fix for inconsistency in displaying color coding for inherited asset reference / attribute between Multi Context Editor Screen and Product Details Screen**

Now, both inherited and context-inherited attribute values will be shown with red arrow-down marking on Multi Context Editor screen in the Web UI instead of green marking to make a behavior consistent with Node Editor screen.

■ **ISSUE-594099 - Fix for business rules for sending emails throw error**

The query interface allows querying workflow states 'Conditions.state().in(...)'. This did not work on Cassandra systems and has been fixed.

■ **ISSUE-594268 - Fix In-Memory errors when performing Maintain Match Code Values action**

Now, a Match Code generation for a huge amount of records via the Maintain Match Code Values action in STEP Workbench will not be terminated automatically by In-Memory if this operation takes a long time. There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and mp5.

■ **ISSUE-594783 - Fix for deselecting conditional values results being re-established without user intention**

The problem was the users were not able to deselect the LOV values in the data containers in the Web UI. The fix allows the user to unselect the LOV values from dropdown in data containers.

■ **ISSUE-594784 - Fix for Inbound Integration Endpoint failing frequently**

Fixed scenario where BGP could be started as ReadOnly and thus not allowing to commit. This would result in 'Can only perform operation while a transaction is active' errors. This could happen in rare cases if concurrent access to Recycle Bin is going when starting BGP. This has now been fixed.

■ **ISSUE-596133 - Fix for LOV search button functionality not working properly**

Fixed search on Attribute Management Screen when user chooses the LOV validation type, opens the Node Picker for LOV, and performs search on a Search tab for an LOV which is placed under the sub-LOV group.

■ **ISSUE-597286 - Fix for a packaging hierarchy error**

Now, instead of an Unexpected exception, an actual error (cycles in packaging hierarchy) will be shown on the Web UI Packaging screen if there are cycles in the hierarchy which are preventing the screen from load.

■ **ISSUE-597350 - Fix for error when calling Gateway Integration Endpoint**

Added configuration option so URL encoding can be disabled for Azure SAS tokens in REST Gateways. A hotfix for this solution is also available for step-10.3-mp4 and mp5.

■ **ISSUE-598224 - Fix for unable to reorder product overrides using drag and drop in workbench**

Reordering manually sorted objects using drag and drop in workbench no longer worked. This has been fixed.

■ **ISSUE-598586 - Fix for NullPointerException error on BRs attached to workflow**

Fixed NullPointerException that sporadically appeared in workbench when accessing a Bulk Update Trigger Workflow Event business rule in workbench.

■ **ISSUE-598787 - Fix for sharedconfig property of count to display maximum children**

Fixed problem when a message about too many children in the Web UI was showing incorrectly when opening a tree navigator with entities, where the previously selected entity does not have children and does not have any references, when having a product selected. There is also a hotfix available for this solution that is applicable to step-11.1-mp3 and 11.1-mp4.

■ **ISSUE-598844 - Fix for 'Mark different' is not working for Data Container attributes on Multi Workspace Screen**

Now, 'Hidden equal' and 'Mark different' actions will work correctly on Multi Workspace screen in the Web UI for Data Container Table Header Value component.

■ **ISSUE-599021 - Fix for upgrade to 11.1 issue - Release and online help not accessible via workbench**

Fixed an error when running Menu / Help in workbench with Keycloak authentication.

■ **ISSUE-599854 - Fix for 'Create Object In Workflow' screen --> 'Show Create From Template': Screen auto navigation issue after selecting a value from template**

Now, a Web UI will not navigate to the homepage before navigating to the newly created workflow item after performing a 'Create object in Workflow' action.

■ **ISSUE-599954 - Fix for completeness metric showing different values between Web UI and workbench**

Now, a total completeness score on Web UI Node Editor Completeness Metric component can be shown without rounding it up. Contact Stibo Systems Support to enable this property. There is also a hotfix available for this solution that is applicable to step-11.1-mp2, mp3, and mp4.

