RELEASE NOTES

STEP Trailblazer 7.4

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Release Notes for STEP Trailblazer 7.4

Release Date: November 2015

Document Overview

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

This document describes the changes between the current and previous release. However, some functionality is controlled via licenses and may not be available on a particular system. Questions regarding licensing for any customer should be directed to the Stibo Systems account manager.

Release Overview

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

- Enhanced partner enablement via further expansion of the Extension API
- Improved authentication functionality and system security
- New tools for configuration management across multiple systems
- Addition of several Web UI features to better support Customer MDM initiatives
- Enhanced data quality features, such as the option to have multiple completeness scores
- Improved localization support, including the ability to localize workflow state names and events
- Expansion of unique key functionality across the STEP Workbench and Web UI
- Web UI enhancements and new features for end users and designers, including a range of usability improvements
- Usability improvements and enhanced features across all STEP Print solution components

This document describes the above, as well as a long list of other improvements, in more detail.

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API Extensions and Enhanced Partner Enablement

Summary

Enhancements have been made to the software development kit available to partners, allowing them to implement extensions that would previously have required Professional Services from Stibo Systems. The kit includes a minimal developer environment with the standard public Application Programming Interfaces, called Script API, as well as the Extension API.

With STEP Trailblazer 7.4, the Extension API has been expanded to include additional extension capabilities for Outbound Integration End Points, Web UIs, and the REST interface. In addition, the existing REST API has been enhanced. Each is briefly mentioned below, and additional details can be found in the STEP SDK documentation.

Details

Create Postprocessor Plugins for Outbound Integration Endpoints

It is now possible to write Java Outbound Integration Endpoint (OIEP) Postprocessor plugins using the Extension API. An OIEP Postprocessor plugin works on the output from the Processing Engine and can manipulate, convert, and/or split the output before it is handed over to the Delivery plugin. Note that, unless customized, the Processing Engine of an OIEP is the STEP Exporter and the file to manipulate is the STEPXML file generated by the exporter.

Extend Web UI Components

The following extensions to the Web UI are now possible using the Extension API:

- Create node picker dialogs to allow users to select objects from the STEP hierarchies
- Create general purpose popup dialogs that allow for user input
- Create data grid components for displaying and editing multiple items at once
- Create components for the header that get notified when the user navigates to another object
- Specify the severity (Info / Warning / Error) of notification popups
- Use Web UI screen IDs, workflows, and workflow states as parameter types for extension components

Extend the Web Service REST Interface

The Extension API now allows third-party developers to implement their own extensions to the REST interface so that users can tailor REST calls to their particular requirements.

Specify Background Process States to be Reported Using REST

The 'backgroundprocesses' method for integration endpoints has a new optional repeatable parameter (state) for which a valid process state must be indicated. If used, this can lead to significant performance improvements as the call needs only to return a subset of the available processes (e.g. waiting and running, but not processes in failed or ended states). For example:

http://[server]/restapi/integrationendpoints/[IEP ID]/backgroundprocesses?state=waiting&state=running

Care must be taken to ensure that valid states are specified (all lowercase), else the call will fail. Valid states are: waiting, running, succeeded, completedwitherrors, failed, suspended, and aborted.

Enhancements to In-Memory Technology

Summary

The Trailblazer 7.3 release included a beta release of the STEP In-Memory Database component. With the release of STEP Trailblazer 7.4, this component has been further enhanced based on the beta release results and is now available as part of an Early Access Program. This allows businesses using STEP to try out the In-Memory component before it becomes generally available in the April 2016 release of STEP. Additional information on the Early Access Program and on the STEP In-Memory technology is included below.

Details

The STEP In-Memory Database component takes advantage of large amounts of application server memory to hold all data in memory. This maximizes data fetch speed since it is no longer necessary to access Oracle or the disk in order to fetch data. This especially improves the time it takes to handle complex requirements, such as complex searches or exports with calculated attributes that reference other objects.

The primary benefits of the In-Memory Database component are:

- Faster search results when using search functionality that takes advantage of the In-Memory Database (currently Object Type, Search Below / Hierarchy, and ID / Name / Value).
- Faster operations on complex data models where business rules and calculated attributes navigate references. This offers performance improvements across imports, exports, workflow transitions, object approvals, and UI displays.
- Faster performance of heavy write operations such as large imports, as offloading a lot of read operations from the database has been shown to have a positive impact on performance in scalability tests.

Testing of the In-Memory component across large sets of production data has yielded the following results:

- Searches up to 50-100x faster
- Exports of data sets including calculated attributes perform 2-3x faster
- Data quality profiling performs 3x faster

Stibo Systems has instituted an Early Access Program for the In-Memory Database component to provide customers with an opportunity to work the new functionality prior to its official launch in April 2016. This also allows users to provide input for additional improvements that may be added to the component roadmap. Customers who are interested in joining the Early Access Program should contact their Stibo Systems account manager for additional information.

The In-Memory functionality is easily enabled (and disabled again) on STEP installations already running Trailblazer 7.3 or 7.4, provided that the application servers have sufficient memory. In addition, use of the STEP In-Memory Database is fully backwards compatible for existing queries, reports, and backup scripts.

The amount of memory required is approximately 60 GB per 100 million attribute values. The Stibo Systems Technical Support team is available to offer assistance in evaluating existing systems for memory requirements, as well as to assist customers in setting up an environment in the Amazon Cloud to test out the In-Memory component. This makes it possible for customers to test out the functionality without purchasing hardware.

Enhanced Authentication Functionality

Summary

STEP authentication functionality has been updated in a variety of ways, including:

- Extension of the authentication framework to support multiple authentication approaches within a single STEP installation
- More open-ended authentication framework that makes it simpler to extend STEP with additional customized authentication approaches
- Improved Web UI logout behavior across all authentication approaches, including the option to extend the default logout behavior
- Expansion of the Windows SSO solution to take advantage of the latest LDAP functionality and configuration options
- Separation of login from Smartsheets / Quicksheets and Web UI login
- New SSO testing tool

Expanded descriptions of each change are included below, with additional detailed information available in the STEP SDK documentation.

Details

Authentication Framework Extensions

Previously, using multiple authentication mechanisms on a single system could result in unintended behaviors and was therefore not recommended. The authentication framework has now been improved and extended to support the use of multiple authentication mechanisms, allowing different users to be authenticated against different databases. For example, it is now possible to have some users authenticated using Trusted Headers, while other users on the same system are authenticated using the Windows SSO solution.

Improved Logout Behavior

Previously, users were required to close the browser window to log out when using an SSO solution. The logout behavior has now been updated to log users out and redirect them to the login page. In addition, it is now possible for the logout behavior to be extended to meet unique requirements on each system.

Expanded Windows SSO Solution

The Windows SSO solution has been updated to take advantage of all of the latest LDAP functionality and configuration options introduced in STEP 7.3. These improvements include the ability to utilize multiple LDAP servers for authentication as part of the Windows SSO solution.

Updated Excel Services

Previously, users were unable to implement SSO authentication solutions on systems that also utilized Smartsheets and Quicksheets. The Excel Services have been improved so that Smartsheet and Quicksheet authentication now functions entirely independent of SSO authentications, enabling users to have both SSO authentication and Smartsheet / Quicksheet use in the same system.

New SSO Testing Tool

Previously, testing an SSO solution required system downtime for each configuration to be tested. A new SSO testing tool is now available that can load and verify an SSO configuration without requiring any system downtime. Use of this tool limits system downtime to a single instance (application of the final configuration), rather than requiring downtime for each configuration test.

New Restricted Access to SDK and API Documentation

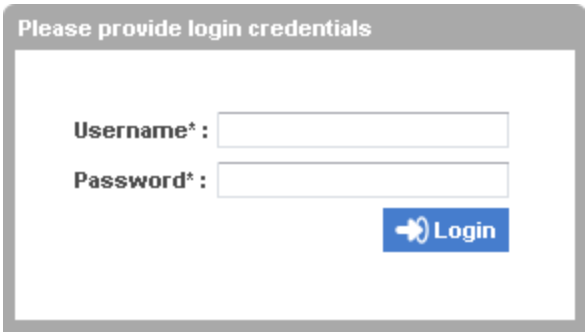
Summary

To provide additional security within the STEP system, users must now log in to access the SDK documentation.

Details

Prior to this release, all users of the STEP system had access to the SDK and API documentation via the [server] /sdk URL and the SDK Documentation link in the STEP online help.

With Trailblazer 7.4, access to the SDK and API documentation is restricted to users with the proper privileges.



To be able to do this, users must be members of a STEP user group that has been granted the View SDK Documentation privilege.

For more information, see the System Setup / STEP Super User documentation.

Considerations and Limitations

- Any user who needs access to the SDK and API documentation must have been created as a STEP user.
- Access control applies specifically to the Script API and Javadoc Documentation. The supporting instructional PDFs accessible via the SDK Documentation node of the online help are still available for all users.

Security Focus Continued

Summary

Stibo Systems continues its ongoing focus on system security and is continuously completing work to enhance the overall security of the STEP system. As part of these efforts, Stibo Systems has achieved a 4 star security rating from Cap Gemini Sogeti.

Details

For more than a year, Stibo Systems has had focus on improving the overall security of the STEP system, with particular attention paid to security of the Web UI. This work has been based on the standards and procedures of the Open Web Application Security Project (OWASP), striving to reach the second level of the Application Security Verification Standard (ASVS). To test the impact and progress of this initiative, Stibo Systems has engaged the renowned testing company Cap Gemini Sogeti in performing a full scale security assessment of the Web UI. The report from Sogeti testifies that STEP does not contain any major security flaws, and STEP has been graded with 4 out of 5 stars. Sogeti has discovered 7 minor issues, all categorized as both low impact and low likelihood. This version of STEP contains all the fixes that have made this possible.

In addition, access to the STEP SDK and API documentation has been restricted only to users granted appropriate privileges in STEP. More information on this change can be found in the 'New Restricted Access to SDK and API Documentation' topic in the Trailblazer 7.4 Release Notes.

New Configuration Management Support

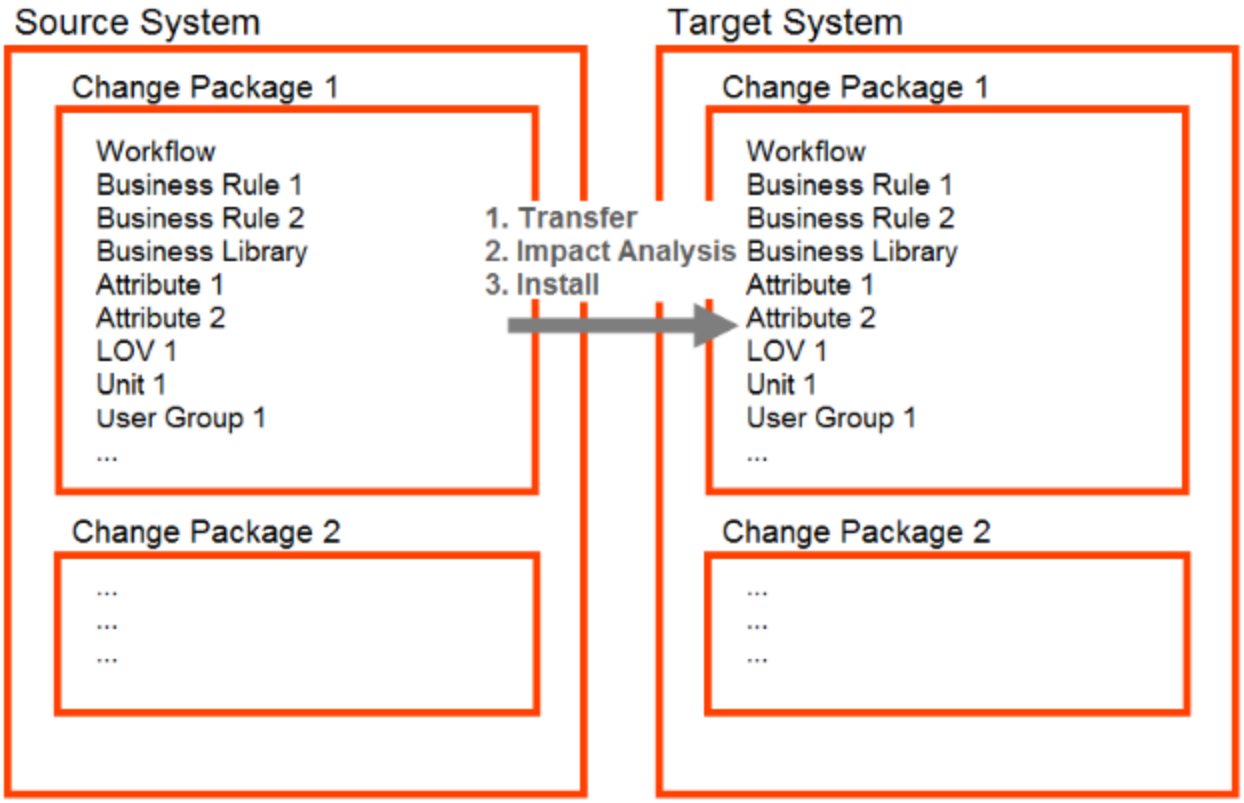
As part of an ongoing effort to better enable configuration management across multiple systems, two new functionalities have been introduced. First, users now have the ability to create and manage configurations using the concept of change packages. Second, users can now export configuration definitions in several key STEP system setup components as readable comments within STEPXML.

Change Packages for Controlled Transfer of Selected Changes

Summary

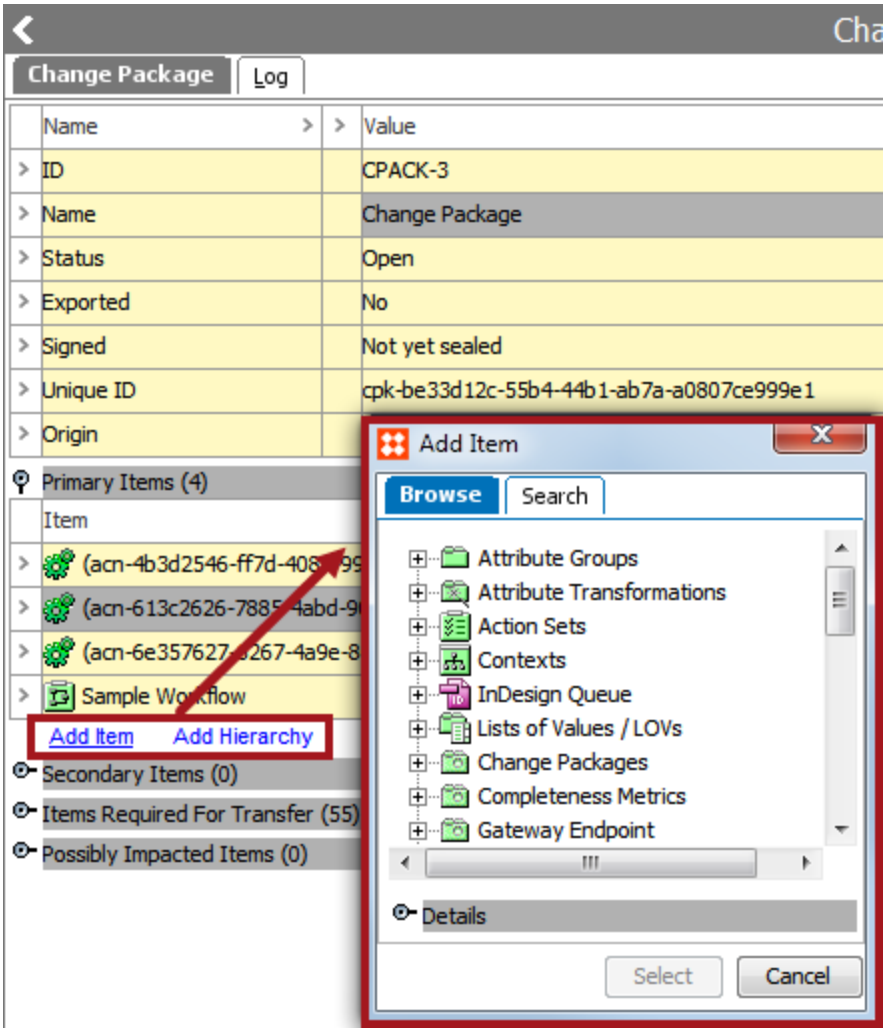
There is now a tool set that enables STEP users to more easily prepare, process, and migrate STEP configuration changes between systems in a larger system landscape. It is designed to:

- Minimize offline tracking of configuration changes
- Lessen the risk for introduction of faulty configuration changes
- Assist system administrators via impact reporting to enable more informed decision making

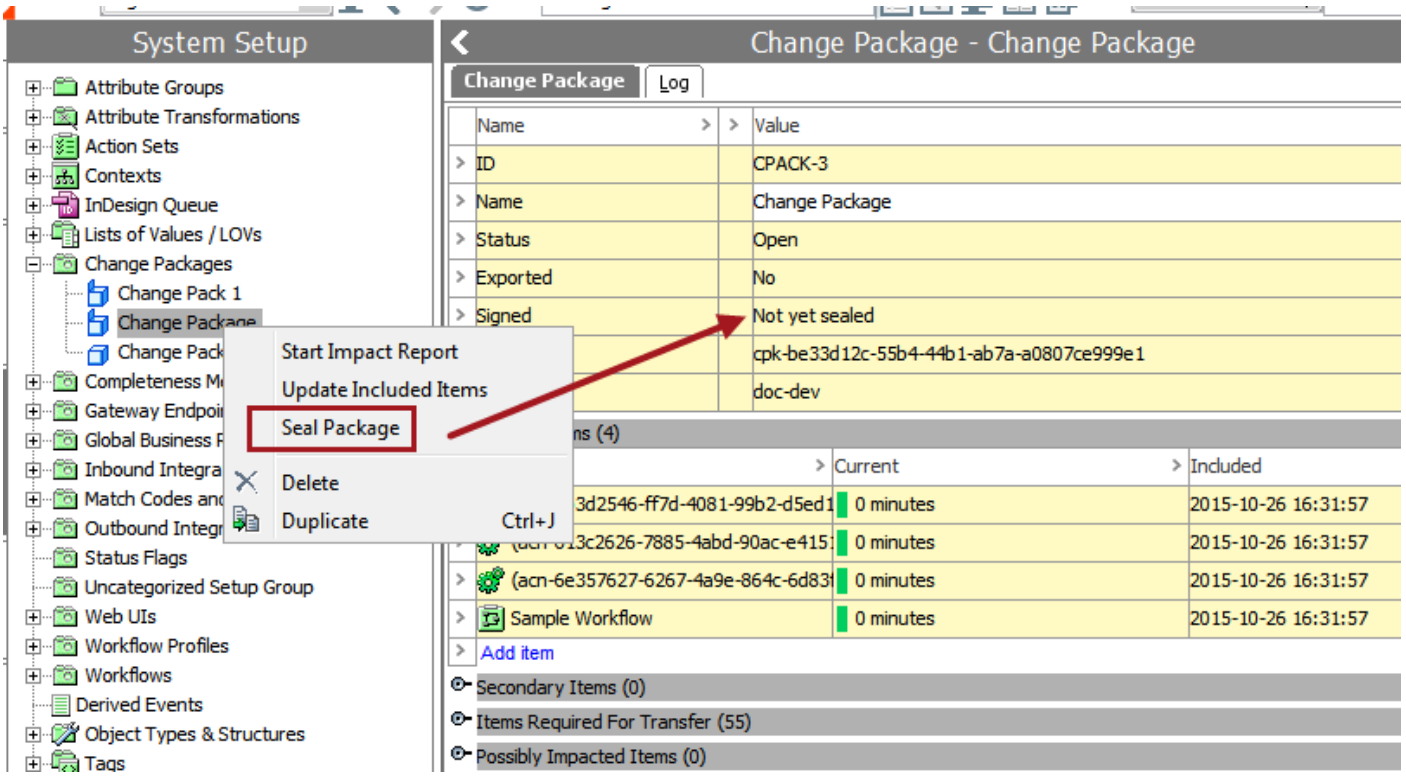


Details

The Change Package concept has been introduced in STEP to group a set of system configurations. Once created, a user may add or remove items from the package until they are satisfied with the contents.



The change package can then be processed, sealed, and exported for loading to another system.

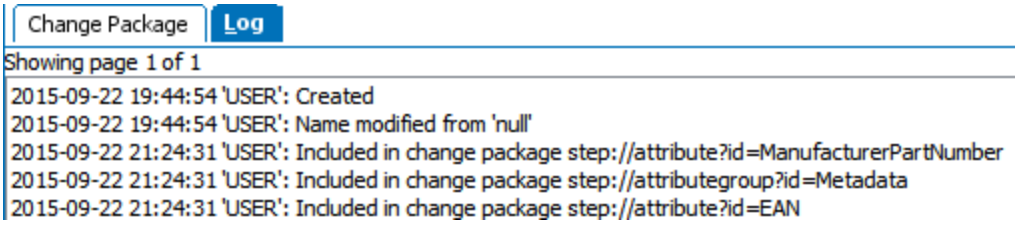


Upon loading of the change package to the target system, an impact report can be run that notifies the user of how successful the change package will be if applied, and identifies areas that may need to be changed prior to installation of the package's contents.

	A	B	C	D	E	F	G	H	I
1	Origin	Message Type	Inclusion Type	URL	Object Type	Object ID	Message	Current Status	Status Time
2	Detection	IdentifiedNewItem	Derived	step://attribute?id=Color%2c+Interior	attribute	Color, Interior	Identified new item	In sync	10/26/2015 16:19

The user may then choose to remove or install the change package. If installed successfully, the configurations contained in the change package will be loaded to the system and will be available for immediate use.

System administrators are able to authorize certain users to work with change packages. This allows administrators to control who does what with change packages. They can also check the change package log to monitor users and the changes made to the package.



This allows administrators to fix problems if they arise, such as faulty system configurations.

See Change Packages in the Configuration Management documentation for more information.

Considerations and Limitations

- It is important to note that the transfer of change packages between systems is based on STEP's export and import capabilities with the known limitations that these capabilities have. For instance, not all system setup objects can be transferred via export and import STEPXML. In these cases, the change package and its impact report tries to assist administrators with relevant information to make informed decisions before transferring a package to a target system.
- Deletion of system configurations on import is not supported. Import of change packages supports configuration additions and modifications only.
- Data, such as products, classifications, assets, and entities, are not included in the export and import of system configurations.
- The format used for the transfer of change packages is not to be considered an API and may change in future releases of STEP. It is not recommended to use the change package exports for any purpose outside of the transfer of the STEP change package functionality.
- In order to use change packages, the user must be part of a user group that has an unrestricted setup action set applied (e.g. has a Setup Privilege defined that includes **all** setup actions, including the 'Maintain change package' action).

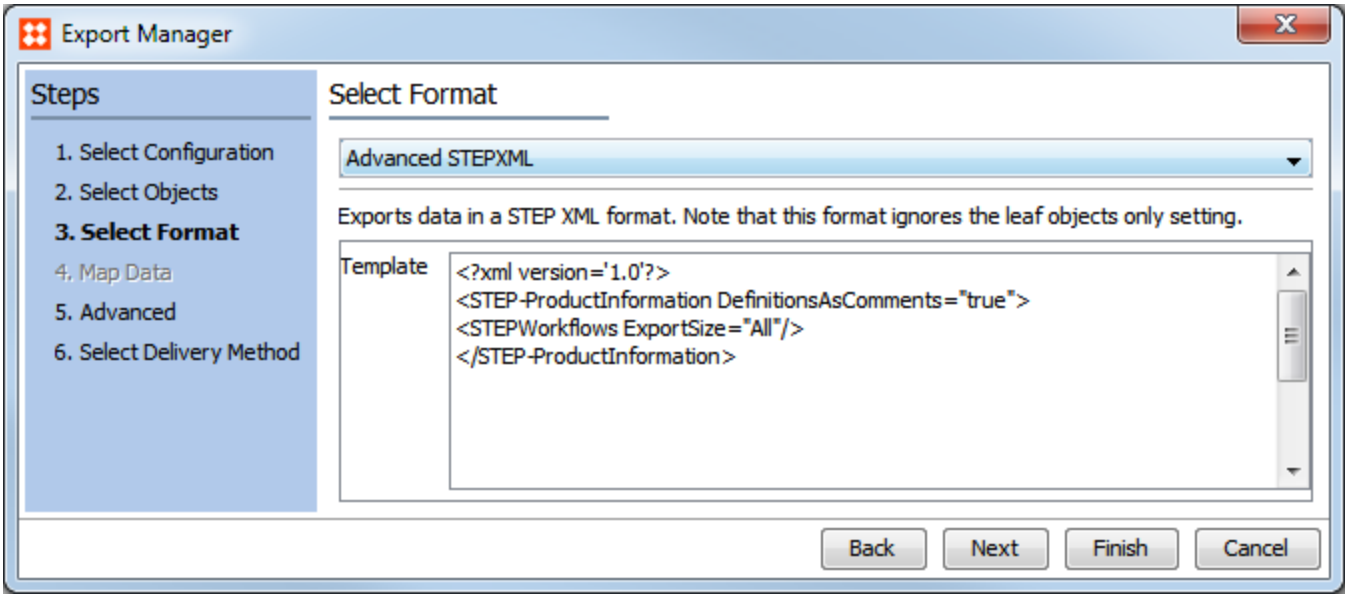
Export Definitions as Comments

Summary

Trailblazer 7.3 introduced the ability to export JavaScript business rule definitions as comments using Advanced STEPXML. With Trailblazer 7.4, this functionality has been further expanded to support export of Workflow, Web UI, Integration Endpoint (IEP), and non-JavaScript Business Rule definitions. This enables users to submit the output for comparison in external source control systems.

Details

Workflow, Web UI, IEP, and Business Rule, (including conditions, actions, and libraries) definitions can all be exported using Advanced STEPXML and the DefinitionsAsComments tag:



Setting DefinitionsAsComments to 'true' yields an output that includes the component definition within a comment tag, directly following the ID tag of the element. For example:

```
<STEPWorkflows>
  <STEPWorkflow ID="Workflow1">
   <!-- Definition: Workflow definition comment
   [Definition goes here. Removed for brevity]-->
   <SetupGroupLink SetupGroupID="Workflows"/>
   <Name>Workflow 1</Name>
   <ValidUserTypeLink UserTypeID="Product"/>
   <Configuration>H4sIAAAAAAAAALVVy27bMBC8F+g/g/sL
   zLkl+xHUgGgjyAAHkhSdNDUQS0tJbZSKRAUpbdr++Skh3
```

See the Export Configuration Definitions as Comments section of the Configuration Management documentation for more information.

Considerations and Limitations

- Import of component definition comments is not supported (e.g., export, editing, and re-import is not possible).
- The content of the commented definition is not part of the STEPXML XSD. As such, Stibo Systems reserves the right to change the output format at any time.

Enhanced Customer MDM Functionality in Web UI

Summary

A number of Web UI enhancements and new features have been added that, while available for use with any data type, have specific benefits for those working with Customer MDM data. Each is briefly listed below, with additional details available throughout the Trailblazer 7.4 Release Notes.

Details

Enhanced Deduplication Capabilities

Identify and match potential duplicates in the Web UI in the same manner as the simple matching functionality available on the Matching tab of an object that has been matched in the STEP Workbench. This allows users to easily compare potential duplicates and confirm or reject them.

See the 'Enhanced Deduplication Capabilities in Web UI' section of the Trailblazer 7.4 Release Notes for more information.

Enhanced Address Handling

- Separate street number and street name in addresses to increase consistency and ease deduplication.
- Display address formats according to country (e.g. set street number before or after street according to the conventions of the country in which the address exists).
- Configure a single parent object for all new Address objects to be created under. Previously address objects created using the Address Detail component were automatically created as children to the selected object (typically a Customer or Supplier).

See the 'Enhanced Address handling in Web UI' section of the Trailblazer 7.4 Release Notes for more information.

Enhanced Multi-Reference Editor Functionality

- Visual identification of objects that are referenced by multiple objects to prevent users from unintended data changes.
- Create references and target objects within a single interface. This eliminates the need to navigate away from the selected object in order to build a reference to a new object. In addition, creation of new product and entity objects can be streamlined by selecting an existing object to be used as a template to create the new object.

See the 'Enhanced Multi-Reference Editor Functionality in Web UI' section of the Trailblazer 7.4 Release Notes for more information.

Enhanced Multi-Object Display Options

Users now have the ability to maintain two objects in a single screen when a 1-1 reference is used by allowing in-line editing of attributes on a referenced object. This provides a simpler interface to the end user who does not need awareness that the underlying data model utilizes independent objects.

See the 'Enhanced Multi-Object Display Options in Web UI' section of the Trailblazer 7.4 Release Notes for more information.

New Option to Create and Initiate Objects in a Single Step

When creating new objects that utilize an auto-generated ID, users can now create and initiate objects into a workflow in a single step. This allows for more streamlined object creation by giving the option to bypass the Item Initiate screen.

See the 'New Option to Create and Initiate Objects in a Single Step in Web UI' section of the Trailblazer 7.4 Release Notes for more information.

Data Quality Enhancements

Summary

This release provides a number of data quality enhancements that improve Data Profiling and Completeness features.

It is now possible to do the following:

- Use a business condition to exclude data for specific objects from profile configurations
- Select multiple contexts and workspaces when scheduling profiling
- Use a collection to define the set of objects that profiling is scheduled for
- Copy and reuse profile configurations
- Apply multiple completeness metrics
- Import/export completeness score values (weights) that can be stored in a standard attribute

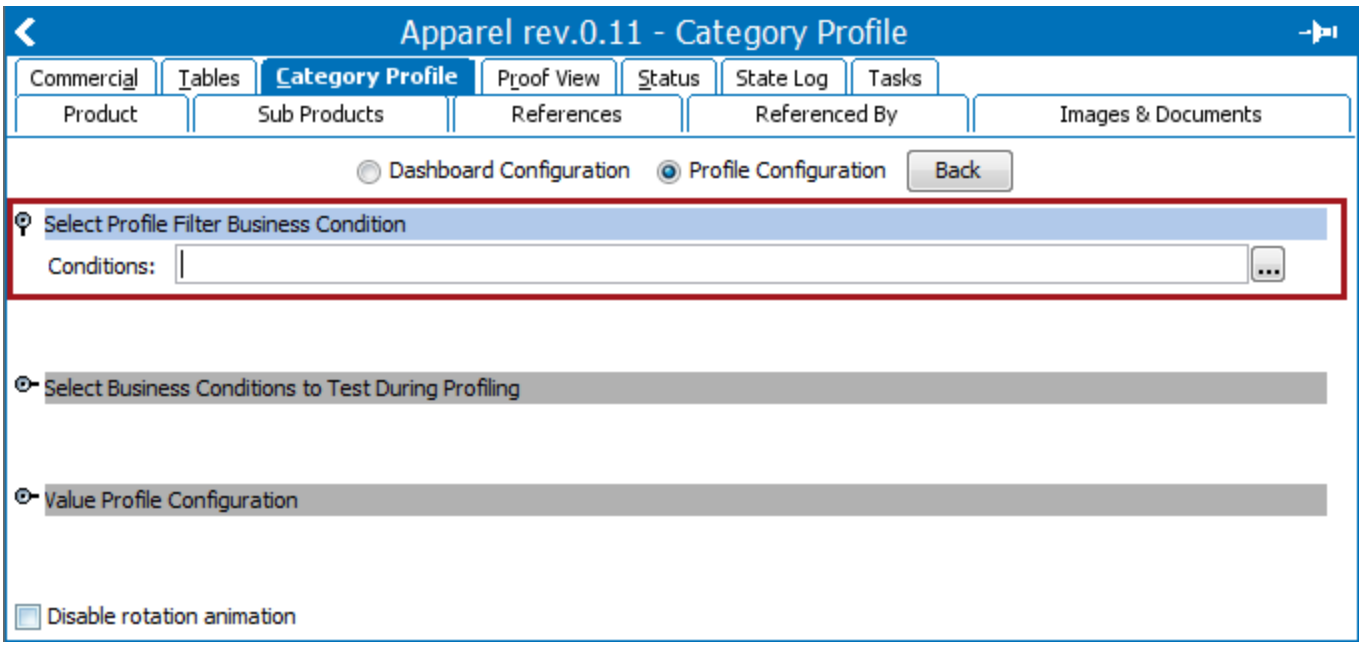
Details

Filter Objects for Profiling Using a Business Condition

It is now possible to exclude specific data from profile configurations based on, for example, object types, categories, or attribute values. Common use cases for this include applying the profile only to selected object types in a hierarchy of mixed types such as categories, families, and items; excluding discontinued products; and excluding products that do not meet specific attribute conditions, such as Available for Sale Date > today.

To achieve this, a business condition must be created that contains logic that determines whether data for objects below the selected profiling node are to be included in the profile.

The user selects the business condition on the Profile Configuration where a new area named Select Profile Filter Business Condition has been added.



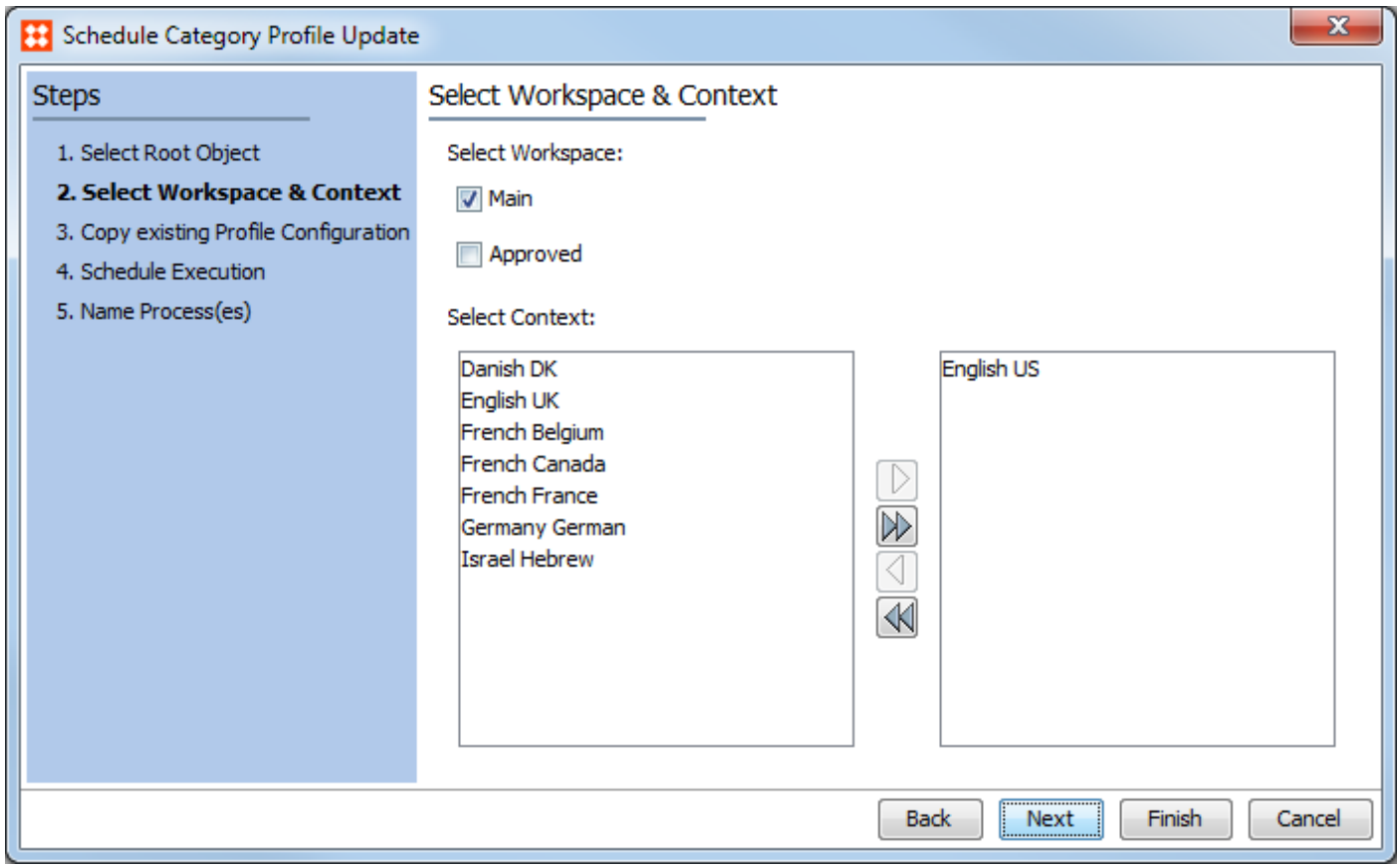
A collection is generated during profiling, and this collection is used as a search below filter for searches performed from the Global Dashboard, the Value Details view, and from the Web UI components Object Type Count Dashboard and Attribute Values Dashboard.

On the dashboard widget Object Count and the Web UI component Object Count Dashboard, the user can see how many objects were filtered out by the condition.

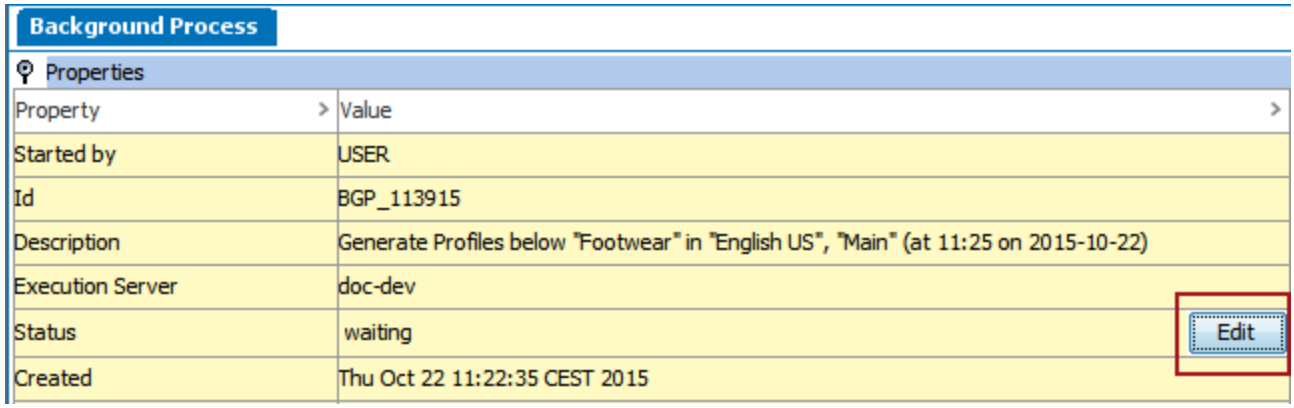
For more information about filtering objects for profiling, see Filtering Objects for Profiling in the Data Quality documentation.

