

SOLUTION ENABLEMENT

PMDM for Automotive Quick Start Guide

2025.4 Update (December 2025)



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Automotive Quick Start Guide Introduction

This documentation provides an introduction to the Product MDM (PMDM) for Automotive solution. It covers the necessary actions an admin user must take to set up the solution, as well as providing an overview of the end user functionality that is provided with the solution after Easy Setup actions for one or more automotive standards have been completed by an admin.

The PMDM for Automotive solution supports the AutoCare, TecDoc, and NAPA* standard formats. The standards are individually licensed, so you will not be able to access all of them on a system unless the specific license has been applied. To purchase licenses for additional standards, contact Stibo Systems.

The setup and end user functionalities are the same, regardless of the standard being applied. This documentation will often use the AutoCare standard as an example, but the same information is applicable for the NAPA and TecDoc standards.

Note: Setup and use of application editing and mapping functionalities are considered advanced functions that are outside the scope of this documentation. In addition, details on the specific data models for each standard are not covered.

This section addresses:

- PMDM for Automotive Terminology
- Supported Versions and Formats
- Quick Start Setup for Admins
- Quick Start for Users

* *The NAPA commercial license has been discontinued.*

PMDM for Automotive Terminology

The table below can be used to align terminology used across the standards.

STEP Term	General Description	AutoCare Term	NAPA Term	TecDoc Term
Vehicle	What an application points to.	Base Vehicle	NAPA Year	Linking Target
Part	An artifact that is one of the individual parts of which a composite entity (vehicle) is made up; especially a part that can be separated from or attached to a system.	PIES Item	NAPA Product	Article
Part Type	The most granular product classification of a part and/or components that are not applications. For example, Water Pump Pulley or Tire Valve Stem Replacement Tool.	Part Terminology delivered via the PCdb	NAPA MPCC delivered via the Translation file.	Universal Generic Article / Standard Generic Article
Application	Defines part to vehicle fitment based on vehicle, part type, part number, and additional options (e.g., Position, Quantity, Number of doors).	ACES Application	NAPA Application	Linkage
Part Type Categories (Classifications)	For example, Water Pump and related components or Tire Service Tools. Logical collection of related part types that perform together as a system. For example, Cooling System or Tools and Equipment.	PCdb Categories and Subcategories		
Part Attribute	Physical characteristics of a specific part that will not change, regardless of which vehicle the part is fitted to.	PIES Attribute & PAdb Attributes		Article Attribute
Options	Vehicle specifications that can describe details or variations of a vehicle. For example Sub Model, Engines, Drive types	Defined within VCdb	Defined within Valid Vehicle Table	Defined within Reference Data

STEP Term	General Description	AutoCare Term	NAPA Term	TecDoc Term
Conditions	Conditions are restrictions on an application as to when and how the part can fit the vehicle. Conditions can refer to the vehicles options.	ACES Conditions	NAPA Conditions	Linkage Criteria
Comments	Used to describe conditions for applications that do not fit predefined attributes.	NAPA Comment	Text Block	
Make	Brand name under which vehicles are sold. For example, Acura, BMW, and Honda.	Make	Make	Manufacturer / Brand
Model		Model	Model	Model Series
Part type list	Parts Lists are made up of various parts that form an integral part of the main part. Parts lists are fixed. A parts list is always in a 1-1 relation with the main part. That means that the main part will always contain the same fixed number of parts list items.	Part Terminology List	NAPA Part Terminology List	Part Type Group

PMDM for Automotive solution supports the following three automotive standards:

- AutoCare:** Standardization of part and fitment data pertaining to North America. The AutoCare Association manages this standard. More information about this standard can be found at www.autocare.org.
- NAPA:** Standardization of part and fitment data pertaining to North America. This standard is managed by the Genuine Parts Company.
- TecDoc:** Standardization of part and fitment data pertaining to Europe. TecAlliance manages this standard. More information about this standard can be found at www.tecalliance.net.

Supported Versions and Formats

The following are the supported import and export versions and/or formats for the various automotive standards.

Note: If there is only one format for the data type and the format itself is not versioned, 'Format is not versioned' is listed.

Generic

- **Asset Exporter:** Format is not versioned (generic exporter not specific to any standard).

