



UPDATE NOTES

2025.2

June 2025

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2025.2 Update Notes

Some changes made to STEP necessitate action by its users, so it is crucial to review these notes thoroughly. They complement the Online Help, which offers comprehensive details on both existing and new system functionality, providing detailed explanations and step-by-step instructions for use, as applicable.

Introduction

We are excited to share the latest update with you. Stibo Systems consistently creates updates to align with the changing demands of the market and the needs of our valued customers, incorporating enhancements inspired by user requests. The update notes highlight a comprehensive range of new features, enhancements, and other changes that deliver significant value to customers—those mentioned below and many more.

Platform Updates

- User Activation / Deactivation
- Control of Integration Endpoints through Gateways
- Expanding JavaScript Capabilities

Product MDM Updates

- PREVIEW: Tracking Tasks in Workflows
- Enhanced Approval Messaging
- Mandatory Workflow Variable in New UI

Customer, Supplier, and Location MDM Updates

- Machine Learning Matcher Improvements
- Customization of the Golden Record Clerical Review Task List Screen
- Removal of Constraints within Match and Merge
- Match and Merge Importer Enhancement (update video available on [YouTube](#))

PDX Updates

- PREVIEW: Channel Marketplace
- PREVIEW: Enhanced Content Onboarding
- Detailed Import Process
- Interactive Modules for Retail Agnostic Content
- Expanded Brandbank Channel Support

Important: Some functionality described is controlled via licenses and/or component installations and may not be available on your system.

Update notes are accessible by clicking on the links below:

- [2025.2 Update Guide](#)
- [Developments in New UI for STEP](#)
- [Customer, Supplier, and Location MDM Enhancements](#)
- [Data Exchange Enhancements and Changes](#)
- [General Enhancements and Changes](#)
- [Self-Service UI Enhancements and Changes](#)

Note: Product Data Exchange (PDX) updates typically follow a different cadence than STEP updates. PDX-specific update notes and online help are available within the PDX solution. Once logged into PDX, click Help Center > Documentation using the left navigation panel. Documentation opens in a new tab.

Additional information is included in supplemental materials such as update overview slide decks and update-specific videos. These resources are available, along with these update notes, in the [Stibo Systems Service Portal](#), within the [Customer](#) and [Partner](#) Communities, and on [YouTube](#).

[Product updates](#) are also available on our Stibo Systems website.

Updates and Change Logs

Feature updates are identified by the year and quarter in which they are introduced to customers. The first four digits (2025) indicate the year of the update. The last digit (2) indicates the calendar quarter. To learn more about update frequency, including target update times and end-of-life baseline support dates, refer to the new STEP Update and End-of-Life Information topic in the System Update and Patch Notes documentation.

Along with the feature updates, there are also SaaS image updates that are made available when security and other critical fixes need to be deployed. These updates follow the same baseline identifier plus timestamps (e.g., step-2025.2-2025-07-18-14-48-07).

Descriptions of these fixes are included in Change Logs. Change Logs can be accessed via the STEP Documentation, available from both your system's Start Page or from within the workbench.

NEW FOR 2025.2: Change Logs can also be accessed from our new documentation site (<https://doc.stibosystems.com/>), where they can conveniently be filtered by component.

Note: Customers may want to search Stibo Systems Service Portal for their Issue Numbers (if shown). To do so, while in the Stibo Systems Service Portal, navigate to Issues (in the header bar) and select 'Search for Issues.' Click on the 'Advanced' option on the filtering bar and then type in 'issue=' and the issue number. Press Enter or click the magnifying glass icon to run the query. **Users can only view Stibo Systems Service 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.**

Update Guide

In addition to the individual update notes, upgrading customers should read the 2025.2 Update 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 Update Guide includes information about actions that existing customers need to take prior to updating to the latest version.

Train and Connect

Expand your expertise and connect with fellow users.

Stibo Systems Academy

Maximize your investment in Stibo Systems Master Data Management (MDM) by taking Academy courses and completing our certification programs. The MDM Academy provides hands-on training opportunities for both customers and partners, aiming to enhance your understanding of Stibo Systems' MDM solutions. Comprehensive details regarding classes and programs can be found on our [website](#).

Stibo Systems Communities

We strongly encourage all [customers](#) and [partners](#) to actively participate in their dedicated Stibo Systems' Communities. Community initiatives are designed to help you maximize your experience, share knowledge, and build valuable relationships with peers who understand your challenges and goals. Stay updated on upcoming events and much more by registering today.

Installing STEP 2025.2

Note: On-premises installations are not supported.

For SaaS environments, updates can be done in the SaaS Self-Service UI or (if not available) by raising a request with Stibo Systems Support. More information on the update process in the SaaS Self-Service UI can be found in the Upgrade Environment section in the in-built User Guide.

For information on the preview period and mandatory updates, refer to the STEP Update and End-of-Life Information topic in the System Update and Patch Notes section of the documentation.

For customers that have custom add-on components and/or if Stibo Systems Support is deploying your system updates, submit an update request via the Stibo Systems Service Portal. For customers and partners who have built their own custom extensions with Extension API, evaluate the need to recompile and redeploy extensions prior to upgrading. Refer to the STEP Extension API Guide available via the Technical Documentation accessible at [system]/sdk or from the system Start Page.

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.

2025.2 Update Guide

Summary

System updates are your first line of defense against security threats while also boosting performance, ensuring compatibility, and unlocking exciting new features that add value to your digital experience. Regular updates not only protect your data and keep your system running smoothly, but they also give you access to innovative tools and capabilities that can enhance your productivity and user experience.

Important: Customer action may be required.

- Before updating to 2025.2 from an older version, be aware of system changes. The list that follows may not be comprehensive; however, along with the full update note-set, it provides a starting point for update evaluation.
- Some components / functionalities are moving to the next stage in their lifecycle. Refer to these online help topics: Deprecations and Lifecycle Changes and License and Component Lifecycle.
- On-premises installations are not supported.
- Users should be familiar with two online help topics (License and Component Lifecycle and Deprecations and Lifecycle Changes) that provide more details around deprecations, other lifecycle changes, etc.

Details

Typography cohesiveness across applications and documentation

Typography across Stibo Systems web applications and documentation sets has been standardized. This creates a cohesive visual experience while improving accessibility and aligning with the latest brand guidelines.

Service Portal 'Update Information' documentation links updated

Documentation links on the 'Update Information' dashboard within Stibo Systems Service Portal have been updated. If you encounter any broken bookmarked links, log in to the portal directly to access the documentation via the new link.

Exciting updates to our Enhancement Request Process

We are pleased to remind you about our transition from the 'Enhancement Request' process to the collaborative 'Ideas' functionality in Stibo Systems Communities. As announced previously in the 2025.1 Update Guide, this change allows for greater transparency, with features including community visibility, commenting, upvoting, and product team engagement.

The 'Community Ideas Guide' includes an overview of the Ideas module in the Community, how the new process works, and an FAQ. This guide is accessible from within the Communities and in the Document Repository section on the My Issues dashboard within the Stibo Systems Service Portal. Reach out to your Stibo Systems representative if you have questions or concerns after reading the guide. We will be happy to speak with you further.