Improved Profile Scheduling

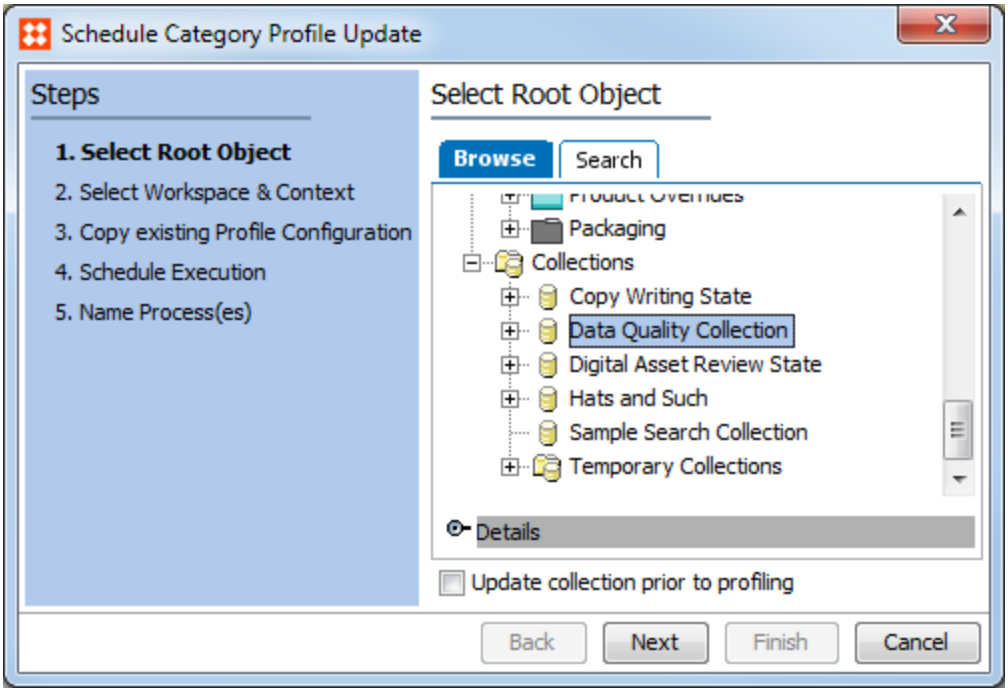
It is now possible to select multiple contexts and workspaces in the Schedule Category Profile Update wizard, where a new step named Select Workspace and Context has been added. As a result, it is no longer necessary to maintain a scheduled process per context / workspace combination.



It is now also possible to open and edit the Schedule Category Profile Update wizard from the Background Process tab. On the Background Process tab, in the Status property Value field, an Edit button has been added. When the user clicks the Edit button, the wizard opens.



In the Schedule Category Profile Update wizard, it is now possible to select a collection as the root for the scheduling. When a scheduled process with a collection root selection is executed, profiles are generated or updated for all objects in the collection for which profiling is enabled. Search-based collections can be refreshed automatically as part of the processing.



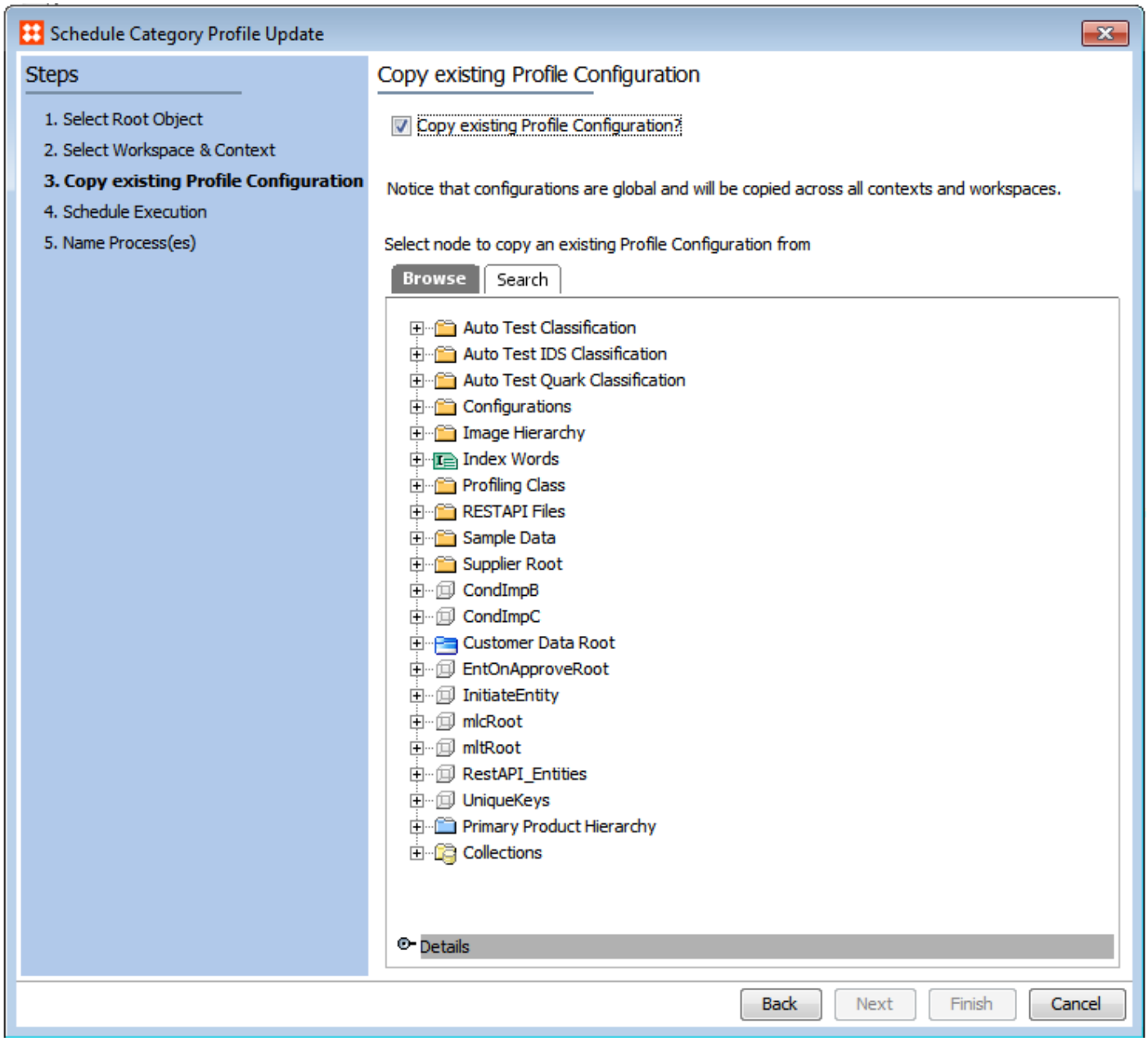
For more information about scheduling profiling, see Scheduling Category Profiling in the Data Quality documentation.

Copy Profile Configurations

It is now possible to use a profile configuration from one object for all generated or updated profiles, when scheduling profile configurations using the Schedule Category Profile Update wizard. This is useful, for example, for users that need to profile many categories and want to reuse configurations between them.

A new option to Copy existing Profile Configuration has been added to the wizard. The user selects the object that the configuration is to be copied from, and when the scheduled process is executed, the configuration is copied from this object to each of the objects for which profiles are generated or updated.

The step is optional and the user can clear the Copy selection if not relevant.

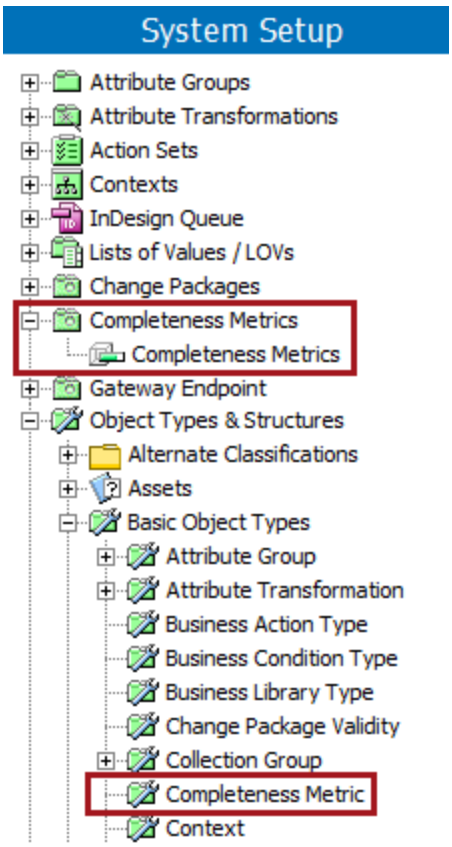


For more information about copying profiles, see Scheduling Category Profiles in the Data Quality documentation.

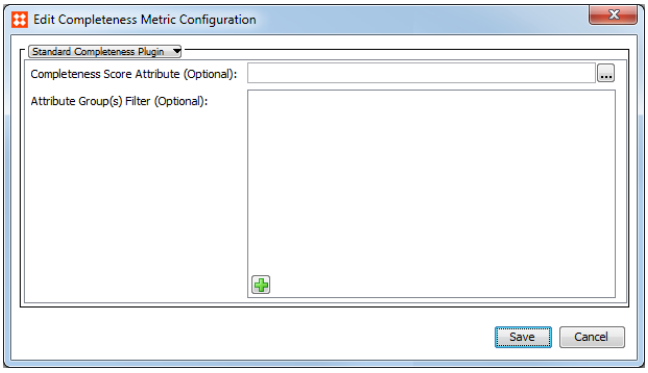
Assess Completeness Against Multiple Metrics

Previously, a single completeness metric and a single set of completeness scores (weights) applied across the system. Now, it is possible to configure multiple different completeness metrics, allowing users to work with, for example, the creation of multiple channel specific completeness measures.

Completeness metrics are configured using a new Completeness Metric object type that is instantiated from Setup Groups in System Setup.



In the Edit Completeness Metric Configuration editor, the user can specify which completeness plugin to use. A single Standard Completeness metric is provided. This plugin can be used to configure a completeness metric that functions like the pre-7.4 functionality but offers additional flexibility. The parameters of the plugin let the user select zero or one attribute that holds completeness scores (weight) values and zero or more attribute groups.



The possible selections are described in the following table:

Selection	Description
No attribute or attribute groups is selected	All data objects (attributes and references) are part of the completeness calculation, and they have an equal score.

Selection	Description
An attribute is selected	Pre-7.4 functionality but with a user defined attribute.
One or more attribute groups are selected	All data objects in the selected attribute group(s) have an equal score.
An attribute and one or more attribute groups are selected	Pre-7.4 functionality filtered by attribute group(s) so that the completeness is based solely on scores for the data objects in the selected groups.

In the Completeness Metric editor it is possible to set the selected metric as the default metric. The completeness meter shown in the Workbench product and entity editor tabs display the value from the default completeness metric.

In the Web UI, a new parameter has been added to the Completeness Meter component that enables the user to select the preferred completeness metric. The parameter is optional. If no specific completeness metric is selected, the default metric is used.

The user can configure a Category Profile dashboard so that it contains widgets that show the completeness of the different metrics.

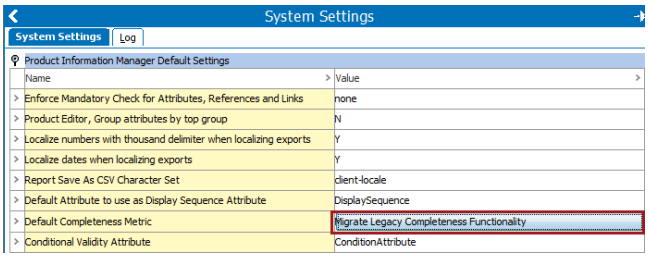
For more information about completeness metrics, see Creating and Editing Completeness Metrics in the Data Quality documentation.

Completeness Score Migration Option

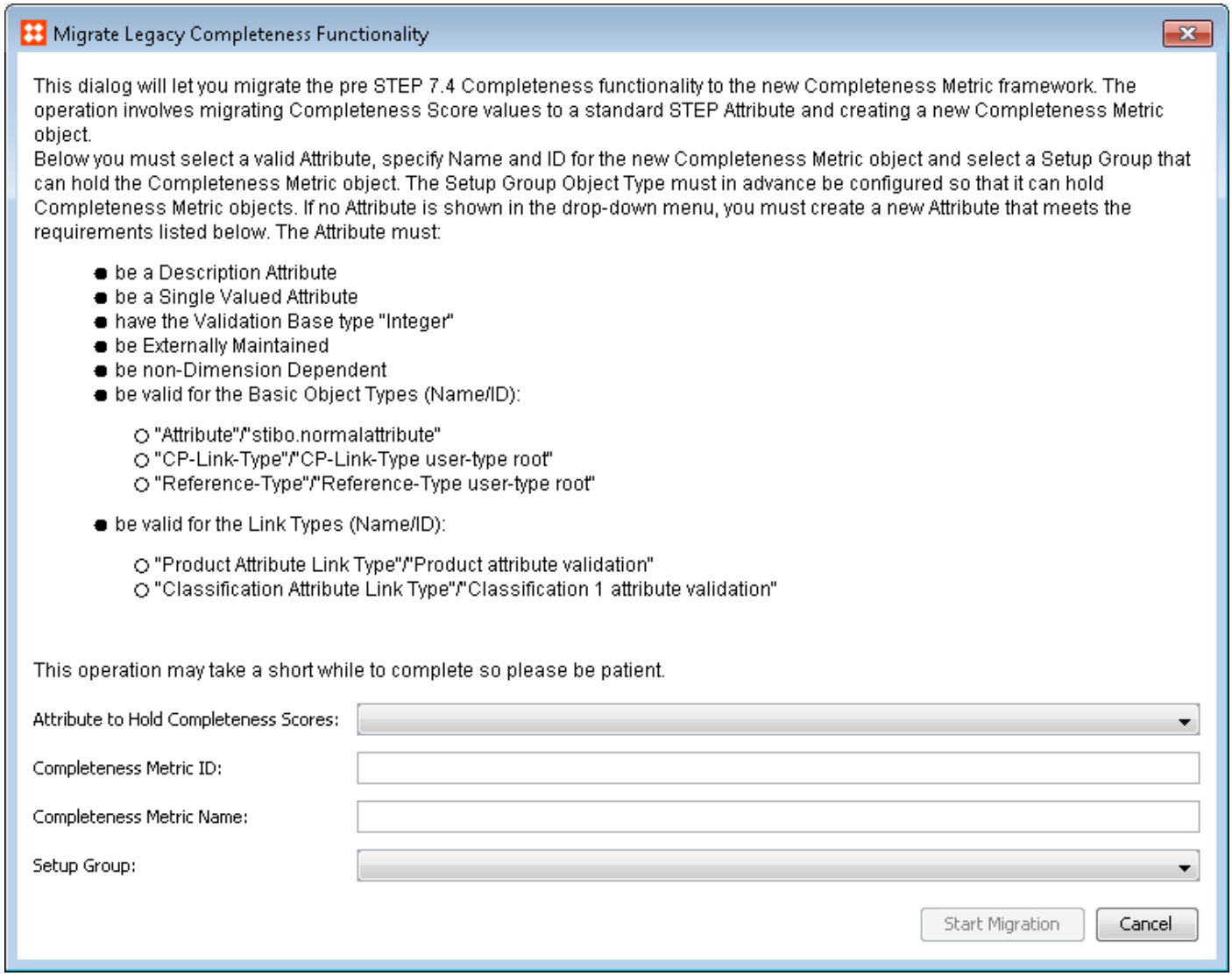
Previously, completeness scores were stored in a special system attribute. As a result, values stored on product-to-attribute links and classification-to-attribute links could not be represented in STEPXML, and it was therefore not possible to easily move completeness score setups between environments.

With this release, it is now possible to store completeness scores in a standard Description attribute, which allows users to easily move a setup between systems using STEPXML. To assist users in making this change, functionality has been added that enables users to migrate values from the hidden attribute to a standard Description attribute.

The migration is performed from the Product Information Manager Default Settings area of the Users & Groups node, under System Settings.



When the user clicks the Migrate Legacy Completeness Score button, a dialog describing the required attribute is displayed. If there is no attribute available in the menu, the user must create an attribute that meets the specified requirements before it is possible to perform the migration.



The migration is not performed as a background process, so the dialog stays open until the migration has completed. The migration is a one-time process and the Migrate Legacy Completeness Score button will not be available after it has been completed.

For more information about migrating completeness scores, see Migrating Completeness Scores in the Data Quality documentation.

Considerations and Limitations

- When a profile configuration is copied, the copy of the configuration is not updated automatically if the original configuration changes.

- It is possible to create new completeness metrics even if existing completeness score values are not migrated to a standard Description attribute. However, in this case, it is not possible to import or export completeness score values on attribute links, and it is not possible to specify a default completeness metric.
- It is not possible to configure user or user group specific completeness metrics.
- For more information on the Data Quality features available in STEP, see the Data Quality documentation.

New ISO Date Localization and Transformation

Summary

It is recommended that users store date information in STEP using ISO attributes so that they can fully take advantage of search and compare features in STEP, as well as to maintain consistency in information across multiple regions. However, many users prefer to view and interact with dates in a more familiar format. In order to support this, ISO Date and ISO Date and Time attributes can now be localized within the Web UI for display purposes, and within the STEP Workbench for import and export purposes.

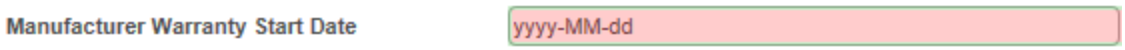
Details

ISO Date Localization in Web UI

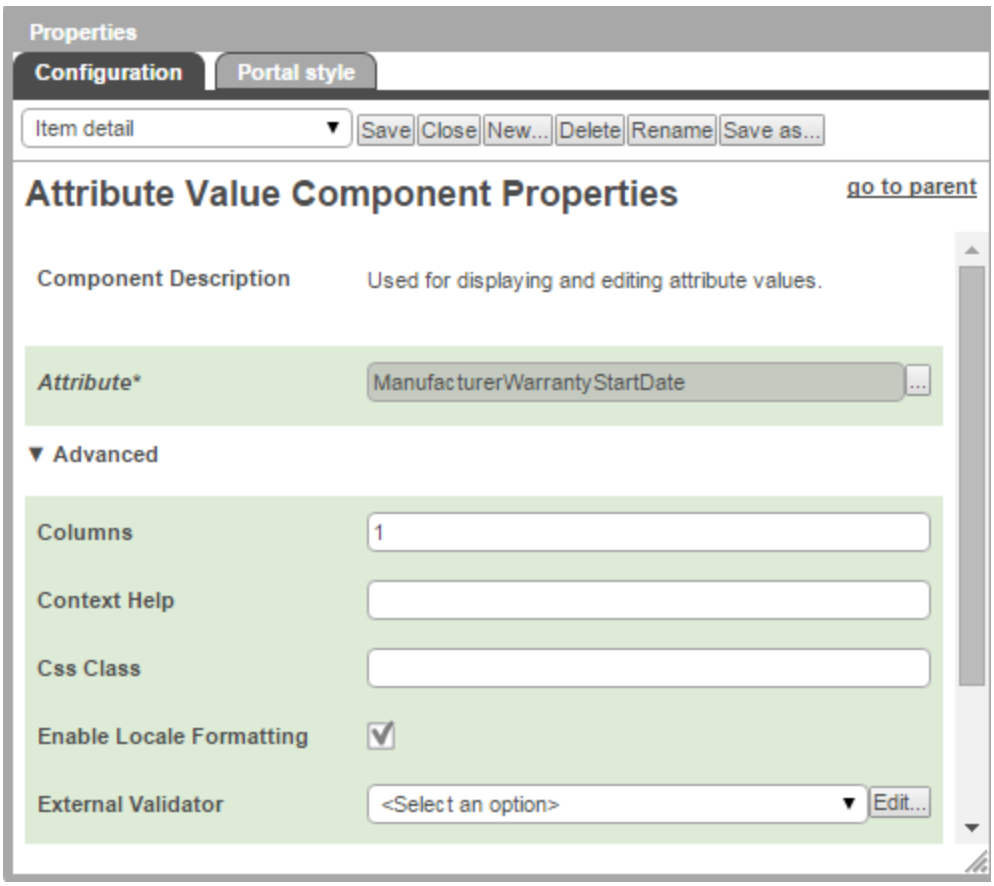
Attributes with ISO Date and ISO Date and Time validation types can be configured to display in a localized format when set up to display using an Attribute Value, Parent Value, or Attribute Value Group Component within a Node List or Node Editor (as applicable).

On each component properties screen, Enable Locale Formatting (under the Advanced parameter grouping) needs to be selected. The ISO date attribute values will then be displayed in the manner defined by the locale selection made during login.

As an example, consider an attribute with an ISO Date Validation Base Type prior to localization as shown in Web UI Designer mode:



Under the Advanced parameter grouping, the properties screen is configured to localize the selected attribute.



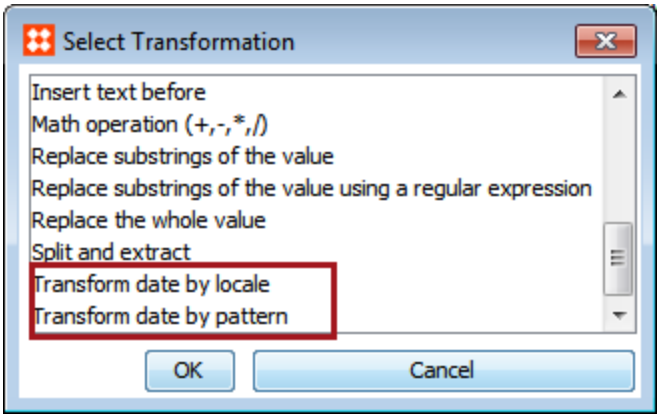
When a user is logged into the Web UI within the English / US locale, the populated attribute displays per the locale date format, rather than displaying the entered ISO Date:

For more information, see the 'Localizable Dates in Web UI' section of the Web User Interfaces documentation.

Date Transformation During Export / Import in Workbench

Attributes with a Validation Base Type of Date, ISO Date, and ISO Date and Time can be transformed during the Workbench import and export processes. The two new transformation options are:

- Transform date by locale
- Transform date by pattern



During the Export Manager process, users can transform each of the date attributes from date to locale (set by Workbench context) or from date to a pattern (e.g., yyyy-MM-dd and yyyy.MM.dd HH:mm:ss). When using 'Transform date by locale,' STEP will automatically use the default format for the given locale. If a specific date representation is required, the 'Transform date by pattern' selection offers full flexibility of the format.

Similarly, during the Import Manager process, locale dates and patterned dates can be transformed to Date, ISO Date, or ISO Date and Time, depending on the Validation Base Type for the attribute being mapped to.

Details about available Attribute Transformations can also be found in the System Setup / STEP Super User documentation.

Considerations and Limitations

- Date localization and transformation works only on attributes with these validation base types: Date (DD-MON-YYYY), ISO Date (YYYY-MM-DD), and ISO Date and Time (YYYY-MM-DD HH24:MI:SS).
- The steps for transforming ISO Date values during import and export must be followed carefully or the process may fail. Step-by-step instructions can be found in the Attributes section of the System Setup / STEP Super User documentation.
- Web UI ISO Date display settings are configured per component and display mode, meaning that they must be individually set in each instance where the localized display is desired.
- For information regarding converting existing attributes from Date to ISO Date validation type, see the 'Converting Attributes from Date to ISO Date' section of the System Setup / STEP Super User documentation.

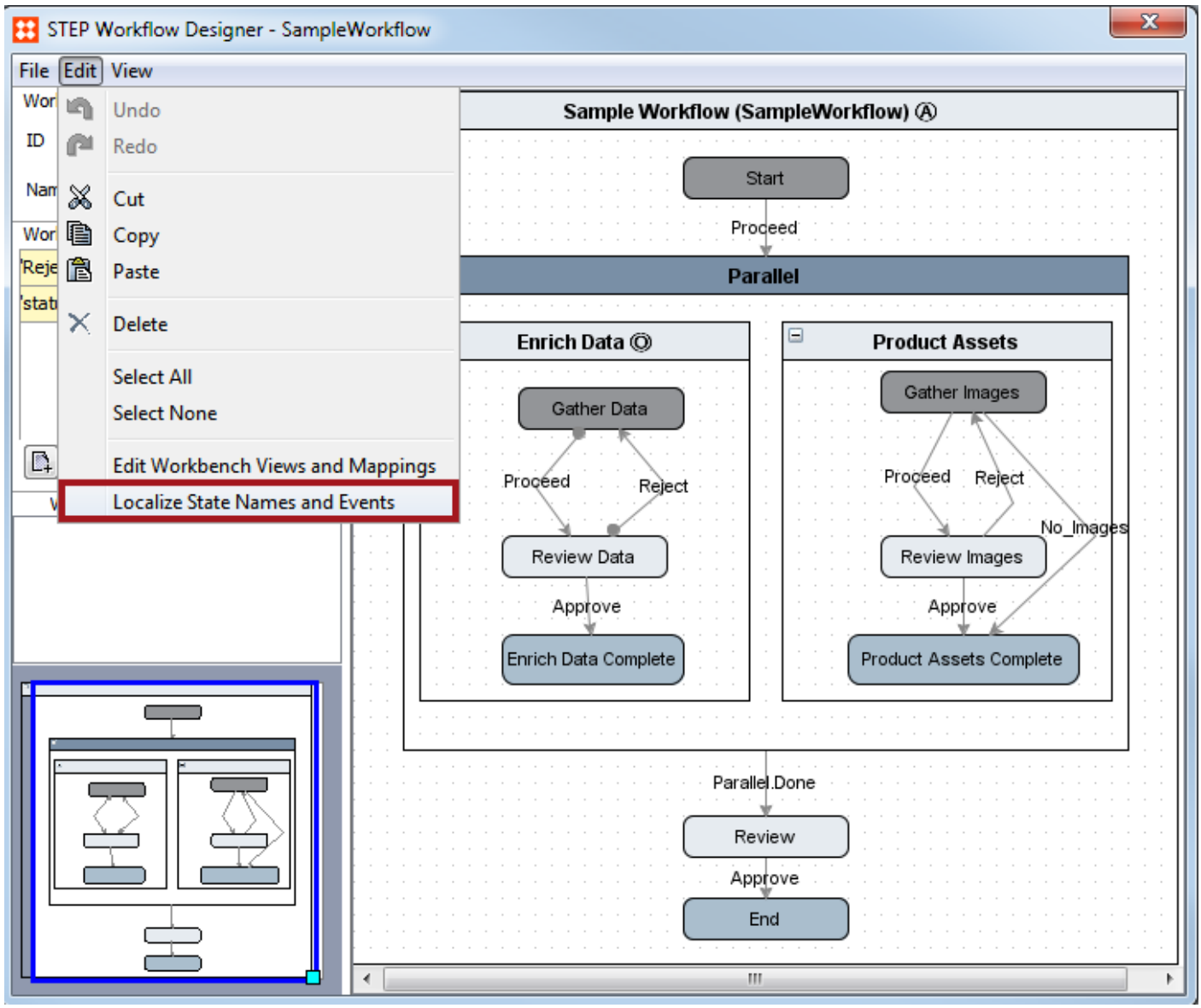
New Localization of Workflow State Names and Events

Summary

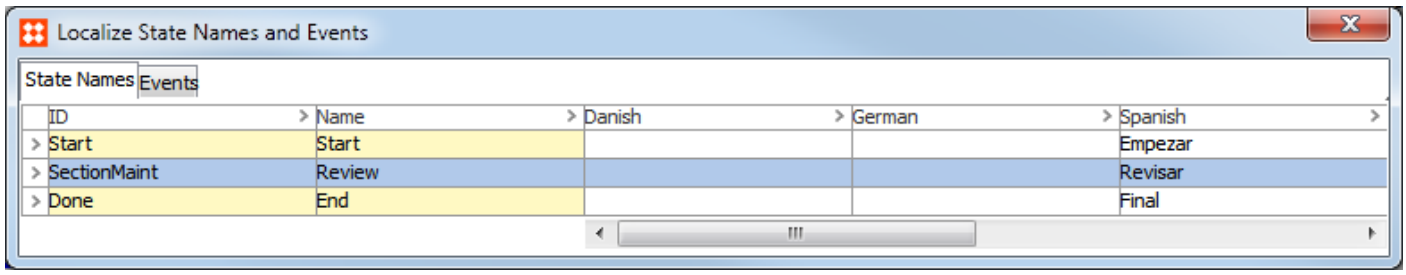
Previously users had to create multiple versions of a workflow if they wished to display localized names of states or events within the workflow. With the new functionality, STEP users can create a single workflow that includes localized workflow state names and events, thus eliminating the need to maintain multiple instances of the same workflows for localization purposes.

Details

The Edit menu within the STEP Workbench Workflow Designer now includes an option to localize workflow state names and events.



When the Localize State Names and Events menu option is selected, a dialog containing two tabs, each for State Names and Events, will pop up. This lists the workflow states and events that have been created, as well as columns for each of the available languages on the system. Users can type directly in the dialog to specify the localized state name and event. Note that available languages are determined by the available Web UI locales and the translated STEP Workbench instances.



If no localized text is provided for a field, the system will continue to display the default state name in the workflow configuration. Additionally when State Name is empty, it will use the State ID. If localized values are provided, they will be reflected in the corresponding Web UI locale and/or translated STEP Workbench instances. Events will use the Event ID when no localized text is provided.

See the Configuring Workflow State Name and Events Translation section of the STEP Workflows documentation for more information.

Considerations and Limitations

- Following Trailblazer 7.4, existing workflows will contain the Localize State Names and Events dialog. When opening the dialog on an existing workflow, the list of available languages will be shown. State names and events will be empty until populated with translations by the user.
- State names and events cannot be exported for translation, but must be translated in the UI as shown.
- The workflow itself can have a name, however the workflow, being an object can be made Language dependent. Note that this makes it dependent on the selected context, not the selected locale, as is the case for state names and events.
- When an imported workflow contains fewer locales than the target system, translations on the target system that are existing will be deleted, since the imported workflow definition will be seen as the governing workflow.

Enhanced Handling of Mandatory Workflow Attributes

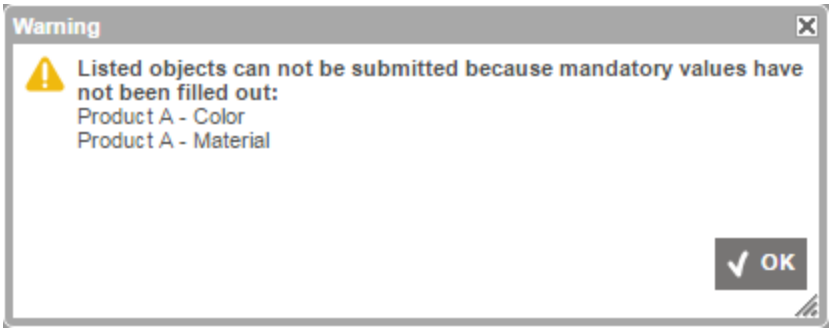
Summary

When working with objects in a workflow that includes mandatory attribute configurations, all missing mandatory attributes are now reported with each validation. This allows for a more streamlined work experience as users can view and correct all errors before resubmission, rather than having to revalidate after each correction.

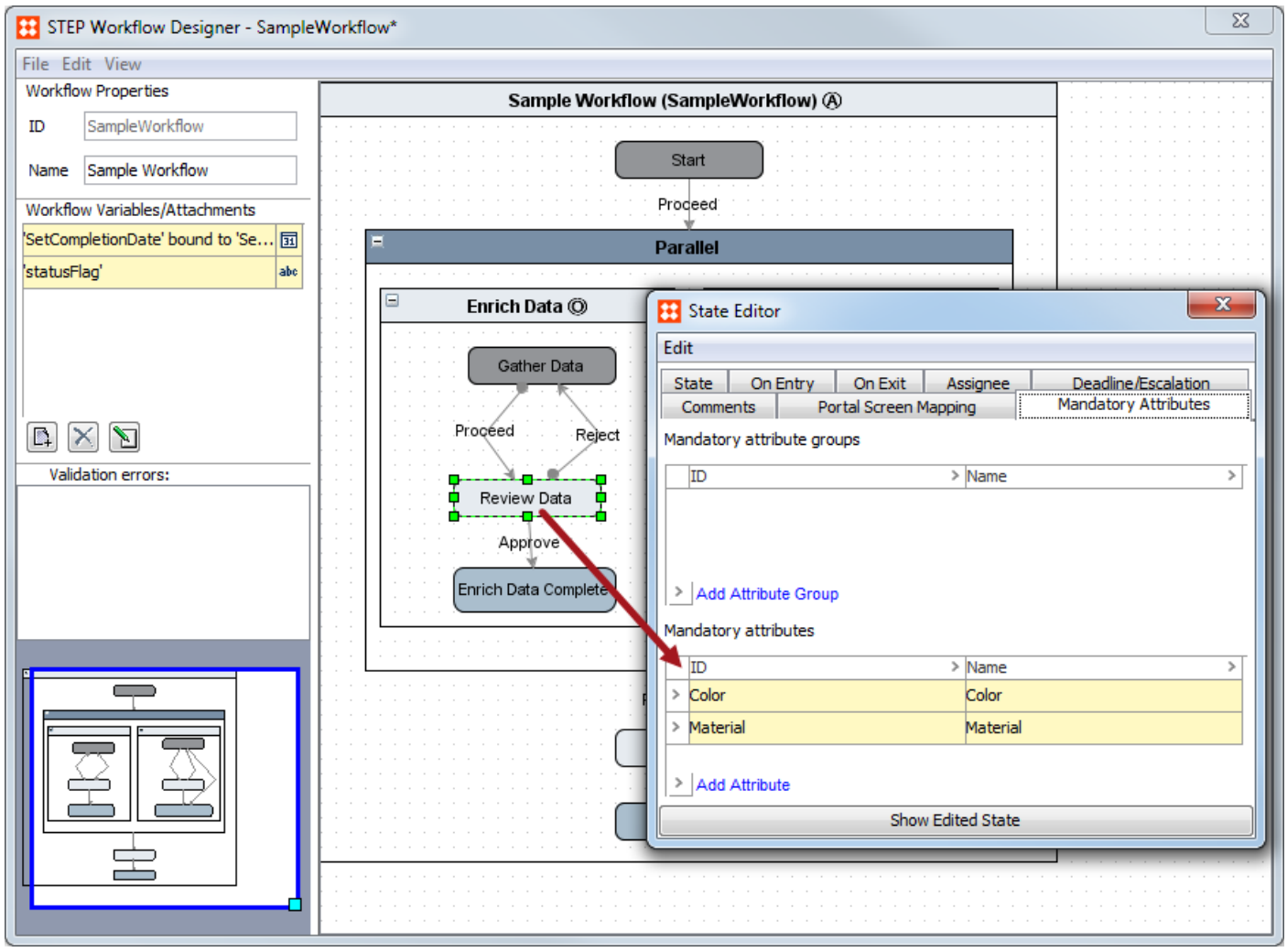
In addition, users will now have the option to identify workflow events for which mandatory attributes should *not* be evaluated. This allows users to easily enforce that mandatory attributes be populated for all events except, for example, Reject events.

Details

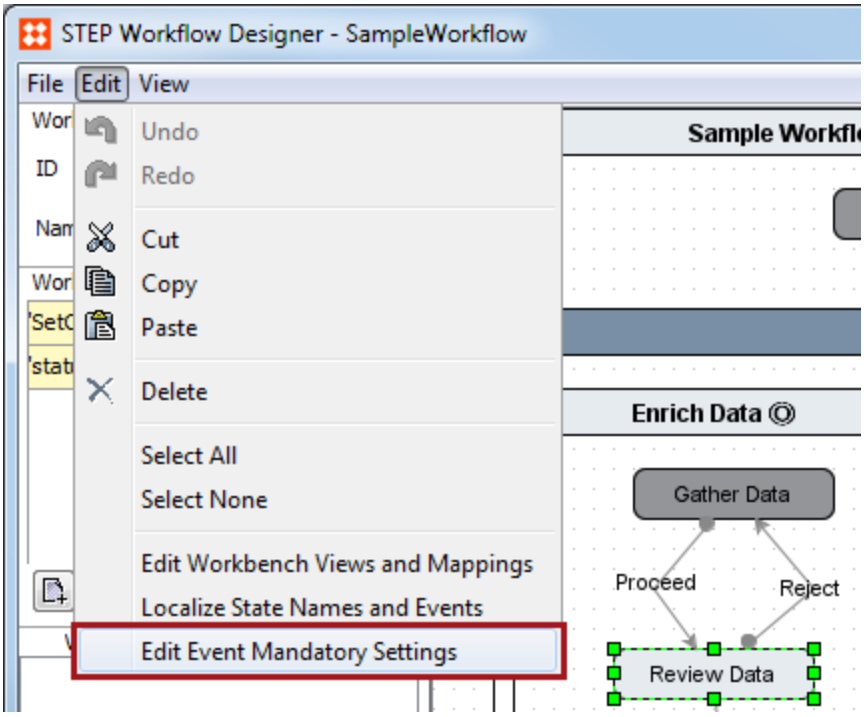
When submitting an object to the next state in a workflow, if any workflow mandatory attributes are not populated, a warning will appear listing all missing values. Previously, the system would only report the first missing value it detected, forcing users to validate and resubmit the object.

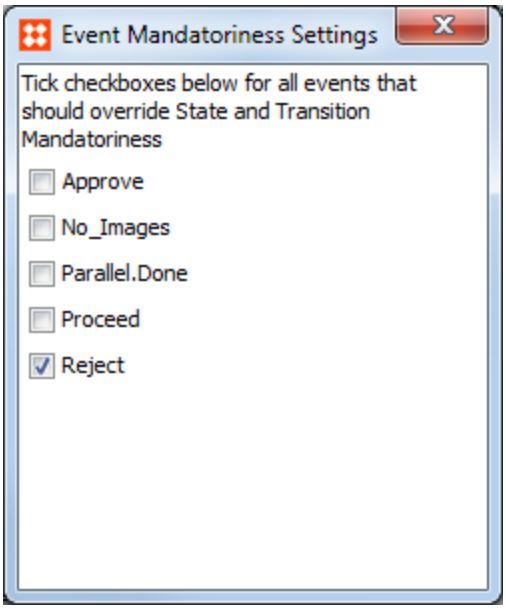


Only mandatory attributes defined on states and transitions in the workflow definition are reported on in this manner.



After setting mandatory attributes on a state, transition, or on a Web UI screen, specific events can be identified for which the population of the attributes should not be enforced. To ignore mandatory attributes on specific events, navigate to Edit on the workflow taskbar and select Edit Event Mandatory Settings. In the pop-up window, click the check boxes of the events that should ignore mandatory attributes.





In the above example, Color and Material are set as mandatory attributes on the Review Data state. If the user does not populate these values on a given product and attempts to submit from the state via any transition (Reject or Approve), the object would not be able to proceed through the workflow until the missing values were provided. However, if the Reject event is set to ignore mandatory attributes, the user may return to the previous state in the workflow even if Color and Material have missing values.

While this functionality could already be achieved by setting mandatory attributes on the transitions themselves, the Web UI only provides a visual indicator (asterisk) on mandatory attributes that are set in workflow states. This change allows users to see the visual indicator for mandatory attributes required for forward progression, while also being able to disregard these requirements for rejections.

See the 'Workflow State and Transition Mandatory Attributes' section within the 'STEP Workflows' documentation for more information.

Considerations and Limitations

- State and transition mandatory attributes are evaluated independently, meaning that users will experience two error reports in the case that both state and transition mandatory attribute validations fail.
- Mandatory attribute enforcement by event names is global, not by state or transition. As event names are not required to be unique in STEP, setting a particular event to disregard mandatory attribute requirements will apply to all events with that name. This allows for easy setup in the case that a particular event should always ignore mandatory attribute settings (e.g., never enforce on Reject events from any state).

Enhanced Key Functionality

Summary

Several enhancements have been made to improve Key functionality across STEP systems.