AutoCare

- Brand Table Import Validation Rules: All three flat file formats are supported (original, with revision date, and with sub-brands and revision date with or without OEM)
- PAdb Import Validation Rules: ASCII, JSON
- PCdb Import Validation Rules: ASCII, JSON
- Qdb Import Validation Rules: ASCII, JSON
- VCdb Import Validation Rules: ASCII, JSON
- AutoCare ACES Application Exporter: ACES versions 3.0, 3.2, 4.0, 4.1, and 4.2
- ACES Import Validation Rules: ACES versions 3.0, 3.2, 4.0, 4.1, and 4.2
- AutoCare PIES Exporter: PIES Exporter: PIES versions 6.5, 6.7, 7.0, 7.1, and 7.2
- PIES Import Validation Rules: PIES versions 6.5, 6.7, 7.0, 7.1, and 7.2

NAPA: The NAPA commercial license has been discontinued.

- NAPA Application Exporter: Format is not versioned
- **Application Importer:** Format is not versioned
- **Asset Reference Exporter:** Format is not versioned
- **Interchange Exporter:** Format is not versioned

- **Interchange Importer:** Format is not versioned
- **Translation Importer:** Format is not versioned
- **Valid Vehicles Importer:** Format is not versioned

TecDoc

- TecDoc Reference Data Importer: TAF 2.4 and TAF 2.6 using either the ZIP or 7z formats
- **Supplier Data Exporter:** TAF 2.4 and TAF 2.6
- TecDoc Supplier Data Importer: TAF 2.4 and TAF 2.6 using either the ZIP or 7z formats

Quick Start Setup for Admins

This section addresses the necessary actions an admin user must take to set up the automotive solution.

Prerequisites

It is assumed that the admin user has knowledge of STEP administrative functions and experience working in System Setup, including creating and editing workflows, business rules, Web UIs, attributes, etc. Therefore, this documentation does not provide introductory material for these concepts and instead targets only the specific information needed for a knowledgeable STEP admin user to complete the Automotive solution setup. If additional information is needed, refer to the STEP Online Help.



Important: This documentation will often use the AutoCare standard as an example, but the same information is applicable for the NAPA and TecDoc standards.

Quick Start Setup Actions

Below are the required setup actions:

1. Create Easy Setup User
2. Run Easy Setup of Import Flow Process
3. Run Easy Setup of Standards
4. Update IIEP Users and Queues
5. Update Delete Status Attribute and Delta Calculation Method in Import Workflows
6. Update Assignees in Import Workflows
7. Determine Validation Error Handling for Each Import
8. Specify an Application Naming Convention
9. Specify Complete Replacement Handling (ACES Import Workflow Only)
10. Add Country Codes to Approved for LOV (ACES Export Only)
11. Update Web UI Configurations

12. Other Considerations

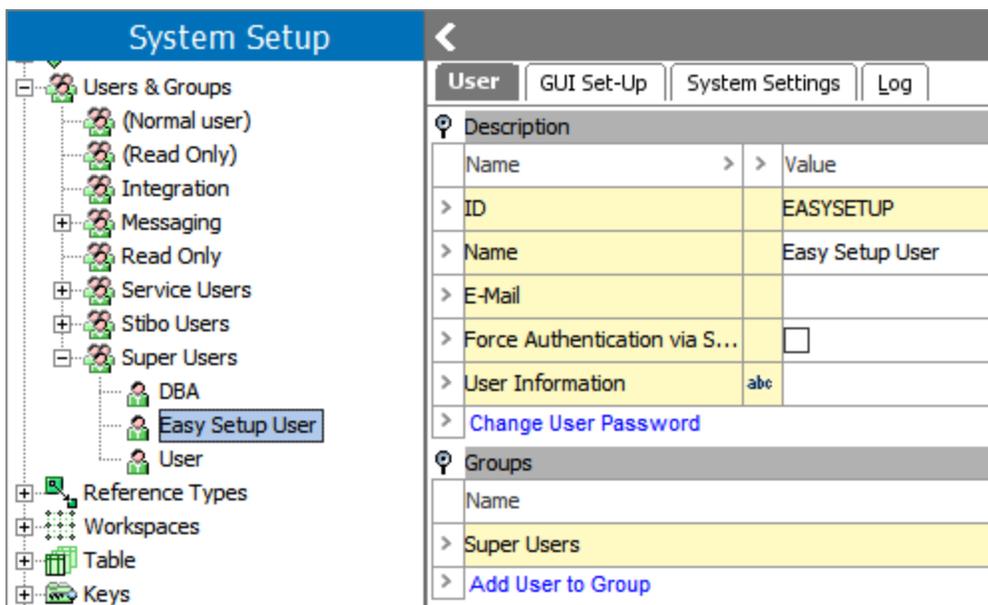


Important: The setup actions must be performed in the order in which they are listed. All steps are considered required for the setup, unless explicitly stated otherwise.