This process is already live in the Communities. Sign in and/or register now at <https://www.stibosystems.com/our-customers/community>.

Note: In mid-March, we removed the ability to create Enhancement Request tickets in the Stibo Systems Service Portal. Previously submitted requests will continue to be reviewed and replied to, but all new suggestions need to be submitted via the Communities.

We are excited about the changes and hope that you are too.

STEPXML schema changes from 2025.1 to 2025.2

A new 'Deactivated' parameter for users in STEP allows administrators to exclude inactive users from license counts while preserving their settings and history, unlike deletion. This status can be managed in STEPXML with the "deactivated=" tag.

For details, including a list of things that deactivated users cannot do and others ways to manage this status, refer to the 'New 'Deactivated' user functionality' section of the General Enhancements and Changes update note.

'Potential Duplicate' renamed to 'Potential Duplicate Group'

The 'Potential Duplicate Match Score Attribute' and the 'Potential Duplicate Reference Type' have been renamed to 'Potential Duplicate Group Match Score Attribute' and 'Potential Duplicate Group Reference Type' in the 'Matching - Merge Golden Record' component model. No customer action is required.

For details, refer to the 2025.2 Customer, Supplier, and Location MDM Enhancements update note and the Configuring the Matching - Merge Golden Record Component Model topic and related topics in the Matching, Linking, and Merging documentation.

Rhino upgraded to version 1.8.0

Rhino has been upgraded to version 1.8.0, giving developers access to newer language features for improved solutions when coding in JavaScript. For details, refer to the Rhino support web site at <https://mozilla.github.io/rhino/compat/engines.html>

InDesign 2025 now supported

Adobe's latest version of InDesign, InDesign 2025 (version 20), is now supported in STEP. With this update, users may now integrate with either InDesign 2024 (version 19) or InDesign 2025. InDesign 2023 (version 18) has been deprecated.

Deprecated functionality

The Globally Configured Data Container component has been superseded: While the component remains available and can still be used, users are encouraged to transition to the Globally Configured Unfolding Data Container component for an improved and consistent user experience.

For more information, refer to the 2025.2 General Enhancements and Changes update note. For configuration details, refer to the topics Globally Configured Unfolding Data Container Component and Globally Configured Unfolding Data Container View in the Web User Interfaces documentation.

Functionality removed / discontinued

LZ4 compression / decompression parameters are removed from Kafka Receiver and Kafka Delivery methods. Refer to the Data Exchange Enhancements and Changes update note for details.

InDesign 2023 (version 18) has been deprecated. Support for InDesign 2025 (version 20) has been added with this update.

Functionality to be removed / discontinued

- ASCII format downloads for AutoCare:** As announced in the 2025.1 update notes, AutoCare will discontinue ASCII format download support at the end of 2025. JSON file support was introduced with the 2025.1 update. No changes to the current configuration are required to start using JSON-formatted files.
- Use of reflection in JavaScript business rules:** In JavaScript business rules, reflection has been used to access non-public methods in the API. Since reflection can be a security risk and can potentially lead to performance issues and other unexpected issues during upgrade, it will be disabled with the 2025.3 update.

A scheduled healthcheck was introduced in the 2023.3 update that identifies business rules that use reflection, and a warning with the text 'Attempted to call reflection API...' is written to the step.0.log. To prepare for reflection being disabled, rewrite the reported rules to use publicly available methods. If the needed functionality is not public, create an idea in Community or reach out to your Stibo Systems representative. For more information, refer to the 2025.2 General Enhancements and Changes update note.

- Business rules and file system access:** Business rules will be prevented from accessing the file system (i.e., opening files from Business Rules will be disabled) in a future update. While the exact timing of this change is not yet determined, users should review existing business rules that directly access the file system using the new healthcheck that identifies the file system access and plan alternate solutions. Refer to the 2025.2 General Enhancements and Changes update note for details.
- Use of deprecated methods in JavaScript business rules:** Business rules will be prevented from using deprecated methods gradually in future updates. Refer to the 2025.2 General Enhancements and Changes update note for details.
- PDX elements renamed and to be deprecated:** Product Data Exchange (PDX) outbound integration endpoint (OIEP) and inbound integration endpoint (IIEP) elements have been renamed. Some OIEP options now include '(deprecated)' in the name and will be removed in a future update. Customers using these options are advised to edit their OIEPs to use the newer options and ensure continued successful processing. Refer to the 2025.2 General Enhancements and Changes update note for details.

End-of-life schedule for STEP updates

Below is a table outlining the end-of-life schedule for the STEP updates shown. Refer to the updated STEP Update and End-of-Life Information topic in the System Update and Patch Notes section for more information about quarterly update target dates and support end dates for future updates.

Important: For customers not yet on continuous updates, odd-numbered updates (i.e., ends in 1 or 3) have short-term support (STS) and are supported for one year. Updates with long-term support (LTS) are even-numbered updates (i.e., ends in a 2 or 4), and support time varies.

Update	Update Available to Customers	EOL for on-prem and other non-SaaS v2 systems	EOL for SaaS v2 systems not enrolled in continuous updates	EOL for SaaS v2 systems enrolled in continuous updates
11.0	June 8, 2022	June 8, 2025	June 8, 2025	N/A
11.1	November 30, 2022	November 30, 2025	November 30, 2025	N/A
11.2	June 7, 2023	LTS: March 7, 2026	LTS: March 7, 2026	N/A
2023.3	September 27, 2023	STS: September 30, 2024	STS: September 30, 2024	N/A

Update	Update Available to Customers	EOL for on-prem and other non-SaaS v2 systems	EOL for SaaS v2 systems not enrolled in continuous updates	EOL for SaaS v2 systems enrolled in continuous updates
2023.4	December 13, 2023	LTS: June 13, 2026	LTS: June 13, 2026	N/A
2024.1	March 27, 2024	STS: March 31, 2025	STS: March 31, 2025	September 30, 2024
2024.2	June 12, 2024	LTS: September 30, 2026	LTS: September 30, 2026	December 31, 2024
2024.3	September 16, 2024	STS: September 30, 2025	STS: September 30, 2025	March 31, 2025
2024.4	December 11, 2024	LTS: December 31, 2027	LTS: December 31, 2026	June 30, 2025

Starting with the 2025.1 update, all feature updates are exclusive to SaaS customers.

Update	Update Available to Customers	EOL for SaaS v2 systems not enrolled in continuous updates	EOL for SaaS v2 systems enrolled in continuous updates
2025.1	March 26, 2025	STS: March 31, 2026	September 30, 2025
2025.2	June 18, 2025	LTS: March 31, 2027	December 31, 2025

Customers should update as soon as possible to the latest version of the Stibo Systems Enterprise Platform (STEP). Contact Stibo Systems Support if you have questions and/or to receive help and guidance on how to update to a supported version.

Software errors reported for the versions shown above may be rejected once support ends. Issues in progress for those updates will be closed on the end-of-life (EOL) date. It is not possible to extend the support services for desupported versions.