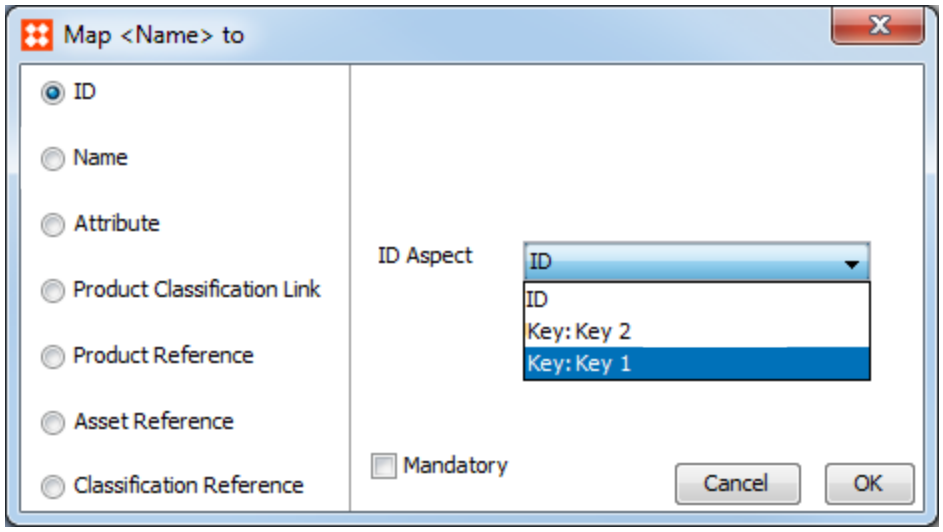
These new features include options to:

- Directly map keys in Import Manager / Inbound Integration Endpoints (IIEP) and Export Manager / Outbound Integration Endpoints (OIEP)
- Identify and delete objects, parents, referenced objects, and assets using keys
- Use keys to identify objects in Web UI Simple Import and Export
- Edit and display key values in Web UI
- Identify classifications, entities, and assets using keys in REST API and SOAP API
- Use keys in the database mode for Import Manager

Details

Mapping Keys in Import Manager and Inbound Integration Endpoints

STEP Workbench Import Manager and IIEP can now identify existing objects by explicitly mapping a field in the input file to a key. Previously, keys could only be mapped by including all attributes that make up the key and by omitting mapping of the STEP ID.

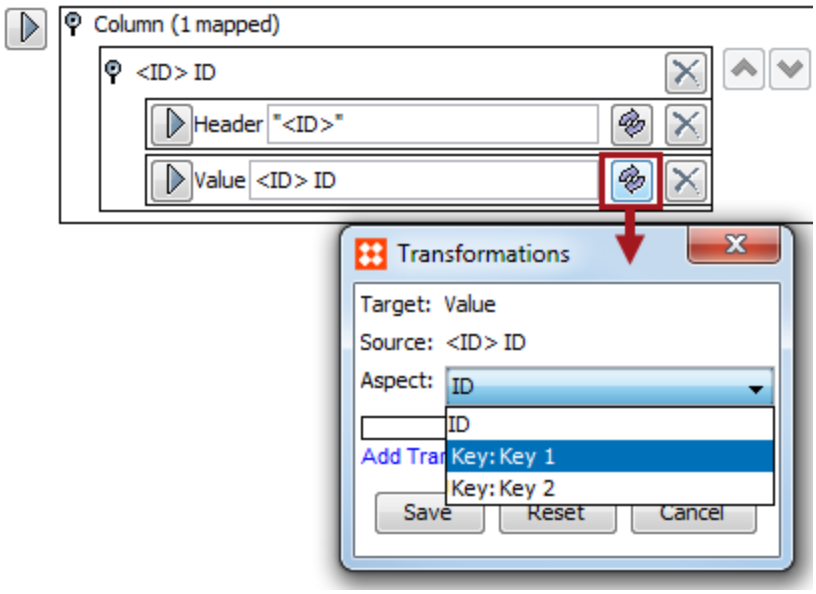


This functionality can be used to identify direct objects, parents, referenced objects, and assets.

See the 'Map Data' section within the 'Importing Data and Images / Import Manager' documentation for more information.

Mapping Keys in Export Manager and Outbound Integration Endpoints

Previously, Export Manager and OIEP could only export key values into STEPXML format. This functionality now supports non-STEPXML formats as well. To accomplish this, the Aspect transformation, available as part of format mapping, has been expanded to include keys.



This functionality can be used to identify objects, parents, referenced objects, and assets.

Previously, key values could only be exported in STEPXML format. See the 'Map Data Options' section within the 'Exporting Data and Images / Export Manager' documentation for more information.

STEPXML Enhancements

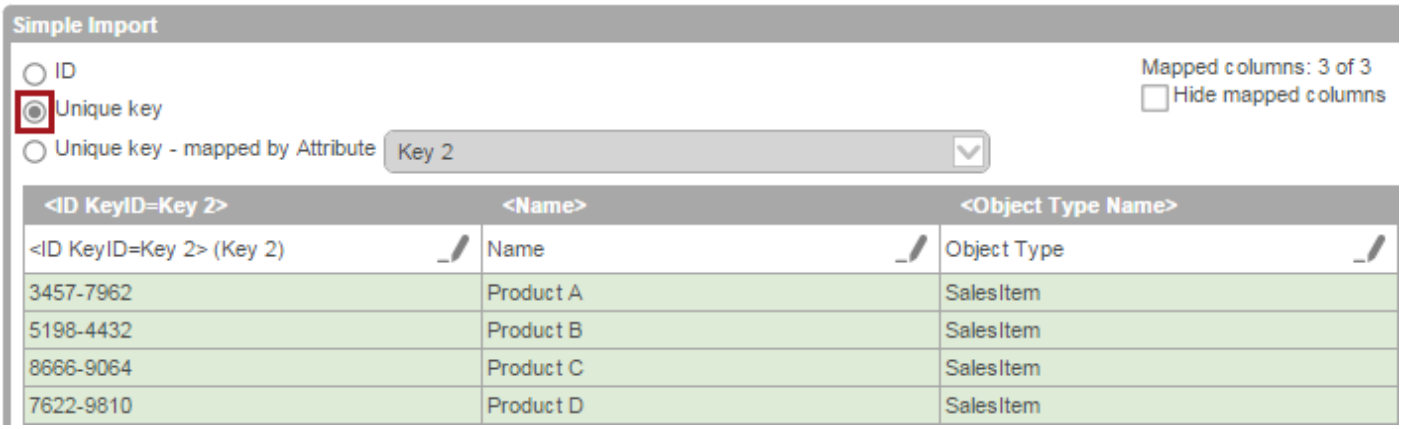
Previously, STEPXML could identify an object using a key by omitting the ID attribute on the element and adding a child 'KeyValue' element instead. A new STEPXML element, called 'ParentKeyValue', can now be used to identify a parent object via a key.

```
<Product>
      <KeyValue KeyID="Key 2">8666-9064</KeyValue>
      <ParentKeyValue KeyID="Key3">12345</ParentKeyValue>
      <Name>20808-013</Name>
```

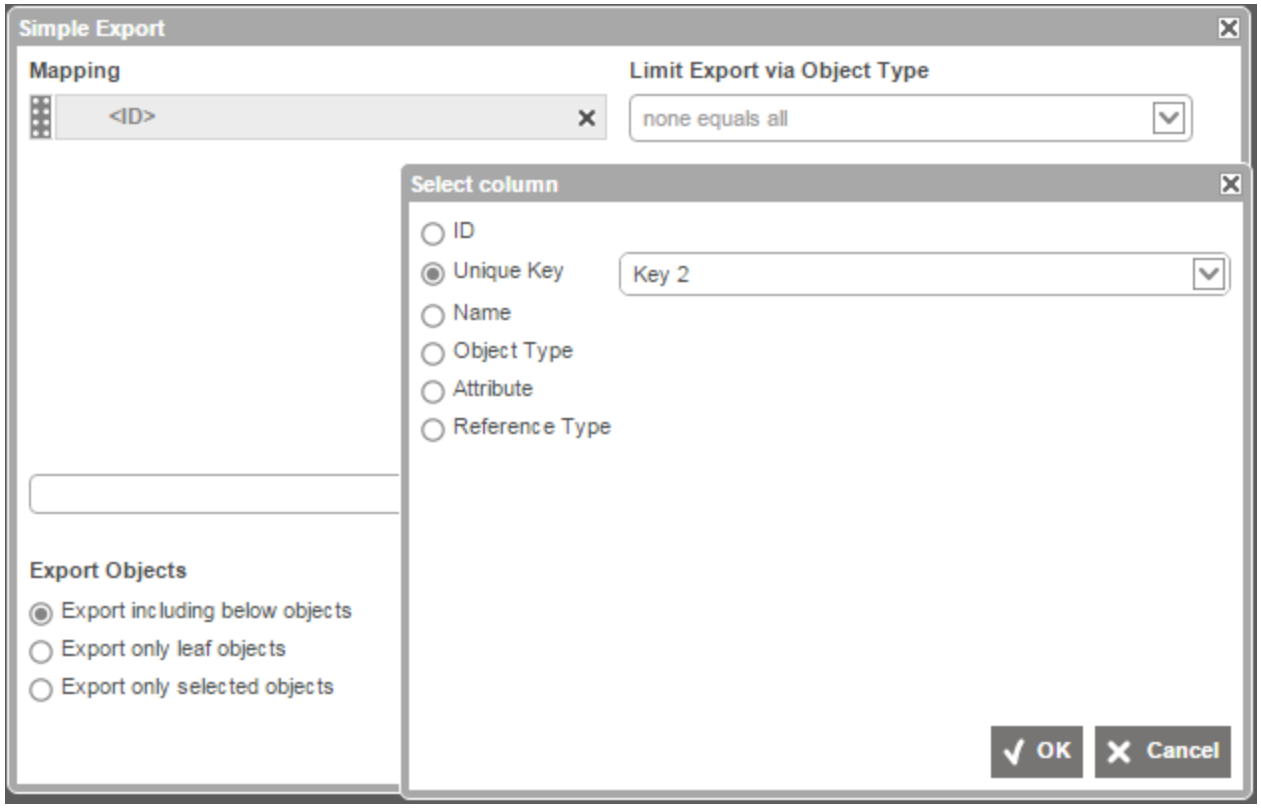
Additionally, objects can now be identified for deletion via keys when using STEPXML in the Import Manager or an IIEP. Like updates and creations, these deletions are noted in the execution report.

Web UI Enhancements

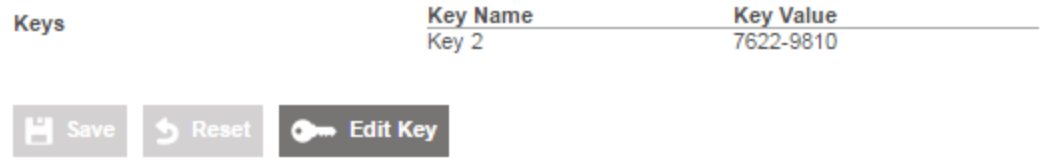
- Previously, mapping products via a key in Web UI was only supported by mapping the underlying attributes. Keys can now be mapped directly in the Web UI using Simple Import. See the 'Simple Import' section within 'Web User Interfaces' documentation for more information.



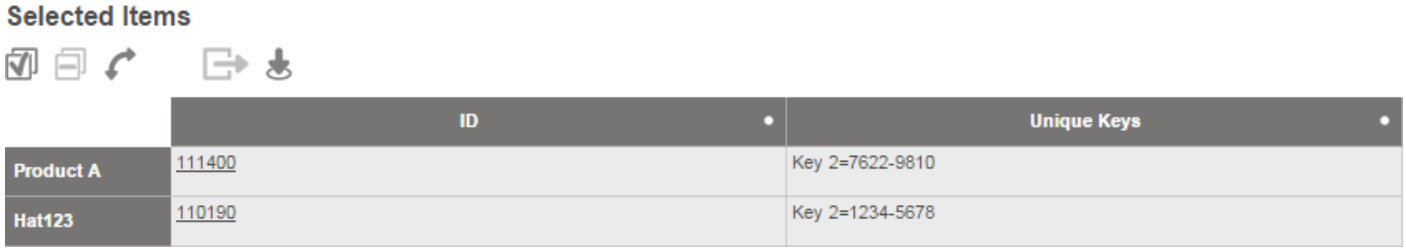
- Keys can now be used as identifiers when exporting objects in Simple Export. See the 'Simple Export' section within the 'Web User Interfaces' documentation for more information.



- The new 'Edit Unique Key Action' has been added to Web UI and can be placed anywhere that other actions, such as Save, Reset, and Approve, can be placed. The button will only activate if the current object has one or more active keys. See the 'STEP Web UI Designer reference Guide' section within the 'Web User Interfaces' documentation for more information.
- The calculated value of a key can now be displayed in Web UI, on the details page by adding the Unique Key Value component. Only activated and fully populated keys are displayed in this way. See the 'STEP Web UI Designer reference Guide' section within the 'Web User Interfaces' documentation for more information.



- The calculated values of keys can now be displayed in the Web UI table view by adding the Unique Key Header component. Only activated and fully populated keys are displayed in this way. See the 'STEP Web UI Designer reference Guide' section within the 'Web User Interfaces' documentation for more information.



Miscellaneous

- REST API and SOAP API now support identification of products, classifications, entities, and assets using keys.
- Keys are now supported in the database mode for Import Manager.

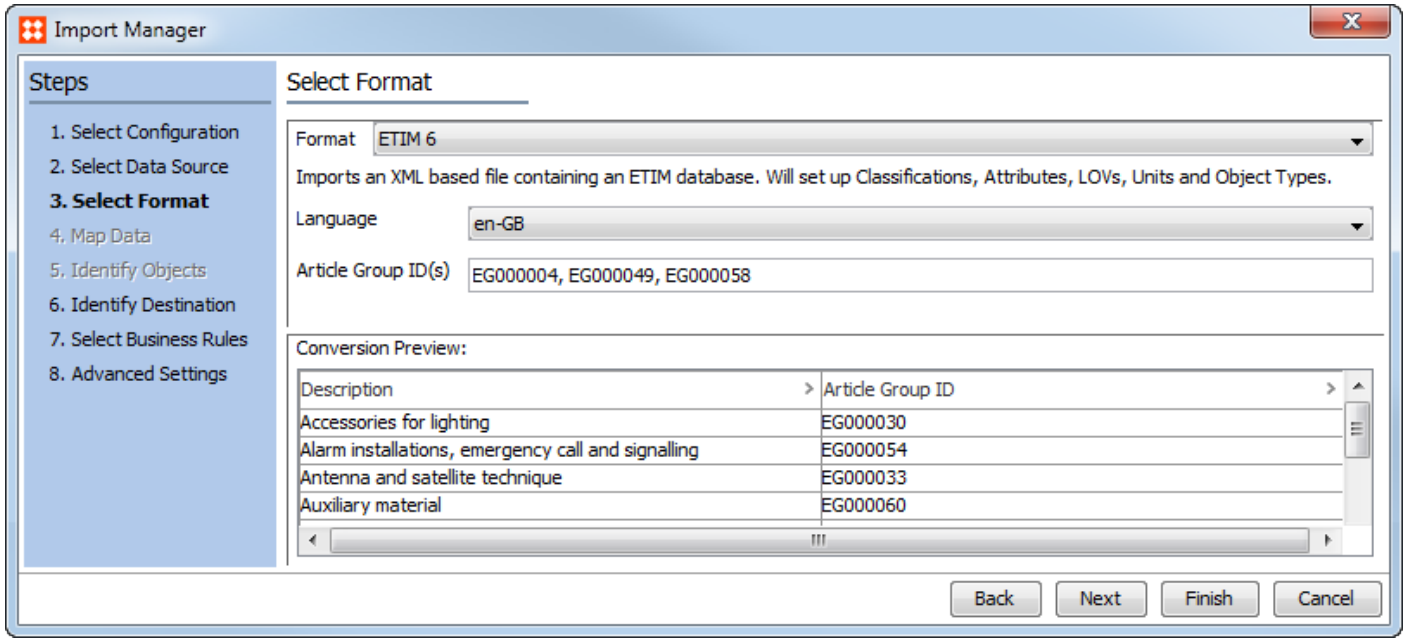
New ETIM 6 Support in Import Manager

Summary

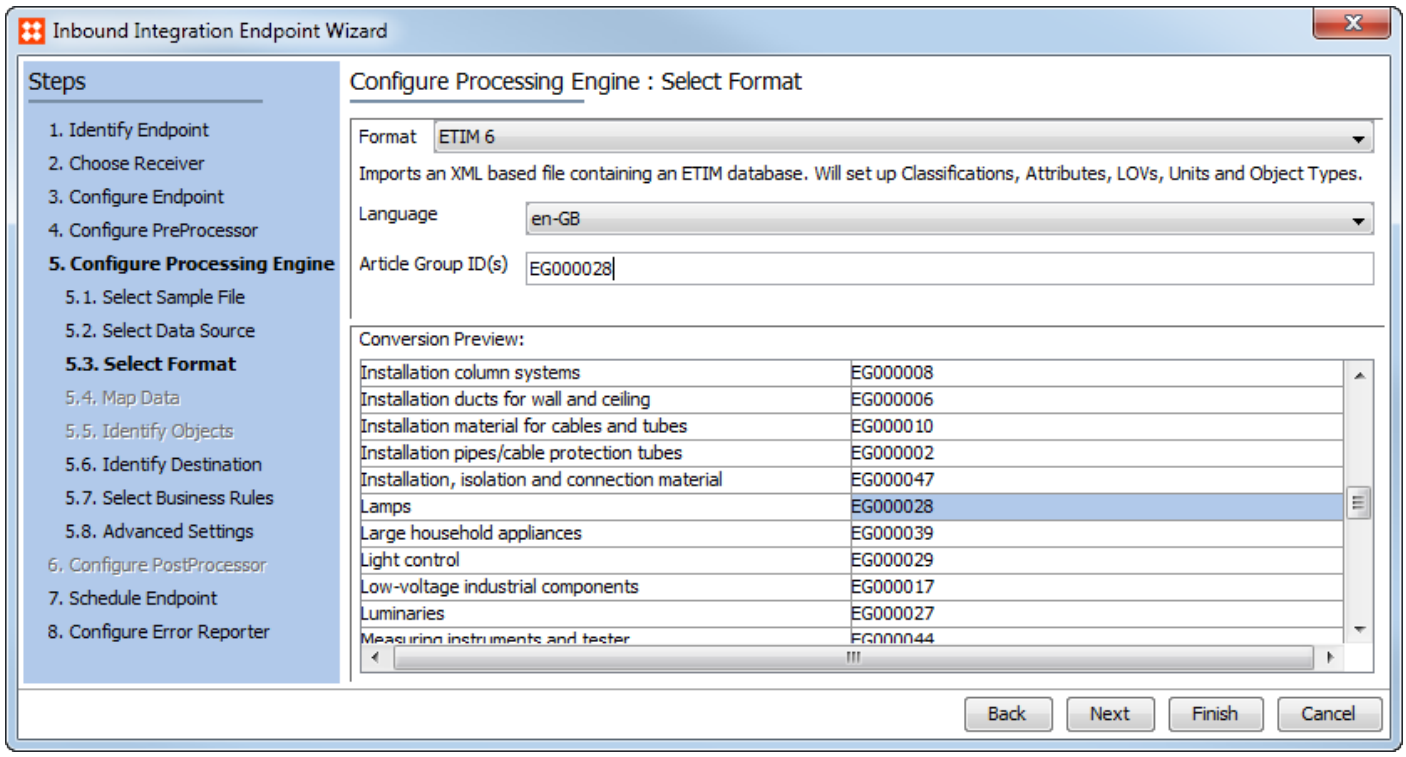
Previously ETIM 5 was the only licensed solution for ETIM classifications in STEP. Now an additional license is available for ETIM 6, which uses an XML import file containing multiple languages. STEP continues to allow import of ETIM 5 and management of both versions simultaneously.

Details

STEP Import Manager allows users to import new and update existing ETIM 6 data.



STEP Inbound Integration Endpoints also support the import of ETIM 6 data.



See the ETIM section of the Importing Data and Images / Import Manager User Guide for more information.

Considerations and Limitations

- Each language contained in the file must be imported separately.
- The ETIM 6 importer cannot delete ETIM data or mark ETIM data as obsolete.
- Support of both ETIM 5 and ETIM 6 on a single STEP system requires two individual structures. Attributes, LOVs, Units, Object Types, and Classifications are not shared between ETIM versions.

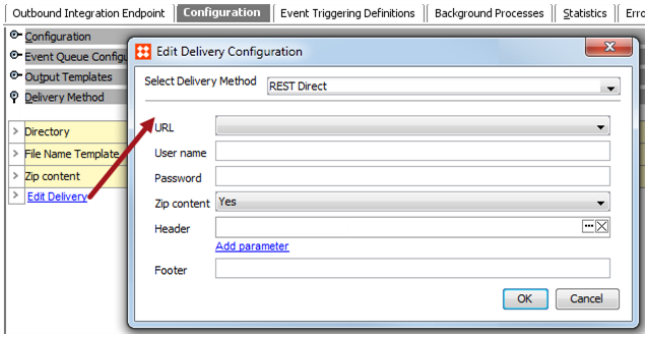
New REST Direct Delivery Method

Summary

The existing Outbound Integration Endpoint (OIEP) REST delivery method delivers data from STEP via REST and a call-back URL. The new REST Direct delivery method includes the full payload, as well as multiple configurable headers and a configurable footer.

Details

The REST Direct delivery method can be selected and configured in any OIEP.



See the Rest Direct Delivery Method section of the STEP Integration Endpoint documentation for more information.

Generic XML Export Enhancements

Summary

Many improvements are available when exporting data using the Generic XML format. These allow for the export of:

- More comprehensive attribute definitions
- Deleted attribute values, assets, classifications, entities, and product-to-product references (within event-based exports)
- Unit definitions
- LOV definitions

Details

Attribute Export Enhancements

This section describes changes that have been made to better support the export of attributes and related data using Generic XML, within both Export Manager and OIEP functionality.

- When exporting an attribute definition, the following aspects of the definition are now included: Attribute type (Specification or Description), multi-value indicator, and dimension dependencies.

  See the Attributes section of the Exporting Data documentation for more information.

- Empty values can be exported using the 'Allow empty tags' option.

  See the Empty Values section of the Exporting Data documentation for more information.

- Support for exporting attribute links from both product and classification objects, including relevant LOVs and Units.

  See the 'Attribute Links and LOVs' and 'Attribute Links and Units' sections of the Exporting Data documentation for more information.

New Deletion Capabilities

Previously, OIEPs needing to pass a deletion event required the use of STEPXML or Advanced STEPXML formats. OIEPs can now pass deletion events using the Generic XML format for the scenarios listed below. Note that this requires that the OIEP be configured to listen for Delete events on the relevant objects.

- Deleted classifications

  See the Deleting Classifications section of the Integration Endpoint User Guide / Integration Endpoints for Data Exchange for more information.

- Deleted assets

  See the Deleting Assets section of the Integration Endpoint documentation for more information.

- Deleted entities

  See the Deleting Entities section of the Integration Endpoint documentation for more information.

- Deleted references

  See the Deleting Product References section of the Integration Endpoint User Guide / Integration Endpoints for Data Exchange for more information.

Other Enhancements

- Unit definitions can now be exported in Generic XML format using an OIEP.

  See the Units section of the Integration Endpoint documentation for more information.

- LOV definitions can now be exported in Generic XML format using an OIEP or Export Manager.

  See the List of Values section of the Exporting Data documentation for more information.

New Purge Option for Web UI Configuration Revisions

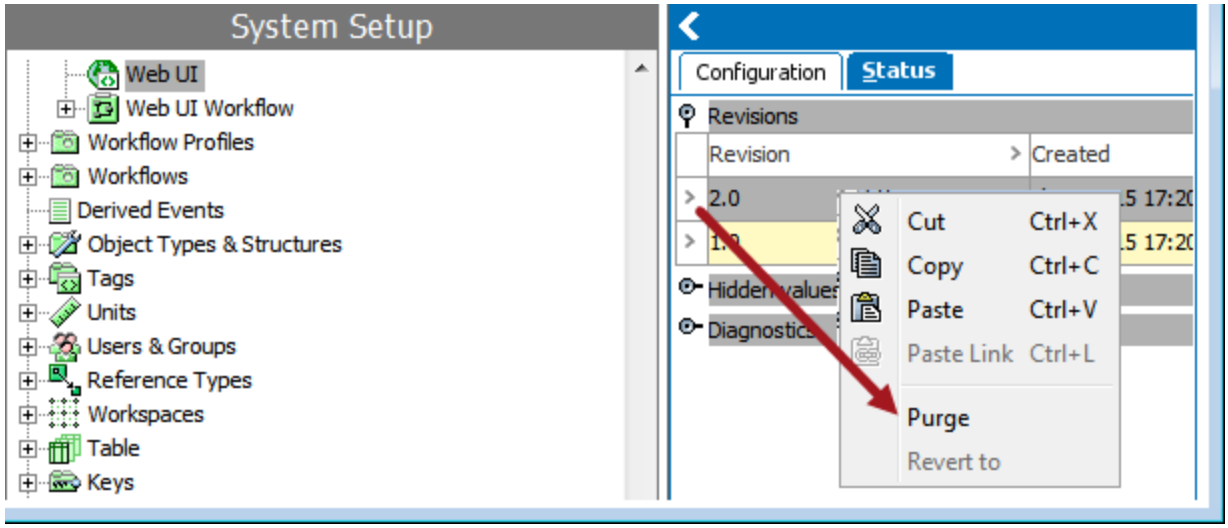
Summary

It is now possible to purge a single Web UI configuration revision from the Web UI revision history. This allows for simpler management of Web UI configurations as minor revisions can be easily removed if users choose to retain only major and/or published revisions.

Details

Each time a change to a Web UI configuration is saved either from the workbench or from the Web UI, a revision is created in the database. The revisions are all listed on the Status tab of the selected configuration. It is now possible to purge a revision from this revision history.

In the workbench, you remove revision configurations from the Status tab of a Web UI configuration by right-clicking and selecting the Purge option.



Enhanced Localization Support

Summary

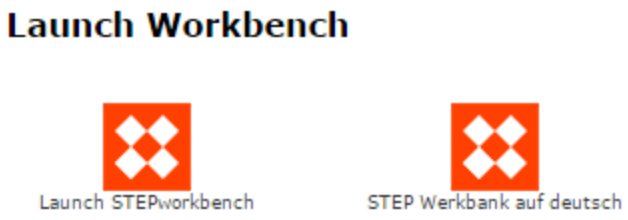
All labels, texts, and messages in the STEP Workbench and Web UI can now be localized to support having the UI texts translated to and displayed in a local language.

In addition, Stibo Systems is in the process of providing new and updated translations for a set of standard languages.

Any users interested in working with STEP in a local language should contact their Stibo Systems account manager for more information and licensing terms.

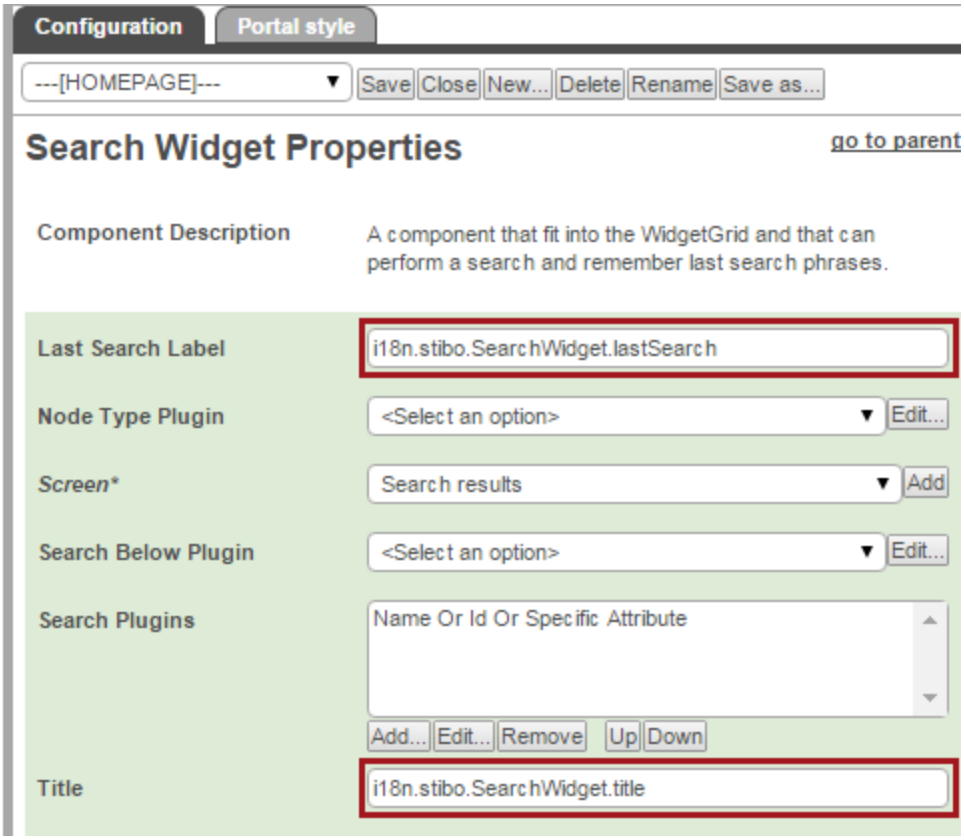
Details

If the STEP Workbench has been translated, users will see an additional icon on the webstart page for each translated language, for example:



If a Web UI has been translated, choosing a locale selection during login will display the translated user interface defined by the locale.

Within the Web UI Designer, users may observe an increased number of i18n keys in various text fields. For example:



Presence of an i18n key indicates that the field can be included in extraction for external translation, and that a value has not been manually populated. Once a value has been manually populated within the Designer, it is no longer available for extraction, unless the manual value is removed and the configuration saved.

Customers planning to pursue or utilize Web UI translations should not overwrite i18n values manually in the designer, and should instead populate texts within the Web UI locales files on the application server. A Stibo Systems account manager can provide additional information on this process.

Stibo Systems plans to provide translations of the STEP Workbench and Web UI for the following languages:

- Brazilian Portuguese
- Latin American Spanish
- Chinese (simplified)
- Danish
- Finnish
- French
- German
- Japanese
- Korean

- Norwegian
- Swedish

Considerations and Limitations

- Text entered manually into the Web UI Designer, such as labels, headers, and static texts cannot be localized unless an i18n reversion process is followed. Users needing to complete a reversion should contact their Stibo Systems account manager for assistance.
- Text strings that come from background process messages cannot be localized.
- Text strings related to user-defined business condition messages, workflow state names, and workflow events are currently translated directly in the STEP Workbench and are not part of the extraction for external localization. The methods for performing these translations are described in the STEP online help.
- Changes to standard texts (via manual entering in the Web UI Designer or via local Web UI locales files) are not supported by Stibo System's translation processes.

Enhanced GDSN Functionality in Web UI

The GDSN Publisher and GDSN Receiver solutions in the Web UI have been updated to include support for pre-publishing / registering data validations, as well as support for free-text CIC Confirmation Status Code comments. Also, on the Publish button in the Web UI you can now configure a GDSN command that should be executed prior to the publishing of the product. Each change is described in detail below.

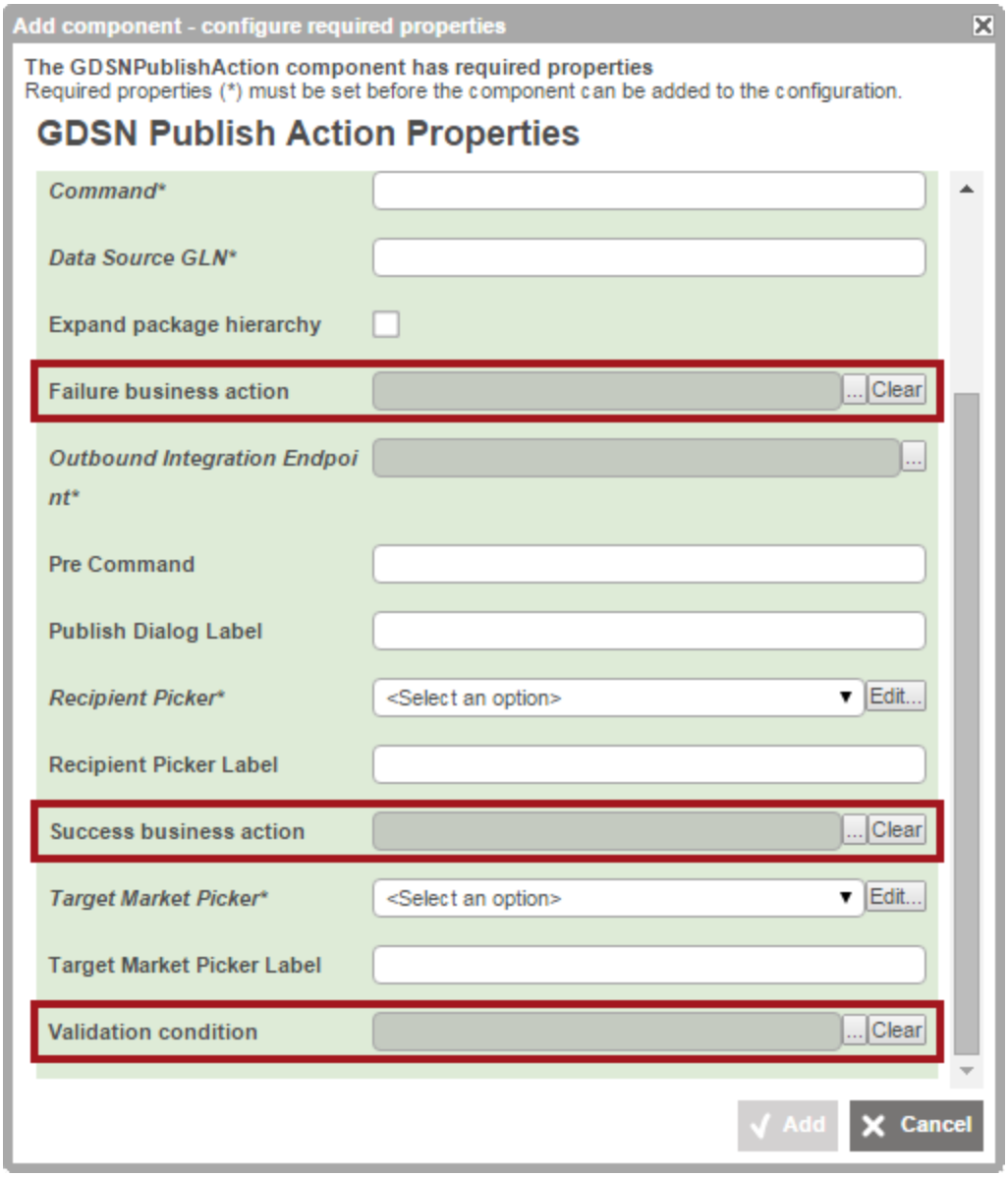
Validate GDSN Data Prior to Registering and/or Publishing

Summary

Existing GDSN functionality allows users to register a product and ultimately publish it to the global registry. New parameters in Web UI configuration now allow for the Register and Publish actions to be tied to business rules. This allows end users to perform pre-flight validations on the data prior to submission. For example, a business condition could be created to run with the Publish action that ensures that all mandatory attributes for the selected recipients are populated, thus eliminating subsequent data rejections by the recipient due to missing values. If the business condition fails, a selected Failure Business Action can be executed. If the business condition succeeds, a selected Success Business Action can be executed.

Details

The Web UI GDSN Register Action and GDSN Publish Action have been updated with new optional parameters.



- Validation condition - Data is validated against the selected condition. If a condition is selected, a Preflight checkbox appears in the Register or Publish dialog.
- Failure business action - Selected action is taken if the validation condition fails.
- Success business action - Selected action is taken if the validation condition succeeds.
- Preflight checkbox - If checked, the end user has the option to run the validation business condition without committing the Register or Publish action.

Considerations and Limitations

- If a business condition is not configured, the process is unchanged. That is, products are registered when you click the Register button and published when you click the Publish button.

Support for Display of Non-Standard CIC Confirmation Status Code Descriptions

Summary

When a CIC Standard Code is not sufficient for Reviewed or Rejected data, a recipient may send a CIC999 status code with free-form text information to indicate the required action. Previously, the Web UI GDSN functionality displayed standard CIC response messages only, meaning that the corrective action indicated in the status code description was not visible to the end user.

The standard GDSN components have been updated to allow configuration for displaying additional fields for input and display of non-standard status code descriptions. This enhancement allows the data source to take action on the data and continue business with the recipient.

Details

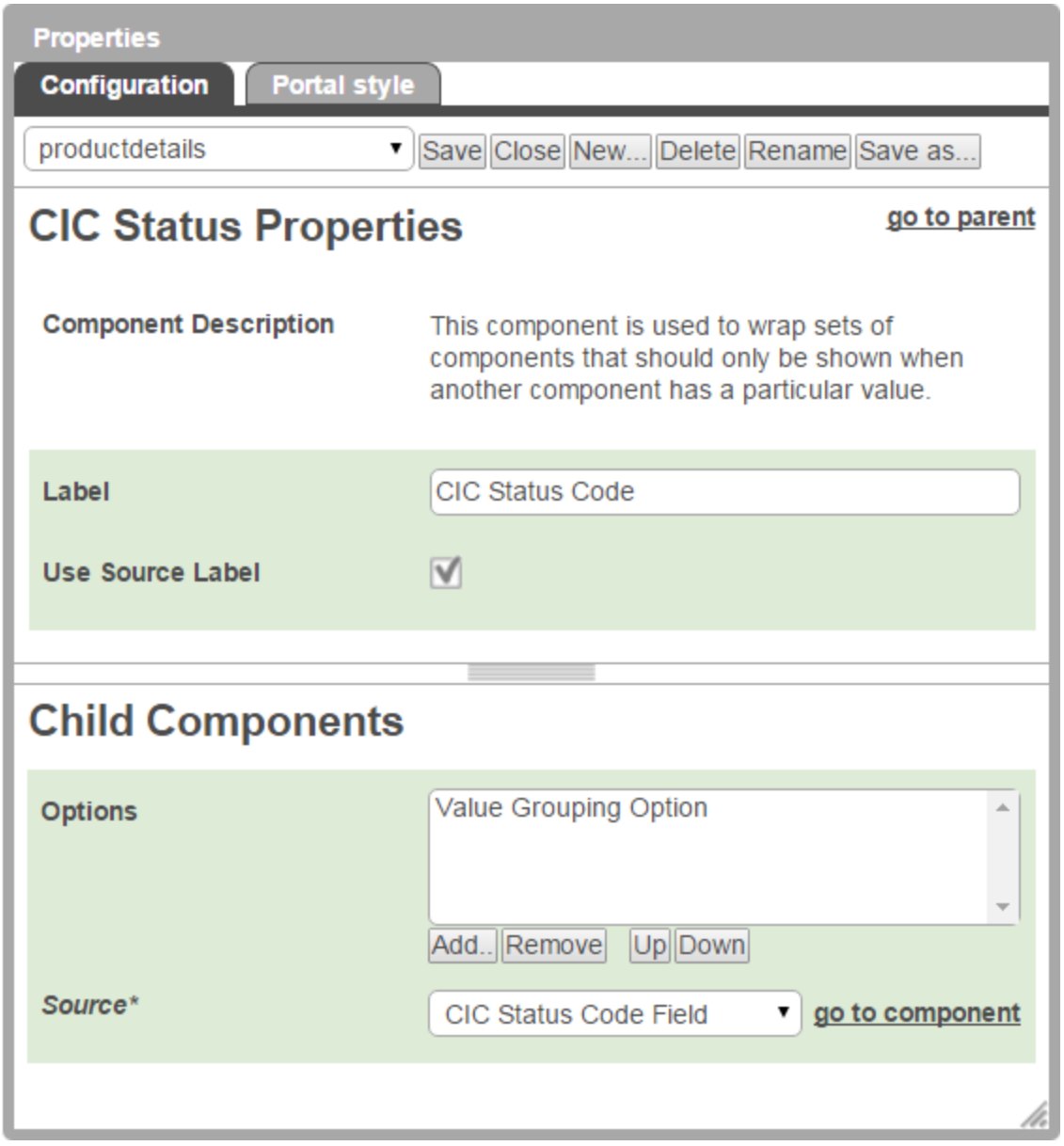
For the GDSN Receiver solution, the Web UI component used to maintain CIC statuses has been updated so that it now is possible to maintain two free-form additional status texts.