1. Create Easy Setup User

This setup action is not required, but is strongly recommended. The solution includes functionality to auto-create all objects, references, attributes, workflows, etc., required to support the solution. The user executing the auto-create functions (described in subsequent steps) will be recorded as the creator / editor of those objects in STEP. It is therefore recommended that a new user be created for this purpose, so that an accurate audit trail is in place.

The user must be created as a Super User without any privilege restrictions. For example:



The screenshot shows the 'System Setup' interface with a tree view on the left and a configuration panel on the right. The tree view includes categories like 'Users & Groups', 'Reference Types', 'Workspaces', 'Table', and 'Keys'. Under 'Users & Groups', 'Super Users' is expanded, and 'Easy Setup User' is selected. The configuration panel shows tabs for 'User', 'GUI Set-Up', 'System Settings', and 'Log'. The 'User' tab is active, displaying a table with user details.

Description	
Name	Value
ID	EASYSETUP
Name	Easy Setup User
E-Mail	
Force Authentication via S...	<input type="checkbox"/>
User Information	abc
Change User Password	
Groups	
Name	
Super Users	
Add User to Group	

System Setup < Super Users - Privilege Rules

Group Privilege Rules GUI Set-Up Log

Setup Privileges

Action Set	Attribute Group	Setup Group	Language	Country
> All Setup Actions			<ANY>	<ANY>

Add Privilege

User Privileges

Applies to	Action Set	Attribute Group	Object Type	Group	Language	Country
> Classification 1 r	All User Actions			Super Users	<ANY>	<ANY>
> Collections	All User Actions			Super Users	<ANY>	<ANY>
> eCatalogs	All User Actions			Super Users	<ANY>	<ANY>
> Entity hierarchy	All User Actions			Super Users	<ANY>	<ANY>
> Primary Product	All User Actions			Super Users	<ANY>	<ANY>
> Publications	All User Actions			Super Users	<ANY>	<ANY>

Add Privilege

Read Only

Additional information on managing Users and Groups and Privilege Rules in the System Setup documentation

The admin user managing the initial setup of the system should log in using this newly created user before carrying out the following actions.

2. Run Easy Setup of Import Flow Process

The Import Flow Process is the framework for importing automotive files across any of the standards. It only needs to be run once per system, regardless of how many standards will be implemented. However, it must be run *prior to* any of the Easy Setup functions for the standards.

Incoming automotive data files are modeled as entities in STEP. This setup action creates the necessary entity object types, as well as the attributes that will be available on the objects.