Online Help / Documentation Changes

With every update, documentation updates occur. In addition to online help that is updated as part of the projects listed in this update note set, users should be aware of the following documentation updates when updating to 2025.2:

- Some videos may be inaccessible in online help and past update notes (prior to 2025.1) as we do some video maintenance. We apologize for any inconvenience. We currently continue to house many videos within Stibo Systems Service Portal and within the Communities. For the most up-to-date videos, visit [YouTube](#) and our [Product Updates](#) site.
- STEP Workbench images in documentation continue to be updated to show the restyled UI. This is an ongoing project that will continue over the next several updates. We encourage you to base your evaluation of our product on its current features and functionality rather than documentation images.
- Online Help updates continue in regard to removing on-premises references and directions.
- Starting with this update, documentation will be housed outside of your STEP server. This change makes accessibility easier and frees up system space. When users click on the STEP Documentation link on the Start Page of their production systems (or the Help link within the workbench), they will continue to be sent to the documentation version that is applicable to their system version. For systems that are not

running released code (internal to Stibo Systems only), clicking the STEP Documentation / Help links will take you to the default <https://doc.stibosystems.com/doc/>.

- The Miscellaneous Bugfix update note has been removed from our update note set since Change Logs for STEP baseline *and* components are now readily available. Change Logs can be accessed via the STEP Documentation, available from both your system's Start Page or from within the workbench. Change Logs can also be accessed from our new documentation site (<https://doc.stibosystems.com/>), where they can conveniently be filtered by component.
- The Platform and Software Support update note has been removed for this update since the content duplicated information available in other update notes.
- The 2025.2 STEP Client Requirements topic, and an updated 2025.1 STEP Client Requirements topic, can both be found in the System Update and Patch Notes section of online help.
- Documentation for the Match and Merge Importer v2, which was introduced with the 2025.1 update, is now available. For details, refer to the topics IIEP - Configure Match and Merge Importer Processing Engine and Match and Merge Error Handling in the Data Exchange documentation.

Developments in New UI for STEP

Summary

As part of our ongoing commitment to deliver a simplified user experience in our interfaces, Stibo Systems continues to enhance and extend the functionality of our UIs by adding new capabilities to Stibo Systems' new UI for STEP (also referred to as Instrument)—expanding efficiency and applicability.

- Workflow configuration now allows privileged users to easily view **all items in a workflow**.
- Workflow variables can now be **configured as mandatory** when working in the new UI.
- Admin users can now **fully replace new UI configurations** when importing from a source system to a target system.
- It is now possible to **update the 'Parent' node value of an object** with a task or a browse perspective and the Attribute Tab.
- **Tool tip help text** is available for attributes, data containers, and reference type fields.
- **Expanded locale support** provides consistency between the new UI and the Web UI while enhancing native-language accessibility for a broader user base.
- The ability to view an object's progression through workflows is now simpler through **visualization**.
- A **red-line indicator within the Actions tab of the Configuration tool** now indicates an invalid configuration.
- **Approval errors** generated in the Search screen now show detailed data issues, node IDs, and improved messages for easier resolution.

Important: As of 2025.1, the STEP Instrument Documentation is part of the STEP Documentation.

Details

Tasks perspectives configurable to show tasks in all states in a workflow

Admins can now configure Tasks perspectives so all states in a workflow can be viewed by a user with the appropriate privileges. To implement this change, the workflow state parameter is no longer mandatory when configuring a Tasks perspective. Previously, configuring Tasks perspectives required the admin to choose a workflow state, which meant all tasks not residing in that workflow state were filtered out of the Tasks perspective and not displayed.

As an example of how this change impacts users, prior to this update, a Buyer responsible for onboarding products could only access one state in the Product Creation Workflow, often the final state where she is tasked with finalizing onboarded products. Because she can only view the final state, she is unable to review the other workflow states to find potential bottlenecks, or track progress from other contributors to the workflow. Now, by no longer being required to select a workflow state, all workflow states display in the Tasks perspective table, giving the Buyer visibility into the entire onboarding process and speeding both efficiency and time to market.

For more information on configuring Tasks perspectives, refer to the Configuration Tool: Creating Perspectives and Work Areas topic.

Workflow variables can be made mandatory

When designing workflows for use in the new UI for STEP (also referred to as Instrument), admin users can now set workflow variables as mandatory.

* Hazmat Handling Info (On State)
Requires T1 PPE

Workflow variables, which are configurable bits of data that accompany an object through a workflow but do not themselves exist on the object outside the workflow, are configured in the STEP Workbench. A new 'Mandatory Workflow Variables' parameter is now available on the 'State Editor' window under the 'Mandatory Data' tab, as shown in the screenshot below, for use in Instrument.

State Editor

Edit

Comments
Web UI Screen Mapping

Mandatory Data

Mandatory References

ID	Name	Condition
Add Reference		

Mandatory Workflow Variables

ID	Condition
Add Workflow Variable	

Show Edited State

When a mandatory workflow variable is set on a workflow state, a red asterisk will display beside the variable in the same way as mandatory asterisks display next to attribute fields. When set on a workflow transition, no asterisk will display, but an attempted submission will not succeed if the transition workflow variable has not been populated, and will display an error message.

This improvement can amplify efficiency for work processes by ensuring stakeholders passing a product through a workflow are providing the necessary guidance for review or enrichment of that product in the next workflow state. Workflows can, by necessity, be complex; this update helps users manage that complexity by ensuring required information is provided when most needed.

For more information on mandatory workflow variables, refer to the Workflow Variables topic.

New ability to fully replace configurations

Building upon earlier expansions in configuration management for the new UI for STEP (also referred to as Instrument), this update provides admin users with the ability to fully replace Instrument configurations. With this feature, users can, for example, test an Instrument configuration on a pre-production system and then bring the fully tested configuration into a production system with no changes.

When admin users replace an existing Instrument configuration with a new one:

- existing elements in the target system are updated with the changes made in the source system
- elements deleted in the source system will also be deleted in the target system
- elements not in the source system will be deleted from the target system

These changes improve both the utility and flexibility of managing Instrument in your STEP implementation, helping product managers and data stewards bring Instrument's efficiencies and streamlined user experience into their users' daily work processes.

For more information on Instrument configuration management, review the Centralized Configuration topics.

New ability to update the parent node of an object

A new column named 'Parent' is now available to view and edit in a Tasks or Browse perspective and the Attribute tab. Clicking within the cell of the 'Parent' column for an object will display a node picker that will allow the user to change the value of the parent to another relevant Parent node if necessary. This is especially helpful for making quick corrections for new or existing objects, properly categorizing a newly initiated object, or when objects are discontinued and need to be re-categorized quickly and easily. This new functionality can be done with one object at a time.

For additional information, refer to the Perspective Basics topic.

Help Text tooltip addition

A tooltip help text can now be configured for attributes, data containers, and reference type fields. After enabling the 'Product Attribute Help metadata attribute' setting in the workbench, tooltip help messages can be configured for each of the relevant fields within the workbench. An icon will appear in Instrument for fields with a message configured and hovering over the icon will allow the message to display. The message will provide context when a user is enriching objects within Instrument.

For additional information, refer to the Perspective Basics topic.