For the GDSN Publisher solution, two new fields can display the free-form text included in CIC999 using the same standard Web UI components that are used to display the confirmation code.

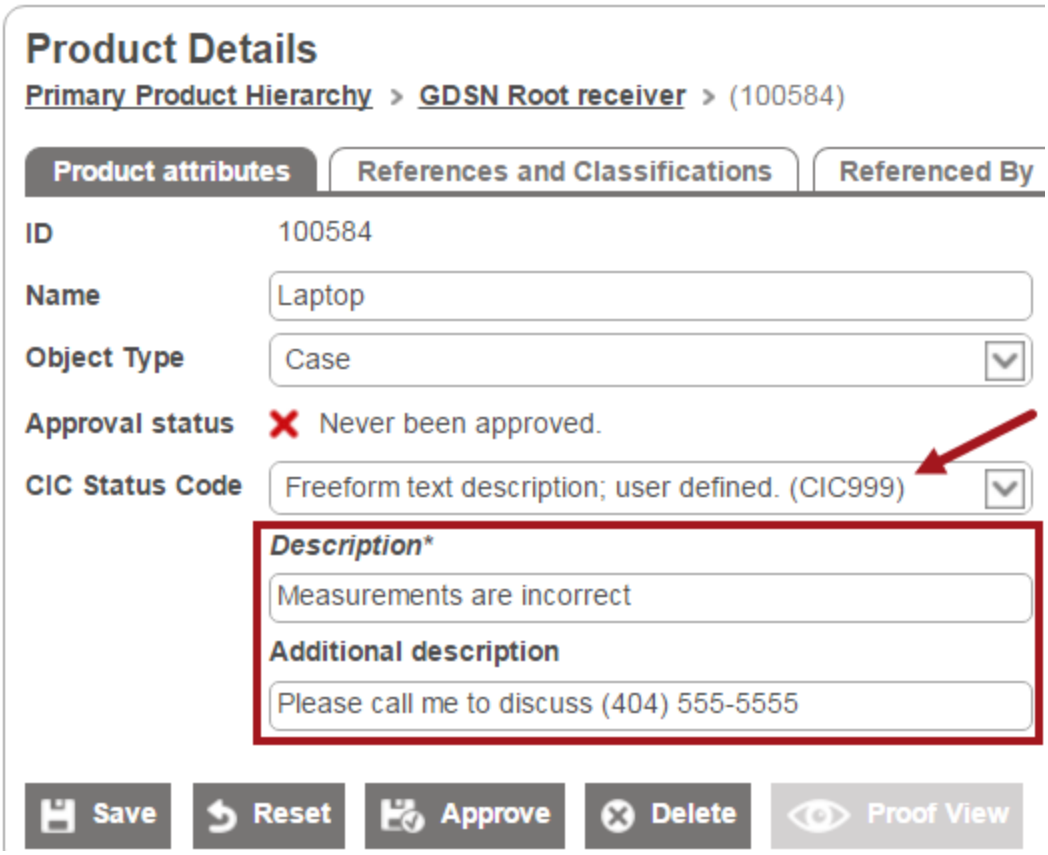
GDSN Receiver

The GDSN Receiver solution has been updated with the option to enter additional CIC details when sending out a CIC message. Previously, it was only possible to enter the CIC code together with the CIC details.

The previously existing Value Grouping component has been renamed CIC Status. Within this component, users can configure additional fields to store and display the status code description and additional description.



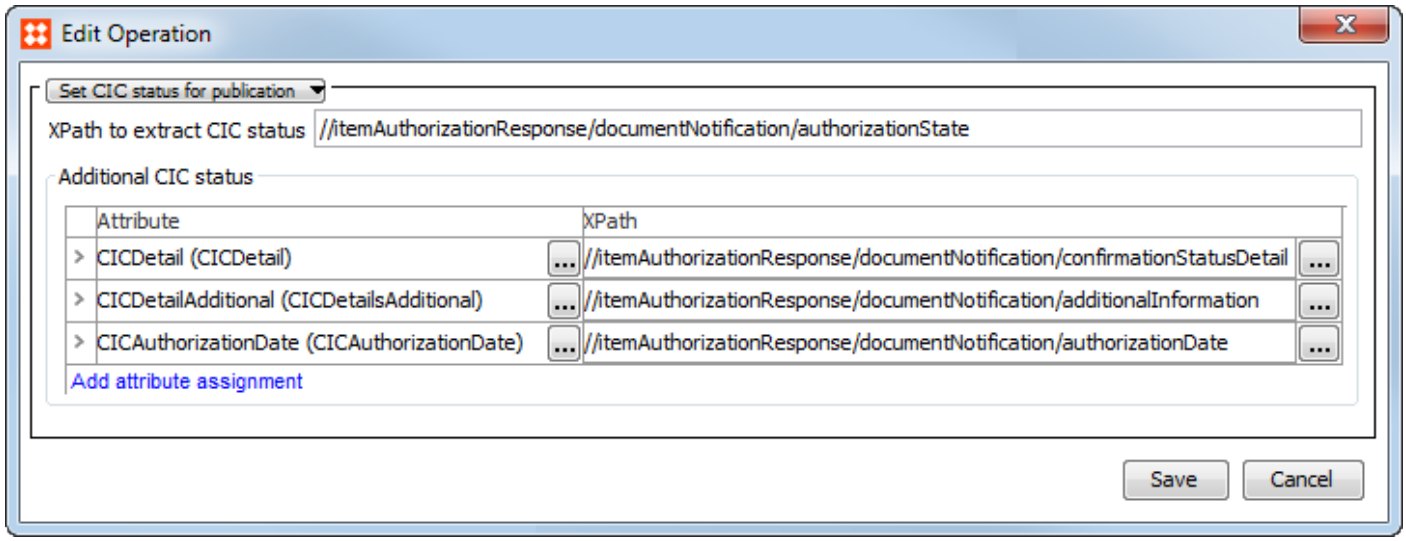
Based on the configuration, the fields dynamically display when CIC999 is selected for CIC Status Code. The values are stored as metadata on the reference between the product object and the subscription object.



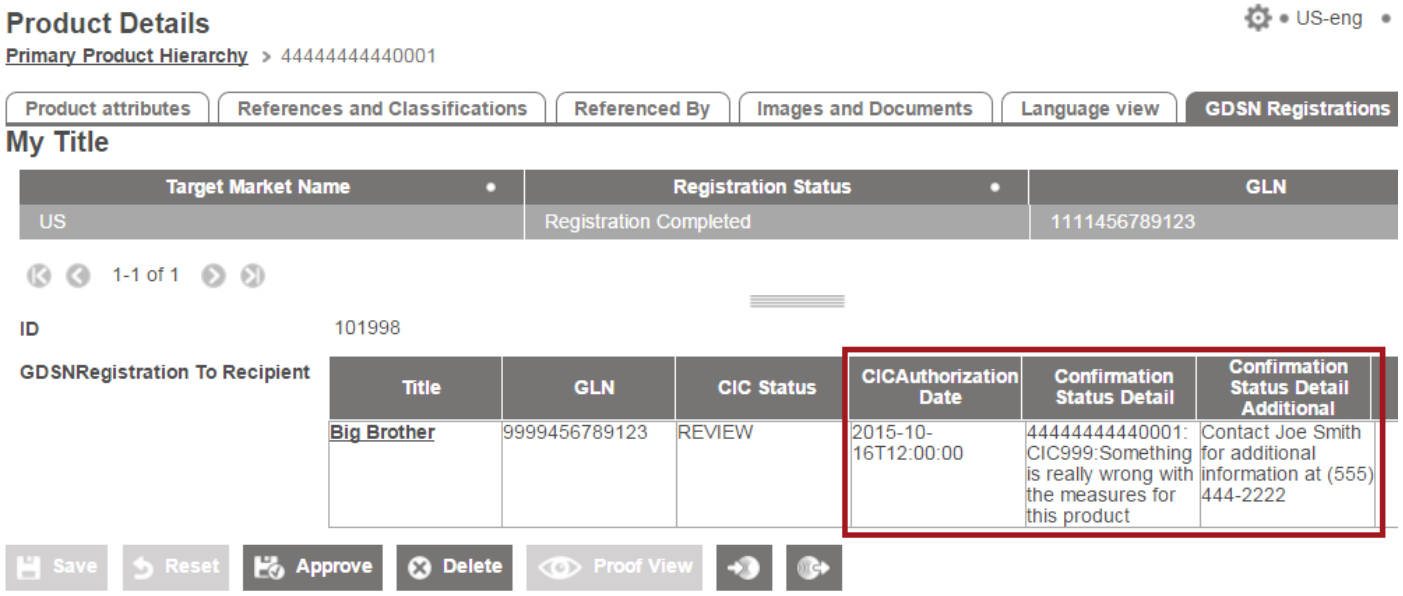
See the 'Managing GDSN Receiver Subscriptions in Web UI' section of the STEP GDSN Receiver User Guide documentation for more information.

GDSN Publisher

The GDSN Publisher solution has been extended with the option to configure multiple attributes to store the additional CIC status information. This is done in STEP Workbench by configuring the 'Set CIC status for publication' business action with a number of Attribute-XPath combinations.



The attributes must be metadata attributes on the reference between the registration object and the recipient object. Then in the Web UI, configure a column in the Publication overview to display the values.



See the 'About GDSN in Web UI' section of the STEP GDSN Provider User Guide documentation for more information.

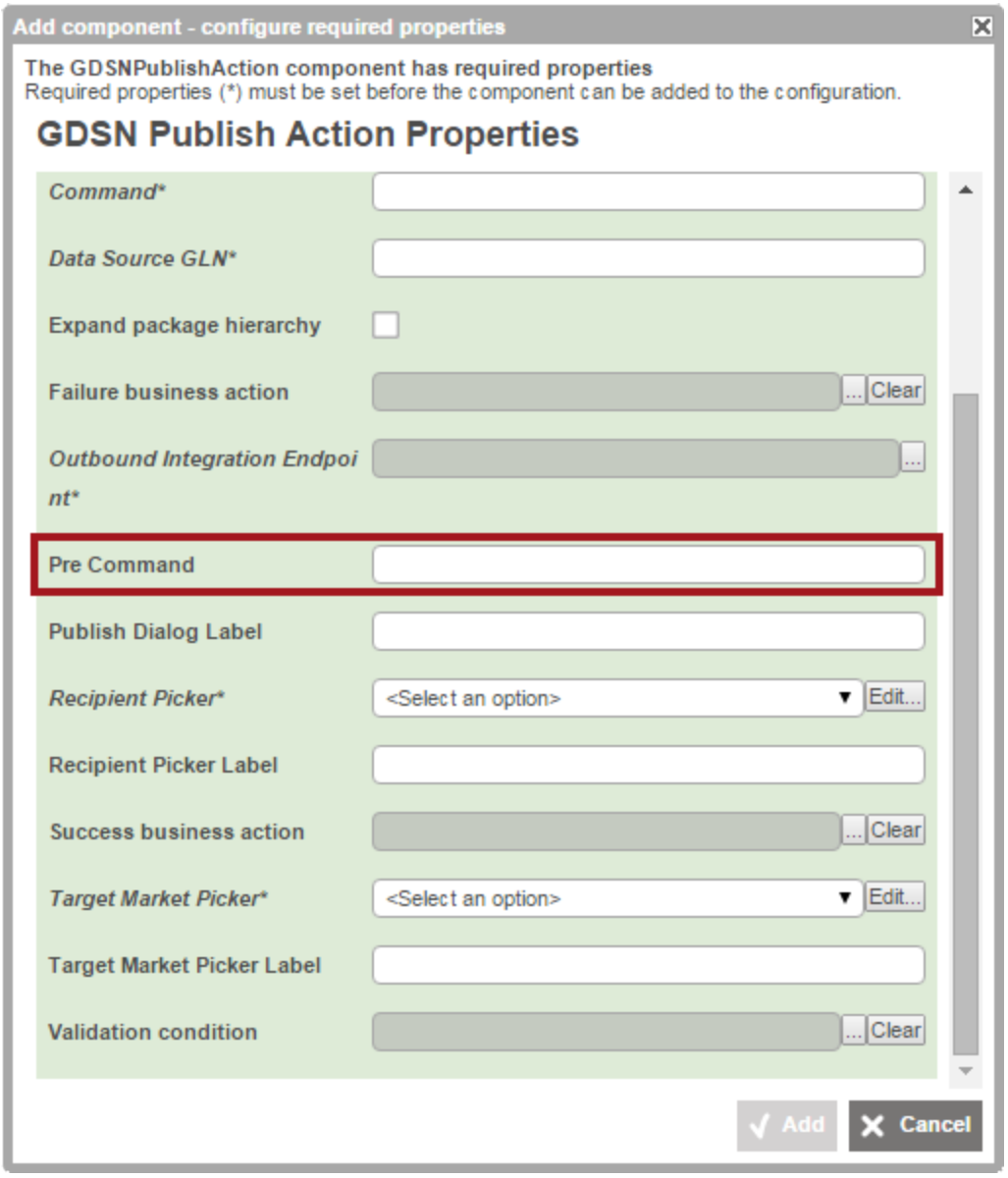
Run Additional GDSN Command Prior to Publishing

Summary

A new property for the GDSN Publish Action in the Web UI makes it possible to run a GDSN command prior to the actual publish of the product. This could be used, for example, to run a register command before the publish command is run, in order to ensure that the global registry is updated with the current values in STEP before a publish to a recipient is started.

Details

Using the Web UI Designer, the new Pre Command property holds the command to be run prior to publishing the product. Use STEP Workbench to configure the command.



See the 'About GDSN in Web UI' section of the STEP GDSN Provider User Guide documentation for more information.

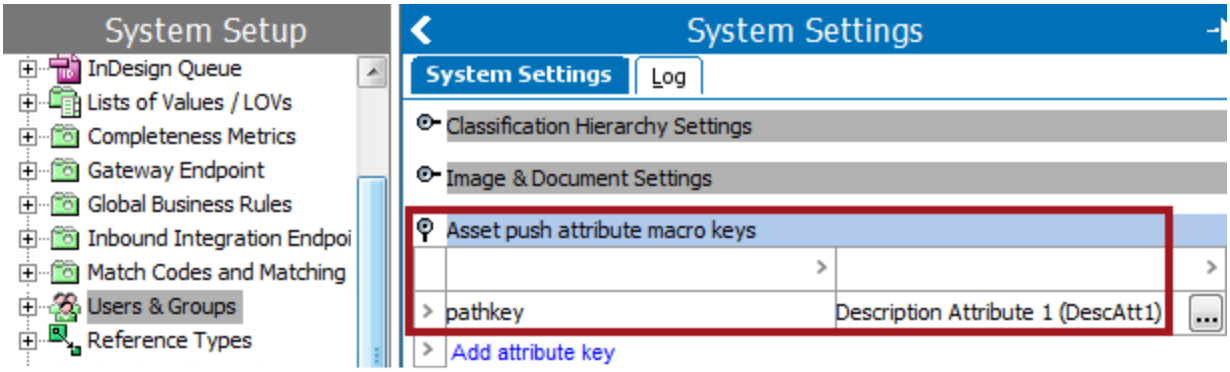
Considerations and Limitations

- Products must be registered with the global registry before a publish is possible. This also applies if the Pre Command set for the Publish action is 'register'.

New Asset Push Path Template Configuration Macro

Summary

A new macro in the asset push template configuration makes it possible to extract values from any Description attribute on an asset so that they can be used as part of the asset push path. Multiple key / attribute configurations can be created as needed.



Details

In System Setup, the Users and Groups node includes a flipper labeled 'Asset push attribute macro keys.' The 'Add attribute key' link allows configuration between a key and an attribute.

The macro uses the format $attribute:key$ where 'key' is populated with the key created in System Settings. Note that this key must use all lowercase characters and may not have any spaces, to align with standard macros.

For example, a key with name 'pathkey' bound to the 'Description Attribute 1' attribute could yield the following Relative Path Template: $configID$/$attribute:pathkey$/$assetID$.$extension$

When the asset is pushed, the value of the attribute specified by the key replaces the macro configuration in the path.

Considerations and Limitations

- Dimension dependent Attributes are not available for use as path keys. This is checked when the attribute dimension is changed for an attribute and when a new asset push template is created.
- A change in value on the attribute bound to the path key will *not* cause the asset to be re-pushed.

Packaging Hierarchy Enhancements in Web UI

Summary

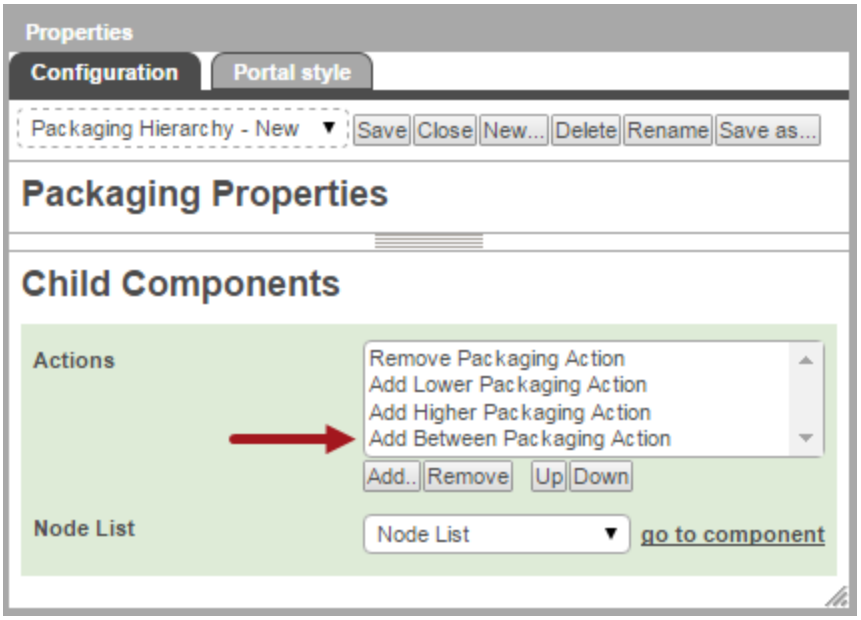
Packaging Hierarchy has been enhanced to include greater functionality and allow for additional user-configured component setup. This results in an improved user experience and provides more customization of desired behavior when maintaining Packaging Hierarchies in the Web UI.

Details

New Actions Available in Packaging Hierarchy

Add Between Packaging Action

Users can add a new level between two existing levels within a Packing Hierarchy. Previously, levels had to be removed and hierarchies recreated to add a level between existing ones.



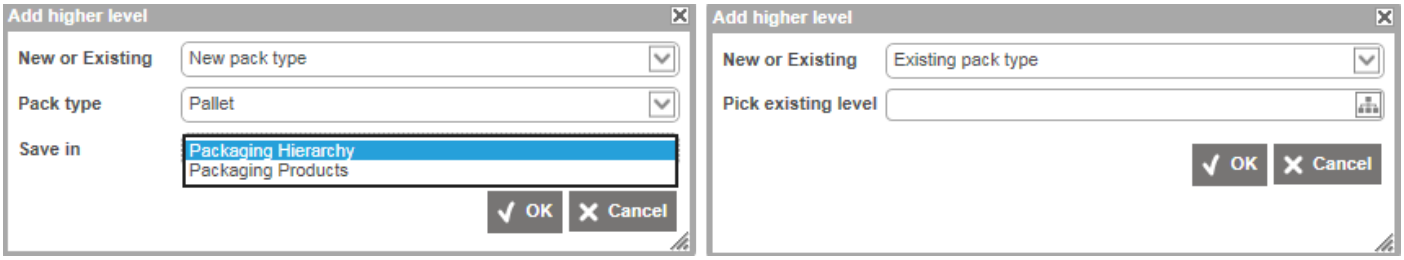
Remove / Unlink Packaging Action

The Remove Packaging Action will now unlink removed levels from the hierarchy rather than deleting removed levels. This allows a packaging level to be unlinked from one hierarchy and linked into another.

New Configuration Options on Packaging Hierarchy Actions

A range of new setup options are available in the Web UI Designer, allowing for configuration of the user experience and behavior of the editor when adding new packing objects to a Packaging Hierarchy. These setup options include the following:

- The option of configuring multiple folders for saving created packaging objects. This gives users the option of choosing between a selection of pre-selected folders available from either a dropdown list or a node chooser dialog.
- If only one folder has been configured for saving created packaging objects, the folder will not appear in the Add Level dialog. By doing so, the number of input fields in the dialog that the user must relate to is minimized.
- The Add Level dialog will now only display parameters relevant to the action that the user is carrying out, whether this is adding a new packaging object or adding an existing packaging object to the hierarchy.
- It is now possible to add a business condition to run a validation prior to the action being carried out. This business condition can determine, for example, whether or not users should be allowed to edit the Packaging Hierarchy.



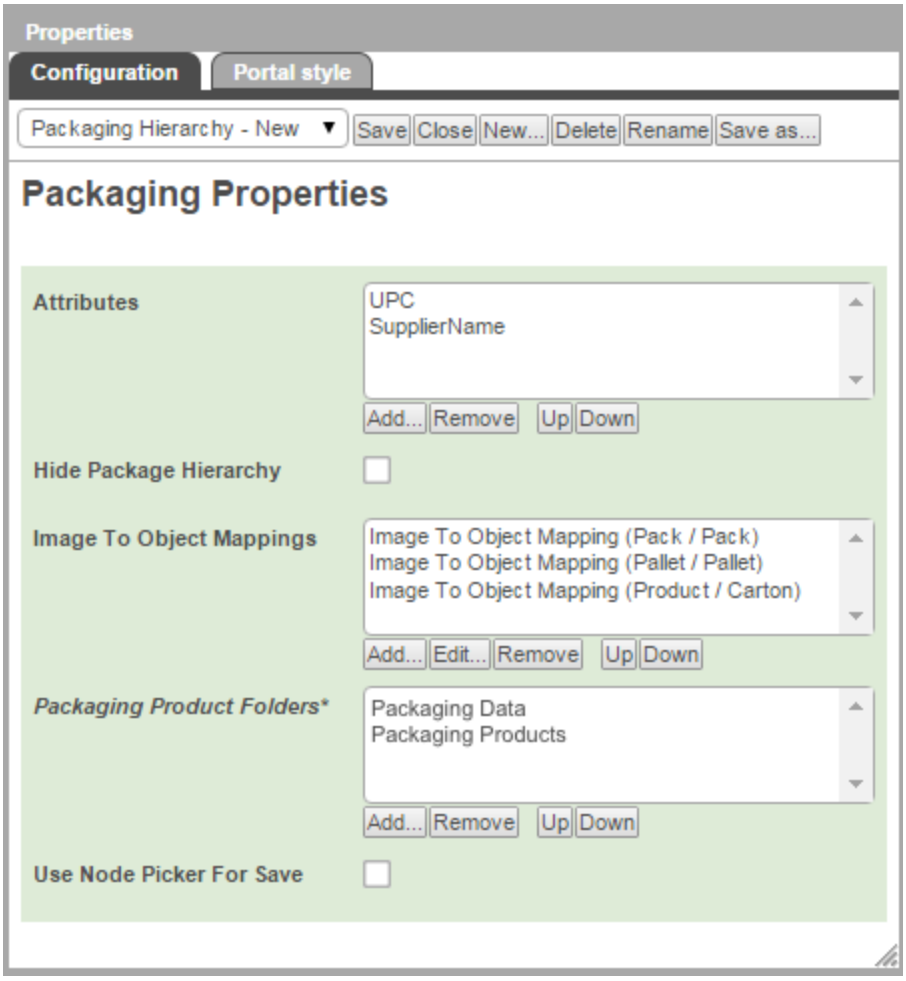
Create Actions in the New Extensions API

It is also possible to create new actions for maintaining the Packaging Hierarchy Editor by using the new Extension API for full control of the behavior and logic that applies when adding and removing a level to the Packaging Hierarchy. For more information on the Extension API, please see the STEP SDK documentation.

Redesigned User Interface

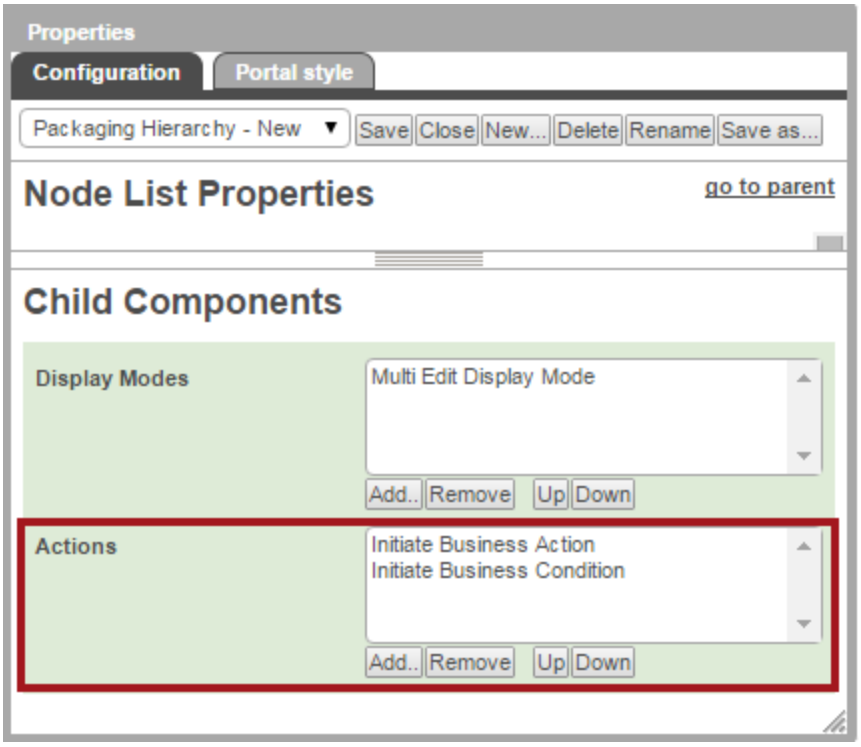
The user interface for the Packaging Hierarchy diagram has been redesigned. This includes new colors and the option of configuring the graphical elements with up to two attributes. This makes it possible to display valuable information directly in the diagram, allowing users to quickly get a visual overview of the available Packaging

Hierarchies for the selected product. In addition to new icons, the capability of customizing how the default icons are determined has been provided.



Validation of Packaging Hierarchy

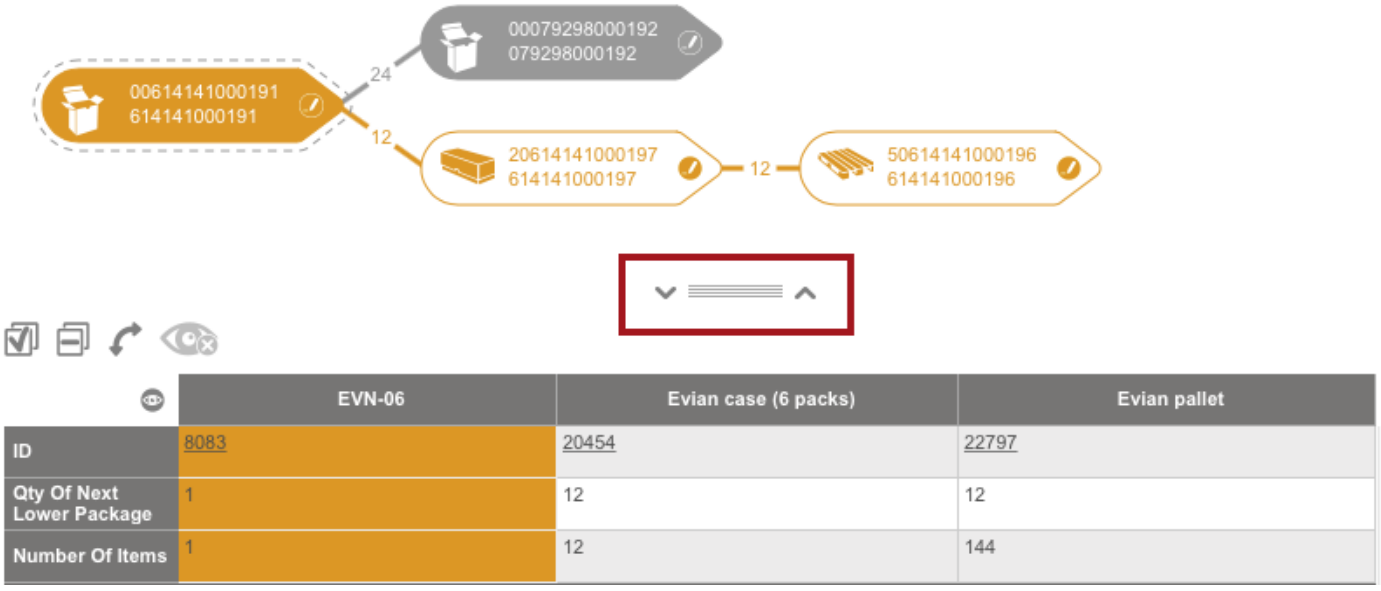
It is now possible to run a business rule / business condition to validate the entire Packaging Hierarchy. Business rules and conditions can be added using the Actions component on the Node List Properties accessed from the Packaging Properties screen.



New Collapsible Splitter Feature

The individual panels on the Packaging Hierarchy Editor screen have been made collapsible and expandable through the use of a collapsible splitter feature.

When the screen is configured with a horizontal split panel, a drag handle splits up the panels / components on the screen. The drag handle has been updated to display a down arrowhead to the left and an up arrowhead to the right.



Clicking the up arrowhead removes the main component (packaging diagram) from display, allowing more screen space to focus on the packaging details. This is useful if the user wants to focus on entering data in the table and no longer needs to see the packaging diagram to do so.

Clicking the down arrowhead returns the hidden component back to the screen display.

Similarly, if the user first clicks the down arrowhead, the child component is hidden from display so the user can focus on the packaging diagram.

Read more about Packaging Hierarchies in the 'Packaging Hierarchy Editor' section of the Web User Interfaces documentation.

Enhanced Web UI Designer Usability

Summary

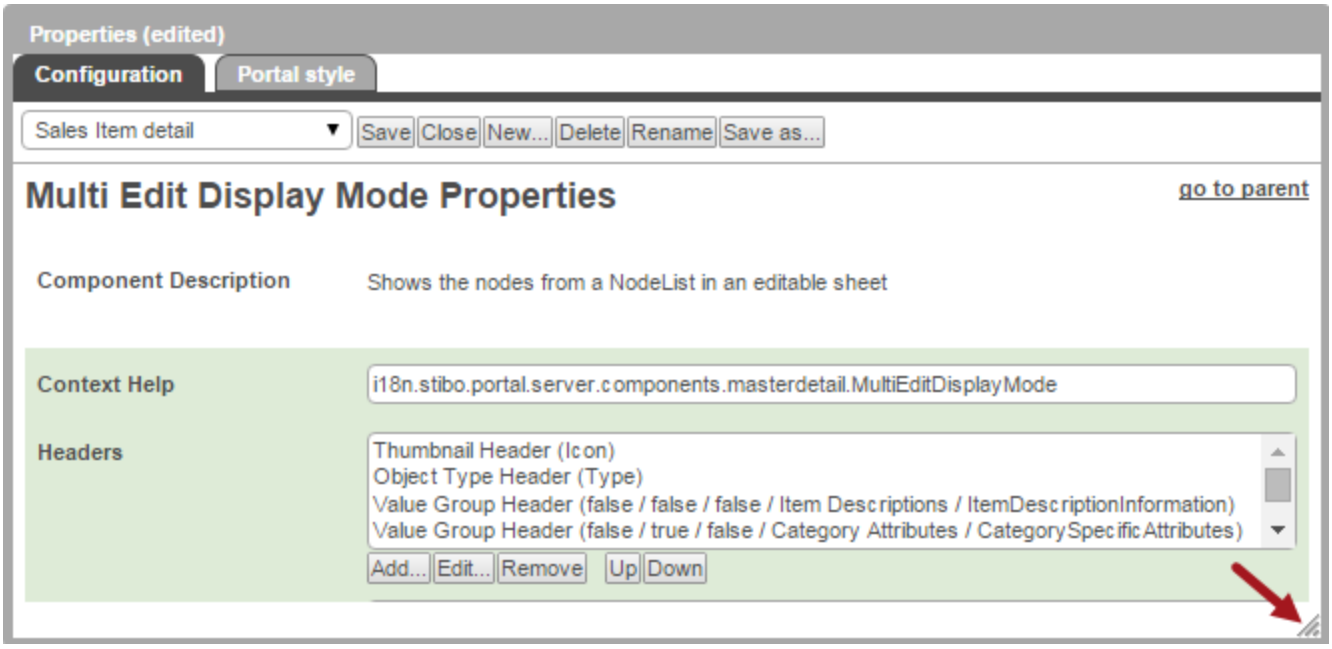
With better efficiency and ease-of-use in mind, the following usability enhancements have been made to the STEP Web UI:

- Resizable component fields within the designer window
- On-screen grouping of the most commonly used parameters
- New and improved component and parameter labeling
- Enriched help texts

Details

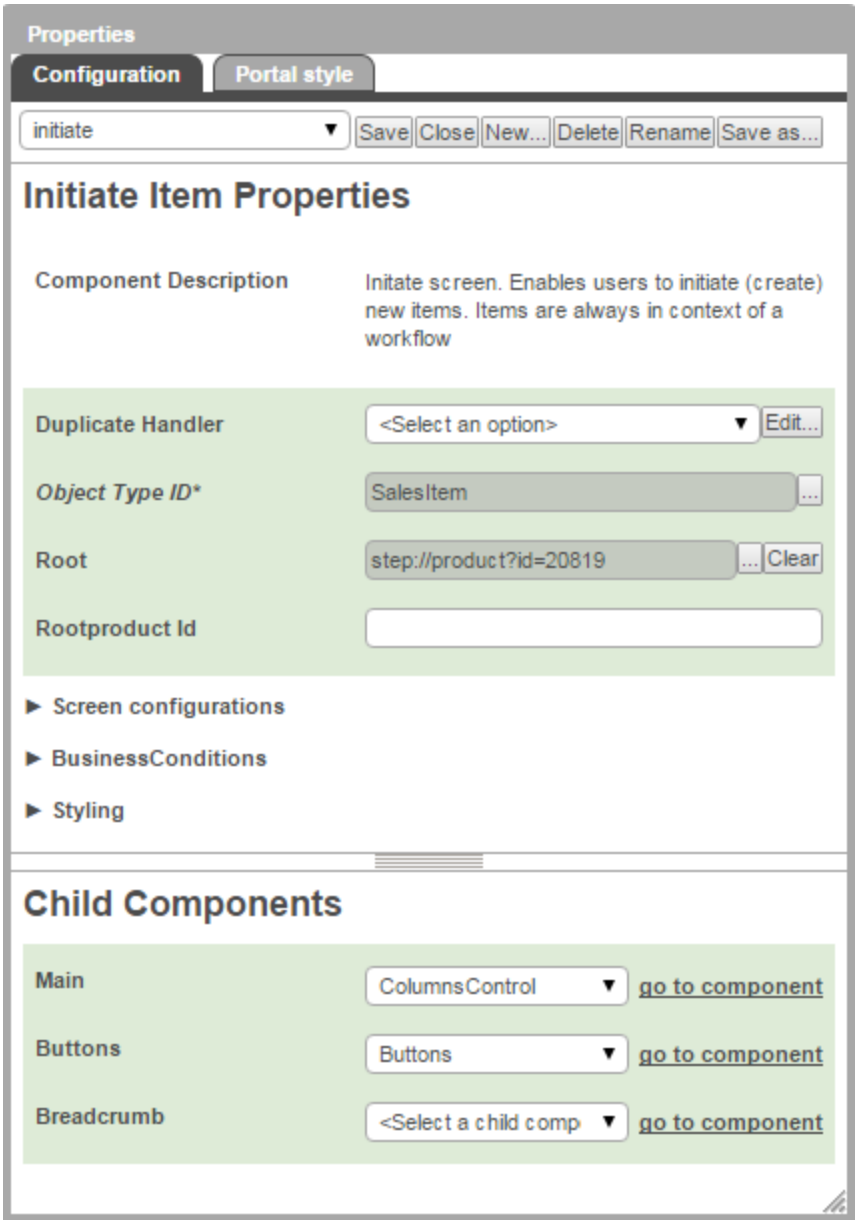
Resizable Component Fields within the Designer Window

The component fields within the Web UI Designer window are now resizable, allowing the fields to adjust in size to match the size of the designer window. This allows users to expand the window (by dragging the lower right corner of the window) and more easily view all available content.



Grouping and Presentation of Parameters

Parameters are now grouped together on the component properties screens for easier understanding of parameter interactions. Parameters that are required, as well as those frequently used, are shown immediately when opening a properties page. Additional optional parameters are grouped by topic and displayed when the user clicks the arrowhead preceding the group. This results in a less cluttered and more user-friendly display.



Improved Component and Parameter Labels

Component and parameter names have been updated to more user-friendly names that enhance readability. To accomplish this, compound labels have been replaced by standard spaced texts (e.g., NodeList becomes Node List and TableDisplayMode becomes Table Display Mode). Users will see these changes throughout the Web UI.

In addition, the following components have been renamed to be more descriptive:

- Display Children Screen (formerly: Children)
- Attribute Value Component (formerly: Value component)
- Attribute Value Group Component (formerly: ValueGroup)

- Attribute Value Group Header (formerly: ValueGroupHeader)
- Attribute Value Header (formerly: ValueHeader)

Enriched Help Texts

Improvements have been made to the help texts for some of the most commonly used Web UI components and parameters. Improving the user experience by providing basic help at the point it is needed allows the user to stay on task. This is especially helpful if the user is fairly knowledgeable about a configuration but needs a little guidance completing a step, enabling a specific parameter, or perhaps understanding a new component. Further improvement to help texts will be ongoing and users can expect to see continued enhancements in this area.