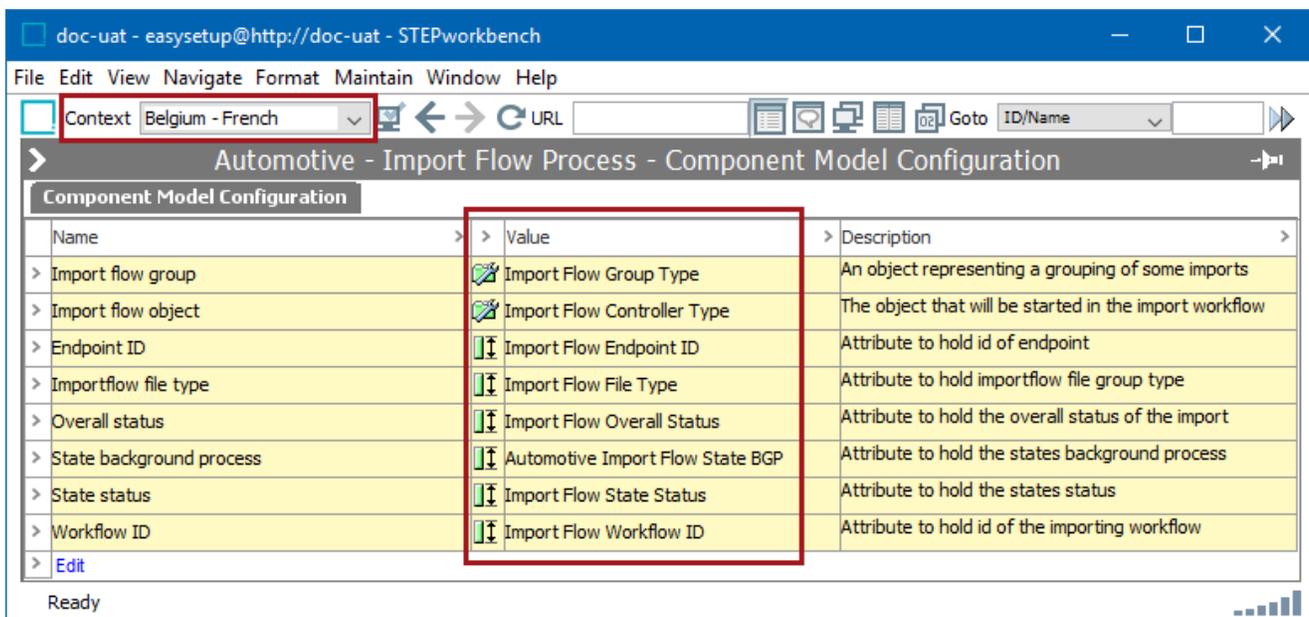
Configuration Steps

Below are the steps necessary to complete Easy Setup of the Import Flow Process:

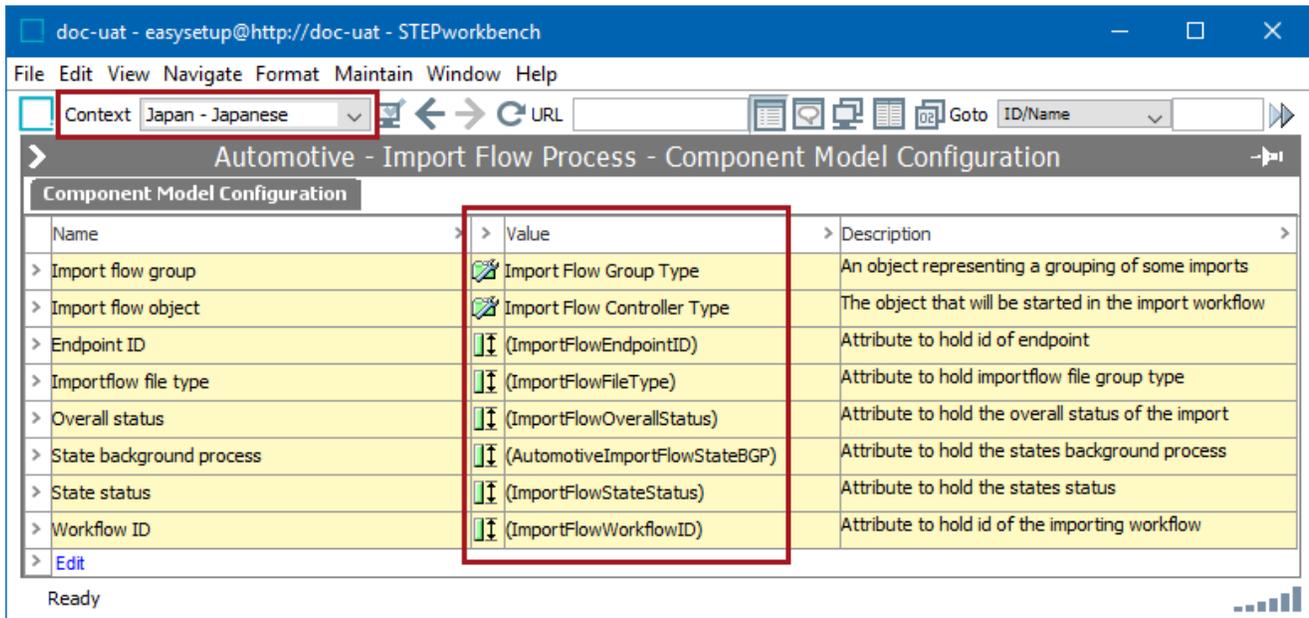
1. If an Easy Setup user will be utilized for maintaining a proper audit trail, log in to STEP as that user.
2. Go to **Context**, and select the most commonly used context option from the dropdown.

When Easy Setup actions are run, any object and/or attributes created will be populated with a respective name only for the context selected when the actions are run. Therefore, when a different context is selected, the default object and/or attribute name will display with parentheses.

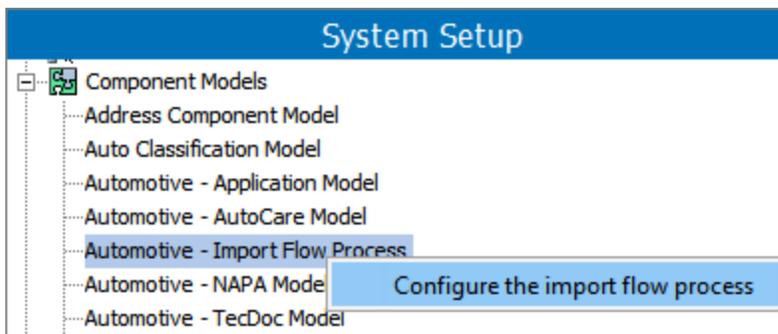
In the example below, the Automotive - Import Flow Process component model is displayed using with the same context used when the Easy Setup actions were run for the component.