■ **ISSUE-602906 - Fix for error on selected items in the packaging screen**

Introduced a possibility to avoid selecting a currently selected packaging graph node on a corresponding Node List on Packaging screen in Web UI. To enable this possibility, contact Stibo Systems Support. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

■ **ISSUE-603280 - Fix for Excel Imports failing in pre-prod with error 'no parent edge found to revive on'**

Since 11.0-mp2, there was an issue with deleting products, entities, and classifications. The issue only occurs in some situations when having to delete objects that have been re-parented and force deleting their old parent before the child. The consequence of the problem is that the deleted and re-parented child will end up with no parent links. Such orphaned objects become invisible to the user--but still blocked the creation of an object with the same ID. With this fix, such orphaned objects now appear in recycle bin and can be purged from there (or actually also revived - in which case a new dummy node with ID TemporaryParentForOrphanedObject will be created for reviving object into). There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and 11.0-mp5, and 11.1-mp4.

■ **ISSUE-603300 - Fix for LOV cannot be updated - Process hung**

Fix for Cassandra-specific performance problem when deleting old entries in the change log. There is also a hotfix available for this solution that is applicable to step-10.3-mp4, 10.3-mp5, and 11.1-mp4.

■ **ISSUE-603605 - Fix for auto ID setup not working on create product override Web UI component**

Fixed a problem when an ID field was shown on the Web UI Create Product Override screen, even though the Auto ID has been configured for the product override object type which is about to be created on this screen.

■ **ISSUE-603723 - Fix for post-STEP v11.1 upgrade - Exporting data from workbench**

Fixed NullPointerException in STEP exporter related to exporting inherited cross references. There is also a hotfix available for this solution that is applicable to step-11.1-mp3.

■ **ISSUE-604039 - Fix for the user interface language mixing English and German, although German was chosen as the locale**

Some texts in the Web UI were not properly localized. This has been fixed. There is also a hotfix available for this solution that is applicable to step-11.1 and 11.1-mp1 through mp4.

■ **ISSUE-604432 - Fix for post-upgrade issue - Query for business rule not working**

Fixed a bug in QueryHome.query for when querying for system setup types and specifying an object type condition. There is also a hotfix available for this solution that is applicable to inmemory-7.0.67.

■ **ISSUE-604560 - Fix for GS1 mapping of language specific**

Using variables in GDSN import mappings could cause exceptions, making the import mapper unusable. This has been fixed.

■ **ISSUE-604614 - Fix for issue with recent Background Process Web UI component**

Fixed a problem when Background Processes displayed in Web UI Recent BGP's Panel were incorrectly sorted. Now, the BGPs are sorted by start date in descending order.

■ **ISSUE-604766 - Fix for a post upgrade issue: Error message showing in HTML script that is not in readable format**

Fixed a problem when in BGP report, a message 'Exception occurred during evaluation of BC ...' was not properly rendered to show a link of failed business condition. There is also a hotfix available for this solution that is applicable to step-11.1-mp3.

■ **ISSUE-604841 - Fix for performance issue Web UI on PROD**

Fixed problem when retrieving a Global Override mappings when loading a Web UI Node Editor could have caused a performance issue.

■ **ISSUE-604854 - Fix for TecDoc Web UI issue: Not possible to get match(es) in Generic Articles filter**

Fixed exception thrown in the Web UI when using the automotive generic article filter.