Enhanced Address Handling in Web UI

Summary

With better user experience and ease of data management in mind, three enhancements have been made to the Web UI Address Detail component. These allow users to:

- Display addresses according to the conventions of the country of residence
- Independently display and store street numbers and street names
- Indicate a single root node under which all Address objects should be created

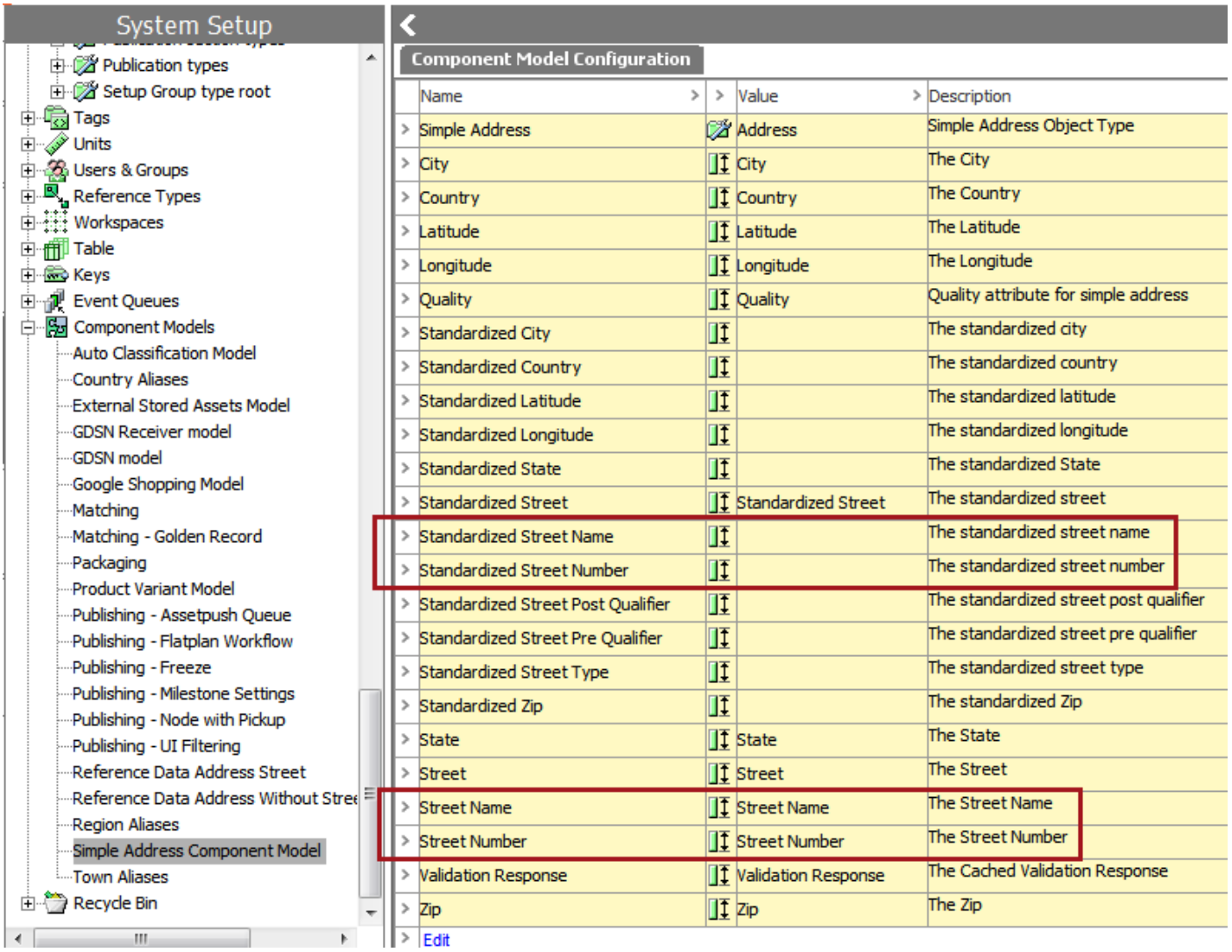
Details

Display Address By Country Conventions

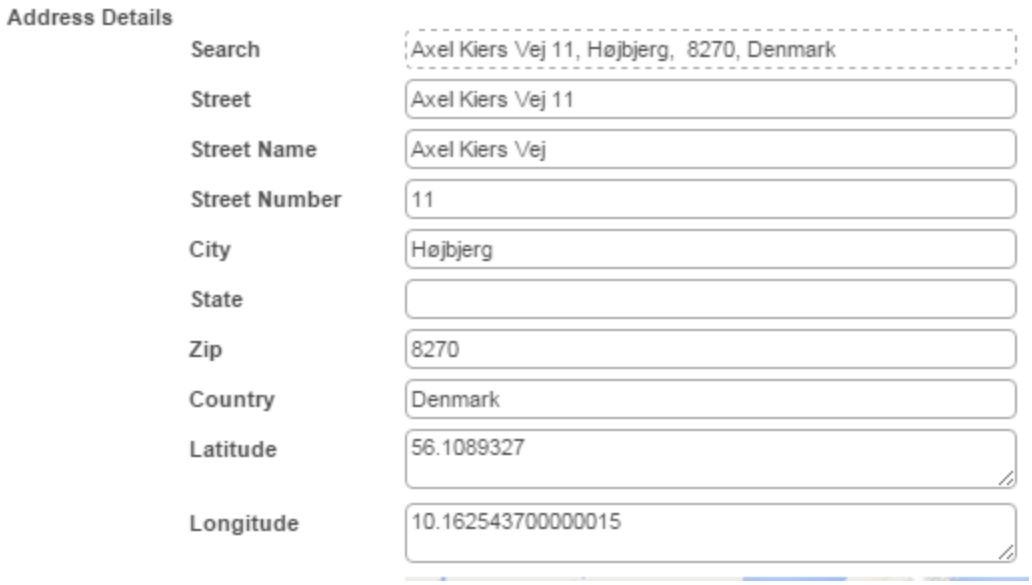
When a user enters an address into the Search field in the Address Detail component, a call is made to Google to look up the address and populate all resulting fields according to the standards of the country of the address. For example, if a user in the United States is looking up a Danish address in the search field, the Street field will display the Danish formatting of the address (street name followed by number).

Separate Street Number and Street Name

New fields have been added to the Address Detail Web UI component and the Simple Address Component Model to support the separation of street name and house number in addresses. The option to separate the contents of the Street field in this manner allows for greater standardization in addresses, as well as simplification of deduplication efforts.

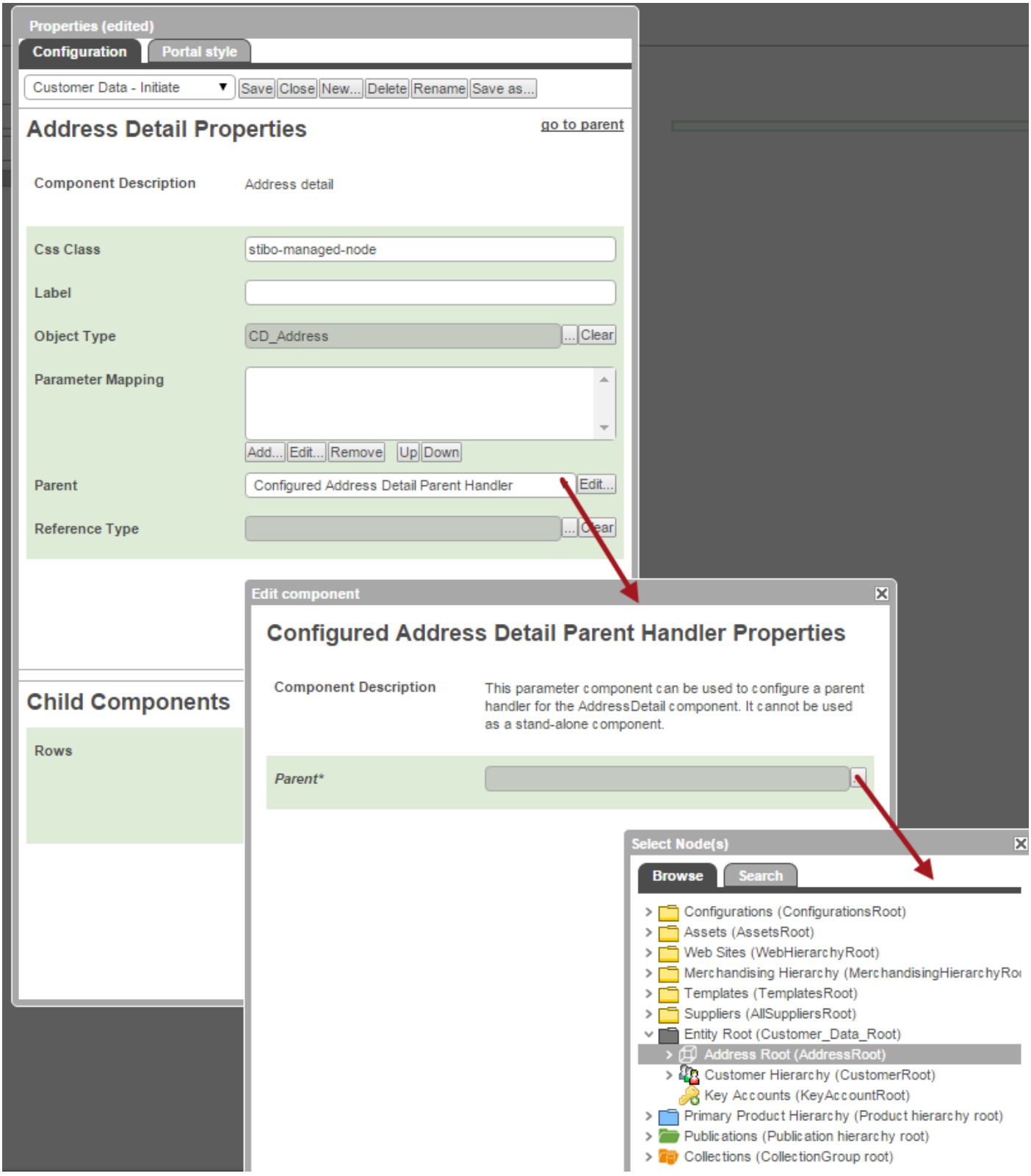


If the Street Name and Street Number fields are not configured for use, then standardization falls back to using the Street element that includes the combined values. If the component model is configured to use the separated fields, and the appropriate attributes are also added to the Web UI screen, the fields will be auto-populated when an address is selected from the Search field.



Configurable Parent Selector

Previously, when a new address object was created in Web UI using the Address Detail component as part of a Node Editor, the address was always created under the current selection (typically a Customer or Supplier object). As a single address can be shared among multiple objects, it is generally preferred to create all addresses under a neutral root node. The Address Detail component now includes a parameter (Parent) in the Web UI Designer that can be configured to specify a single parent for all newly created address objects.



If the Parent is not configured, the previous functionality remains in place and the address object is created as a child to the selected object.

Considerations and Limitations

- The Address Detail component requires configuration of the Simple Address Component Model in STEP Workbench.
- If a data model is in place that currently uses separation of street number and name, those existing attributes should be mapped to the new fields in the Simple Address component model so that users can take advantage of full functionality of the Address Detail component and address standardization extensions (if applicable).
- Additional information on the Address Detail component can be found within the Customer Data Web UI documentation.

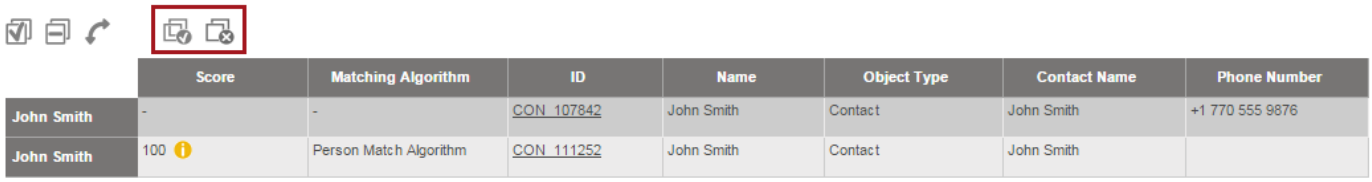
Enhanced Deduplication Capabilities in Web UI

Summary

When making use of STEP's simple matching capabilities for deduplication, where the matching threshold value is set so that all matches higher than the threshold are seen as potential duplicates, Web UI end users can now see a list of potential duplicates so that they can confirm or reject the potential duplicates. This is similar to the functionality offered in the STEP Workbench on the Matching tab for an object that a matching algorithm has been run on.

Details

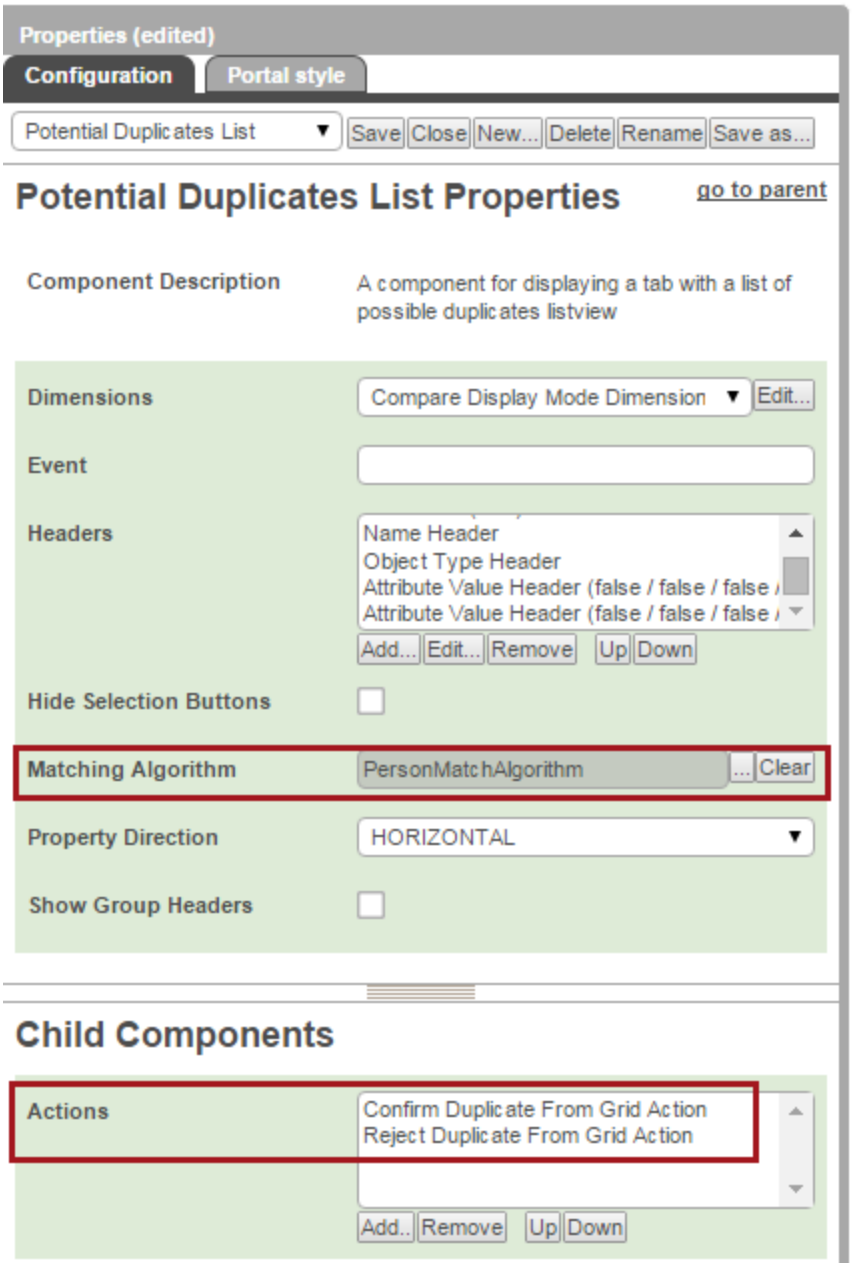
A new Web UI component has been created that allows the end user to view potential duplicates in a table to compare values. From here, it is possible to either confirm or reject these potential duplicates. This allows users to more easily carry out deduplication activities in the Web UI.



	Score	Matching Algorithm	ID	Name	Object Type	Contact Name	Phone Number
John Smith	-	-	CON_107842	John Smith	Contact	John Smith	+1 770 555 9876
John Smith	100	Person Match Algorithm	CON_111252	John Smith	Contact	John Smith	

From the table, users can select any record and mark it as confirmed or rejected using the buttons above the table.

The Potential Duplicates List component can be added to any Node Details or Tab Control / Tab Page component and allows administrators to configure the table to display any attribute values or groups, as well as the matching score and algorithm which are included by default. If a matching algorithm is selected, only results generated by that algorithm are displayed. If no matching algorithm is indicated, results from all relevant algorithms are shown. In addition, the component must be configured to include the Confirm and Reject actions if desired.



For more information on configuration of this component, see the Potential Duplicates List section of the Web UI Getting Started documentation (Potential Duplicates List).

Considerations and Limitations

- The Potential Duplicates List component is available on the Node Details and Tab Control/Tab Page components only.
- As the Potential Duplicates List component uses a Matching Score and Algorithm to identify potential duplicates, these must have been previously created in the STEP Workbench. For more information, see the 'About Match Codes and Matching Algorithms' section of the Data Quality documentation.

Enhanced Multi-Reference Editor Functionality in Web UI

Summary

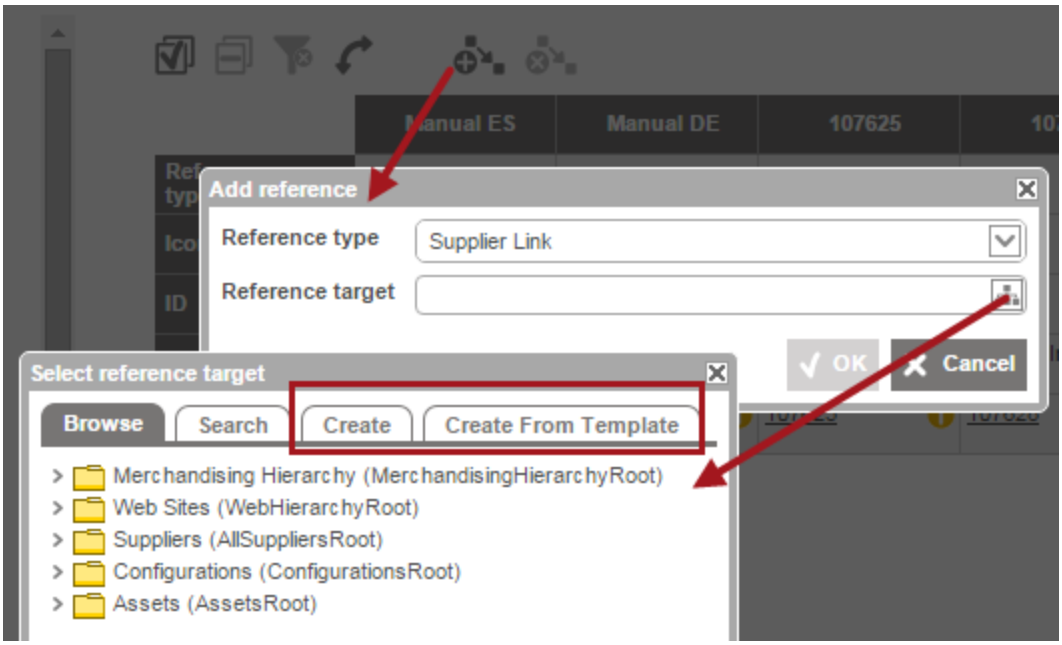
The Multi-Reference Editor component in the Web UI allows users to view objects referenced by (or referencing) a selected object. Previously, users were able to add new references to the selected object by selecting from *existing* objects. This component now includes the option to create a reference to a *new* object, allowing users to easily create new references without having to navigate away from the selected object. In addition, an option has been added to create the new target object from a template, allowing for auto-population of attribute values.

The Multi-Reference Editor component has also been updated to include a new header option that provides a visual indicator on objects that are referenced by more than one object. This allows users to easily identify shared objects and helps to prevent unintended data changes.

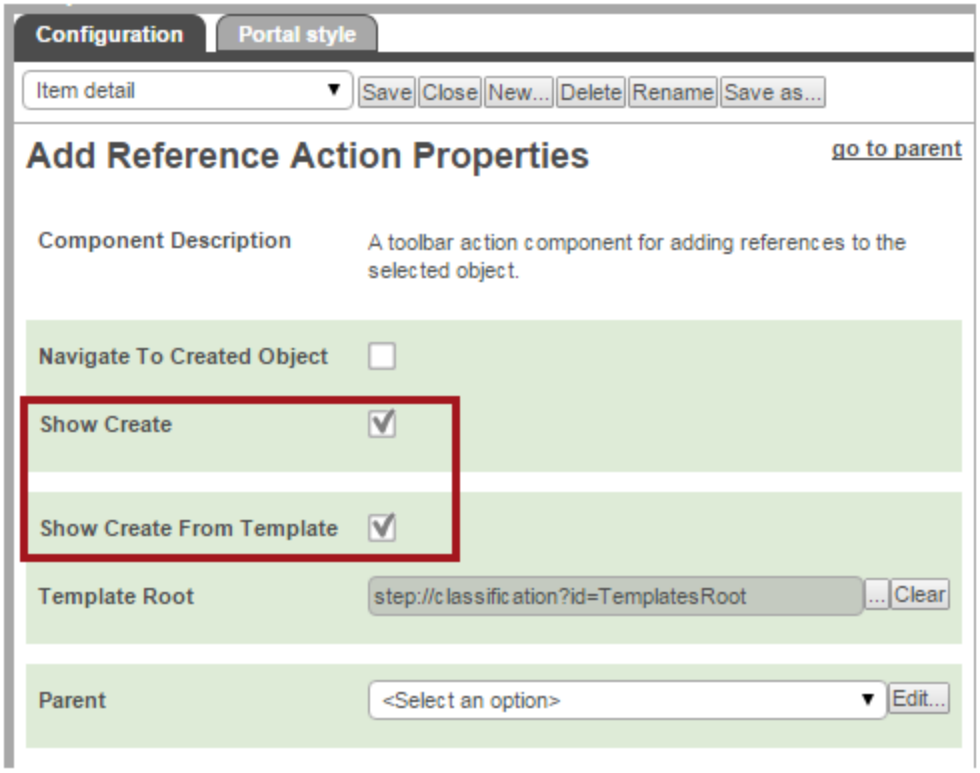
Details

Create References and Target Objects Simultaneously and from a Template

The Add Reference Action component opens a dialog with standard Search / Browse tabs for users to select an existing object to reference. If configured to do so, this dialog now includes the Create and Create from Template tabs to allow users to create new objects to reference rather than having to choose from existing objects only.



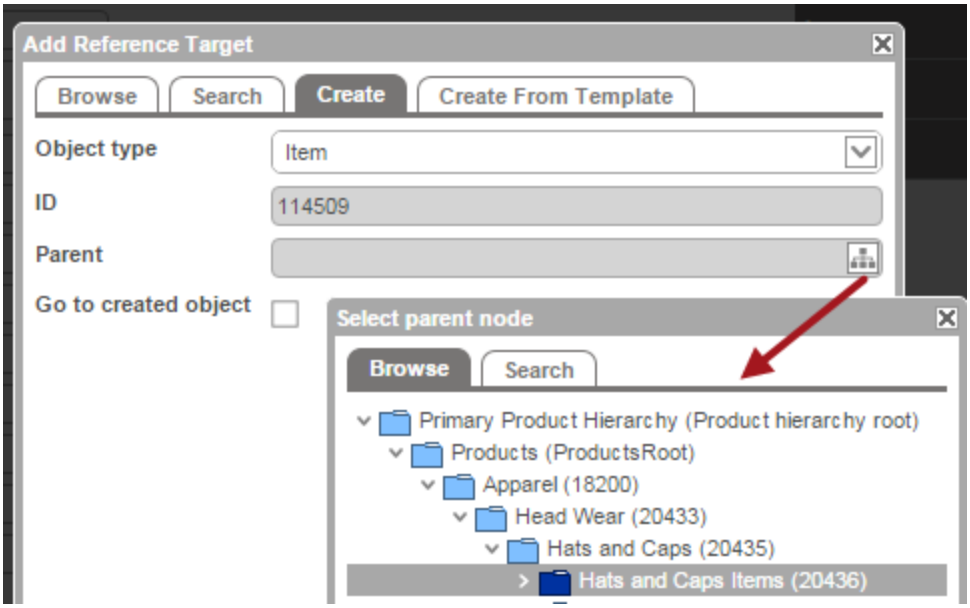
For backwards compatibility, the new tabs are omitted by default but can be enabled by checking Show Create and Show Create From Template, as desired.



If Create from Template is enabled, a Template Root should be selected. Any objects under the root are available for selection as a template for new object creation. This creates a new object with the same attribute links and values as the selected template object and references it to the selected source so that users need only to populate the subset of data that differs between the template and the new object. Note that the selected template must be valid for the selected reference type, and only a single Template Root may be selected. It is therefore recommended that a separate area be created for this purpose and that all existing objects that are allowed to be used as templates be linked into that area.

Whether Create or Create From Template is used, the configuration allows for the specification of a parent under which all new objects should be created. This is useful if the Multi-Reference Editor will only be used to create a single object type which will reside in a flat hierarchy structure. In this case, the Parent parameter should be set to use the Configured Parent Handler option and the parent handler must have a single parent selection.

Alternatively, the Parent parameter can be left blank (as shown in the configuration above), which will allow users to select any valid parent during the object creation process.

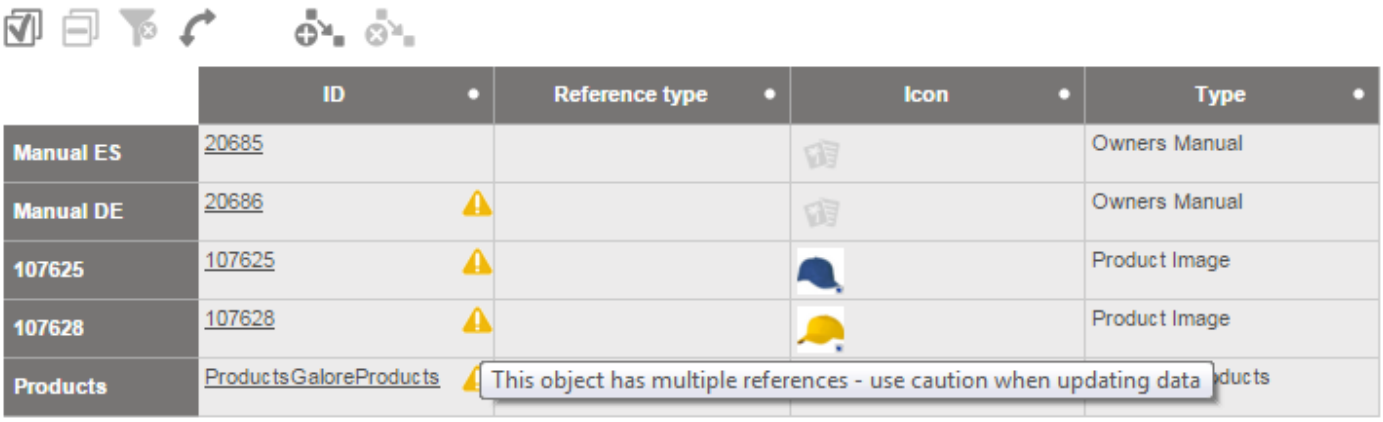


Note that users must select a valid object type and parent combination, and that the object type selection must align with the reference type selected in the first dialog.

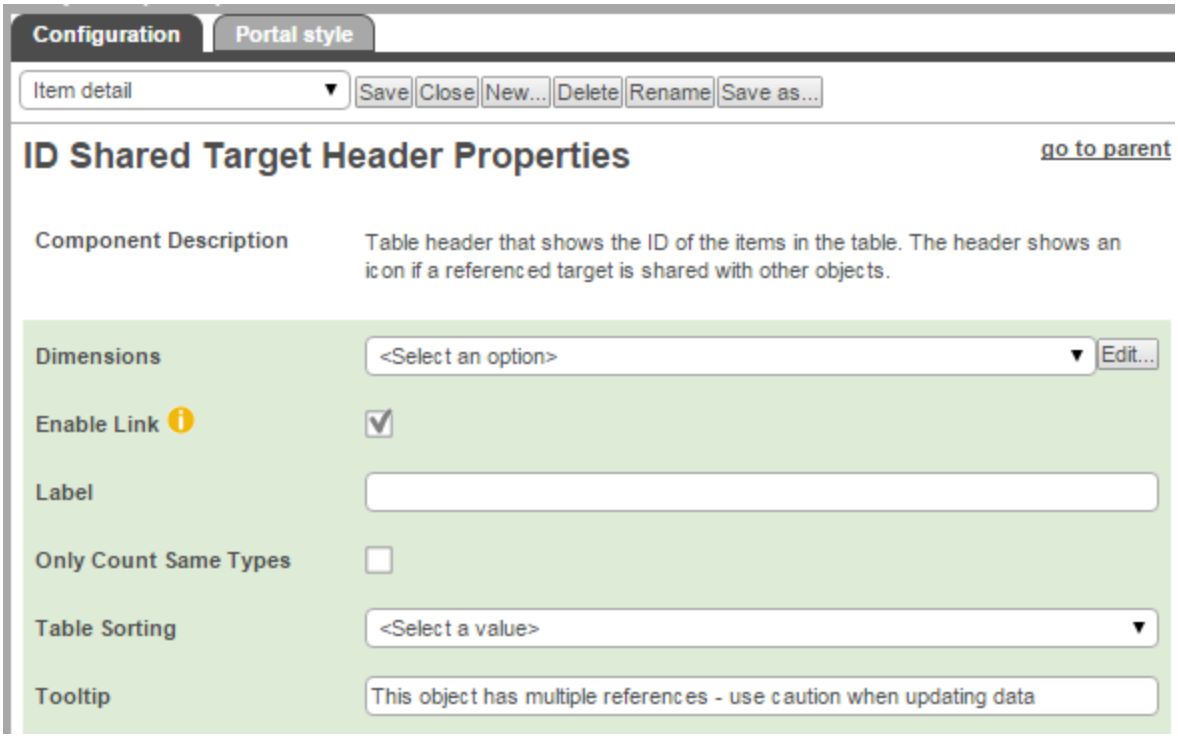
For more information see the Multi-Reference Editor section of the Web UI documentation.

Visual Indicator on Shared Objects

A new ID Shared Target Header has been made available for use in the Multi-Reference Editor. Addition of this header provides a visual indicator to end users that an object in the table is referenced by multiple objects. This serves as a warning to the user that updating data here will impact more than the selected referenced object, though they may still choose to proceed (assuming configuration of the editor allows for editing of data on the referenced object).



It is expected that the ID Shared Target Header will be used in place of the ID Header as it would be redundant to the end user to include both. The warning text displayed to the user when hovering over the icon is configurable, along with whether or not to have the object ID act as a live link to the shared object.



For more information see the Multi-Reference Editor section of the Web UI documentation.

Considerations and Limitations

- Create from Template functionality is available for Product and Entity object types only.
- Care must be taken in the configuration of the Add Reference Action component (and in particular of the Create and Create from Template options) to ensure that end users are provided with valid selection options. The selections for object type of the template (if used), object type of the object being created, parent, and reference type must all align to yield valid results based on the data model and configurations.
- When creating new objects from the Multi-Reference Editor, the ID field is editable unless the objects being created utilize auto-generated IDs.
- The Shared Target Header is available for use in any component that accepts headers, but is expected to be used primarily within the Multi-Reference Editor.

Enhanced Multi-Object Display Options in Web UI

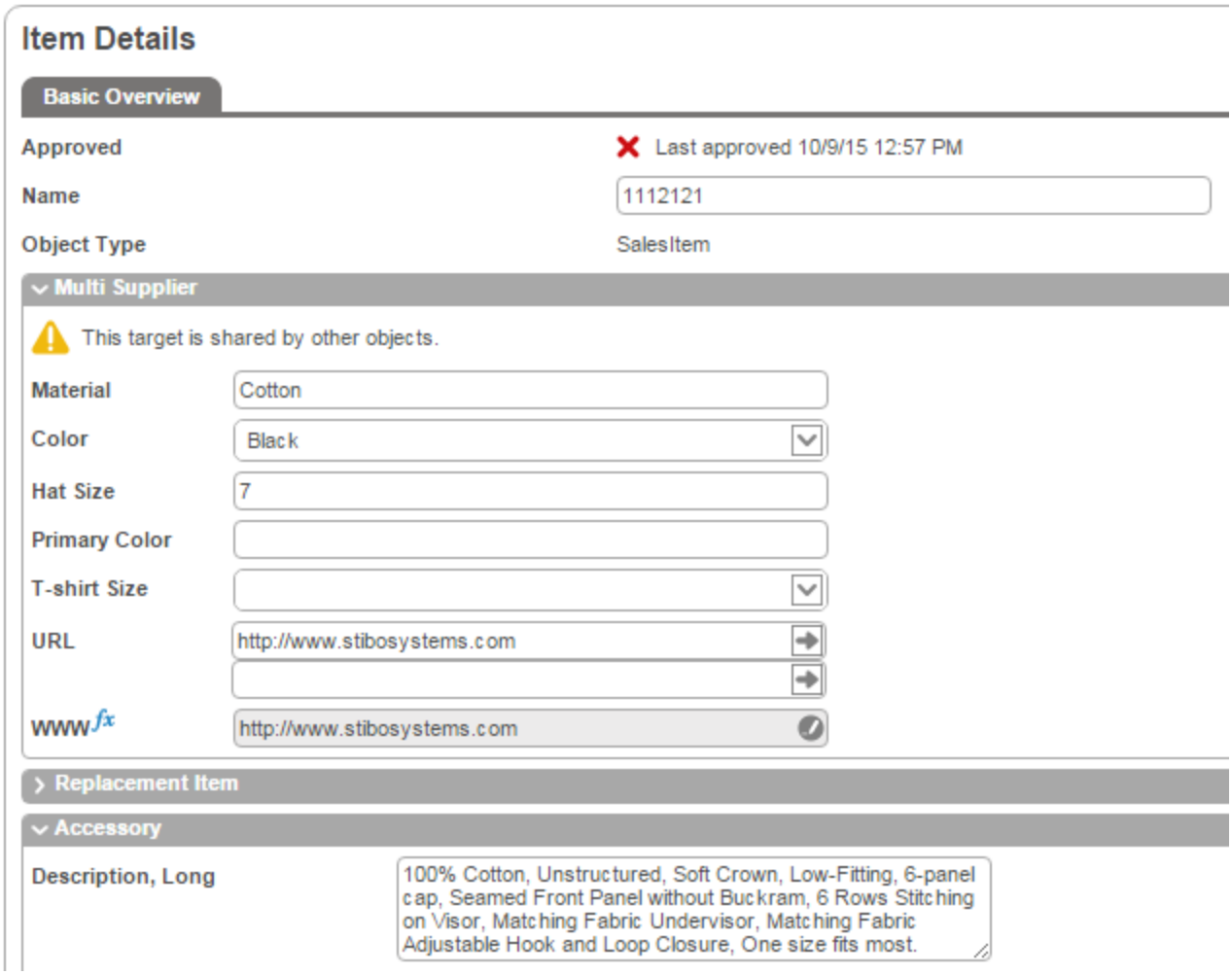
Summary

A new component has been added to the Web UI to allow for editing of an object and a referenced object in a simplified interface. This allows users to view and edit data on referenced objects without navigating away from the source object. This is especially useful when a simple interface is desired for the end user who does not need awareness that the underlying data model utilizes independent objects.

Details

The new Follow Single Reference component can be added any number of times to a Node Editor screen. This allows users to interact with a source object and any number of referenced objects in a single screen. Users can easily adjust or isolate focus by collapsing or expanding reference types as needed.

The Follow Single Reference component should only be used for references of which the *source* object has only a single target identified using that reference type. However, the *target* object may be referenced by more than one source, in which case a warning is displayed to the user to help prevent unintended data changes.



Additional information on the Follow Single Reference component can be found within the 'Follow Single Reference' section of the Web UI Getting Started documentation).

Considerations and Limitations

- The Follow Single Reference component is intended to display referenced objects where the *source* object has only a single reference of that type. If a source object has more than one reference of a given type, an error is displayed within that section and users cannot view or edit data on any of the referenced objects using that reference type.
- When using the Follow Single Reference component in conjunction with Approve actions, it is necessary to approve the target object(s) prior to approving the source object. It is therefore recommended that the Run Business Action component be used in place of the Approve Action so that a business rule handles approval of the target object(s) (in addition to approval of the source object).

New Option to Create and Initiate Objects in a Single Step in Web UI

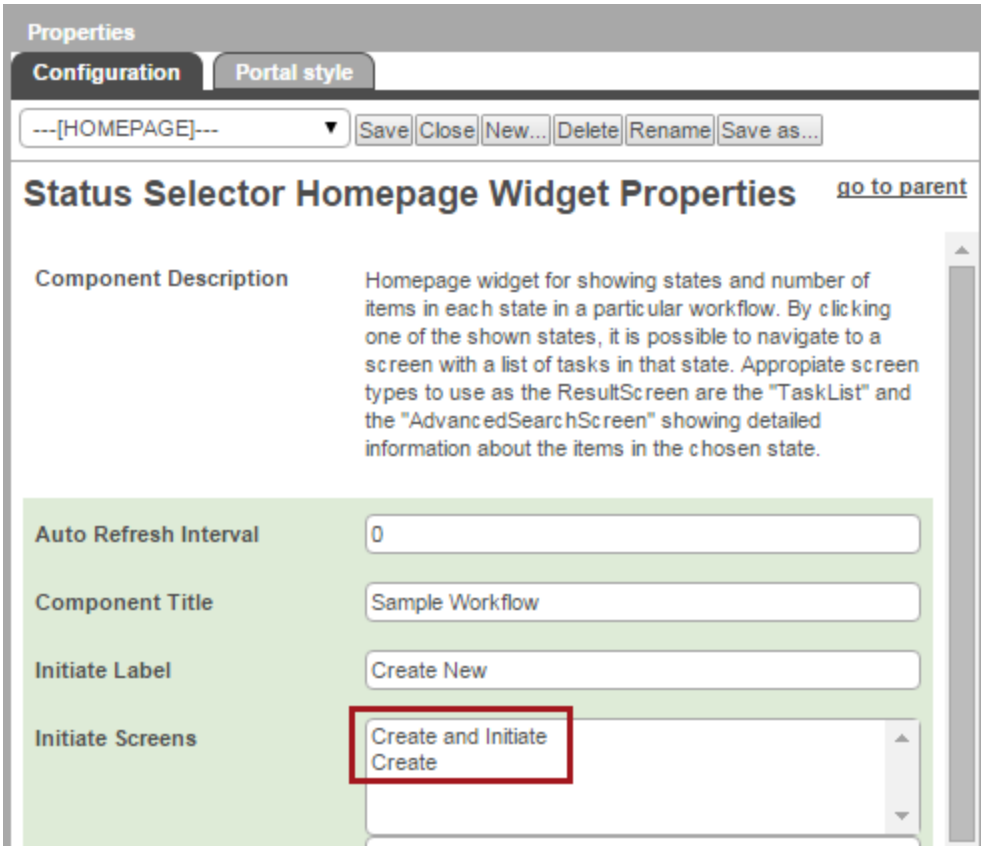
Summary

When creating new objects from a Status Selector component, users can now create and initiate objects into a workflow in a single step if the object type utilizes an auto-generated ID. This allows for more streamlined object creation by giving the option to bypass the Item Initiate screen.

Details

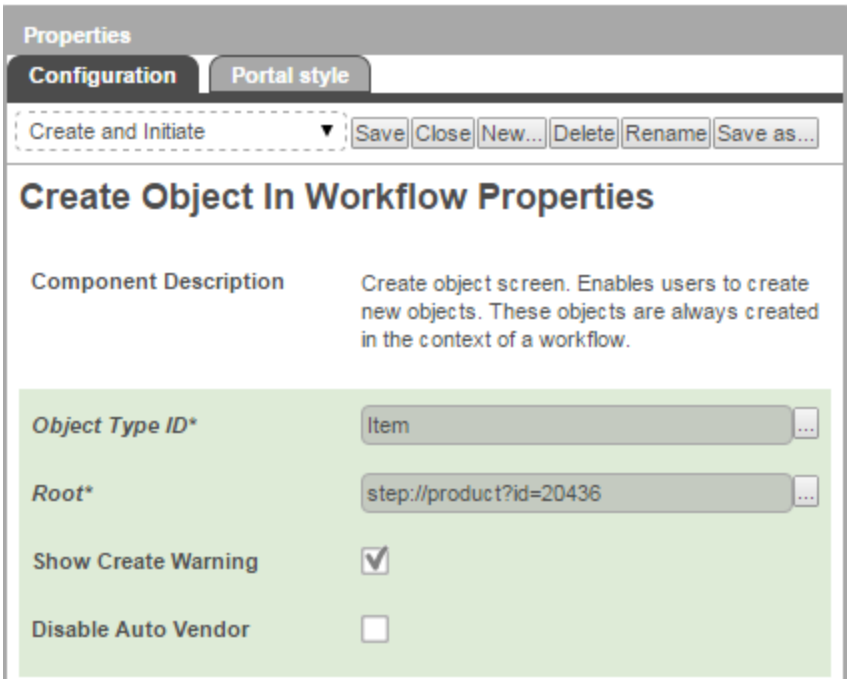
A new Web UI Screen type (Create Object in Workflow) has been added that, once configured, can be mapped as an Initiate Screen in a Status Selector component. This allows users to select to create and initiate an object in one step, rather than having to create it and subsequently submit the newly created object into a workflow. Upon creation / initiation, the user is taken to the screen mapped to the first state of the workflow.