Below, the same component model is displayed, but the context has been changed, and the attribute value names display with parentheses.



3. Go to **System Setup > Component Models > Automotive - Import Flow Process**.
4. Right-click **Automotive - Import Flow Process > Select Configure the import flow process**.



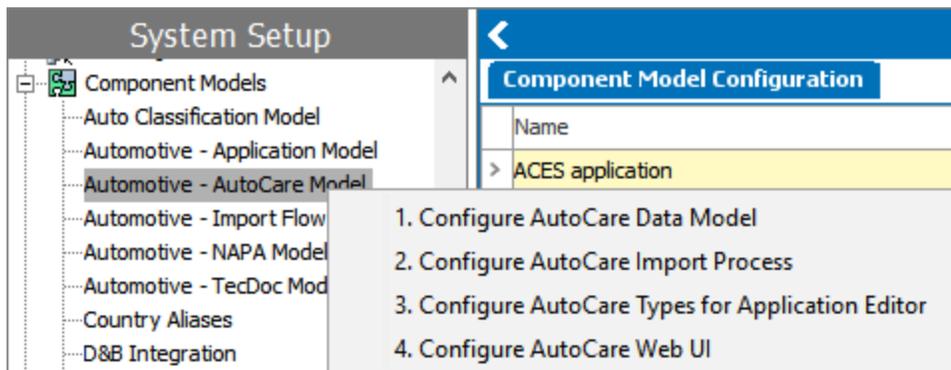
5. A dialog will display stating the changes that will be made by running the process. If you would like to record the changes, you may do so by taking a screenshot of the dialog. When you are ready to start the configuration process, click the **OK** button.
6. The system will create all necessary elements to support the Import Flow Process. This will typically take less than a minute, and when complete, a dialog will display listing each change that was made. Click the **OK** button to close the dialog and resume normal activities on the system.

3. Run Easy Setup of Standards

Each standard has a component model designed to handle the creation of all elements necessary to support the specific standard's core functionality. Regardless of the standard being set up, each follows the same process and has the following four actions that must be run sequentially:

1. Configure Data Model
2. Configure Import Process
3. Configure Types for Application Editor
4. Configure Web UI

For example:



Note: If an object already exists on a system, running Easy Setup will not change it. Therefore, users can run Easy Setup as needed to deploy new functionality, without risk of disrupting or changing current processes. If manual changes have been made to an object following creation by Easy Setup, these changes are retained if setup is subsequently re-run. This also means that when enablement of new functionality requires changing the setup of an existing object, that change must be made manually on existing implementations (while Easy Setup can handle it automatically in new implementations). Because of this, it is important to pay attention to information included in patch notes and carry out any manual configurations needed to enable new functionality.

A brief description is provided below about what each of the four setup actions creates, with additional information available throughout this and the Quick Start for Users section.

1. **Configure Data Model:** Each standard has a supporting data model consisting of object types / hierarchies, attributes, LOVs, and references. This setup action creates the elements needed to support the data model.
2. **Configure Import Process:** Each standard has multiple integration endpoints, workflows, business rules, and ID Structures used to support each type of import file.
 - In AutoCare, these are: ACES, PIES, Brand, PAdb, PCdb, Qdb, and VCdb.
 - In TecDoc, these are: Reference and Supplier.
 - In NAPA, these are: Application, Attribute, Interchange, Translation, and Vehicle.

Following configuration of the import process, an inbound integration endpoint and corresponding workflow (with business rules) will be created for each import type supported by the applicable standard, as well as hotfolders for each of the files to be placed into for processing.



Important: If part and application data are imported into STEP without using the proper ID structures, then errors will occur. Prior to importing, review the ID Structures in Importers topic.

In addition, a Web UI will be created that is pre-configured to provide access to the workflows used to manage the imports after the files are picked up by the hotfolders.

3. **Configure Types for Application Editor:** An application lookup / editor is provided for each standard, which also contains support for mapping application records between the standards or from your own model to one or more standard models. This step of the setup populates the component model (Automotive - Application Model) that supports the mapping of application records between the various models, though additional configuration is required beyond this to enable the mapper functionality.



Note: The population of this component model also drives the functionality of the Web UI screens that are available for application search and editing features, so this step is required to support application search functionality in Web UI (even if application record editing or mapping capabilities are not required).