■ **ISSUE-605285 - Fix for transaction rollback error**

Fixed problem that could cause the below type of error, when making a transition on a STEP Workflow. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

```
{code}
2023/03/16-13:18:21 7686|stibo_support|PRT|[customer]PIMUI
com.stibo.portal.engine.server.util.ExceptionConverter convertExceptionSerializeAndLocalize
SEVERE: Type: Unexpected error, Message: The transaction has been rolled back. See the nested
exceptions for details on the errors that occurred.
localization key=i18n.stibo.portal.client.UserMessageType.ServerException
com.stibo.portal.framework.client.exception.PortalException: Type: Unexpected error, Message: The
transaction has been rolled back. See the nested exceptions for details on the errors that occurred.
 at Caused by: com.solarmetric.jdbc.ReportingSQLException: ORA-02291: integrity constraint
(STEPSYS.NODESTATE_PREVIOUS_TRAN_FK) violated - parent key not found {prepstmnt
1458857017 INSERT INTO NODESTATE (ASSIGNEEID, ASSIGNEETYPE, CHECKID, DEADLINE,
ENTRYTIME, NODEID, NODETYPE, PKID, PREVSEQNOASSI, PREVSEQNOTRAN, PRIORITY,
STATEFLOWID, STATEID, TASKSTATUSID, TASKSTATUSTYPE, WFENTRYTIME) VALUES (?, ?,
?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?) [reused=0]} [code=2291, state=23000]
{code}
```

■ **ISSUE-605358 - Fix for search panel not behaving as expected**

Fixed problem when Object Type Criteria on a Web UI Primary Navigation Search Panel was displaying an empty dropdown list of object types if, in Design Mode, an 'Include Children Object Type' and 'Include Root Object Types' parameters are unchecked. Note that the Include Root Object Types parameter makes sense only when Include Children Object Type is enabled; otherwise, all configured object types should be shown.

■ **ISSUE-605778 - Fix for Web UI Simple Importer Widget not mapping metadata**

Fixed problem when reference metadata mappings from import configurations were not respected when performing a Simple Import in the Web UI.

Note that Reference Metadata Mapping is still not available in Simple Import dialog in the Web UI, but if it's mapped in the import configuration, it will be respected during the import.

■ **ISSUE-605784 - Fix for bug on 'Data Validation in Web UI' feature**

Fixed a problem when attributes marked as mandatory by a Business Condition on a Web UI Node Editor were making the buttons with Enforce Validity option disabled to become unavailable.

■ **ISSUE-606498 - Fix for PDX: Sufficiency card breadcrumb errors**

Fixed problem occurring when having a slash character ' / ' in product name caused a Sufficiency Card breacrump navigation to fail.

■ **ISSUE-606717 - Fix for post upgrade issue - Web UI discrepancies**

Fixed a problem occurring when the Run Business Action toolbar action, without selection on a Web UI Node List, was not respecting a current tree navigator selection when checking a business action object type validity. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

■ **ISSUE-606903 - Fix for alphabetical-index section references change**

Fixed problem with workbench Export Wizard removing objects when going back (clicking back button). There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and 11.0-mp5.

■ **ISSUE-607389 - Fix for calculated inherited attribute not coming in API**

Fixed restapiv2 to include calculated values when the includeInheritedData option is selected for Get Product endpoint.

■ **ISSUE-607416 - Fix for emergency Web UI setback in 11.1-mp2**

Fixed a setback when Packaging / Multi Language and some other screens were not displayed under the Web UI Sub Screen Tab Page with Lazy Loading enabled if the screen has been accessed from Task List by clicking on one of the items in list. Instead, an Object Not Found placeholder message was shown.

■ **ISSUE-607439 - Fix for estimates incorrect in log file hours are dropped**

Fixed incorrect estimations in execution report of empty recycle bin.

■ **ISSUE-607736 - Fix for TecDoc Reference Data 0423 throws 'empty string value' error**

Added additional logging to diagnose root cause of errors shown while importing automotive reference data.

■ **ISSUE-607861 - Fix for match mode generation fails with an error**

Fixed NoSuchMethod exception during match code generation caused by partial fix installation.

■ **ISSUE-608168 - Fix for Object Type change from SKU to Deleted SKU is causing ObjectTypeConstraintAttributeException**

A fix has been made to ensure old values from a lock-free schema change do not prevent changes of an attribute validity type. There is also a hotfix available for this solution that is applicable to step-11.1-

mp4.