In the above example, the Status Selector Homepage Widget has been configured to allow both a Create and a Create and Initiate option by mapping to both screens.



Alternatively, this could be configured with a single mapping, in which case the initiate action would create the object with a single click.

The Create screen uses a standard Item Initiate screen type, while the Create and Initiate screen uses the new Create Object in Workflow screen type. Configuration of this screen requires specification of the object type and parent of the created object. Note that the selected object type must utilize an auto-generated ID.



For more information on creating and initiating items into a workflow, please see Bypassing the Item Initiate Screen in the Workflows in Web UI documentation.

Considerations and Limitations

- Only object types configured to use an auto-generated ID can be created using the Create Object in Workflow screen type.
- Underlying user privileges are not applied to the Create Object in Workflow screen. Therefore, only users who should be allowed to create and initiate objects into the relevant workflow should be given access to the screen.
- All objects created using the Create Object in Workflow screen type are initially created under the same parent. It is therefore recommended that a subsequent workflow state require reparenting of the newly created objects, unless a flat hierarchy structure is desired.
- Care should be taken in configuration to ensure that the selected object type and parent root are compatible (and valid for the workflow), else the end user will receive an error when attempting to create / initiate.
- It is recommended that the Create Object in Workflow screen only be used for workflows that have a single start state. If, for example, business rules pass an object into parallel states upon entry to the workflow, users cannot be routed to a specific state and have the potential to see the object in either of the states in which a current task exists.
- If using the superseded Status Selector Widget (rather than the Status Selector Homepage Widget), only a single Initiate Screen can be selected.

Enhanced Task List Editing Capabilities in Web UI

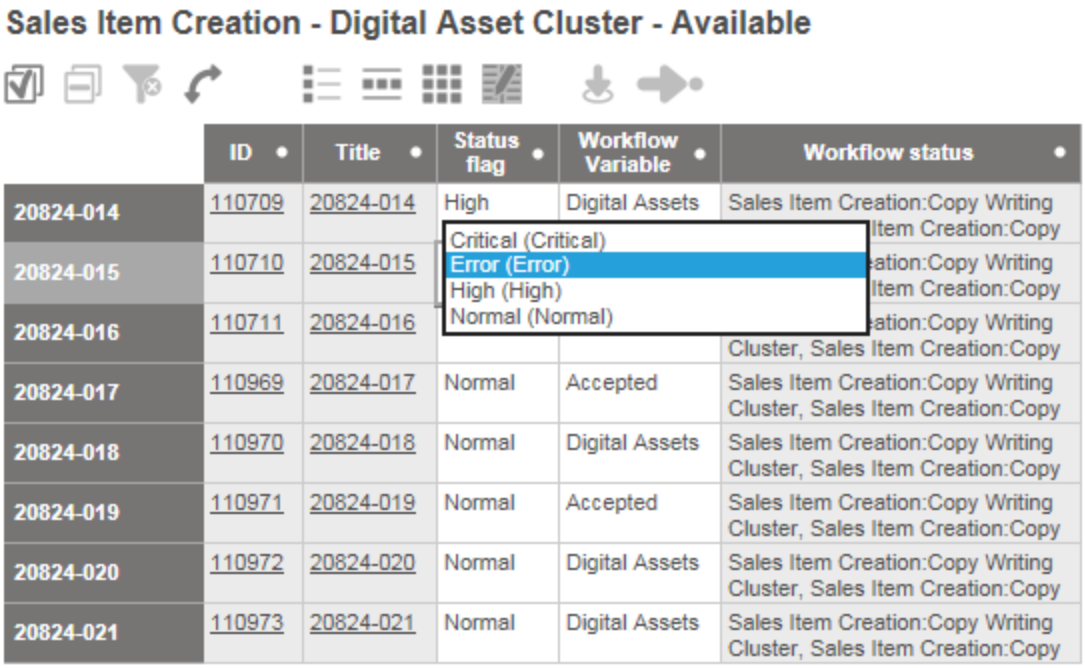
Summary

Users can now conveniently edit Workflow Variables and Status Flags directly from a Web UI Task List.

Details

When a Workflow Variable Header is configured on a Task List / Node List, the displayed values are editable by double-clicking in the table cell when utilizing the Multi Edit Display Mode. Editing capabilities vary based on the configuration of the variables and the attribute Validation Base Type. For example, a workflow variable with a List of Values (LOV) Validation Base Type will only allow users to select a value from the applicable LOV.

Functionality is similar for Status Flag Header values. A user can select between the different status flags that have been configured for the Workflow.



Note that if editability of workflow variables or status flags is not desired, it can be disabled by checking the 'Readonly' option in the component configuration.

For additional information on status flags, see the 'Working with Status Flags' section of the STEP Workflow documentation. The STEP Workflow documentation also includes information regarding workflow variables in the 'Variables' section.

Considerations and Limitations

- Prior to working in a Web UI Task List to edit values, initial configuration of Status Flags and Workflow Variables requires the use of the STEP Workbench System Setup tab and the STEP Workflow Designer.

Enhanced Workflow Screen Mapping Capabilities in Web UI

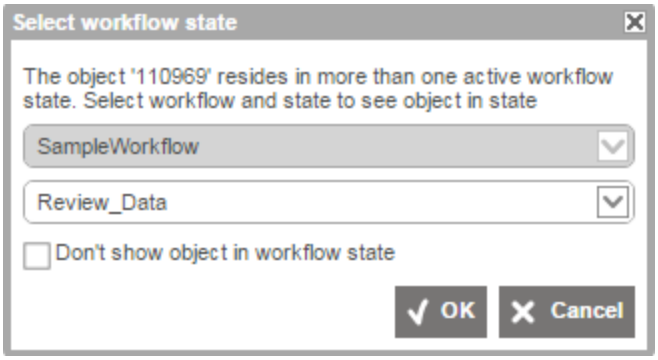
Summary

When selecting an object from an Advanced Search results list, it was previously not possible to direct the user to a specific interface based on the state of a particular workflow that the object was in. As workflow Status Selector widgets are often configured to display objects using an Advanced Search Task List, this meant that users would see the same screen for any object selected from that results list, regardless of what workflow or state it was in.

The mapping options from an Advanced Search Task List have now been updated so that users who wish to utilize different Task List screens per workflow and/or different Details screens per workflow state are able to accomplish this.

Details

When properly configured, a user clicking on an object in an Advanced Search Task List will be routed to the screen designated for display of objects in the particular workflow and state that the object is currently in. If an object is in more than one workflow, or in multiple states in the same workflow, a dialog appears for the user to specify the state they would like to see the object in.



For instructions on how to configure and map screens selected from an Advanced Search Task List to display based on workflow state, see the 'Mapping Task List to Workflow State' section of the Web User Interfaces documentation.

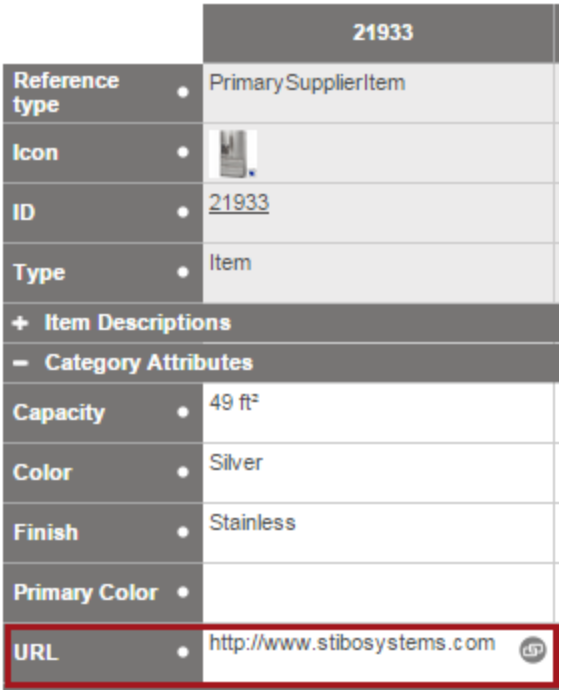
Enhanced Functionality of URL Attributes in Web UI

Summary

Users will now have increased functionality in the Web UI when a URL is populated as the value for an attribute set up with a URL Validation Base Type.

Clicking on attributes of URL Validation Base Type allows users to navigate to destination URLs. There are multiple uses and reasons to attach a URL link to an object. For example, a URL may be a link to an asset located on an external content distribution network.

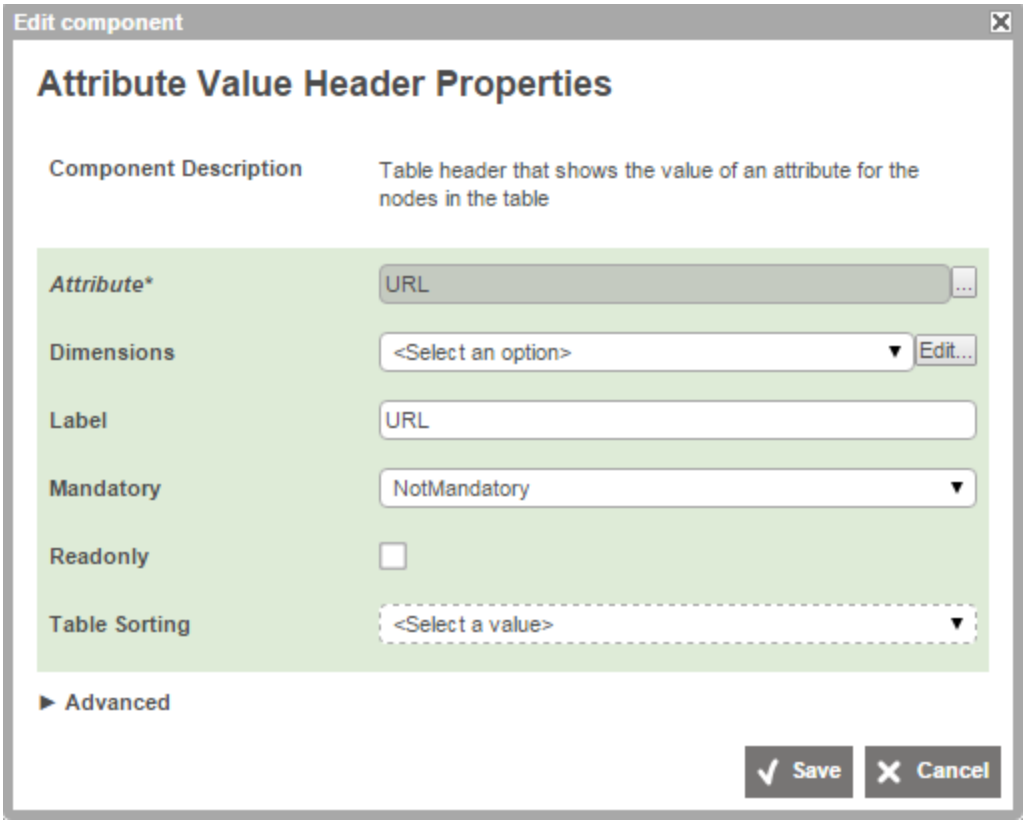
When a URL is configured to show in a cell within a Web UI table, an icon will appear next to the URL. Clicking this icon will take users to the target destination.



Details

Any component or screen using a Node List (e.g., Task List and Multi-Reference Editor) set up to display an attribute of the URL Validation Base Type through the Attribute Value Header component will automatically display the clickable icon and will not require any additional configuration.

This is similar to the way URLs are currently displayed and function in a value component on a Node Editor within Web UI and in the STEP Workbench.



Depending on the component or the display mode used for a Node List, clicking on a URL has different outcomes.

- Using Table Display Mode, Compare Display Mode, and Sequencing Display Mode, the clickable icon will appear next to the URL itself
- In Multi Edit Display Mode, the clickable icon will also display plus the URL will be editable

URL attribute values are clickable regardless of where the attribute lives (e.g., reference, product, classification, or asset).

If the URL is not showing in its entirety in the configured table, users may hover over the URL to view the entire path.

Read more about setting up attributes with a URL Validation Base Type in the Attributes section of the System Setup / STEP Super User documentation.

Considerations and Limitations

- If 'Readonly' is checked in the Attribute Value Header Properties when configuring the Node List, then the URL is still clickable but will be uneditable in Multi Edit Display Mode.
- All URLs entered into STEP require the protocol (http:// or https://) before the subdomain / domain.
- Users may need to adjust the Maximum Length value of the URL Validation Base Type attribute if adding long URLs. This validation rule can be set at the time of attribute creation or by editing the validation rule once the attribute has been added. The default value is 100 characters.

- Multi-valued URL attributes are supported, and each value has its own clickable icon. However, users may need to manually adjust the row height or column width to see all the values in a table cell.
- A click target is not available on a reference component or components that are not using a Node List as a child component or when using Gallery Display Mode, Filmstrip Display Mode, and Grid Display Mode.

New Table Header Sorting Option in Web UI

Summary

Web UI tables can now be configured to show table contents sorted by a specific header. This gives users more control to design tables and display them in a preferred order that better fits business needs.

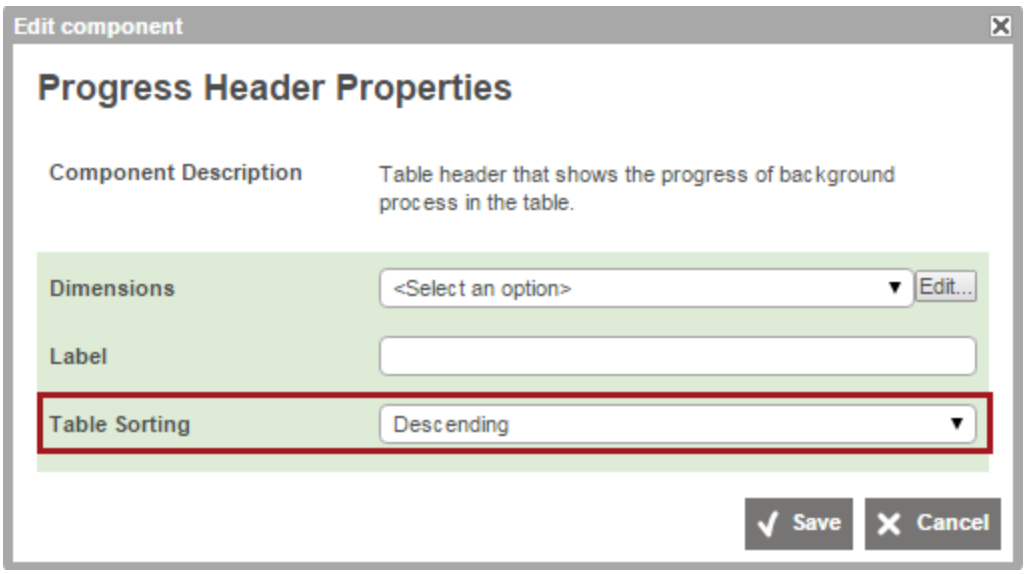
Details

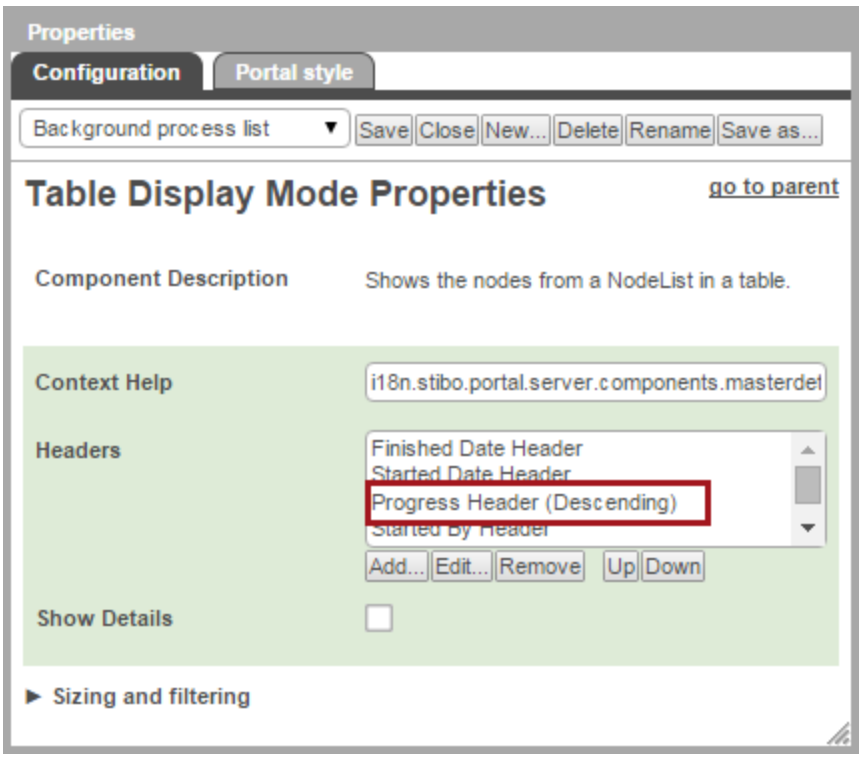
While configuring the headers in Display Mode properties, a user can choose to set up the table sort order based on a specific header.

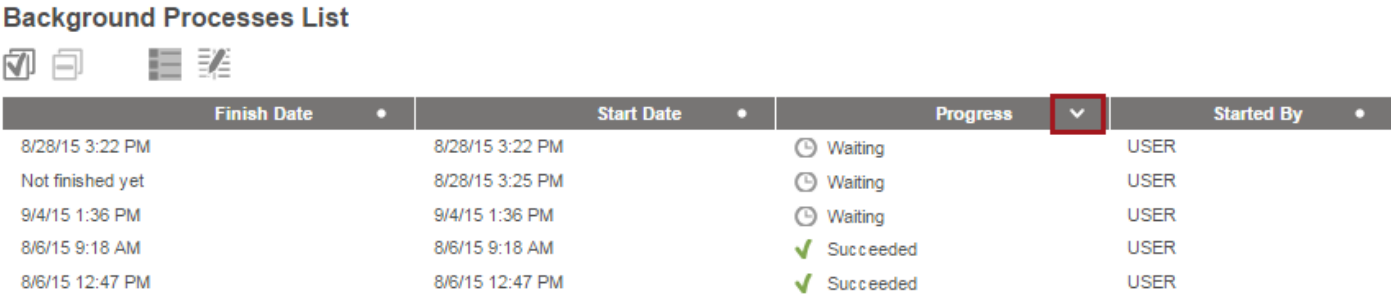
By editing a particular header's properties, sorting order (Ascending or Descending) can be designated using the Table Sorting dropdown. Once the properties are saved, the table will re-sort itself based on the new header settings.

The Display Mode properties will be retained until configured differently.

In the following example, a Background Processes list is configured to display using Table Display Mode and is configured so that the table sorts by Progress Header in descending order. The Progress Header features an indicator letting the user know that this is the user-specified sortable header and what the sort order is.







If a Display Mode does not include headers (e.g., Gallery Display Mode and Film Strip Display Mode), then this feature is not applicable.

Considerations and Limitations

- The Table Sorting option is available for headers shown in a Display Mode, with the following exceptions: Web UI will not honor Table Sorting designations for the Status Flag Header and any headers configured in a Background Process Details screen and Sequencing Display Mode.
- The Table Sorting ascending / descending designation can only apply to one header at a time. It has to be removed from one header before set up on another, or removed altogether, before the properties can be saved. Users cannot sort by multiple headers at one time in STEP tables, regardless of the Table Sorting setting.

- If 'Enable Default Sorting' is enabled / selected and a Default Sorting Order is configured for the Node List, selecting a table header to sort in ascending or descending order overrides these Node List properties settings.

Enhanced Calculated Attribute Functionality in Web UI

Summary

Users will now find it much easier to work with calculated attributes in Web UI due to three key enhancements:

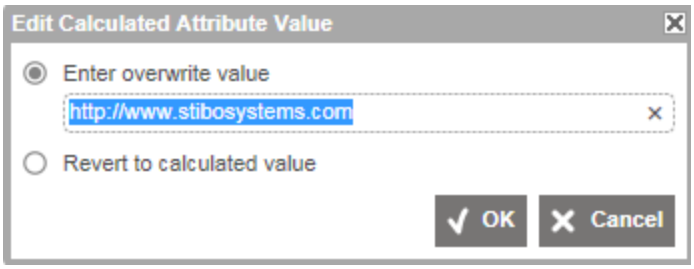
- Support for editing calculated attributes
- Visual indicator on calculated attributes
- Visual indicator on overwritten calculated attributes

Details

Editing Calculated Attribute Values

To make edits to calculated attributes shown in a Node Details screen, there is an edit icon displayed to the right of the attribute value.

Clicking the edit icon will bring up an 'Edit Calculated Attribute Value' dialog box with two options:



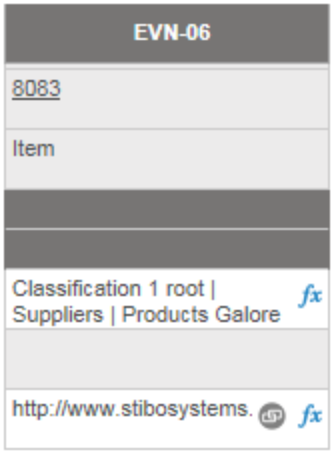
The default setting is 'Enter overwrite value.' However, if previously overwritten, a user may also choose to revert to the calculated value, if needed.

When calculated attributes are configured to display in a Node List, the user will simply double-click in the table cell to edit, as is consistent with editing functionality throughout Web UI table components.

Visual Indicators on Calculated Attributes

Calculated attribute values configured to display using the Node Editor or Node List components are now identified on screen using function icons:

- fx indicates a calculated attribute displaying the calculated value



- indicates a calculated attribute displaying an overwritten (edited) value

Read more about calculated attributes in Web UI in the Web User Interfaces documentation.

For information about setting up and using calculated attributes, see the Attributes section of the System Setup / STEP Super User documentation.

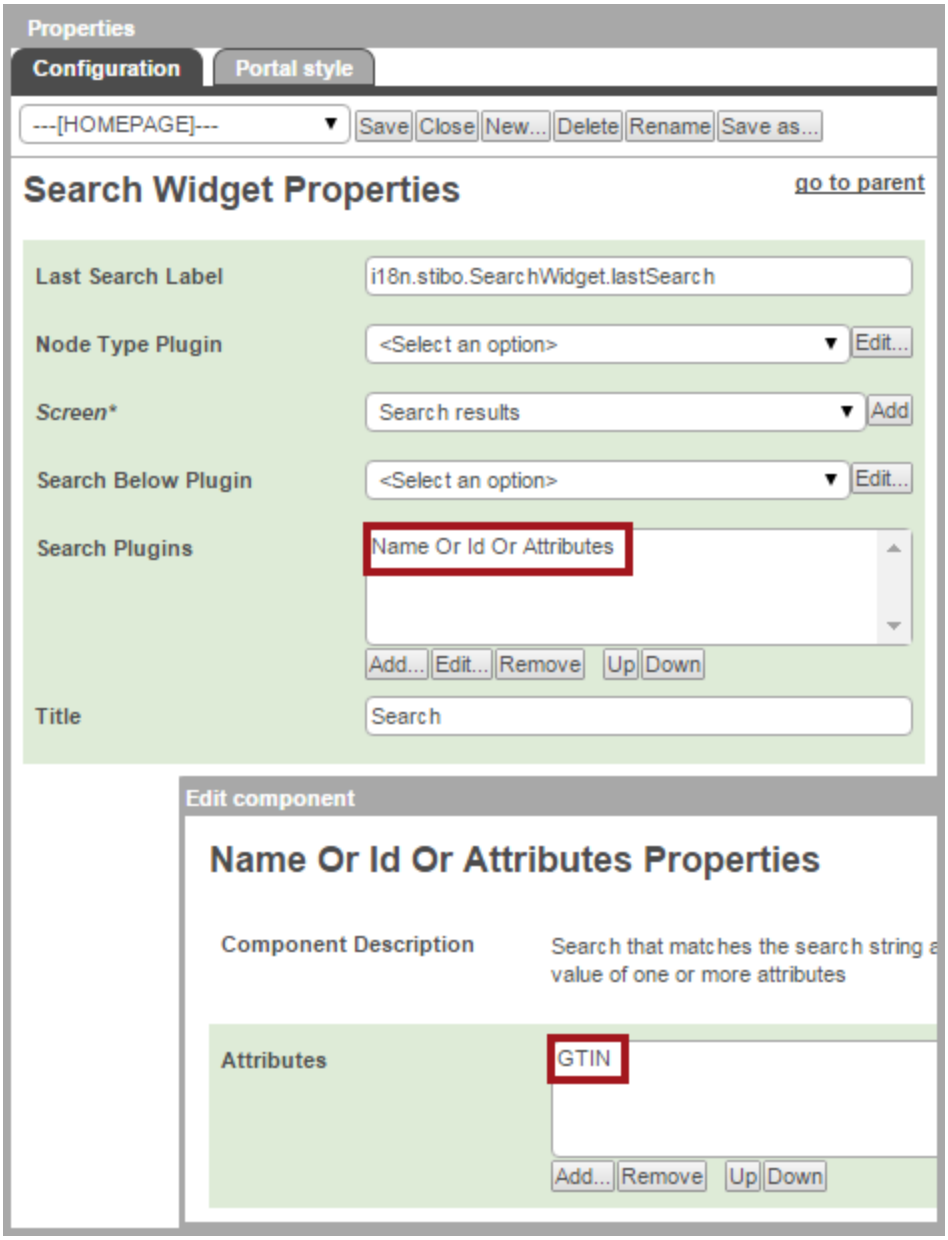
New Multi-Attribute Search Component in Web UI Search Widget

Summary

The existing Name Or Id Or Specific Attribute search component has been replaced with a new Name Or Id Or Attributes component to be used in the Web UI Search Widget. The new component searches object Name and ID by default, but can also be configured to support one or more attributes, allowing users to easily search for values in multiple attributes.

Details

The Name Or Id Or Attributes component is configured via the Search Widget Properties.



The Name Or Id Or Attributes component supersedes the Name Or Id Or Specific Attribute component, which required users to add the component multiple times and configure a single attribute for each instance if they wished to search within multiple attribute values. The new component can be configured to search multiple attributes at one time so it is no longer necessary for users to add the component multiple times to search multiple attributes.

For example, consider the following:

Object A:

- Attribute 1 value: xyz
- Attribute 2 value: abc

Object B:

- Attribute 1 value: xyz
- Attribute 2 value: xyz

Previously, when a user searched for attribute value xyz in Attribute 1 and Attribute 2, the Name Or Id Or Specific Attribute component acted as an AND operator and only Object B was included in the results.

Using the new Name Or Id Or Attributes component, searching for xyz will return Object A and Object B in the results since the component uses an OR search operator.

Considerations and Limitations

- The existing Name Or Id Or Specific Attribute component is still available to ensure backwards compatibility, but it is expected that new Web UI configurations will use the Name Or Id Or Attribute component.
- A single attribute or multiple attributes must be indicated in the Name Or Id Or Attributes Properties Attributes field using the Add button. Adding an attribute group will not provide the desired results.

Enhanced Attribute Value Search Operators in Web UI

Summary

When setting up Advanced Search criteria in Web UI, users have four additional operators to choose from when doing attribute name / value searches.

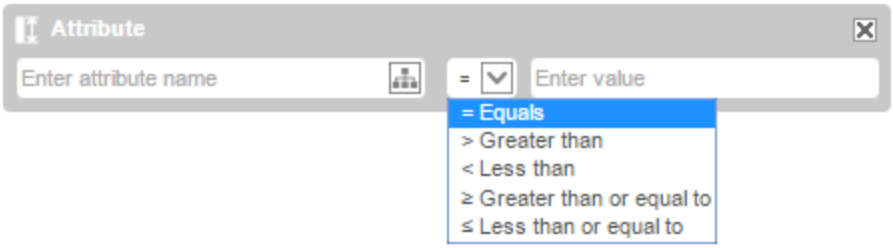
They are:

- Less than (<)
- Less than or equal to (≤)
- Greater than (>)
- Greater than or equal to (≥)

Expanding the functionality beyond the equals (=) operator allows for more comprehensive searches and applies to all types of attribute validators including numbers, ISO dates, and text. For instance, being able to search for less than or greater than a specific numeric value is an effective way to search for a set of objects that comply with a threshold limit value.

Details

The Value Search Descriptor (Attribute), References Search Descriptor (References), and Referenced By Search Descriptor (Referenced By) Advanced Search criteria all include an attribute name / value search. To narrow search criteria for more effective searches, a new dropdown selector displays five operators users can choose from.



Examples:

Attribute Search	Expected Results
Number Search: >9	Objects with a numeric value of 10 or above will be returned.
ISO Date Search: <2015-10-12	Objects with an ISO date value before 12-OCT-2015 will be returned.
Text Search: <D	Objects with an attribute value that starts with the letters A, B, or C (letters prior to D) will be returned.

Searches done on lists of values (LOVs) follow the same rules and expectations, depending on the validator for the LOV.

For more information about using Advanced Search in Web UI, see the 'Using Advanced Search' section of the Web User Interfaces documentation.

Considerations and Limitations

- The less than and greater than numeric value search operators cannot be used in other search components in Web UI (e.g., Generic Search, Search Widget, Search Panel, and Corner Bar Simple Search).
- LOV searches are done on the LOV value and not on the ID (if the LOV uses IDs).
- When doing date searches, it is recommended that greater than / less than search operators only be used with ISO date attributes. Using these operators with standard date attributes may not return the expected results.

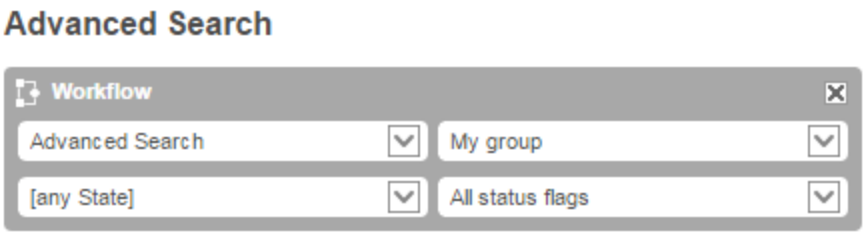
Enhanced Web UI Advanced Search Workflow Criteria to Include Status Flags

Summary

The existing Workflow search criteria in Web UI Advanced Search has been updated to include an option to refine searches using Status Flags. This allows users to search for items based on priority, as well as to be directed to a Task List containing only the selected priority items when navigating from a Status Selector.

Details

The Workflow Search Descriptor (Workflow) criterion in Advanced Search has been updated to include a new parameter called Status Flag Enabled. If enabled, the status flag dropdown will appear on all workflow search criterion.



For additional information on search criteria, see the 'Advanced Search Initial Configuration' section of the Web User Interfaces documentation.

Considerations and Limitations

- This new parameter is a global selection, meaning that if checked, the Status Flags filter will appear as part of all workflow search criteria, even if not applicable for a particular workflow. However, the criteria is optional and may be left blank if filtering by status flags is undesired or not applicable.

Smartsheet Enhancements

Summary

Several enhancements have been made to improve Smartsheet functionality across STEP systems.

These new features include options to:

- Select an unlimited number of product object types during Multi-Object Smartsheet exports
- Delete / replace references during Smartsheet imports
- Configure Smartsheet Import and Export Background Processes to run in designated queues
- Lock cells that contain conditionally displayed values during Smartsheet export

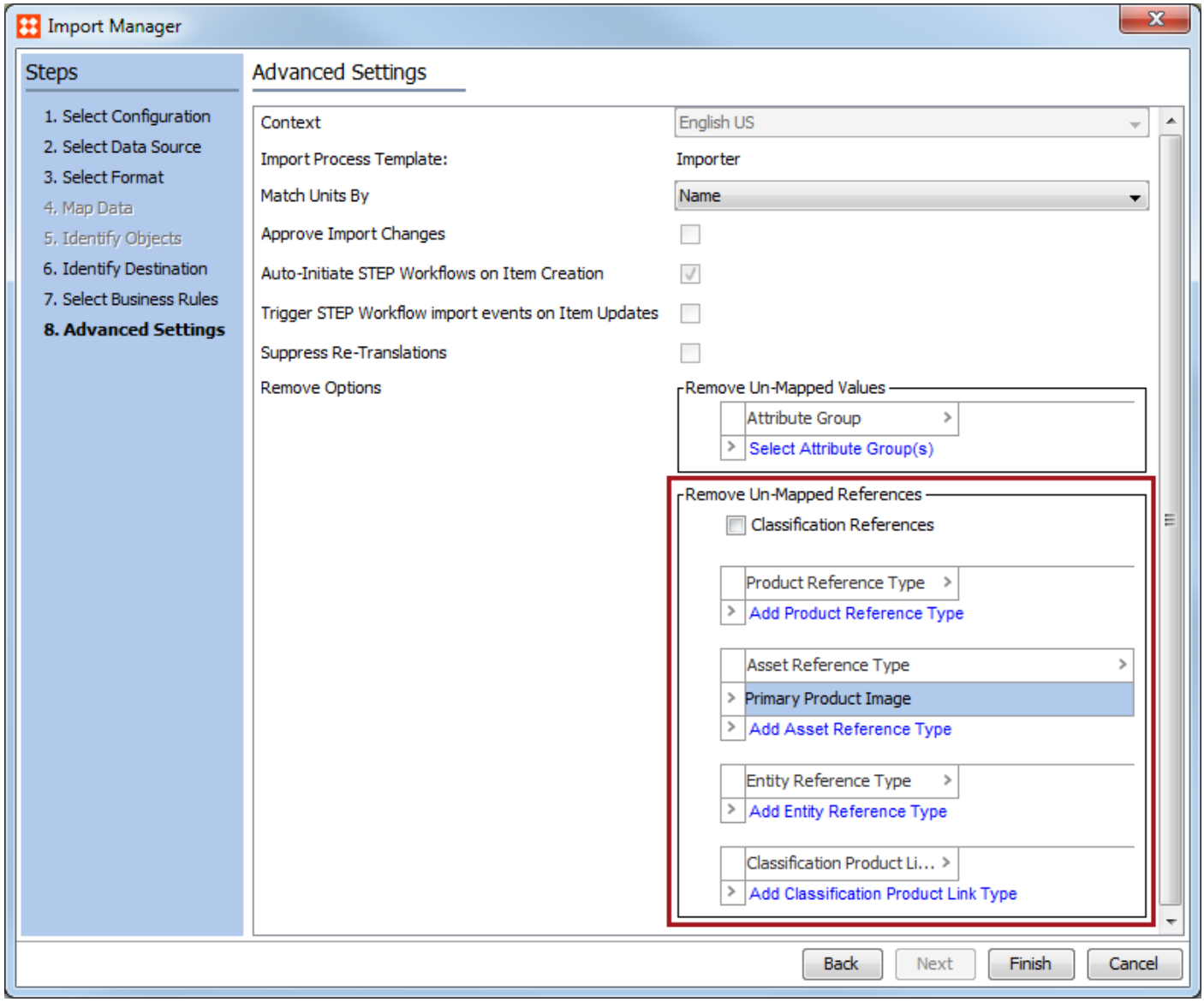
Details

Unlimited Object Types in Multi-Object Smartsheets

An unlimited number of product object types can now be included in Multi-Object Smartsheet exports. Previously, it was not possible to select more than five object types.

Delete and Replace Asset References During Import

It is now possible to delete / replace references when importing a Smartsheet. Reference values can be cleared or replaced by selecting them during the final step in the Import Manager Smartsheet import configuration.



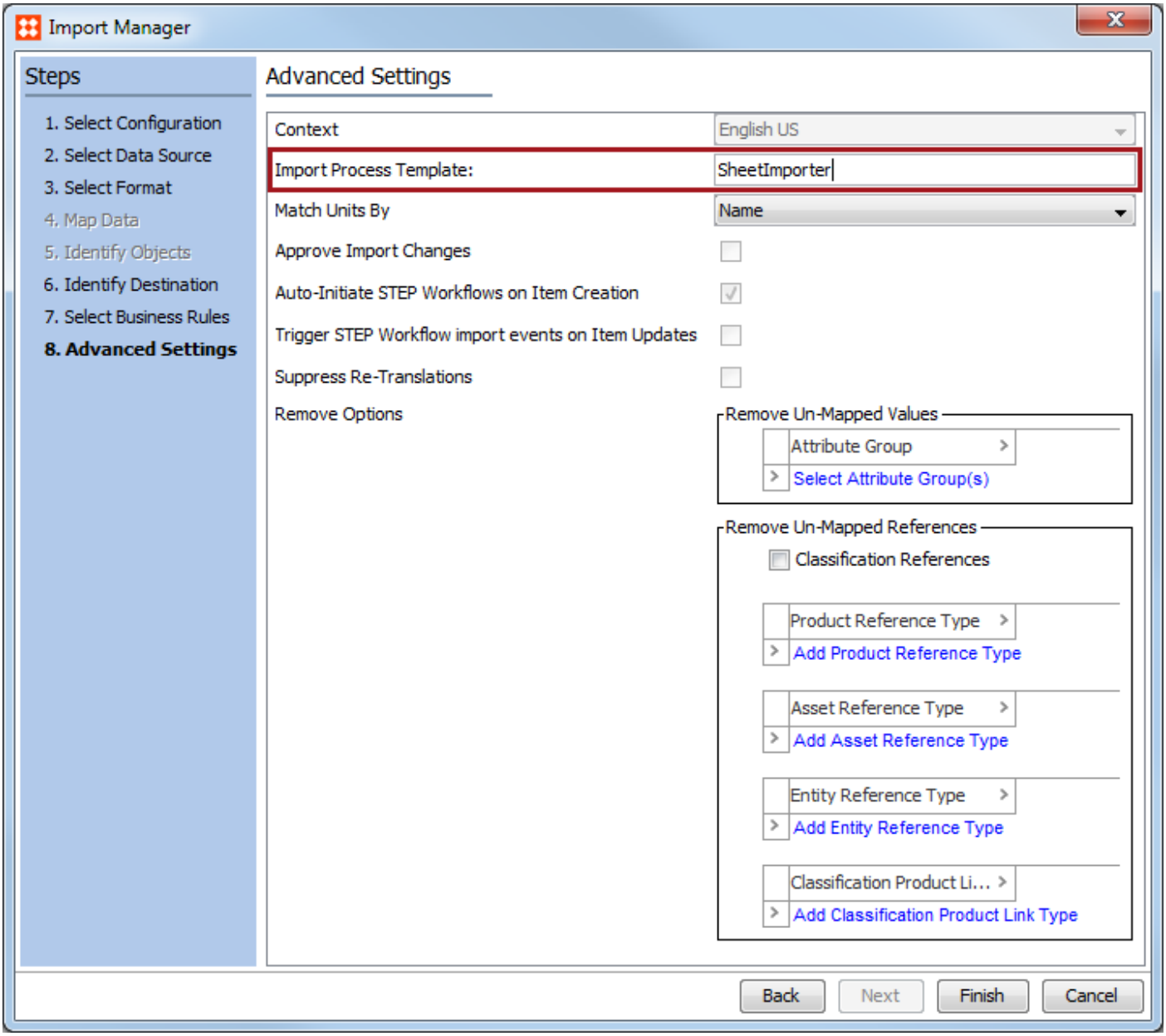
In the above example, the asset reference Primary Product Image will be replaced by any new values included in the Smartsheet import. If the value of a reference is blank on the Smartsheet, the import will clear the value from the corresponding product in STEP.