4. **Configure Web UI:** A starting configuration for application search and edit functionality is provided for each standard, via three screens that are configured in this setup action. Additional configuration of the Web UI is required to make use of the created screens, which is described later. When running this setup action, you must select a Web UI for the screens to be created within. During the previous

Step 2 (Configure Import Process) a Web UI to manage imports for the standard is created. The screens can be added to that Web UI, or to any other Web UI. If multiple models are implemented, it may be useful to have application search / edit / mapping functions for all models available in a single Web UI, hence the option to choose which Web UI to create the screens in.

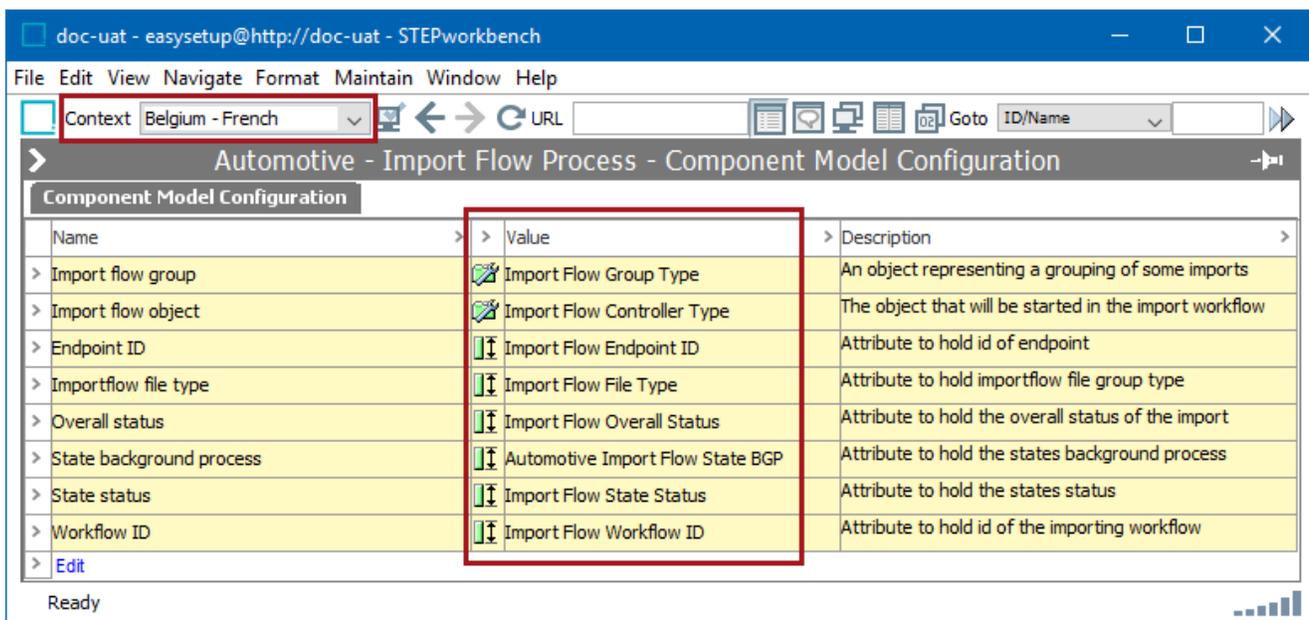
Configuration Steps

The following steps describe how to configure any of the standards using the Easy Setup method.