Expanded locale support

Locale support for the new UI (modified through the settings menu of your browser) now includes 13 languages, aligning it with the Web UI. This provides consistent language support across both interfaces and gives more users native-language support.

Eight additional languages added with this update:

- Chinese (simplified)
- Korean
- Danish
- Norwegian

- Finnish
- Portuguese
- Japanese
- Swedish

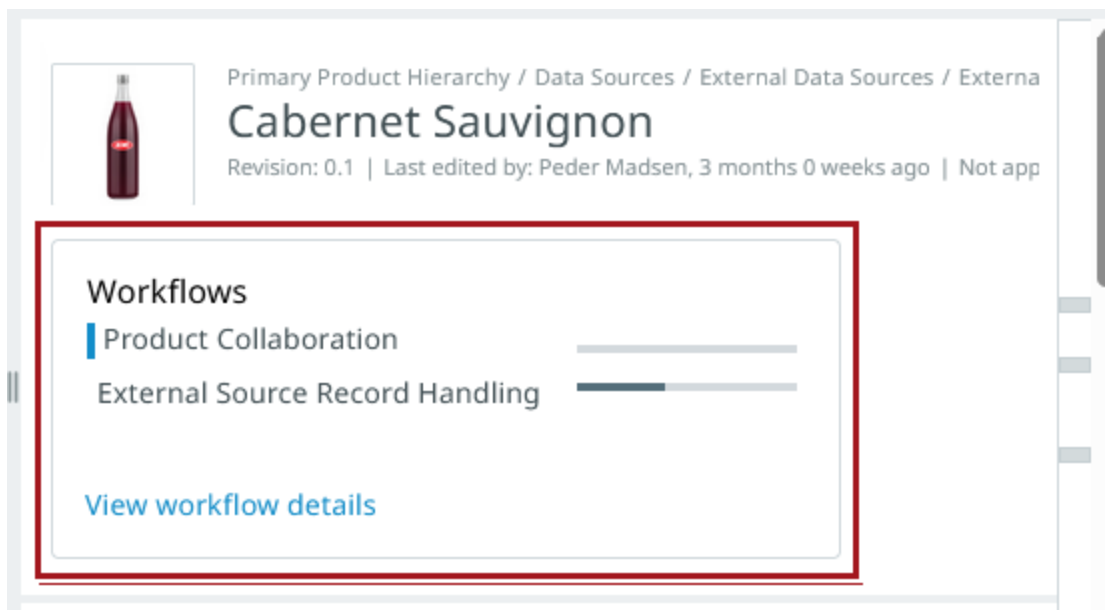
These complement our previously supported languages of English, French, German, Italian, and Spanish.

New workflow visualization

In a significant leap forward for workflow usability in the new UI for STEP (also referred to as Instrument), this update makes workflow visualization available to users. Workflow visualization enables product managers, buyers, and other participants in a workflow to view a wide range of important workflow-related data points about a given product in a visually intuitive way. These data points include:

- which workflow state (or states) a given object currently resides in
- which workflow state is next
- how long an object has been in each active workflow state
- which workflows a given object has successfully completed

This information is provided to the user via a new workflow card that displays in the details view for objects in the Tasks or Browse perspectives.



At a glance, users can quickly view which workflows the selected object is in, and how far those objects have progressed in those workflows via easy-to-read progress bars. Users can click the 'View workflow details' button or any of the individual workflows to display a pop-up presenting additional information about the object relating to its journey through one or more workflows.

Workflows

ACTIVE WORKFLOWS

Product Collaboration

External Source Record Handling

PARALLEL STATES

EnrichmentStart

Duration in state1 month 2 weeks

Assigneestepsys

Previous states

No previous state to display

Next possible states

State nameMessage to Enrichment Group

State nameEnd

Close

To enable this functionality, admin users configuring workflows in the STEP Workbench can assign a "percentage done" for each workflow state. This lets the system know how much progress to report when an object in a workflow has progressed to a specific workflow state.

For more information on workflow in the new UI for STEP, refer to the Submitting Tasks topic.

Red-line indicator within the Actions tab of the Configuration tool

After admins create actions within the Actions tab of the Configuration tool, changes made to the properties of these actions in the STEP Workbench can cause the action configuration to become invalid. Such changes include, but are not limited to, the deletion of an object type, workflow or parent node, or updating a workflow to utilize a different object type. In these cases, a red vertical line will be displayed next to the invalid action. Hovering over the indicator will display a small pop-up with details about the error.

For additional information, refer to the Configuration Tool Actions topic.

Enhanced error feedback for failed approvals in the Search screen

The approval action now provides detailed feedback when an approval fails. The screen flags affected nodes with data issues that clearly explain the cause of failed approval. It highlights specific attributes or references when mandatory values, links, or

references are missing. Generic issues, such as unapproved parent nodes, are also reported to guide the user. The data issues enable the user to quickly access the relevant nodes. Notification messages have been refined to make approval errors clearer and easier to address.

Customer, Supplier, and Location MDM Enhancements

Summary

The following enhancements to Customer, Supplier, and Location MDM functionality have been made as part of the 2025.2 update. These changes are outlined below and described in the Details section that follows:

- A new **Machine Learning Matcher version 2.1** introduces significant enhancements in matching person names and addresses, including improved handling of name suffixes and refined matching to reduce false positives.
- Users can now customize the title of the '**Golden Record Clerical Review Task List**' screen used within a Match and Merge solution, allowing for more personalized and informative titles.
- '**Potential Duplicate**' has been renamed to 'Potential Duplicate Group' in the 'Matching - Merge Golden Record' component model to better reflect the reference to multiple records.
- **Constraints** within the Match and Merge process have been removed, enhancing user control over 'Deactivated Attributes', 'Source Relation' references, and 'Unmerged-From' references.

Details

New ML Matcher version 2.1 with enhanced person name and address matching

A new Machine Learning Matcher version 2.1 is introduced with this update, featuring significant improvements in both person name and address matching.

Person name matching

- The handling of suffixes has been enhanced. Supported suffixes include: [second, 2, 2nd, ii], [third, 3, 3rd, iii], [fourth, 4, 4th, iv], [fifth, 5, 5th], [junior, jnr, jr], and [senior, snr, sr].
- The matching has been refined to generally assign lower scores to dissimilar names.

Address matching

- The matching has been refined to generally assign lower scores to addresses where the sub-premise information, such as apartment numbers, differs.
- Additionally, the scores have been adjusted to generally assign lower values to addresses where the street name is only somewhat similar.

These enhancements result in fewer false positives for both person name and address matching, providing more accurate and reliable matching results.

For more information about the Machine Learning Matcher, refer to the topic **Matcher: Machine Learning Matcher** in the **Matching, Linking, and Merging** documentation.

Configurable title for the 'Golden Record Clerical Review Task List' screen

Users are now able to configure the title on the 'Golden Record Clerical Review Task List' screen that is used for managing potential duplicates.

Previously, the title for this task list was static and not localized, displaying as 'Golden Record Clerical Review Task List'.

The Title Formatter allows users to set the screen title with the following parameters: Workflow ID, Workflow state title, Workflow title, and Status Flags.