See the 'Importing Smartsheets' topic within the 'Import Manager' section of the Smartsheet documentation for more information.

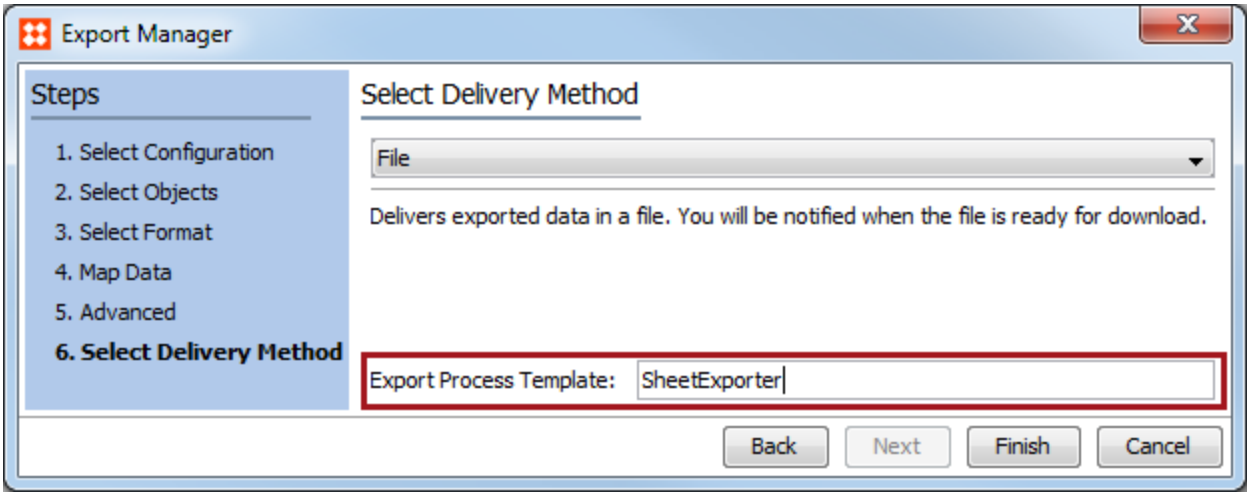
Run Smartsheet Import and Export Processes in Designated Queues

It is now possible to run Smartsheet imports and exports on unique queues so that they are not competing for resources with other import and export processes. Previously, Smartsheet imports / exports would queue up behind other imports / exports, which could result in delays for the end user.

Two new process templates have been designed specifically for importing and exporting Smartsheets, enabling users to run these processes alongside other exports and imports. To use the import template the user must enter 'SheetImporter' in the Import Process Template field on the final step of Import Manager.

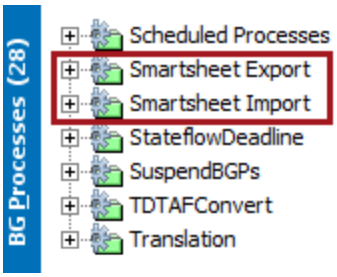


Similarly, to use the export template the user must enter 'SheetExporter' in the Export Process Template field on the final step of Export Manager.



Note that 'BackgroundProcess.ProcessType.SheetExporter.Queue' and 'BackgroundProcess.ProcessType.SheetImporter.Queue' default to the same queue as Export Manager and Import Manager, and must be changed to have unique queue names in the sharedconfig.properties file before they can run in their own queues.

Once the process templates and corresponding properties have been correctly configured, users will see the new queues on the Background Processes tab.



See the 'Smartsheet Background Processes and Queues' section of the 'Smartsheet' documentation for more information.

Lock Cells Containing Conditionally Displayed Values When Exporting Smartsheets

When exporting products with conditional attributes any cells containing invalid conditionally displayed values will be automatically locked for editing. Previously, these cells were editable on export and would only lock after validating the sheet.

	B	C	D	E
9	Validate sheet Next error			
10	* <ID>	<Name>	Fit	Flex Fit
11	101567	20808-013		
12	110190	Hat123		Yes
13	12345-001	A		
14	17739	1112121		Yes
15	20808	20808-012		
16	23456-002	B		
17	34567-003	C		
18	45678-004	D		

In order to unlock the cell and make changes, the user must first fulfill the proper conditions for the attribute and then validate the sheet.

See the 'Conditional Attributes' section in the 'Attributes' documentation for more information on setting up conditional attributes.

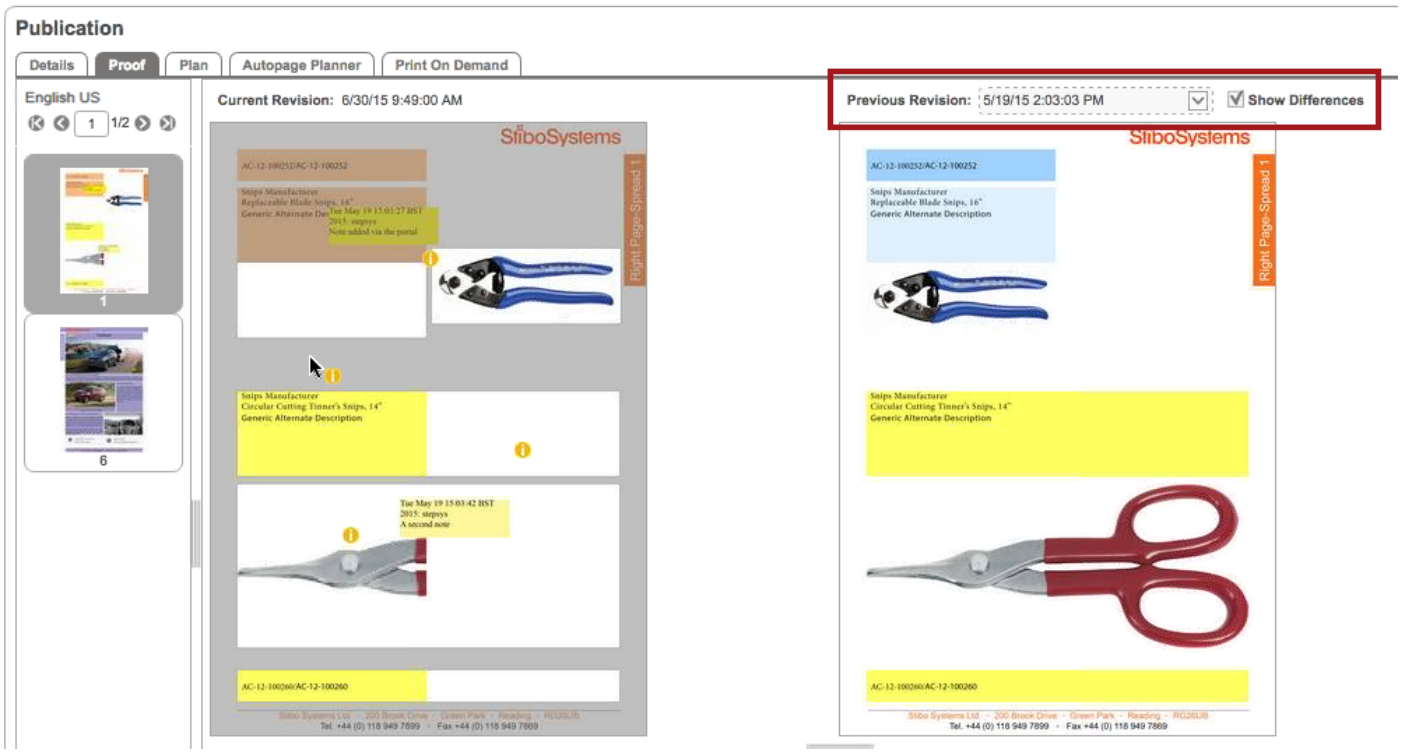
New Compare Page Revisions in Publishing Web UI

Summary

The Publishing Web UI now supports Revision Compare functionality for both Actual Pages and Flatplanner Planned Page spreads. This allows end users to easily compare page revisions by highlighting where changes have occurred.

Details

A new 'Revision Compare' toolbar enables viewing of the latest page revision on the left half of the screen and a previous revision on the right. The previous revision to compare to can be selected from the Previous Revision dropdown and differences can be highlighted by selecting the 'Show Differences' checkbox. This will result in the differences being highlighted on the latest revision while areas that have not changed are grayed out.



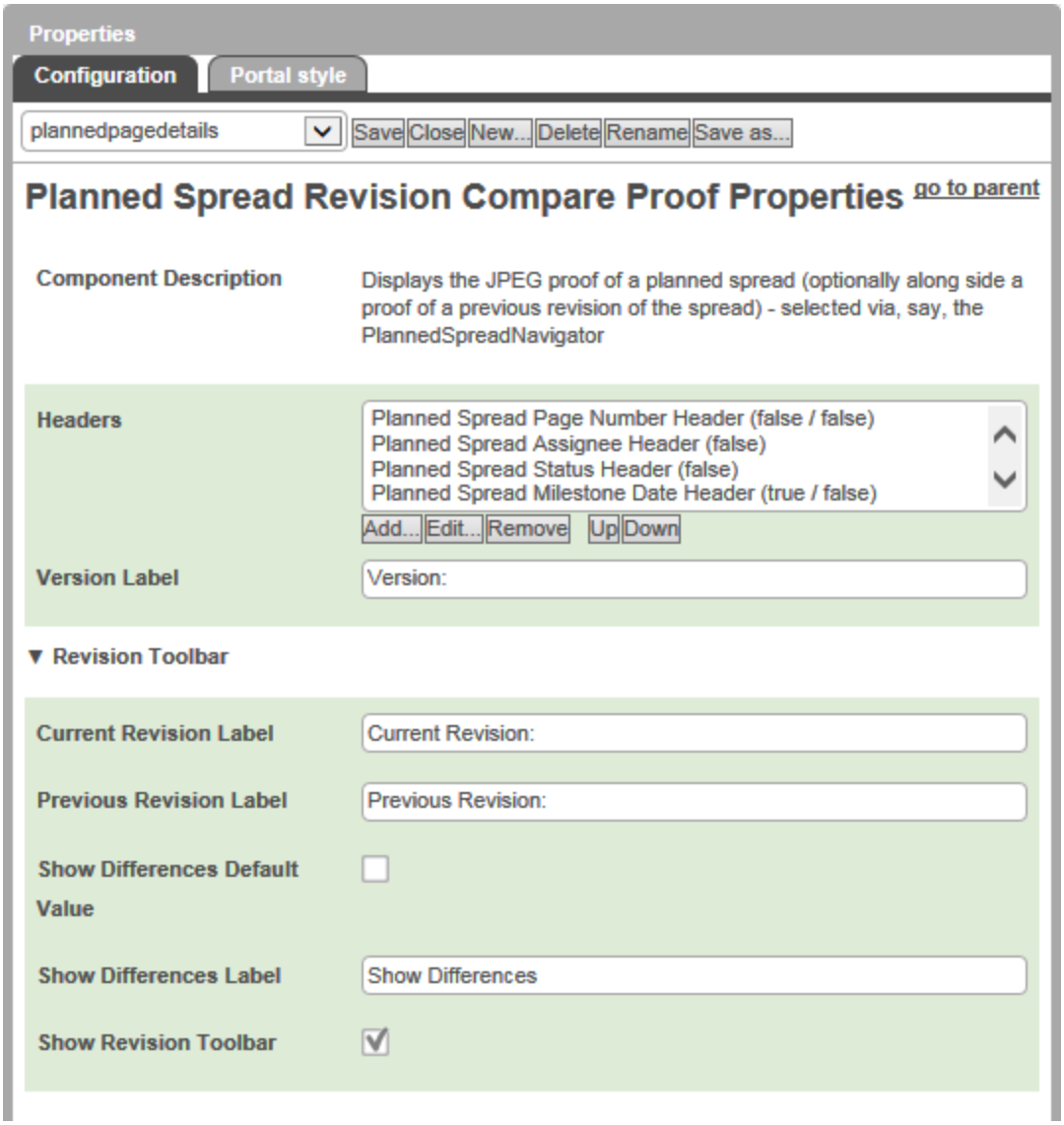
The system determines the differences between the two pages by looking at textual content changes and differences in space usage data. Text changes are highlighted whether the changes are made 'freehand' on mounted pages or if they originate from attribute value changes in STEP.

The Revision Compare functionality is available in the Publishing Web UI in the following components:

- Actual Page Revision Compare Proof
- Planned Spread Revision Compare Proof

- Planned Spread Revision Compare In Workflow

The Show Revision Toolbar option must be checked to enable the new functionality. If the box is not checked, the Revision Toolbar is not displayed and only the most recent page revision is visible.



For more information about Web UI publishing, see the 'STEP Publishing Web UI' section of the Publishing Web UI documentation.

For more information on Flatplanner Planned Page spreads and Actual Pages see the 'Overview of the Flatplanner User Interface' section of the Flatplanner documentation.

Considerations and Limitations

- The Actual Page Revision Compare Proof, Planned Spread Revision Compare Proof, and Planned Spread Revision Compare In Workflow Web UI components will automatically replace the previous Actual Page Proof, Planned Spread Proof, and Planned Spread In Workflow components.
- Planned pages must be mounted in InDesign and saved back to STEP before the Revision Compare functionality is enabled. Content changes to unmounted Planned Pages, e.g., replacing the content of a Flatplan frame, will not be highlighted as revisions.
- Users who have both a Flatplanner and Web UI license may compare revisions of mounted pages both from the Planned Spread Navigator and from the Actual Page Navigator in the Web UI. Users with a standard STEP Publisher (STEP'n'design) license can compare revisions of mounted pages from the Actual Page Navigator only.
- Though the Revision Compare feature will highlight changes in textual content, this feature is primarily designed to highlight differences in space usage between the two revisions. It does not highlight changes in images, frame colors, paragraph styles, or layouts if the space usage remains the same.

STEP’n’design and General Print Publishing Enhancements

Summary

The STEP Print solution has been updated in a number of ways across all components.

Additional Print Publishing enhancements that are applicable to only a single component are detailed in the relevant sections of the Trailblazer 7.4 Release Notes:

- AutoPage Enhancements
- Flatplanner Enhancements
- Publishing Web UI

Below, details can be found on enhancements and new features to STEP'n'Design that are applicable across multiple STEP Print licenses and components. These include:

- Changes to the supported versions of InDesign
- Removal of Publication Version dependency for Publication Templates and Product Templates
- New support for import and export of publications using Excel
- Enhanced Section move functionality to increase usability
- New support for Publications and Publication Sections in STEP workflows
- New validation of attribute transformations on Product Templates
- New warning to prevent users from unintentionally overwriting an inherited attribute value
- New activity monitoring options in the Admin Portal
- New option to manually sort templates in the STEP Workbench
- New option to sequence attributes on Publication hierarchy objects

Details

Updated InDesign Version Support

- Support for Adobe InDesign CC 2015 (CC11) is now available
- InDesign versions CS5 and CS5.5 are no longer supported from STEP Trailblazer 7.4 onwards
- Previously existing support for InDesign versions CS6 and CC 2014 (CC10) continues

Removal of Version Dependency for Publication Templates and Product Templates

Publication Templates and Product Templates are no longer tied to Publication versions, enabling both types of templates to be created and saved back to STEP without the need for a preexisting Publication. For STEP systems that do not come preloaded with a sample Publication hierarchy, this improvement removes the need to import a sample hierarchy before templates can be saved.

Note that a Publication Group object must preexist in STEP before templates can be saved to the system. In addition, Publication Templates and Product Templates must first be saved to STEP before Publications can be created.

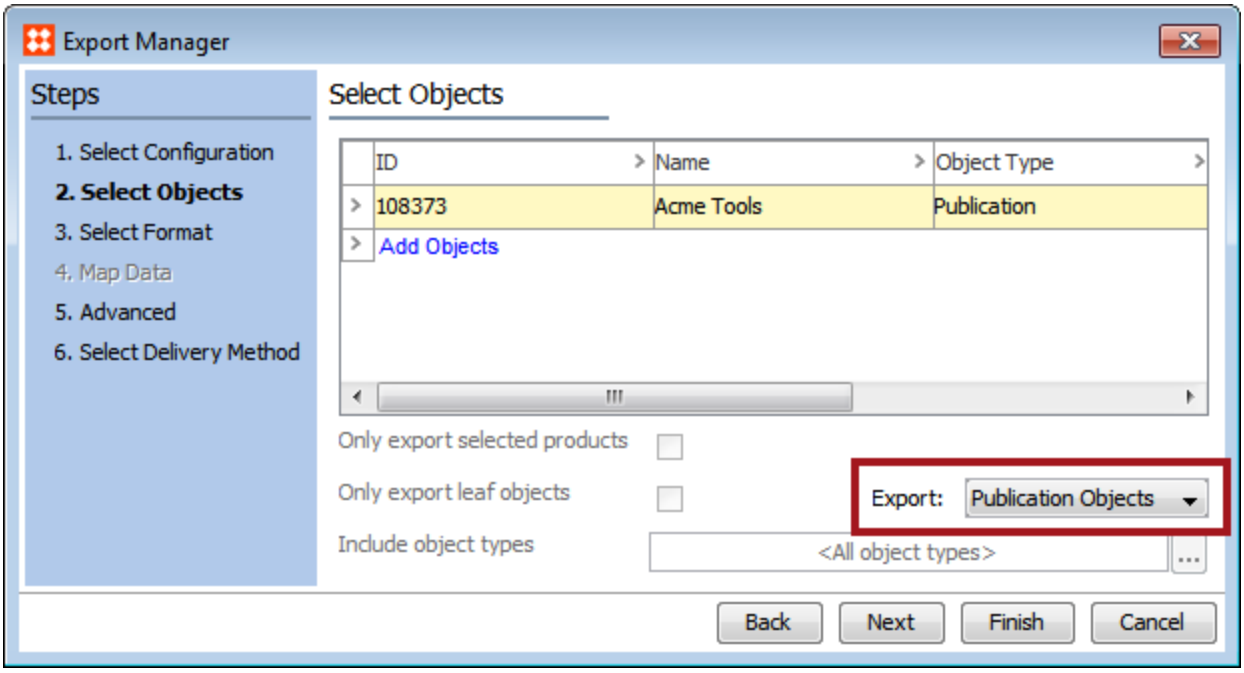
For more information on building and configuring Publication and Product Templates, see the 'Publication Template' and 'Product Template' sections of the STEP'n'Design documentation.

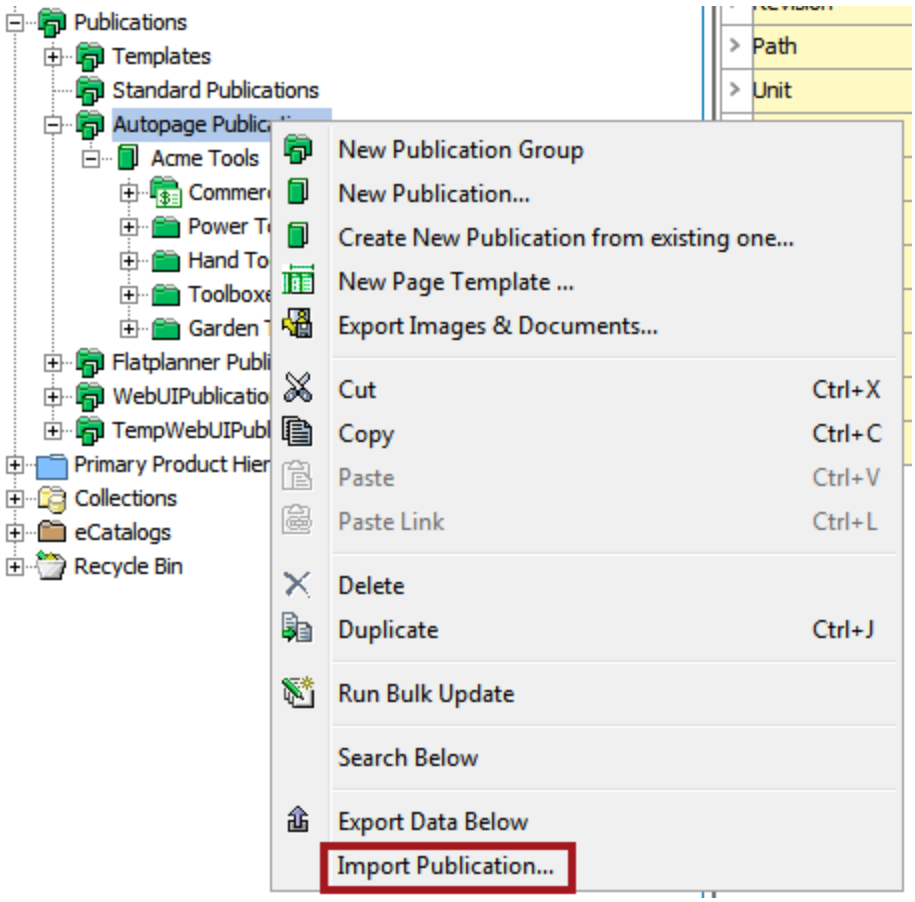
New Excel Support for Publication Imports and Exports

Export and import of publications is now available in an Excel format, called Publication Excel. This is available for use with STEP'n'Design, AutoPage, and Flatplanner publications. Publications can be both imported and exported in the Publication Excel format in the workbench. Publications can be imported in the Publication Excel format in the Web UI but support for Publication Excel export is currently unavailable in the Web UI.

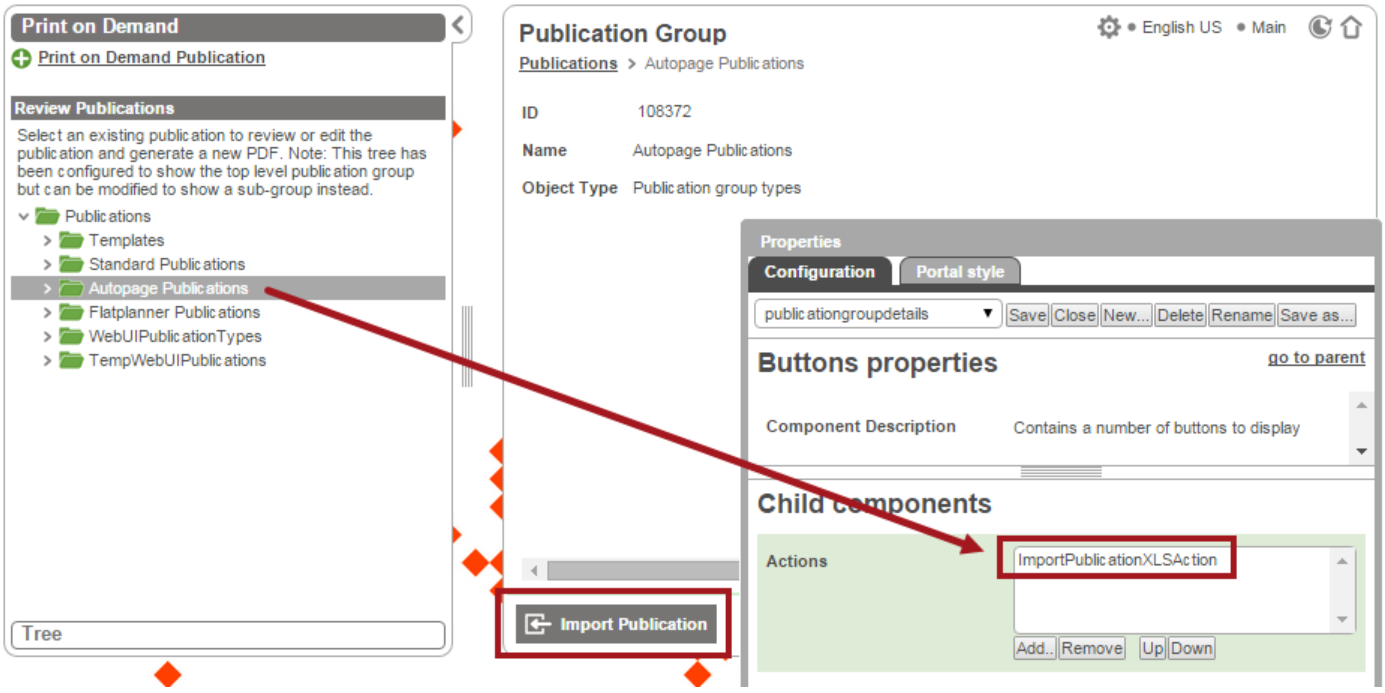
The Publication Excel export / import format builds upon the existing Flatplanner Excel format but includes all necessary columns to build a standard, AutoPage, or Flatplanner publication in STEP upon import.

Publication Excel functionality can also be used to link product and asset objects to Section folders and to import pagination rules.





In the Web UI, Publication Excel import functionality is available through the Import Publication XLS Action, which can be added as a button on a Node Details component. It is intended to be used from a Publication Group details screen as Publications must be imported into a Publication Group folder.



For full details on Publication Excel exports and imports for publications, see the 'Exporting Publications in Excel' and 'Importing Publications in Excel' sections of the STEP'n'design documentation.

Enhanced Section Move Functionality

Functionality in the Tree has been enhanced to allow simpler and more intuitive resequencing of Publication Sections, specifically with regard to the handling of subsections.

Subsections may now be dragged and dropped out of their parent Sections and promoted to higher-level subsections or top-level Sections. Likewise, Sections may now be dragged and dropped into other Sections, enabling the 'demotion' of Sections to subsections. Note that 'Manually Sorted' must be set to 'Yes' on Publication Group, Publication, and Section object types to enable resequencing in the Tree.

Previous functionality allowed for more limited resequencing. Top-level Sections could be rearranged within the Publication but not dragged and dropped into other Sections. Subsections could be rearranged within parent Sections but could not be dragged out of parent Sections.

This enhanced functionality greatly simplifies the maintenance of more complex publications where multiple levels of organization are needed.

For more information about object type sorting in STEP, see the 'Manually Sorted' section of the System Setup / STEP Super User Guide documentation.

New Support for Publication and Publication Section Objects in STEP Workflows

Workflow functionality is now available for Publication and Publication Section objects. Unlike Flatplanner page spread workflows (which require use of the Publication Planner), Publication and Section workflows function like standard STEP workflows used for classifications, products, and assets. Also, a Flatplanner license is not required to use a Publication or Section workflow.

Publication and Section workflows enable the assignment of tasks such as:

- Importing prices
- Publication planning, where information such as dates and styles are defined
- Linking of products to Sections
- Population of metadata attributes on Publication and Section objects

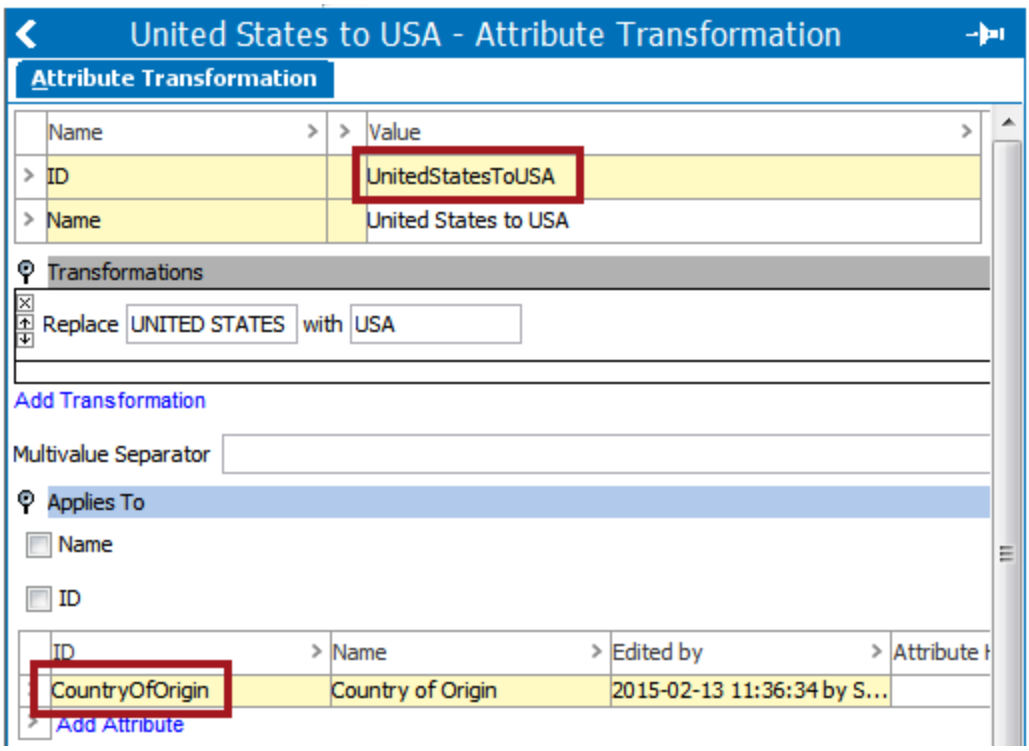
Note that Publication objects and Section objects cannot share the same workflow. Each object type must have its own standalone workflow.

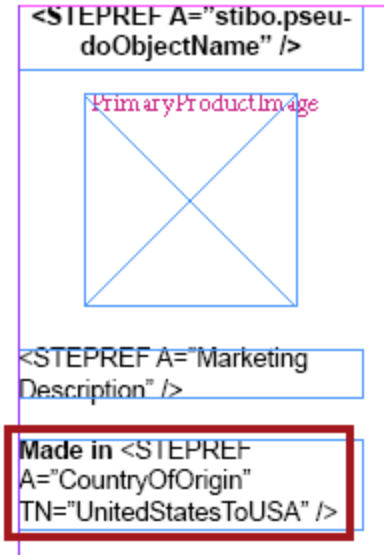
See the STEP Workflows section of the documentation for more information on how to create and configure workflows. See the Flatplanner Workflows section of the Flatplanner documentation for more information on Flatplanner page spread workflows.

New Validation of Attribute Transformations on Templates

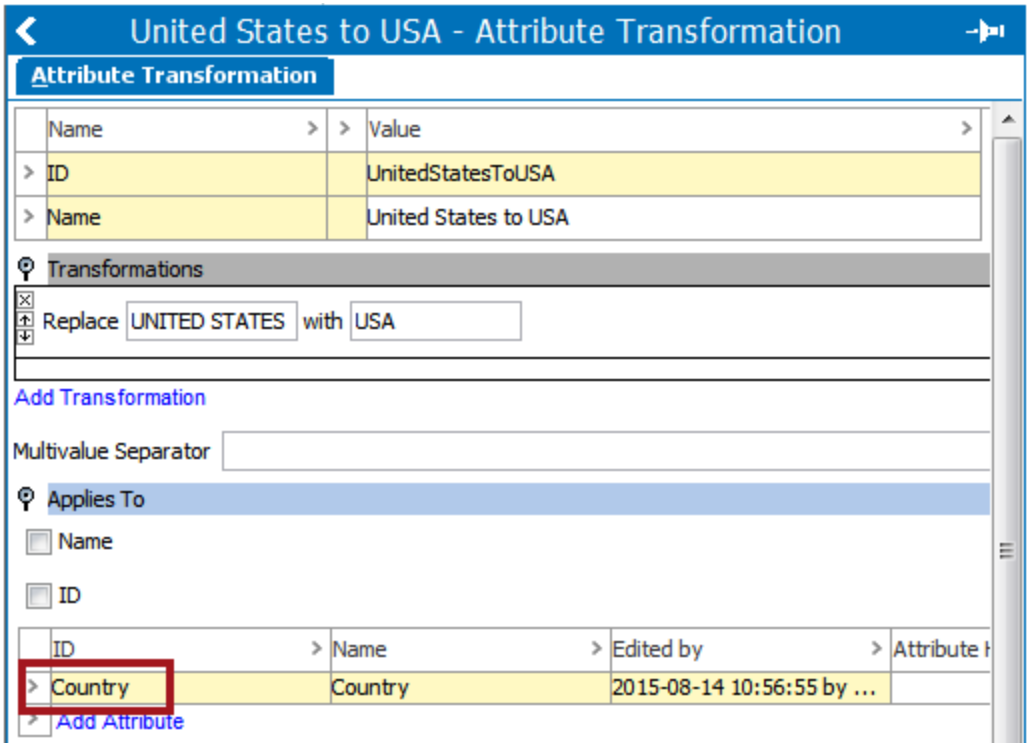
A new feature is available in STEP'n'design that validates whether Attribute Transformations are still valid on attributes contained in a Product Template, Publication Template, or Page Template when the template is saved back to STEP from InDesign.

For example, a Product Template could be created early in a production cycle that contains tagging for an Attribute Transformation called 'UnitedStatesToUSA' that is valid for an attribute called 'CountryOfOrigin':

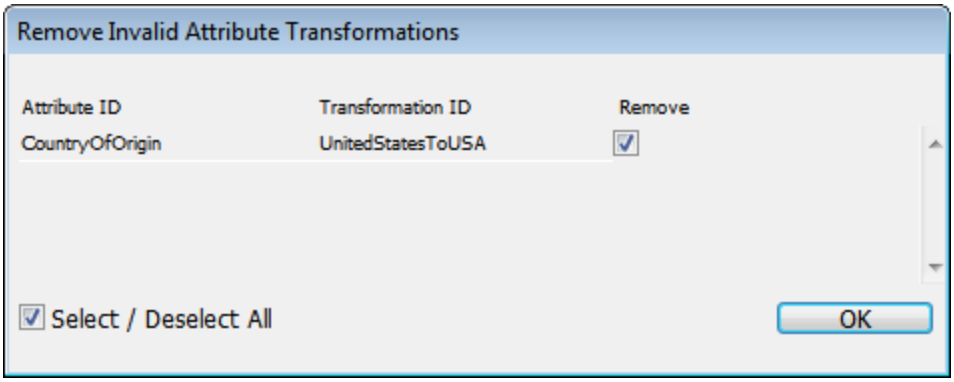




Then, later in the production cycle, and unbeknownst to the DTP operator, the attribute is removed in STEP as a valid attribute for the Attribute Transformation. In this example, 'CountryOfOrigin' has been replaced with 'Country':



If the DTP operator attempts to save the Product Template back to STEP, and the template still contains the tagging that applies the 'UnitedStatesToUSA' transformation to 'CountryOfOrigin', a 'Remove Invalid Attribute Transformations' warning will appear in InDesign with a checkbox allowing for the removal of the invalid transformation(s):



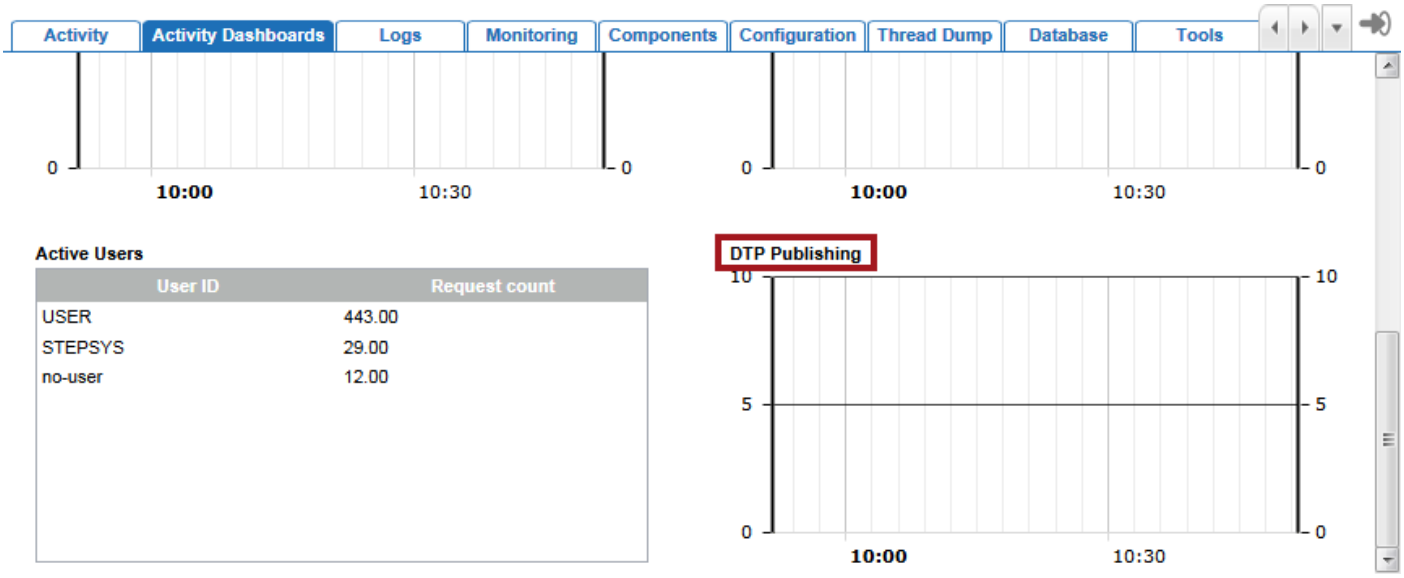
For more information on building and configuring Publication and Product Templates, see the 'Publication Template' and 'Product Template' sections of the STEP'n'Design documentation.

For more information on Page Templates, see the 'Creating Page Templates' section of the Flatplanner documentation.

For general information on Attribute Transformations, see the 'Attribute Transformations' section of the System Setup / STEP Super User Guide documentation.

New Activity Dashboard Monitoring

Performance statistics for publishing activities are now displayed on the Activity Dashboard within the STEP Admin Portal. This new functionality allows users to view where STEP'n'design spends its time performing tasks without having to search through log files to find the information.



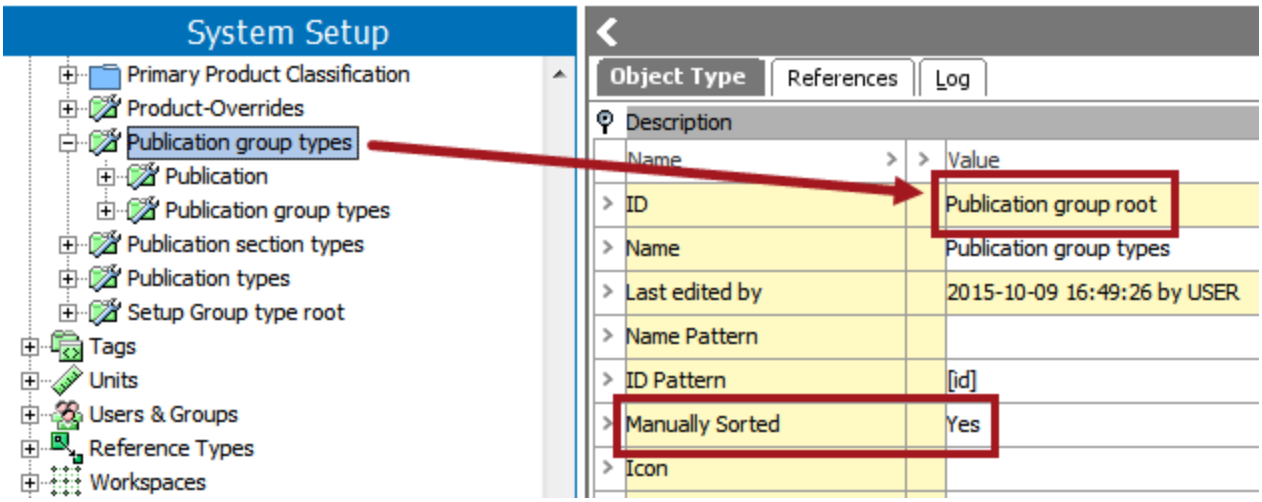
Enhanced Sorting Capabilities for Templates in STEP Workbench

By default all templates shown in the STEP Workbench Tree will now be grouped by type, with alphabetical sorting applied within each group. This provides better usability over the previous case of having all templates (across all types) sorted alphabetically. Users will now observe the following default sort order:

1. Product Templates (in alphabetical order)
2. Page Templates (in alphabetical order)
3. Master Templates (in alphabetical order)

In addition, Publication Templates, Product templates, and Page Templates may now be manually sorted. Manual sorting was available previously only on Publication Group, Publication Section, and Publication objects.