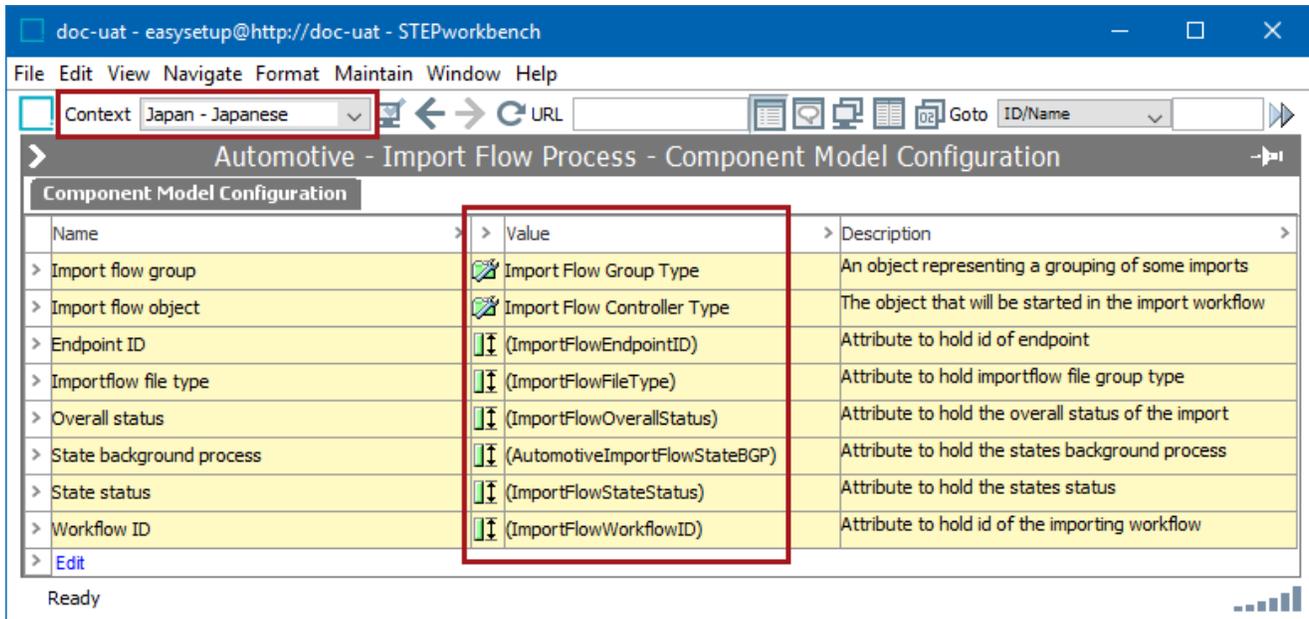
1. If an Easy Setup user will be utilized for maintaining a proper audit trail, log in to STEP as that user.
2. Go to **Context**, and select the most commonly used context option from the dropdown.

When Easy Setup actions are run, any object and/or attributes created will be populated with a respective name only for the context selected when the actions are run. Therefore, when a different context is selected, the default object and/or attribute name will display with parentheses.

In the example below, the Automotive - Import Flow Process component model is displayed using with the same context used when the Easy Setup actions were run for the component.



Below, the same component model is displayed, but the context has been changed, and the attribute value names display with parentheses.



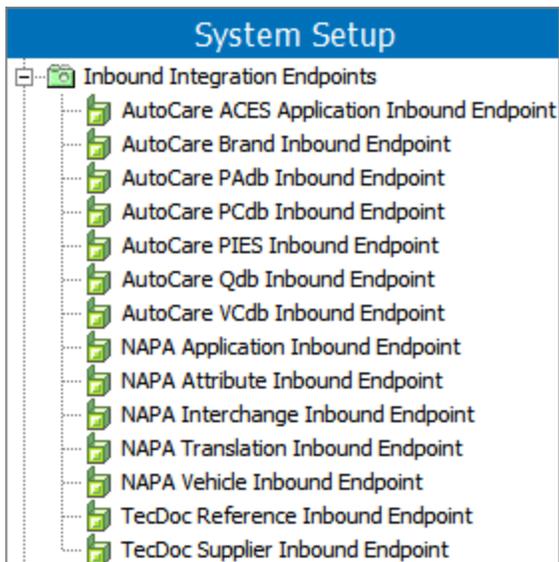
3. Go to **System Setup > Component Models > Automotive - [Standard] Model** (e.g., Automotive - AutoCare Model).
4. Right-click on the applicable component model and select each step (1 through 4) in sequence. In each case, a dialog will display stating the changes that will be made by running the process. If you would like to record the changes, you may do so by taking a screenshot of the dialog.
5. When you are ready to start the configuration process, click the **OK** button. The system will create all necessary elements to support the applicable process. This will typically take less than a minute for each of the four steps, and when complete, a dialog will display listing each change that was made.
6. Click the **OK** button to close the dialog and resume normal activities on the system.

The above can be repeated for each standard, as applicable. It is also possible to continue through the setup actions for a single standard, and return to this setup action for an additional standard later. In other words, there are no dependencies between the standards and while the setup steps within a standard must be followed sequentially, the setup process can be independently carried out per standard.