This enhancement allows greater personalization of task lists, ensuring that the titles are more relevant and informative based on the specific workflow and status.

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

'Potential Duplicate' renamed to 'Potential Duplicate Group'

The 'Potential Duplicate Match Score Attribute' and the 'Potential Duplicate Reference Type' have been renamed to 'Potential Duplicate Group Match Score Attribute' and 'Potential Duplicate Group Reference Type' in the 'Matching - Merge Golden Record' component model. These new names more accurately indicate that they refer to multiple records identified as potential duplicates based on matching criteria and algorithms within STEP.

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

Removal of constraints in Match and Merge

With this update, several constraints protecting modifications to Match and Merge owned attributes and references have been removed. Users can now update 'Deactivated Attributes', remove 'Source Relation' references and associated source information, and manage 'Unmerged-From' references.

These actions were previously restricted to ensure data integrity in the Matching - Merge Golden Record component model. Removing these constraints now offers users more flexibility and control over their data.

- **'Deactivated Attributes' on golden records**

Users now have the ability to update 'Deactivated Attributes' owned by the Matching - Merge Golden Record component model.

However, records that have a 'Merged-Into' relation and have been deactivated by the Match and Merge process cannot be reactivated by users.

- **'Source Relation' references and source information**

Users can now manually remove 'Source Relation' references between golden records and source system records, as well as source information.

Removing a 'Source Relation' will also remove all source information for this relation, whereas removing source information will leave an empty 'Source Relation.' Source system records will not be changed or removed during the process.

- **'Unmerged-From' references**

Constraints on 'Unmerged-From' references have been removed, allowing users to delete 'Unmerged-From' references manually by default, or add the references again if they were deleted by mistake.

This update allows users to delete golden records. Previously, users could not delete an entity if any 'Unmerged-From' references were pointing to it.

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

Data Exchange Enhancements and Changes

Summary

The following enhancements and changes have been made as part of the 2025.2 update:

- Users can now override the Kafka Streaming Receiver's 'Consumer Group ID'. Previously, this value was auto-generated using the STEP system name and the ID of the inbound integration endpoint (IIEP). Additionally, the Execution Report data is improved so that it no longer reports unnecessary 'Unknown configuration parameter' messages. Refer to the Kafka Streaming Receiver topic in the Data Exchange documentation.
- Inbound integration endpoints (IIEPs) using the Amazon SQS receiver method no longer report extraneous messages about connecting to and disconnecting from the SQS provider in the Execution Report. Five individual lines have been replaced with 'Connecting and Disconnecting to step.0.log.' For information on the receiver method, refer to the Amazon SQS Receiver topic in the Data Exchange documentation.

These enhancements and changes have also been made as part of the 2025.2 update and are described in the Details section that follows:

- **REST API V2 improvements** in this update support uploading messages through an enabled and scheduled IIEP, without invoking the IIEP. Also, customers can have extended control over integration endpoints (IEPs), event processors (EPs), and gateway integration endpoints (GIEPs), including the ability to set and/or get metadata attribute values and activate / deactivate a processor. And, the schema for background processes in REST API V2 now allows the execution time of background processes to be retrieved in milliseconds.
- The **LZ4 compression / decompression parameters** have been removed from the Kafka Delivery method and the Kafka Receiver method. These parameters caused issues with the automatic compression and decompression provided by Kafka.
- For outbound integration endpoints (OIEPs) using the **Context Splitter post-processor**, administrators can now modify the file name template and the characters used for the file name delimiter. This improvement ensures that the file names generated can be compatible with downstream systems.
- **PDX integration elements** have been renamed to clarify their intended use and simplify configuration.
- PIES Importer now provides control over retaining or replacing existing **Price List data containers** during import.
- AutoCare now supports latest **Description Codes** and improved error reporting for Description Code issues during PIES import.
- PIES Importer now **Supports MaintenanceType='C'**, enabling partial updates to existing PIES Items.

Details

REST API V2 improvements

REST API V2 now supports uploading messages through an enabled and scheduled IIEP, without invoking the IIEP, using the new `POST /inbound-integration-endpoints/{id}/upload` operation.

REST API V2 also now allows extended control over integration endpoints (IEPs), event processors (EPs), and gateway integration endpoints (GIEPs). The following new and/or improved HTTP operations are available for IEPs (`inbound-integration-endpoints` and `outbound-integration-endpoints`), EP (`event-processors`), and GIEPs (`gateway-integration-endpoints`) object types:

- New `PATCH/{object type}/{id}` - allows setting metadata attribute values for the specified ID, for example name, description, and other attributes that are valid on the object type.
- Improved `POST/{IEP object type}/{id}/enable` - activates the specified ID for an IEP, now with the option to resume related 'suspended' background processes.
- Improved `POST/{IEP object type}/{id}/disable` - deactivates the specified ID for an IEP, now with the option to suspend related 'waiting' background processes.
- Improved `GET/{object type}/{id}` - allows getting metadata attribute values for the specified ID, previously only name and description were available.
- Finally, the schema for background processes in REST API V2 has been extended, allowing the execution time of background processes to be retrieved in milliseconds. Previously, the execution time could only be measured in seconds. This improvement provides greater accuracy for scenarios that require more precise timing.

For details, refer to the 'REST API V2' section of the Technical Documentation accessible at `[system]/sdk` or from the Resources section of the system's Start Page.

Removal of LZ4 compression / decompression parameters

Previously, the 'Compress Message Content' parameter on the Kafka Delivery method and the 'Decompress Message Content' parameter on the Kafka Receiver method allowed selection of 'LZ4'. However, these options caused confusion because they do not control the Kafka framework 'compression.type' setting. Instead, LZ4 compression / decompression is activated within STEP and messages using these options were not automatically decompressed / compressed on the consumer / producer side. For this reason, the options have been removed.

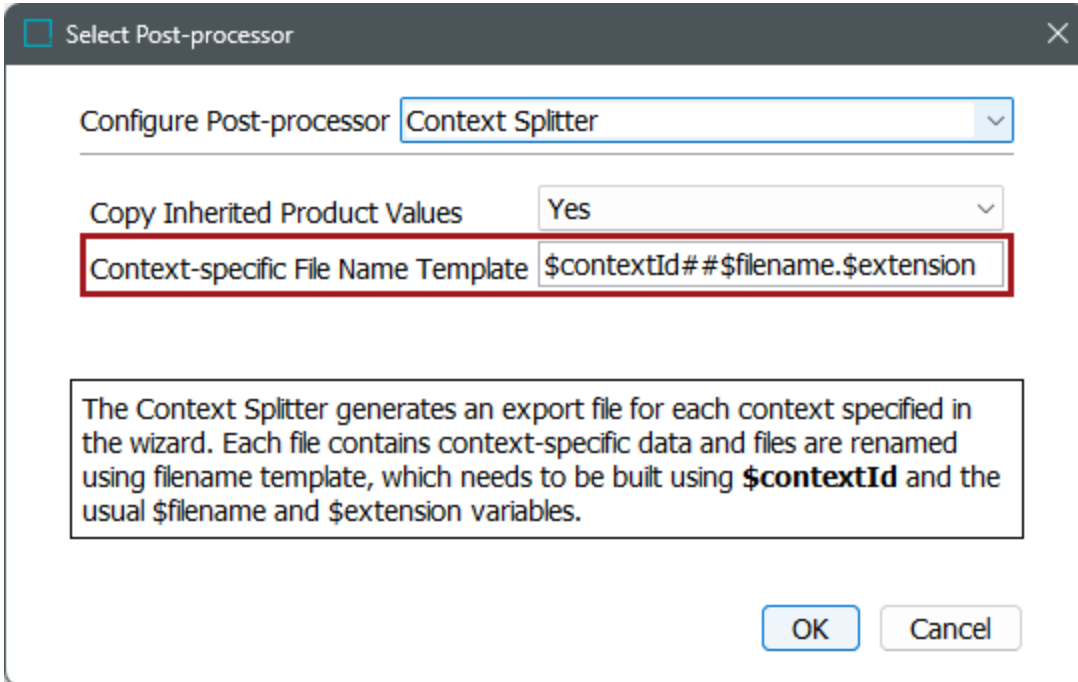
For integration endpoints (IEPs) that need to use the legacy STEP LZ4 compression, the following properties can be set in the Self-Service UI on the environment's 'Configuration properties' tab:

- Outbound integration endpoints (OIEPs): `Kafka.Delivery.Dynamic.ExtraDriverOptions`
- Inbound integration endpoints (IIEPs): `Kafka.Receiver.Dynamic.ExtraDriverOptions`

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

OIEP Context Splitter post-processor editable file name template

The Context Splitter post-processor divides the export file generated by an outbound integration endpoint (OIEP) into individual files based on the contexts on which the data is dependent. Previously, the file name template could not be edited and used '###' as the file name delimiter, which sometimes caused issues with downstream systems. With this update, the file name template parameter is included in the post-processor dialog and can be edited by the user.



Select Post-processor

Configure Post-processor: Context Splitter

Copy Inherited Product Values: Yes

Context-specific File Name Template: \$contextId##\$filename.\$extension

The Context Splitter generates an export file for each context specified in the wizard. Each file contains context-specific data and files are renamed using filename template, which needs to be built using \$contextId and the usual \$filename and \$extension variables.

OK Cancel

For details on this new parameter, refer to the OIEP - Event-Based - Output Templates Section topic or the OIEP - Select Objects - Output Templates Section topic, both in the Data Exchange documentation.

Renamed PDX integration elements

With the improvements to Product Data Exchange (PDX) outbound integration endpoint (OIEP) and inbound integration endpoint (IIEP) elements over previous updates, the names of some elements have become confusing by including variations of the name. To clarify the expected selection for each element, the names have been updated, and the recommended options are now all named 'PDX', as indicated below.

- In the IIEP 'Receiver Method' section, the previous 'Product Data Exchange' option is now named 'PDX'. This is the recommended receiver method for PDX.
- In the OIEP 'Output Template' section, the 'Pre-processor' dropdown:
 - the previous 'Product Data Exchange Outbound Pre-processor' option is now named 'PDX pre-processor (deprecated)'.
 - the previous 'PDX Pre-processor 2' is now named 'PDX pre-processor'. This is the recommended pre-processor for PDX.
- In the OIEP 'Delivery Method' section:
 - the previous 'Product Data Exchange' option is now named 'PDX (deprecated)'.
 - the previous 'Product Data Exchange 2' option is now named 'PDX'. This is the recommended delivery method for PDX.

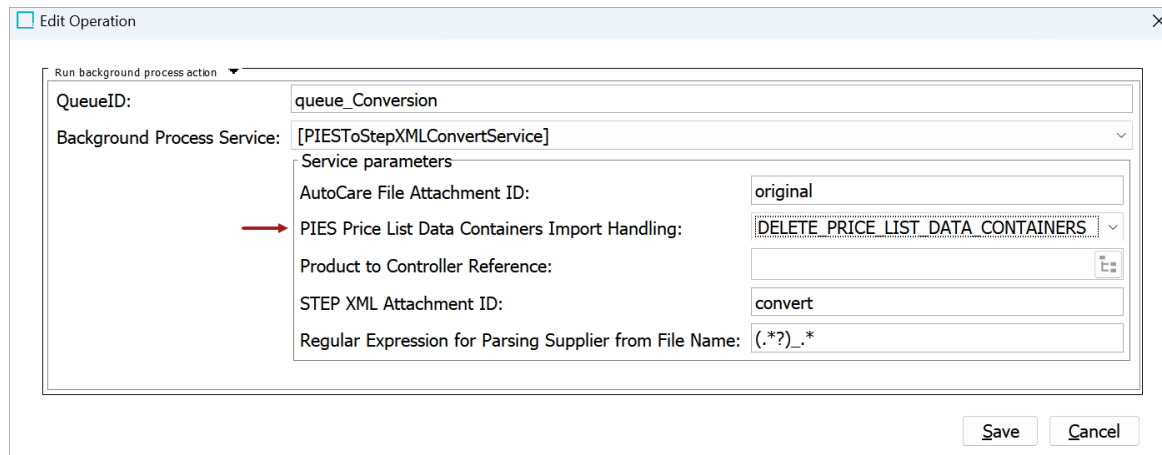
OIEP options that include '(deprecated)' in the name will be removed in a future update. Customers using these options are advised to edit their OIEPs to use the newer options and ensure continued successful processing.

For more information, refer to the OIEP - Product Data Exchange 2 Delivery Method topic, the OIEP - Event-Based - Output Templates Section topic, the OIEP - Event-Based - Pre- and Post-processing Section topic, and the IIEP - Product Data Exchange Receiver topic, all in the Data Exchange documentation.

Improved Price List data container handling in AutoCare PIES import

The Product MDM for Automotive solution now offers a more consistent and reliable approach to managing Price List data containers during PIES Item imports.

A new parameter, **PIES Price List Data Containers Import Handling**, has been added to the [PIESToStepXMLConvertService] conversion service. It allows the user to control how existing data containers are handled during import:



The screenshot shows the 'Edit Operation' dialog box for the 'Run background process action'. The 'QueueID' is set to 'queue_Conversion' and the 'Background Process Service' is '[PIESToStepXMLConvertService]'. Under 'Service parameters', the 'AutoCare File Attachment ID' is 'original', the 'PIES Price List Data Containers Import Handling' is set to 'DELETE PRICE LIST DATA CONTAINERS' (highlighted with a red arrow), the 'Product to Controller Reference' is empty, the 'STEP XML Attachment ID' is 'convert', and the 'Regular Expression for Parsing Supplier from File Name' is '(*?)_*'. 'Save' and 'Cancel' buttons are at the bottom right.

For existing implementations where PIES Items with Price List data containers already exist in the system, the user should carefully consider the chosen option in the PIES Price List Data Containers Import Handling parameter before proceeding with the import:

- Selecting **Delete_Price_List_Data_Containers** deletes old data containers and replaces them with new ones (with new IDs).
- Selecting **Never_Delete_Price_List_Data_Containers** retains old data containers, adds new ones with new IDs.

For more information on this new parameter, refer to the Conversion State topic in the Solution Enablement: Product MDM for Automotive documentation.