■ **ISSUE-608267 - Fix for SaaS - need to raise the display / filter limit of references**

Introduced a possibility to bypass a hardcoded 10-K items limit when displaying items on a Display Children Screen in the Web UI. To set this property, contact Stibo Systems Support.

■ **ISSUE-608566 - Fix for impossible-to-catch exception when using downloadAssetContent**

Fixed problem when it was not possible to catch a checked IOException from AssetDownloadHome.downloadAsset method in JavaScript business rules.

■ **ISSUE-608953 - Fix for upgrade issue 11.1 MP2 to 11.1 MP4: Bind for object type not working**

Fixed problem when Web UI Run Business Action incorrectly resolved Object Type JavaScript Bind. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

■ **ISSUE-609311 - Fix for classloader on Admin Portal PQL scripting**

Fixed classloader on Admin Portal PQL scripting engine. Now, In-Memory healthchecks will work.

■ **ISSUE-609837 - Fix for attribute profiling throwing a 'CaughtNullPointerException' error**

Fixed NullPointerException in Data Profile BGP when profiling attributes, possibly used in Web UI configurations, and one of the Web UI configurations had an empty XML. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

■ **ISSUE-610034 - Fix for looping OIEP background process**

Fixed NullPointerException during Domain export when attribute qualifier cannot be found in cache.

■ **ISSUE-611148 - Fix for cross context does not work with generic JSON**

Fixed problem when diagnostics flipper on status tab on the workbench Integration Endpoint Editor threw an exception on systems with In-Memory enabled.

■ **ISSUE-611320 - Fix for translation process crashing for setup objects**

Translating LOVs to multiple languages could sometimes cause optimistic locking exceptions. This has been fixed.

■ **ISSUE-611335 - Fix for when republishing a node adds it to the OIEP queue twice**

Fixed an issue when duplicate events were created when running bulk update with the action 'republish event.'

■ ISSUE-611402 - Fix for a post-upgrade issue: empty recycle bin is not working

On out-memory systems, an In-Memory limit of only 100 objects plus their children was imposed on the actual purge-process, regardless of the size of the task. This has been fixed and a limit is no longer applied.

■ ISSUE-611614 - Fix for urgent : Configure SFTP connection details in STEP QA and STEP PROD env

Fixed NullPointerException caused by attempts to close the already closed SFTP connection. There is also a hotfix available for this solution that is applicable to step-11.0-mp4, mp5, mp6, and mp7.

■ ISSUE-612495 - Fix for getting no response in subBuilding field when input is added

Now, subBuilding field will correctly handle Loqate Cloud by being concatenated with either Thoroughfare or Address/Address1/Address2/Address3/Address4 field depending on their availability, which leads to the Loqate Response containing the subBuilding field as well. There is also a hotfix available for this solution that is applicable to step-10.3-mp4 and 10.3-mp5.

■ ISSUE-612655 - Fix for the CCW portal - collections not visible and or usable

Fixed problem when collections under the collection groups were not visible on the Web UI browse tab page of a Node Picker component.

■ ISSUE-612707 - Fix for cross-site scripting

Addressed an XSS vulnerability when saving an item's name in the Web UI and when searching for it on a Search tab of an Insert Inline Reference dialog.

■ ISSUE-612710 - Fix for Cross-Site Scripting 2

Fixed an XSS SVG content vulnerability when trying to view an asset or open it in a new window from the Web UI Node Editor's Referenced Asset Representation component if the asset is an SVG image with malicious content. There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and 11.0-mp5.

■ ISSUE-612730 - Fix for matching Event Processor log showing error: java.lang.NullPointerException

Fixed NullPointerException in parallel framework that was related to non-initialized constraints. A problem was observed during matching parallel execution.

■ ISSUE-613205 - Fix for structured Excel translation: translation status incorrect after import

Translation import now takes Excluded Attributes into account while calculating the status of translation. Before, only the Always Excluded Attributes configuration in the User & Groups tab was

taken into account. This patch fixes issue with Excluded Attributes in Translation Configuration Setup Node.