To enable manual sorting for templates, the Publication Group object type in which templates are stored (which is typically 'Publication group root') must have 'Manually Sorted' set to 'Yes.' No additional configurations are required, as Publication Templates, Product Templates, and Page Templates are not included as object types in System Setup.

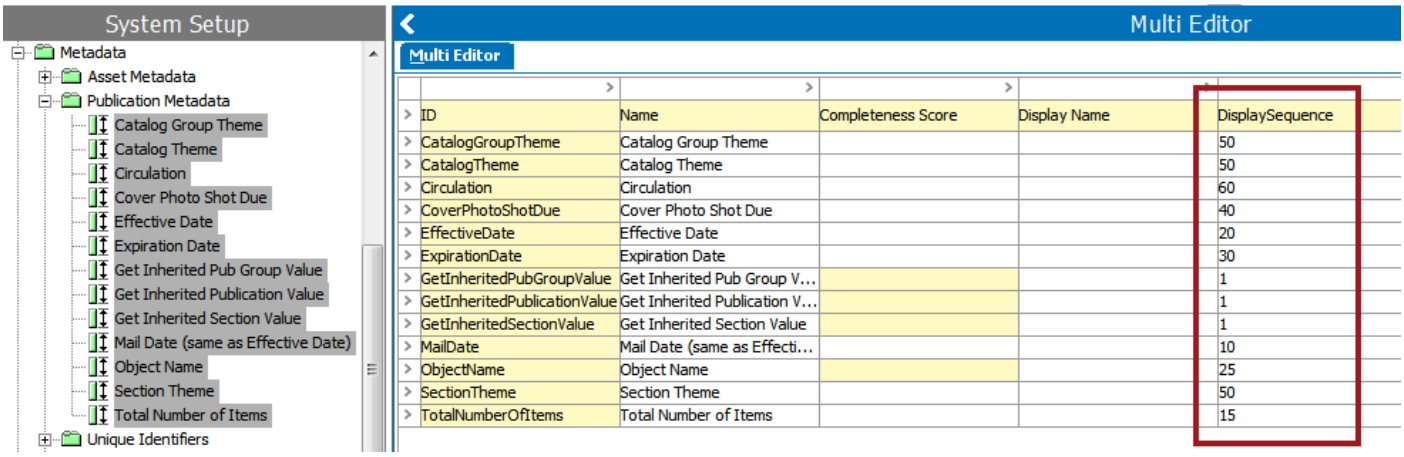


For more information about object type sorting in STEP, see the 'Manually Sorted' section of the System Setup / STEP Super User Guide documentation.

New Description Attribute Sequencing on Publication Hierarchy Objects

Metadata (Description) attributes on Publication hierarchy objects (Publication Groups, Publications, Sections, and Planned Pages) may now be sequenced using a display sequence attribute. Previously, metadata attributes could not be sequenced on any object in the Publication hierarchy.

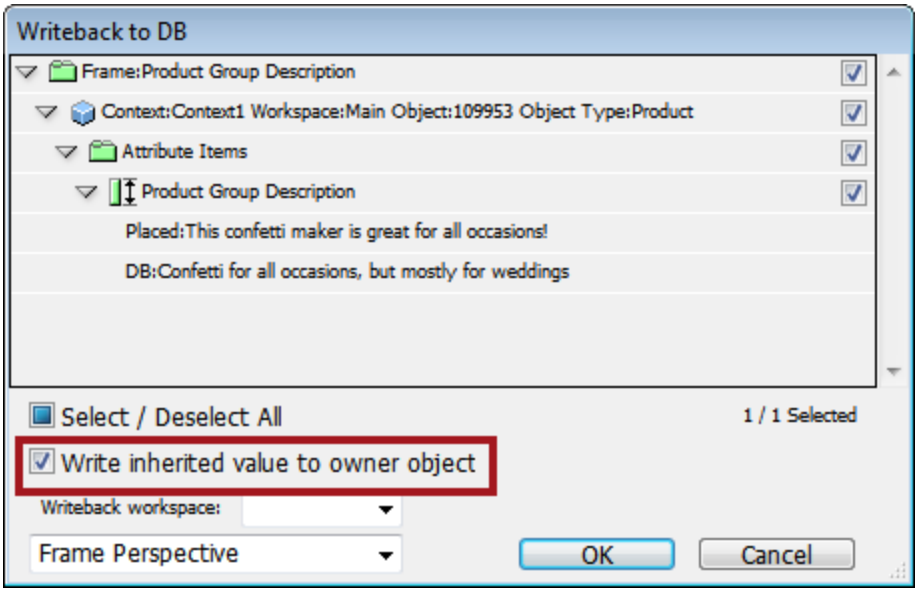
Because Publication hierarchy objects do not use Reference Types, attribute sequencing cannot be set from a 'Linked Attributes' flipper on the References tab, which is unavailable on Publication hierarchy objects. Instead, metadata attribute sequencing must be set up at the attribute level. However, attributes may be multi-selected to allow sequencing from a single location.



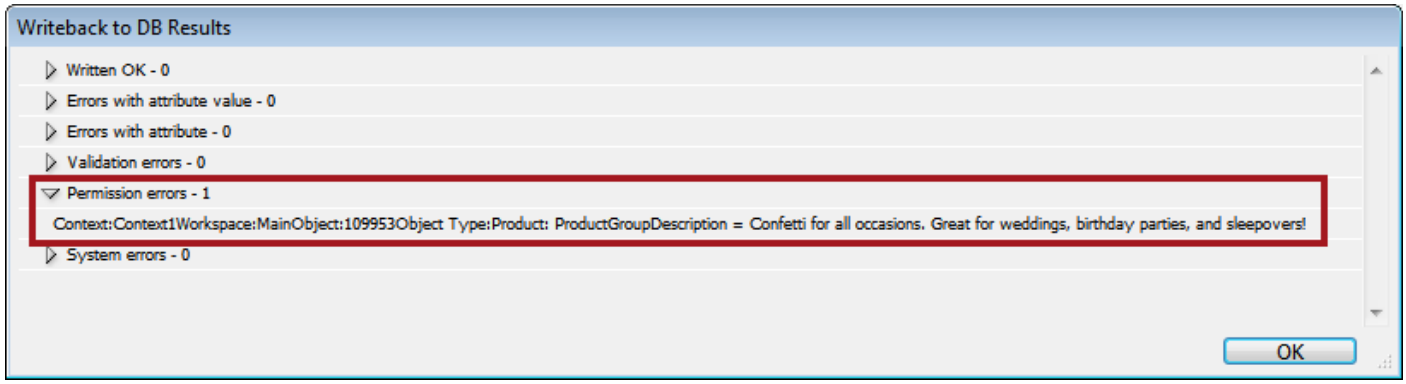
For more information on attribute sequencing, see the 'Attribute Display Sequence' section of the System Setup / STEP User Guide documentation.

New Writeback to Owner Object Prompt for Inherited Attribute Values

When writing an attribute value back to STEP from a mounted 'child' object in InDesign, users will now receive a 'Write inherited value to owner object' checkbox prompt in the 'Writeback to DB' dialog. Checking this box will write the locally updated attribute value back to the owner (parent / grandparent) object.



If the box is left unchecked, the value(s) will not write back to STEP at all. After clicking OK, users will instead receive a 'Permission errors' message on the 'Writeback to DB Results' screen. Previously, users would always receive this error, with no option in InDesign to write back to the owner object.



Considerations and Limitations for Writeback to Owner

- Writing a value back to an owner (parent / grandparent) object that exists in the Approved workspace will cause this object to become unapproved. Users should take care to ensure that data writeback from InDesign does not impact other processes (such as Outbound Integration Endpoints) that rely exclusively on products in the Approved workspace.
- A dialog containing the 'Write inherited value to owner object' checkbox will not appear when writing data back to STEP using the 'Update Page Selection' option. This option is accessed through a right-click action in InDesign when the cursor is placed within the changed text itself. Users will only receive the 'Writeback to DB Results' dialog, containing the Permission error(s).
- The 'Permission errors' warning is not associated with user privileges as defined under 'Users & Groups' in System Setup. 'Permissions' here refers to core functionality of STEP'n'design itself, in which no users have the authority to overwrite inherited values from within InDesign. Even users with Super User privileges—who are granted All Setup Actions and All User Actions—will receive this error. Inherited values may be overwritten from the workbench only.

For more information on data writeback to STEP from InDesign, see the 'Writing Data Back to STEP Database' section of the STEP'n'design documentation.

AutoPage Enhancements

Summary

The STEP Print solution has been updated in a number of ways across all components, including AutoPage. Details on new features and enhancements spanning multiple components are included in the 'STEP'n'Design and General Print Publishing Enhancements' section of the Trailblazer 7.4 Release Notes.

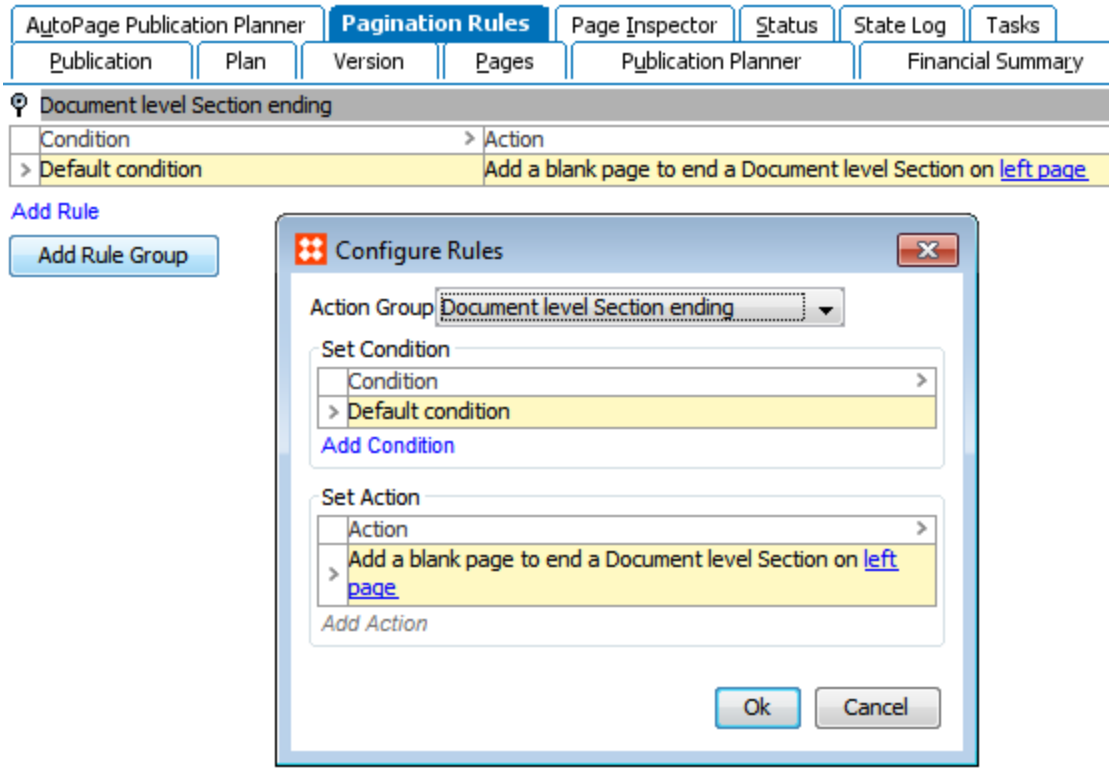
Below, details can be found on two new features that are specific to the STEP Workbench AutoPage component.

Details

New 'Document level Section ending' Pagination Rule

A new Pagination Rule Group called 'Document level Section ending' has been added to the Pagination Rules tab as an available Action Group in AutoPage. Setting this rule with a default condition on the Publication and/or desired Section(s) / subsection(s) will ensure that the last page in the applicable Section or subsection is either a left or right page.

If no products are available for mount on this final page, the system will add a blank page, which will include 'furniture' (background elements) from the Publication Template. In some cases, a blank page may be needed at the end of a section to ensure that the next section starts on the correct side.

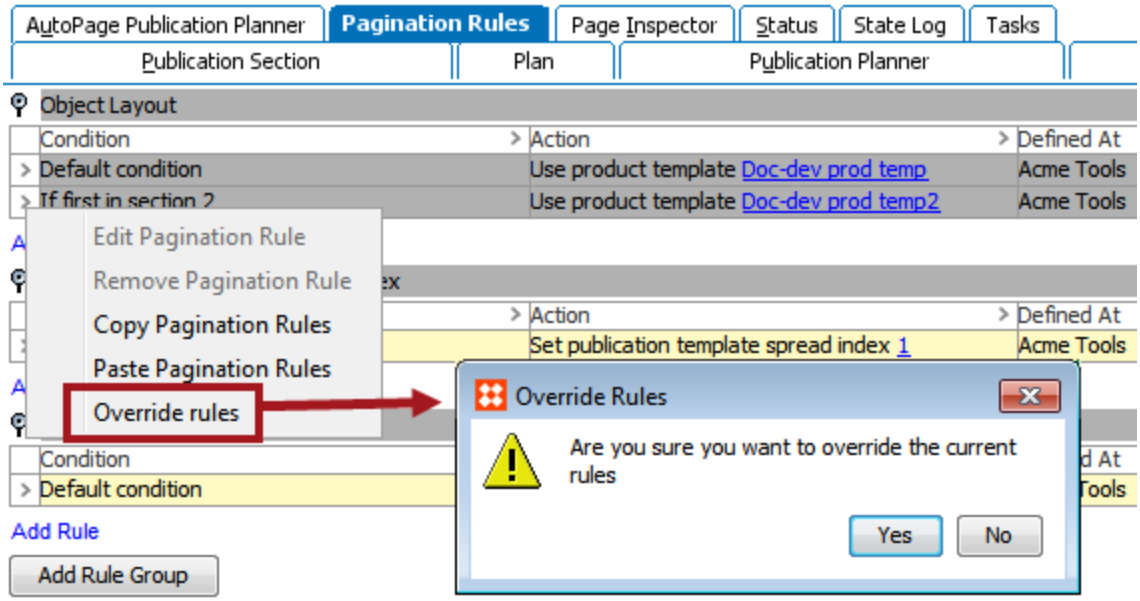


Note that the Document level is controlled by the 'Auto page Document level' configuration in the Publication editor and defaults to the Section level. For more information on this configuration, see the 'Overview of the AutoPage Interface' section of the AutoPage documentation.

For more information on AutoPage Pagination Rules, see the 'About AutoPage Pagination Rules' section of the AutoPage documentation.

New 'Override Rules' Confirmation Message

A confirmation message now appears when inherited Pagination Rules (at a Section or subsection level) are right-clicked and 'Override Rules' is selected. This confirmation will help to prevent the accidental local override of inherited rules when the user intended to select 'Paste Pagination Rules' instead.



For more information on editing and overriding AutoPage Pagination Rules, see the 'Editing AutoPage Pagination Rules' section of the AutoPage documentation .

Flatplanner Enhancements

Summary

The STEP Print solution has been updated in a number of ways across all components, including Flatplanner. Details on new features and enhancements spanning multiple components are included in the 'STEP'n'Design and General Print Publishing Enhancements' section of the Trailblazer 7.4 Release Notes .

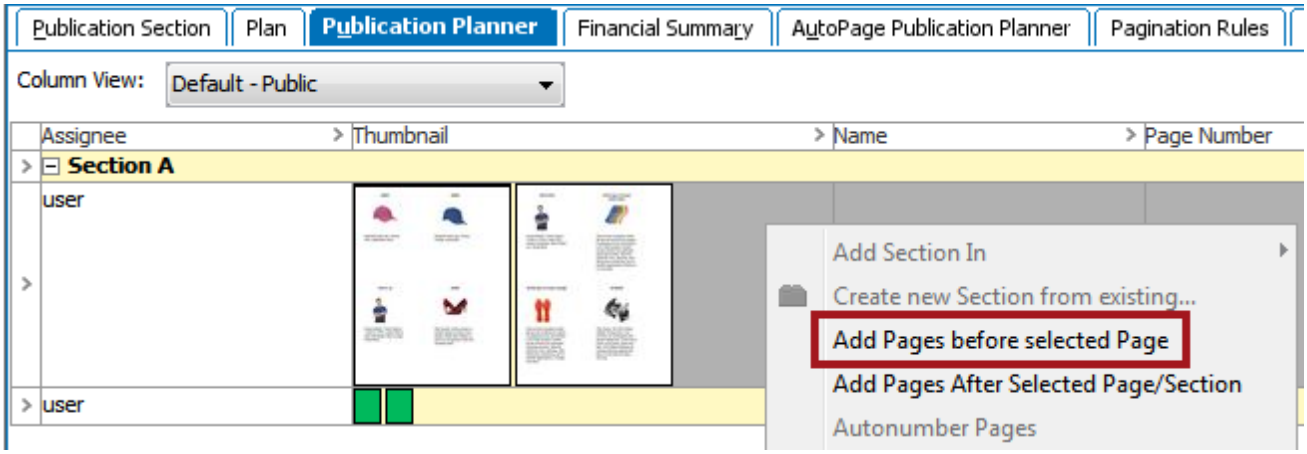
Below, details can be found on enhancements and new features that are specific to the STEP Flatplanner component. These include:

- Option to add new pages before the selected page
- Introduction of new user privileges to enable restriction of the ability to maintain public views
- Option to generate a PDF spread from any page
- Improved handling of Flatplanner Notes
- Ability to access metadata from Sections on mounted pages

Details

New 'Add Pages Before' Option in Publication Planner

Flatplanner pages can now be inserted before existing pages in the Publication Planner by selecting 'Add Pages before selected Page.' Previously, the only available option was to add pages *after* existing pages.

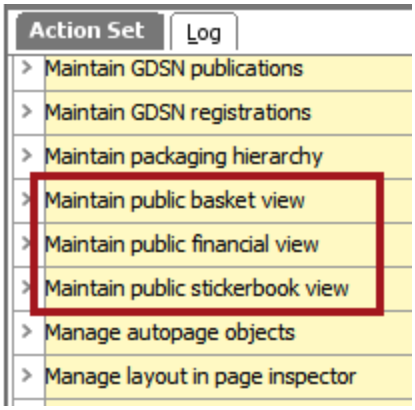


For more information, see the 'Inserting Pages in a Section in Publication Planner' section of the Flatplanner documentation .

New Privileges to Restrict Public Views

Three new User Actions have been created to restrict users' ability to maintain public views of the Flatplanner Basket, Sticker Book, and Financial Summary. Users who are not granted these privileges will have the option to maintain individual Private views only, thereby blocking the possibility of a user unintentionally saving a Private view over a Public view.

Users without these privileges may copy a Public view and configure this copy to their individual preferences, but this copied view will be Private and only visible to the user who created it.

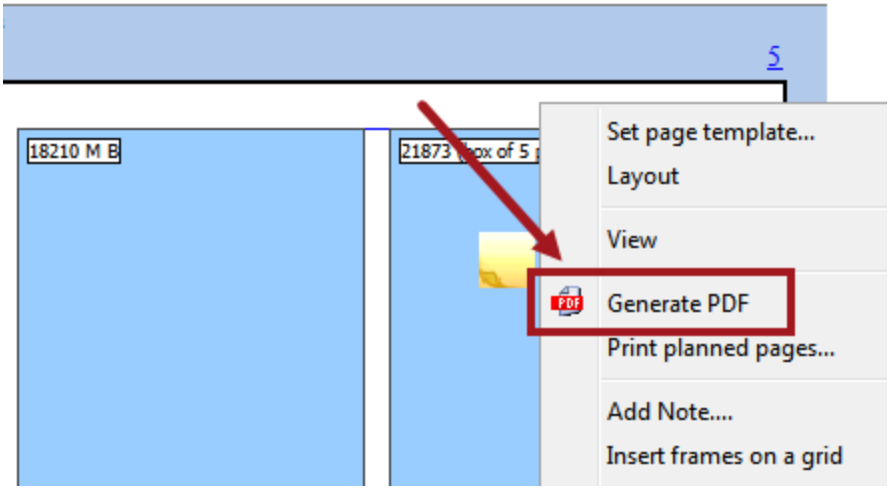


For more information on maintaining Public and Private Views, see the 'Public and Private View Options' section of the Flatplanner documentation .

For more information on user privileges, see the 'About Privilege Rules' section of the System Setup / Super User documentation .

New Option to Generate PDF Flatplanner Spreads from Any Planned Page

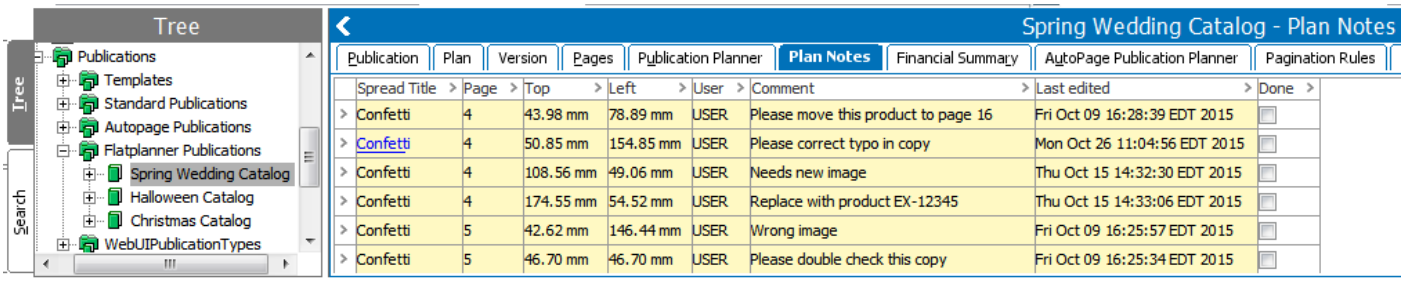
On the Plan tab, users can now generate a PDF of a Flatplanner spread in the Plan View by right-clicking in the white area on either the left-hand page or the right-hand page of the spread. Previously, right-clicking in the white area on the left-hand page would generate a PDF of the entire spread but clicking on the right-hand page would generate the right page only.



For more information, see the 'Generating PDFs' section of the Flatplanner documentation .

Enhanced Flatplanner Notes Handling

A 'Plan Notes' tab is now available that enables the viewing of all Planned Page Notes in one location. This tab is accessible from the Publication, Section, and Page Spread level of a Publication. All Notes in a Publication are viewable from the Publication level; all Notes in a Section are viewable from the Section level; and all Notes in a Spread are visible from the Planned Page spread level.



Spread Title	Page	Top	Left	User	Comment	Last edited	Done
Confetti	4	43.98 mm	78.89 mm	USER	Please move this product to page 16	Fri Oct 09 16:28:39 EDT 2015	
Confetti	4	50.85 mm	154.85 mm	USER	Please correct typo in copy	Mon Oct 26 11:04:56 EDT 2015	
Confetti	4	108.56 mm	49.06 mm	USER	Needs new image	Thu Oct 15 14:32:30 EDT 2015	
Confetti	4	174.55 mm	54.52 mm	USER	Replace with product EX-12345	Thu Oct 15 14:33:06 EDT 2015	
Confetti	5	42.62 mm	146.44 mm	USER	Wrong image	Fri Oct 09 16:25:57 EDT 2015	
Confetti	5	46.70 mm	46.70 mm	USER	Please double check this copy	Fri Oct 09 16:25:34 EDT 2015	

On this tab, Notes can be edited, deleted, and marked as 'Done.' Notes cannot be added from this tab, as there is no way to position them on the page. Notes must still be added via a right-click action on Page spreads while viewing the Planned Page spread from the Plan tab.

Edits made to Notes from the new Plan Notes tab will be reflected in the Notes attached to the Plan. Likewise, edits made to Notes on the Plan will be reflected on the Plan Notes tab. Editing Notes on this tab is similar to editing Notes on Flatplan frames—new text can be added, but existing text cannot be edited. The Plan Notes tab will always display the most recent Notes text.

Notes can also be filtered on this tab. The placement of Notes throughout a Publication can be determined by filtering on Spread Title, then further pinpointed by sorting on 'Left' and 'Top' (X / Y) coordinates. All Notes that are marked as 'Done' can be identified by filtering the Done column on 'true', then deleted.

Note that no functionality has changed in the Notes tab that is accessible when viewing Actual Pages.

For more information, see the 'Adding Notes and Free Text' section of the Flatplanner documentation .

New 'getInheritedPublicationValue' Functionality to Access Section Metadata

The calculated attribute function 'getInheritedPublicationValue' can now pick up metadata (Description) attribute values from Section objects when mounting pages in Flatplanner. Previously, this function could only pick up values from Publication and Publication Group objects in Flatplanner. The ability to pick up metadata values from Section objects was exclusive to AutoPage.

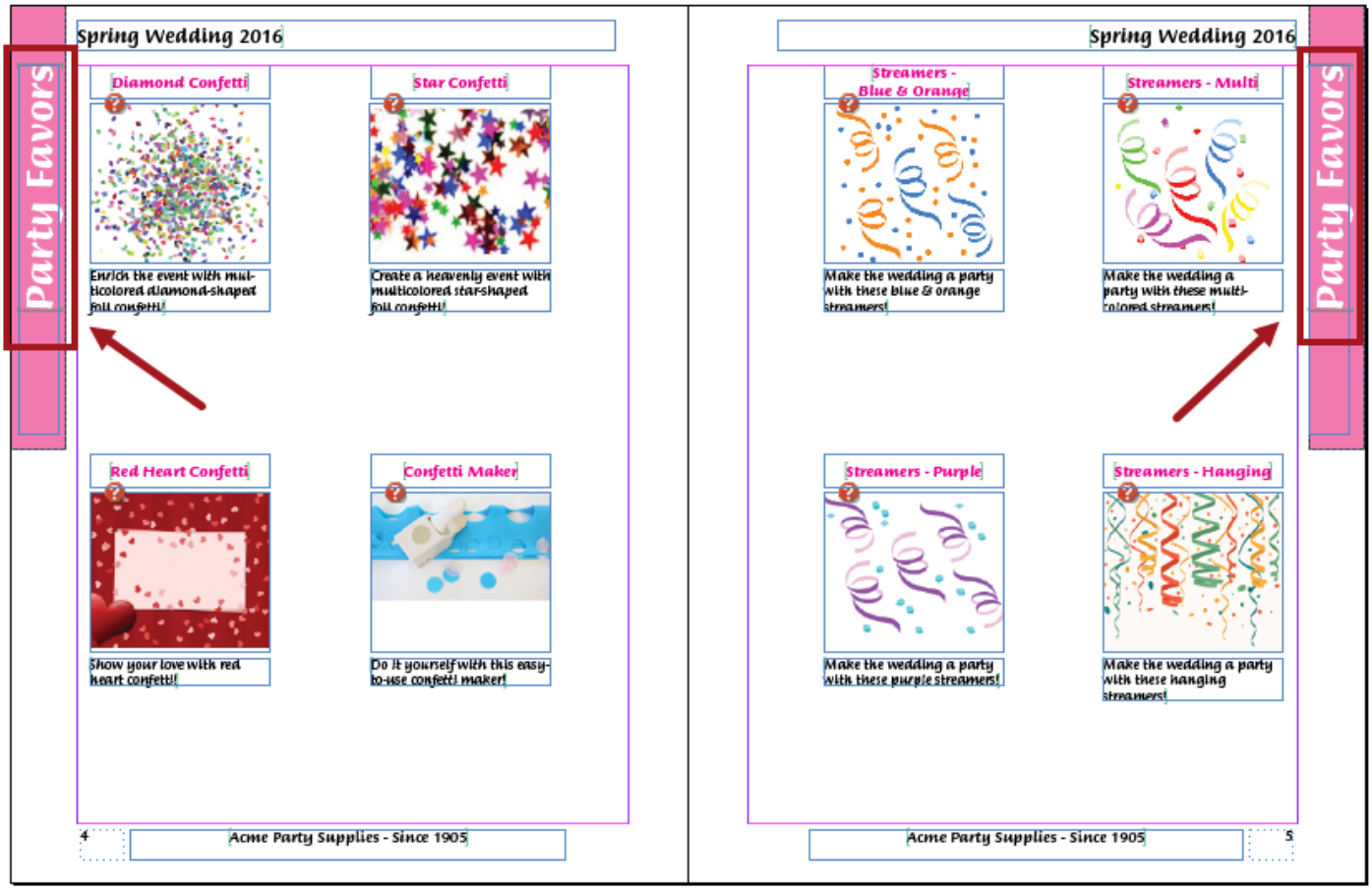
The primary use case for this updated functionality is to dynamically pull a value from a Section onto the Publication Template in order to display this value on the mounted (actual) page. This allows users more dynamic control over content that exists as 'furniture' (Publication Template elements) on page spreads.

For example, a Section-level description attribute that identifies the 'theme' of the Section could then be displayed on side tabs or headers of mounted pages, reducing manual work on Publication Templates and/or actual pages.

Publication Section | Plan | Publication Planner

Description

Name		Value
ID		108202
Name		Party Favors
Object Type		Section
Revision		0.1 Last edited by U
Path		Publications/Flatplan
Start section on page		1
Circulation	123	
Cover Photo Shot Due	31	2015-09-17
Effective Date	31	
Expiration Date	31	
Mail Date (same as Effective	31	
Section Theme	abc	Party Favors
Total Number of Items	123	



For more information, see the 'Using the getInheritedPublicationValue Function in Flatplanner' section of the Flatplanner documentation .

See the 'Functions for Calculated Attributes' section of the System Setup / Super User documentation for general information on calculated attribute functions .

Miscellaneous Updates, Enhancements, and Bug Fixes

STEP has received a number of other minor changes in various areas as part of the Trailblazer 7.4 release. These are briefly listed below:

- As was communicated with the Trailblazer 7.3 release (July 2015), the Trailblazer 7.4 release will no longer be able to be run on the Java 7 platform. As of April 2015, Oracle has ended their public updates of the Java 7 runtime environment. Even though it is still possible to acquire continued support and security updates for the older platforms from Oracle, Stibo Systems appreciates that not all STEP customers have this or want it. Therefore, STEP became Java 8 (and Red Hat 7) compatible with the release of Trailblazer 7.3. While older Trailblazer releases continue to run on prior versions of Java, the Trailblazer 7.4 release requires Java 8.
- A change has been made so that when initiating objects in Web UI, if Enforce Validity is enabled / checked, attributes set as mandatory on the screen have to be populated before submission. If the Enforce Validity parameter is disabled / unchecked, then mandatory attributes are not required to be populated prior to submission. Previously, validity was enforced on initiate screens regardless of the Enforce Validity parameter setting.

  Note that this correction results in a change in functionality so users wanting to continue to enforce validity of mandatory attributes must verify that their configuration is set accordingly (i.e., Enforce Validity is selected on the Save Action Properties screen).
- A bug has been corrected that, at times, resulted in an export of search results from the STEP Workbench Search tab containing additional objects that did not meet the indicated search criteria. Users running an export from the Search tab will now receive an output file that includes only the objects returned as search results.
- An enhancement has been made regarding Web UI screens using the Attribute Value Group Header. End users will notice enhanced performance (a decreased load time) on Web UI screens using this component, particularly when the component must validate which category-specific attributes to display for the selected object.
- A bug has been corrected in the Web UI that allowed the Save button (Save Action component) to be enabled when an object displayed using a Node Editor had invalid attribute values populated (e.g., text in an attribute with a numeric validation base type). Users will now notice that the Save button will not enable until all failed attribute validations have been corrected.
- The Remove Reference Action available in the Web UI Multi-Reference Editor has been updated to allow removal of reverse references (those for which the selected object is the target). Previously this button only allowed for removal of references for which the selected object was the source.
- A bug has been corrected that limited the number of objects that could be exported using the Simple Export component (Simple Export Action) in Web UI from a Task List. Previously, when a user chose to 'Select All' in the export, only a maximum number of objects were included in the export.
- A bug has been corrected that disabled scroll bar functionality in the business rule viewer.
- A new collapsible splitter feature has been added to Packaging Hierarchy and Advanced Search Web UI screens that are configured with a horizontal split panel. A drag handle splits the main component and child

components on these screens, and arrowheads have been added to both sides of the handle. Clicking on the arrowheads allows end users to hide (and return) components on the display screen without having to do any additional configuration.

- A Title parameter has been added to the Search Widget available on the Web UI Home Page so that users may specify a header other than 'Search' for this widget. If not populated, the title defaults to 'Search'.
- A change has been made to prevent the system from entering Single User Mode when changes are made to an LOV that is that is not in use by any attributes. Additional information on Single User Mode can be found in the 'Single User Mode' section of the STEP Super User / System Setup documentation.
- Various additional minor bug fixes and performance enhancements.

Platform and Software Support for Trailblazer 7.4

STEP Database Server

Server Component	Supported Software
Hardware architecture	x86-64 (aka. x64, AMD64, Intel 64)
Operating System (OS)	Red Hat Enterprise Linux 7.1+ / 6.6+ 64-Bit Oracle Enterprise Linux 7.1+ / 6.6+ 64-Bit *(UEK3 or RHEL kernel)* [1] MS Windows Server 2012 R2 / 2008 R2 64-Bit
Database software	Oracle 12.1.0.2 64-bit SE2 and EE [2] Oracle 11.2.0.4 64-bit SE/One, SE and EE [3] *Enterprise Edition may be needed if advanced Oracle options (like oracle RAC or Dataguard) are requested – this must be checked with Oracle. The STEP application itself does not require any EE features.*
Application Software (optional)[4]	Oracle Java 8 SE (Java JDK 1.8.0_66+ 64-bit) STEP DB Server Toolbox

[1] UEK3 = Unbreakable Enterprise Kernel v3, RHCK = Red Hat Compatible Kernel

[2] Only SE2 (Standard Edition 2) and EE (Enterprise Edition) licenses are available. SE2 has new licensing rules.

[3] Oracle 11.2.0.4 is not installed by Stibo unless explicitly requested by customer. Stibo recommends using Oracle Database 12.1.0.2. Oracle has waived the fee for Extended Support for 11.2 for all customers through 31 May 2017 (See Oracle support note 742060.1).

[4] Required if customer has a DBA Support agreement with Stibo or if customer / hosting partner wishes to utilize the STEP DB Server Toolbox which includes scripts for e.g. Oracle RMAN backup and restore and Oracle Datapump export/import etc.

STEP Application Server

Server Component	Supported Software
Hardware architecture	x86-64 (aka. x64, AMD64, Intel 64)
Operating System (OS)	Red Hat Enterprise Linux 7.1+ / 6.6+ 64-Bit Oracle Enterprise Linux 7.1+ / 6.6+ 64-Bit *(UEK3 or RHEL kernel)* [1]

Server Component	Supported Software
	MS Windows Server 2012 R2 / 2008 R2 64-Bit
Server runtime environment	Oracle Java SE 8 (Java JDK 1.8.0_66+ 64-bit) [2]
Reverse Proxy	Apache 2.2.x (using mod_proxy) on RHEL6 / OEL6 / Windows [3] Apache 2.4.x (using mod_proxy) on RHEL7 / OEL7 [3]
Application Software	STEP Trailblazer 7.4 STEP AssetPush [4]

[1] UEK3 = Unbreakable Enterprise Kernel v3, RHCK = Red Hat Compatible Kernel.

[2] New Java versions will be updated automatically once tested with the STEP software. This occurs during patching of the STEP Trailblazer software using the SPOT tool.

[3] The STEP application utilizes the default Apache HTTPD installation on RHEL and OEL. On RHEL/OEL 6 this is version 2.2.15. On RHEL/OEL 7 the version is 2.4.6. The major version does not change, but security fixes are applied when using Yum to update the RPM package.

[4] STEP AssetPush is configured if images from the STEP system are to be used in different formats for e.g. a website.

STEP InDesign Server

Server Component	Supported Software
Hardware architecture	x86-64 (aka. x64, AMD64, Intel 64)
Operating System (OS)	MS Windows Server 2012 R2 / 2008 R2 64-Bit Mac OS X 10.8.x[1] / 10.9.x / 10.10.x Server 64-Bit
Server runtime environment	Oracle Java SE 8 (Java JDK 1.8.0_66+ 64-bit)
Application Software	Adobe® InDesign® CC2015 Server (64-bit) [2] Adobe® InDesign® CC2014 Server (64-bit) [3] Adobe® InDesign® CS6 Server (32-bit) STEP AssetPush [4]

[1] Mac OS X 10.8.x only used with InDesign Server CS6

[2] Adobe® InDesign® CC2015 Server is not support on Mac OS X 10.11. CC2015 is the recommended version for all new installations.

[3] Adobe® InDesign® CC2014 Server is not supported on Mac OS X 10.10 and 10.11.

[4] STEP AssetPush is configured to “push” images to a filesystem on the server to be locally available for the Adobe InDesign Server application.

STEP AssetPush File Server

This server is required only if the customer wishes to use high-resolution images in remote locations (i.e. offices that are not at the same site as the STEP server) for STEP’n’design (using Adobe InDesign Client). One server for each remote office location that uses high-resolution images is required.

Server Component	Supported Software
Hardware architecture	x86-64 (aka. x64, AMD64, Intel 64)
Operating System (OS)	Mac OS X 10.9.x / 10.10.x / 10.11.x Server 64-Bit Red Hat Enterprise Linux 7.1+ / 6.6+ 64-Bit Oracle Enterprise Linux 7.1+ / 6.6+ 64-Bit *(UEK3 or RHEL kernel)* MS Windows Server 2012 R2 / 2008 R2 64-Bit
Server runtime environment	Oracle Java SE 8 (Java JDK 1.8.0_66+ 64-bit)
Application Software	STEP AssetPush [3]

[1] Adobe InDesign CC2015 Server is not support on Mac OS X 10.11.

[2] Adobe InDesign CC Server (v10) is not supported on Mac OS X 10.10 and 10.11.

[3] STEP AssetPush is configured to “push” images to a filesystem on the server to be locally available for the Adobe InDesign Server application.

STEP Client Requirements

Windows Client

Server Component	Supported Software
Processor	Intel based 2.0GHz Core i3 Ivy Bridge or newer
Number of Processor Un-its	1
Total System Memory	Min. 4 GB (8 GB recommended)
Operating System	Windows 7 / 8 / 8.1 / 10
Storage	Internal 80 GB HDD or larger 100 MB of free space for STEP Client installation

Server Component	Supported Software
	Additional free storage required for usage of DTP applications
Software	Java Runtime (JRE) 1.8.0_xx (latest update) STEP Workbench Client Adobe® InDesign® CC 2015 / CC 2014 / CS 6 [1] Browsers: IE 9/10/11, Firefox, Safari, Chrome, Edge for Windows 10 (manually tested only)

[1] Client version must match the server version

Mac Client

Server Component	Supported Software
Processor	Intel based 2.0GHz Core i3 Ivy Bridge or faster
Number of Processor Units	1
Total System Memory	Min. 4 GB (8 GB recommended)
Operating System	Mac OS X 10.9.x / 10.10.x / 10.11.x
Storage	Internal 80 GB HDD or larger 100 MB of free space for STEP Client installation Additional free storage required for usage of DTP applications
Software	Java Runtime (JRE) 1.8.0_xx (latest update) STEP Workbench Client Adobe® InDesign® CC 2015 / CC 2014 / CS 6 [1] Browsers: Firefox, Safari, Chrome

[1] Client version must match the server version. CC2015 is the only version support on Mac OS X 10.11.x