AutoCare solution updated to support latest Description Codes

The AutoCare component within the PMDM for Automotive solution now supports the most recent Description Codes provided by AutoCare.

Additionally, the error report generated by the BGP during a PIES file import has been improved to provide more detailed and explanatory messages for errors related to Description Code.

Support for MaintenanceType='C' in PIES Importer

The PIES Importer in the PMDM for Automotive solution has been enhanced to support MaintenanceType='C' at the PIES Item level in PIES import files. While MaintenanceType='A' was already supported, the addition of MaintenanceType='C' now enables the importer to process changed PIES Items. This enhancement allows partial updates to existing items to be calculated and applied during the Delta Calculation state.

General Enhancements and Changes

Summary

The following enhancements and changes have been made as part of the 2025.2 update:

- Rhino has been upgraded to version 1.8.0, giving developers access to newer language features for improved solutions when coding in JavaScript. For details, refer to the Rhino support web site at <https://mozilla.github.io/rhino/compat/engines.html>.
- The 'Test & Time Business Rule' dialog now supports the ability to select any object type in the 'Test Object' parameter. Previously, business rules could only be tested against products, assets, entities, and classifications. This enhancement allows users to test any object type in the system, such as attributes and lists of values, that is valid for the business rule being tested. For more information, refer to the Testing a Business Rule topic in the Business Rules documentation.
- The 'STEP Extension API Guide' has been updated to include examples that work with Java 21 and instructions for updating existing components. Refer to the Technical Documentation accessible at [system]/sdk or from the Resources section of the system's Start Page.
- The Change Package 'Before Install' and 'Install Preview' columns have been improved to eliminate false positives due to comments in the detailed 'Compare Package Contents' dialog, especially when using Git. For details, refer to the Statuses and Discrepancies in Change Package Items topic in the Configuration Management documentation.
- The 'Reset Multifactor Authentication' option, accessible by right-clicking the user, is now enabled to allow a configuration reset based on the 'Multifactor Authentication Required' parameter being set on the user group or on one of its parents' user groups. Refer to the Multifactor Authentication topic in the System Setup documentation.
- Several system setup actions now properly generate events. These actions include: create / modify / delete Setup Group, modify / delete Web UI, modify JavaScript in Business Rules, changes to privileges for Action Set and User Group, and user added / removed from User Group. Refer to the Core Events topic in the System Setup documentation.
- The 'Started By' column has been removed from all subprocesses on the Elasticsearch Reindexing tab and will now only appear on the parent process. Refer to the Elasticsearch Index Publishing topic in the System Setup documentation.
- Updated Kafka connection authentication for DaaS.
- New warning messages appear when approaching the memory limit for sandbox environments.
- The automatic deletion of obsolete image cache files has been optimized. Additionally, with STEP 2025.2, existing image cache files will automatically migrate to new and more efficient storage. This migration will not have a performance impact. Refer to the Image Cache Processing Plugin Parameters and Triggers topic in the System Setup documentation.
- The Execute Business Action for Event Batch event processor now allows for triggering events in the Main and/or the Approved workspaces. This improvement adds the Triggering Workspace parameter for batches, aligning with existing functionality on the Execute Business Action event processor. Refer to the Execute Business Action for Event Batch Processing Plugin Parameters and Triggers topic in the Data Exchange documentation.
- For the event-based outbound integration endpoints (OIEPs) or event processors (EPs), change flags for externally maintained attributes are now present whether the attribute is defined as a triggering element at the attribute level or via attribute groups. Previously, change flags were only available if the triggering element was an attribute group linking the externally maintained attributes. Refer to the 'Change Flags for Events' section of the Core Events topic in the System Setup documentation.
- The background process (BGP) storage functionalities and mechanisms are enhanced to improve execution and performance. While existing BGP UI functionality is unchanged, intermediate BGP files are now accessible only through APIs and the user interface. The feature is being rolled out gradually to SaaS environments and is not immediately available to all customers.

These enhancements and changes are also including in the 2025.2 update and are described in the Details section that follows:

- **Reflection in JavaScript business rules** will be disabled with the 2025.3 update. Refer to the Details section below to find information on how to identify rules that need to be rewritten before reflection is disabled.
- The **JavaScript API** methods have been enhanced to support new asset actions, user and group deletions, system name access, and improved exception handling for event triggers in workflows. Additionally, 'NULL' arguments are now valid for 'queryReferences(refType)'.
- A new healthcheck reports **file system access by JavaScript business rules**. This informs users about business rules that should be modified in preparation for the future prevention of file system access.
- A new healthcheck alerts users to **deprecated Stibo Systems methods** used in JavaScript business rules. These methods, found in both public and private APIs, will be gradually removed in future updates. Admins can use the new healthcheck to identify business rules that should be updated for long-term stability.
- The new **'Deactivated' user functionality** allows inactive users to be excluded from the licensed number of users, while retaining all settings and log information for potential reactivation. This feature ensures that user management is more efficient and flexible, accommodating changes in user activity.
- **Alternate user IDs** longer than 40 characters are now supported in environments with external authentication, such as OAuth or SAML. This enhancement allows seamless use of unique User Principal Names (UPNs) with Active Directory. Additionally, the unique Key functionality is now available for User objects which prevents duplicate alternate user IDs.
- The Globally Configured Unfolding Data Container now supports **help text for attributes**, providing user guidance on attribute population. Users are encouraged to transition from the Globally Configured Data Container component to the Globally Configured Unfolding Data Container component for an enhanced experience.
- The product data onboarding offering has been extended to also support **Enhanced Content Delivery**.

Details

Use of reflection in JavaScript business rules will be disabled in 2025.3

In JavaScript business rules, reflection has been used to access non-public methods in the API. Since reflection can be a security risk and can also potentially lead to performance issues and unexpected issues during upgrade, it will be disabled with the 2025.3 update.

With the 2023.3 update, a Configuration healthcheck 'Reflection usage in business rules' was made available. It identifies business rules that use reflection, and a warning with the text 'Attempted to call reflection API...' is written to the step.0.log. To prepare for restricted access of reflection usage, rewrite the reported business rules to use publicly available methods. If the needed functionality is not public, create an idea in Community or reach out to your Stibo Systems representative.

For information on the healthcheck, refer to the Healthcheck Test Index topic in the Performance Analysis documentation.

Updates to the JavaScript API

The JavaScript `Asset` method can now use:

- `Asset.hasContent()` to verify that an asset has content.
- `Asset.getContent()` to retrieve content from an asset.

The JavaScript `AssetContent` method can now use:

- `AssetContent.isLocal()` to check that asset content is local in the current viewing context.
- `AssetContent.delete()` to delete asset content.

The JavaScript `SystemInformation Manager.getSystemInformation()` method now gives access to the system name as follows:

- ```
interface SystemInformation {
 String getSystemName()
}
```

The following JavaScript methods now allow users and groups to be deleted. This improvement matches functionality that is available with existing REST methods.