■ **ISSUE-613357 - Fix for error message when uploading asset in Web UI**

Fixed problem when the asset importer was throwing an exception related to incorrect mime type caused by an attempt to import a noname.tmp file created by the browser when uploading the image through the asset importer. There is also a hotfix available for this solution that is applicable to step-11.0-mp2, 11.0-mp3, 11.0-mp4, and 11.0-mp5.

■ **ISSUE-613431 - Fix for SaaS - Unable to activate inbound because of multiple pollers**

System deletes excessive polling Background Processes instead of throwing an error. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

■ **ISSUE-613653 - Fix for error on OIEP: OutboundExporter**

Fixed NullPointerException in domain export related to the missing base object for the exported edge model. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

■ **ISSUE-613669 - Fix for Upload and insert Asset Reference option is not working in Web UI**

Fixed problem when the Upload And Insert Asset Reference Design Mode parameters for the Referenced Asset Representation component did not affect the "Upload and Insert Reference" option on the asset item's action popup on the Web UI Node Editor. Instead, the Replace Asset Content design mode parameter was needed to make this action available. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

■ **ISSUE-614582 - Fix for STEP is unavailable (PROD)**

Reduced the memory usage of 'Multiple versions of the same revision is present in the same Workspace' healthcheck plugin. Now, this healthcheck will be terminated if it uses too much memory.

■ **ISSUE-614586 - Fix for STEP publications issue**

An exception was thrown when trying to import a publication section. This has been fixed.

■ **ISSUE-614636 - Fix for the empty recycle bin not working in DEV**

On out-memory systems, an In-Memory limit of only 100 objects plus their children were imposed on the actual purge-process, regardless of the size of the task. This has been fixed and a limit is no longer applied.

■ **ISSUE-614733 - Fix for enabling multi edit of tagged texts**

Fixed the issue in the Web UI that whenever a tagged text gets altered in multi edit, all tags in the altered field get escaped with <lt> </lt> and <gt> </gt> and it prevented users from seeing the correct

formatting in the Rich Text Editor.

■ ISSUE-614840 - Fix for an issue when changing dimension dependency of an object type

Fixed a problem that occurred when removing the dimension dependency on an object type.

■ ISSUE-614937 - Fix for set $timestamp default format back to legacy definition

Adding the legacy timestamp functionality so exported Excel filenames can contain datetime in Epoch format (number of milliseconds since 01.01.1970).

■ ISSUE-615372 - Fix for getting: java.lang.IllegalStateException: 'Can't resume process. Intermediate results are missed'

Fixed NullPointerException when cleaning up the Match Tuning mapDB storage on an application server. There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and 11.0-mp5.

■ ISSUE-616077 - Fix for a problem with user rights

Fixed a problem when a user without the proper permissions was able to access the 'Users & Groups' node and change a 'Force STEP authentication' checkbox for any user in workbench. There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and 11.0-mp2, 11.0-mp3, 11.0-mp4, and 11.0-mp5.

■ ISSUE-616106 - Fix for forward event queue never completing on Cassandra - introduce timeout

When forward / rewind events takes a long time (default is more than 5 minutes), the operation will automatically be aborted and a time-out warning will display (Casssadra only).

■ ISSUE-616274 - Fix for an alert: STEP is unavailable (PROD)

Fixed the performance issue when an approval process wasted time checking whether an approval should trigger an event in all the OIEPs / Event queue in STEP. This check has been cached in order to improve performance.

■ ISSUE-616334 - Fix for background process causing issues

Removing validity for an attribute could be time-consuming on Cassandra as it unnecessarily checked past data. This has been improved so that it only checks present data for needed actions, which is significantly faster.