- `com.stibo.core.domain.Group`
- `com.stibo.core.domain.User`

Improved exception handling is now available in the JavaScript methods:

- `TriggerResult triggerById(String taskEventID, String message)`
- `void triggerLaterById(String taskEventID, String message)`

The following methods have been made available for 'ReferenceTypeHome':

- `getProductReferenceTypes`
- `getClassificationReferenceTypes`
- `getAssetReferenceTypes`
- `getEntityReferenceTypes`

'NULL' arguments are now accepted for the 'queryReferences(refType)' JavaScript API call. This change makes querying the server for lists of references much easier.

For more information, refer to the Javadoc that is linked in the 'Scripting API' section of the Technical Documentation accessible at `[system]/sdk` or from the Resources section of the system's Start Page.

## File system access by a JavaScript business rule

As first reported in the 2024.3 Update Guide, a future update will disable opening files from business rules to prevent improper access that could unintentionally lead to system instability or security issues.

To assist users in identifying JavaScript business rules that access the file system, the new 'Javascript file access' healthcheck will report business rules that potentially accessed the file system in the past seven (7) days. Users should explore alternative methods to achieve the desired outcome without using the file system.

For more information, refer to the Healthcheck Test Index topic in the Performance Analysis documentation.

## Deprecated Stibo Systems methods

Both public and private APIs can include deprecated Stibo Systems methods that are used in JavaScript business rules. These deprecated methods will be gradually removed in future updates. Admins can use the new 'JavaScript Deprecated Method Usage' healthcheck to identify the usage of deprecated methods and make updates to instead use supported methods for long-term stability. For details, refer to the Healthcheck Test Index topic in the Performance Analysis documentation.

## New 'Deactivated' user functionality

Although inactive users exist in STEP, they do not presently need access to STEP, for example, while on extended leave. Inactive users can be identified as defined in the User Last Activity topic within the System Setup documentation. Previously, these users counted against the licensed number of users, regardless of their activity level. Setting the new 'Deactivated' parameter on the User editor means that user is not included in the licensed number of users. The user can be reactivated if necessary, retaining all settings and log information, unlike deleting a user.

A deactivated user cannot log into STEP, invoke REST API or GraphQL API, or be impersonated. When a deactivated user is assigned to a background process (BGP), integration endpoint (IEP), event processor (EP), gateway integration endpoint (GIEP), or a workflow task, running the process or endpoint will fail.

A user with the 'Maintain users and groups' setup action can update a user's status in System Setup via the 'Deactivated' parameter on the User object. The status of the 'Deactivated' parameter can be reviewed and changed with REST V2 API using the `PATCH /users/{id}` operation. The status can also be returned with GraphQL, but updates are not allowed.

The 'Deactivated' status for a user can be included in STEPXML with the 'deactivated=' tag, where the valid options are "true" or "false". When the tag is absent, the value of the 'Deactivated' parameter is not changed. Refer to the STEPXML section using the 'XSD' link in the Technical Documentation accessible at [system]/sdk or from the Resources section of the system's Start Page.

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

## Alternate user IDs allowed for external authentication

Environments that use external authentication, such as OAuth or SAML, often need user IDs that are longer than the 40-character limit allowed in STEP. This enhancement allows seamless use of unique User Principal Names (UPNs) with Active Directory. A user created in an external IdP will be synchronized to STEP and the STEP user will be created. The user object will have the Externally Maintained parameter enabled and must use the alternate ID to access STEP.

Configuring STEP to work with alternate IDs includes creating a description attribute valid for User objects to hold the alternate ID, creating a Key to ensure ID uniqueness, and adding a Stibo Systems Service Portal ticket to request setting the 'OAuthSSO.UserIdentification.KeyID' configuration property to identify the external ID authentication key.

Refer to the Unique Keys topic and the Alternate Authentication topic, both in the System Setup documentation.

## Attribute help text in Globally Configured Unfolding Data Container

With the 2025.2 update, users can now display help text for attributes within the Globally Configured Unfolding Data Container on a Node Details screen in the Web UI. When the 'Context Help metadata attribute' is configured and made valid for the relevant attributes within the data container, the help text will be displayed for these attributes, providing information to end users about the attributes and how they should be populated.

For details, refer to the topics Globally Configured Unfolding Data Container View and Attribute Help Text in Web UI in the Web User Interfaces documentation.

With this added feature, the Globally Configured Data Container component, which displays data containers in the Web UI, has been superseded. While the component remains available for use, we recommend that users transition to the Globally Configured Unfolding Data Container component for an enhanced and consistent user experience.

For more information, refer to the topics Global Data Container Representations and Globally Configured Data Container in the Web User Interfaces documentation.

## Enhanced content delivery

With the 25.2 update, we are extending the product data onboarding offering to also support enhanced content delivery through the Enhanced Content Tab. Once the enhanced content setup is completed in STEP, the suppliers invited will be granted access to our Enhanced Content Cloud Service providing a strong toolkit to produce below-the-fold content. This includes several standardized modules to compose the layout that best conveys the product story.

The content produced can then be sent to STEP through the native integration established, where it can be reviewed in a structured process facilitated by STEP Workflows. When approved, the content can be provided to the downstream eCommerce platform to easily embed it on the appropriate product detail pages.

The access to the Enhanced Content Cloud Service lowers the barrier suppliers are facing to start producing engaging enhanced content for the products listed, posing a potential to improve the number of listings leveraging enhanced content availability to achieve higher conversion rates. Additionally, content look and feel is naturally consistent as all suppliers are producing content with the same set of standardized modules.

The unified approach to content ingestion eliminates the need to consolidate and transform the content and allows Product Content Specialists to focus their efforts on reviewing content as part of the product onboarding process.

Also included with this update is better content quality, faster processing, and more consistent Product Details Pages.

For more information, refer to the Enhanced Content Tab topic in the Product Data Exchange section of the Data Integration documentation.

# Self-Service UI Enhancements and Changes

## Summary

The following enhancements and changes have been made for all SaaS environments and may be further documented in the SaaS Self-Service 'User guide'. These improvements have been made available between the 2025.1 update and the 2025.2 update.

### Quarterly Maintenance includes automatic updates

For customers who are not enrolled in Continuous Updates, Stibo Systems updates SaaS environments to the latest software build during each quarterly maintenance window. This ensures consistent application of the latest bug fixes, security patches, and stability enhancements. To support this process, Stibo Systems provides customers with clear visibility into the changes included in each update and the ability to perform and validate the update themselves, ahead of the maintenance window and at their own convenience.

Starting four weeks prior to each maintenance window, the SaaS Self-Service UI will display alerts in multiple locations. These alerts will appear when a 'maintenance image', which is an image with critical fixes as described above, is available for an environment and provided as an update option.

### New delta change log

Customers can view a delta change log when updating to a new image within the same STEP version. This delta change log compares the image currently used with the selected image for the update and lists all changes to be applied when performing the update.

### Improved environment availability status information

Additional status information is now displayed when an environment is unavailable. Statuses such as 'stopping', 'starting up', and 'retrying startup due to failure' allow customers to track the progress of an environment update.

### IP Access Control allows exclusion of API paths

The STEP IP access control configuration for an environment now allows customers to exclude specific API paths, in addition to the existing option to exclude certain Web UIs from IP access control.