■ **ISSUE-616816 - Fix for a post-upgrade issue: error message showing in HTML script that is not in readable format**

Fixed a problem when a BGP report row containing a <b> tag inside a <div> tag, did not show an HTML markup correctly on Background Process Screen in the Web UI. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

■ **ISSUE-616821 - Fix for a post-upgrade issue: Web UI navigation to pages does not work as expected when Children of Type page is used as sub screen under Node Details page**

Fixed a problem when a sub screen tab page with lazy loading enabled did not load a Children Of Types screen properly when a details overlay has been configured on a parent screen.

■ **ISSUE-616826 - Fix for a post-upgrade issue: Run Business Action toolbar action without selection on Web UI node list was not respecting a current Tree navigator selection when checking a business action object type validity**

Fixed a problem when a Run Business Action toolbar action valid for tree node selection object types claimed an invalid object type when being executed without a selection on a Node List.

■ **ISSUE-617651 - Fix for when production is stuck**

A more informative error message has been added if something occurs that should not. There is also a hotfix available for this solution that is applicable to step-11.0-mp4 and 11.0-mp5.

■ **ISSUE-617809 - Fix for Error in the Web UI while navigation to a different hierarchy**

Fixed an exception in the Web UI when navigating between different hierarchies in Global Navigation Tree tab with selected product.

■ **ISSUE-618075 - Fix for 'Alert: High Disk Utilization' (TEST)**

Concurrent outbound integration-endpoints adding and deleting information from the execution-report caused locks. This has been prevented by serializing (and buffering) access to shared resources including said execution-report. There is also a hotfix available for this solution that is applicable to step-10.3-mp4 and 10.3-mp5.

■ **ISSUE-619084 - Fix for 'Internal Server Error' in Node Picker while using attribute search plugin**

Fixed a NullPointerException when performing a typehead search on Search Table Tab page of a Node Picker component in the Web UI without any headers configured in design mode.

■ **ISSUE-619823 - Fix for post-upgrade issue 2: Run Business Action toolbar action without selection on the Web UI Node List was not respecting a current tree navigator selection when checking a business action object type validity**

Introduced a possibility to check a BR validity against a current Web UI Tree Selection instead of Node List selection when executing a Run Business Action on a Node list. Please contact Stibo Systems Support in order to enable it.

■ **ISSUE-620545 - Fix for changing attributes from externally maintained to 'No' causes the system to crash**

Fixed out-of-memory problem for large lock-free schema change operations.

■ **Fix for wrong character encoding**

Fixed character set bug causing accented characters to be migrated wrongly into Cassandra from Oracle to Cassandra migration export.

■ **Fix for IIEP SAP2STEP_LOV fails - Amazon SQS**

Customer integration has data on an Amazon Simple Queue Service that cannot be read by our integration. The library name differs from ours and they will be provided with the option to replace library string in sqs message body so the Stibo integration can parse it.

■ **Fix for IIEP using ECLASS ADVANCED Data Converter preprocessor going to 'Failed' status**

Fixed broken output xml.

■ **Fix for ECA Editor: Not possible to delete LOV values**

Exposing delete button to allow user to clear last value on multiple value chooser component. There is also a hotfix available for this solution that is applicable to eclass-advanced-7.0.6.

■ **Fix for facet search incorrect count of products**

Issue was related to the search text parameter not being passed for facet-related requests when you've refreshed the page or navigated via the back button.

■ **Fix for inconsistent error image included**

Added missing Apache dependencies.

■ **Fix for post 11.0-MP5 upgrade-issue with defining Criteria/View in facet search**

Fields to configure on the screen should be context independent. They should appear in the configuration dialogs even though they are not relevant to a specific context.

■ **Fix for PDX channel status not updated**

Fixed problem when PDX channels with markets were not displayed correctly in PDX channel status Web UI component.

■ **Fix for Lionbridge - ASYNC Process took more memory after STEP 11.1 upgrade**

Fixed a problem when temporary files were not deleted after being copied to BGP directory for Lionbridge Async Translation process. There is also a hotfix available for this solution that is applicable to lionbridge-7.0.18.

■ **Fix for Lionbridge - ASYNC Process took more memory after STEP 11.1 upgrade**

Fixed a problem when temporary files were not deleted after being copied to BGP directory for Lionbridge Async Translation process. There is also a hotfix available for this solution that is applicable to lionbridge-7.0.18.

■ **Fix for STEP-PDX import erroneous - Article Number gets deleted**

With the new integration plugin, it is now possible to use multiple contexts for exports to PDX.

■ **Fix for in event-processor, there are three processors that are not functioning properly**

Fixed a problem in the In-Memory locking mechanism that in certain circumstances would cause processes to be stuck when trying to release the lock.

■ **Fix for problem with loadbalancer public Web UI list**

Fixed an issue with excluding Web UIs via the SaaS V2 self-service.

■ **Fix for Tecdoc Articles ending up under wrong parents**

Fixed problem with supplier imports sometime getting the wrong parent id. There is also a hotfix available for this solution that is applicable to automotive-7.0.45.

■ **Fix for improved execution report**

Improved execution report by telling the user if a language is not mapped at all.

■ **Fix for validate version option is grayed out on aspect and block objects**

Fixed validate version option access on aspect and block objects.

■ **Fix for OffHeapMemoryUsageExcel report fails**

The 'In-Memory OffHeap Memory Usage' report in the admin portal had a number conversion error that caused it to fail for systems that have a large amount of data. This has been fixed.

■ **Fix for displaying infinity values in the filter option of search criteria (Finished Product Code, ShrinkWrapGTIN, PalletGTIN)**

In some cases Elasticsearch returned an infinity number for blank values. This has been fixed.

■ **Fix for error showing even there is only one Non_DEPENDENT_P_DET_TYPE block**

This has now been fixed.

■ **Fix for unable to configure multiple emails in list value generator**

Allow multiple email recipients in list value generator.

■ **Fix for PROD environment not available**

Internal In-Memory memory usage report used for error diagnostics and memory usage monitoring has an error which could, in rare cases, cause the entire system to deadlock. This has been fixed.

■ **Fix for item GTIN and case GTIN - blank filter not applying properly**

Blank filters option should now be applied properly on range facets.

■ **Fix to apply new BMEcat2005.1 import logic for the pre-processor: 'ECLASS Advanced data converter'**

A new BMEcat2005.1 import logic for the pre-processor: ECLASS Advanced data converter has been applied.

■ **Fix for duplication functionality needing further attention**

A fix for duplication functionality has been implemented.

■ **Fix for HAProxy install, incorrect permissions on haproxy.sock causes continuous 'Ncat: Permission denied.' errors in frontend.0.log**

The new HAProxy backend http check would fail and log 'SEVERE: Ncat: Permission denied.' This has been fixed.

■ **Fix for an error when sending out via asynchronous translation and SDL**

Better error handling in async translation and SDL.

■ **Fix for exporting from template and custom export not working properly for baskets**

Fixed a problem when Basket in the Web UI created a new collection instead of reusing an existing one, if an authenticated user ID differs by character case between external provider and STEP (for

example, USER and user, so the basket was looking for collection basket-user, but the collection basket-USER existed).

🔒 SECURITY ENHANCEMENTS

■ ISSUE-553167 - Fix for PenTest 04-22: High - Finding 2: Local File Inclusion

Improved path traversal protection for Web UI Theme Image Service servlet. Introduced a blacklist of forbidden exceptions for the GET method of this servlet, so the files with this extensions cannot be accessed for security reasons. There is also a hotfix available for this solution that is applicable to step-11.1-mp4.

⏱ PERFORMANCE ENHANCEMENTS

■ ISSUE-608659 - Fix for approve delete stopping after 10K objects (and more)

Improvements were made addressing stability and performance of actions related to deletion and purging from the recycle bin.

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 can only 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 displays.**