7. If an Easy Setup user is being utilized for maintaining a proper audit trail, log out of STEP as that user.

4. Update IIEP Users and Queues

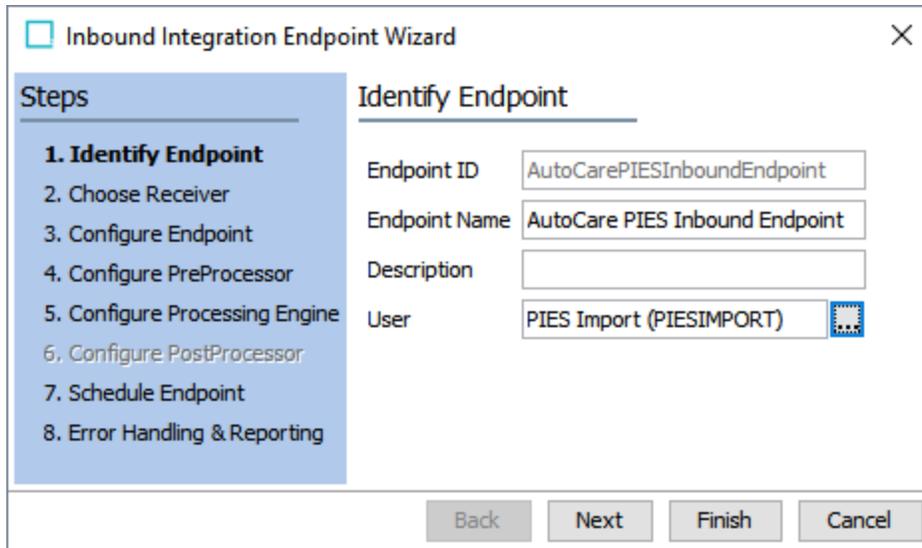
Each file type supported by the solution has a corresponding inbound integration endpoint. Each endpoint is created with the user who ran the "2. [Standard] Configure Import Process" setup action (within the Easy Setup for the standard) as the executing user of the endpoint. In addition, each endpoint is set up to run using the default endpoint process queue (In). The endpoints can be found under the Inbound Integration Endpoints node on the System Setup tab:



Configuration Steps

While not strictly required, it is recommended to adjust the configuration of each endpoint as follows:

1. It is recommended that a unique user be assigned to each endpoint for auditing purposes. To update the user for each endpoint, right-click on the endpoint and select **Edit Inbound Integration Endpoint**. This will open the first step of the integration endpoint wizard, which contains a **User** parameter. For example, a 'PIES Import' user could be created and selected as the user for the AutoCare PIES Inbound Endpoint.



2. The recommended BGP execution mechanism prioritizes BGPs based on the priority of the BGP and the created time. Refer to the BGP One Queue topic in the System Setup documentation.

Implementations using the legacy BGP functionality should determine how queues should be configured for the system. High priority endpoints and those with long running processes should typically have their own queue. To adjust the queue configuration on any endpoint, select the endpoint and click the **Edit Configuration** link. Then enter a value in the legacy **Queue for endpoint processes** parameter. It is advisable to name the queue something comparable to the endpoint name so that the queue can be clearly identified by the system administrators.

Inbound Integration Endpoint	
Next run	2017-06-20 16:39:00
Configuration	
Pre-Processor	No pre-processing
Process Engine	Import Flow Processor
Post-Processor	No post-processing
Error Handling & Reporting	Not Defined
Schedule	Start every minute
Queue for endpoint	InboundQueue
Queue for endpoint processes	In
Transactional settings	None
Maximum number of old processes	1000
Maximum age of old processes	1 year
Number of messages per background pro	1
Contexts	English US
Workspace	Main
Edit Configuration	
Hotfolder Receiver Configuration	
ID	
Hotfolder	

Inbound Integration Endpoint Wizard

Steps

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

Configure Endpoint

Processing Engine:

Transactional settings:

Context: Workspace Context

Queue Settings

Queue for endpoint:

Queue for endpoint processes:

Maximum number of waiting processes:

Maximum number of old processes:

Maximum age of old processes:

Number of messages per background process:

Back Next Finish Cancel

Additional information on creating users, editing endpoints, and recommendations for legacy endpoint queue settings can be found in the Working with Users topic within the System Setup documentation, and the Maintaining an Inbound Integration Endpoint and the IIEP - Configure Endpoint topics within the Data Exchange documentation.

5. Update Delete Status Attribute and Delta Calculation Method in Import Workflows

Note: Setup actions 5 - 8 are all carried out within the workflows and do not need to be done sequentially. Therefore, you can make all changes within a given workflow simultaneously to avoid opening and editing each workflow repeatedly.

Each workflow has a Delta Calculation state where the system evaluates the content of the import file as compared to the content of the database, or against the previously loaded file of that type. For data that is determined to require deletion, the importer does not actually delete the data, but instead writes to an attribute that the data *should* be deleted. This allows each customer to determine their own strategy for managing deletions, such as processing the deletions via a workflow.

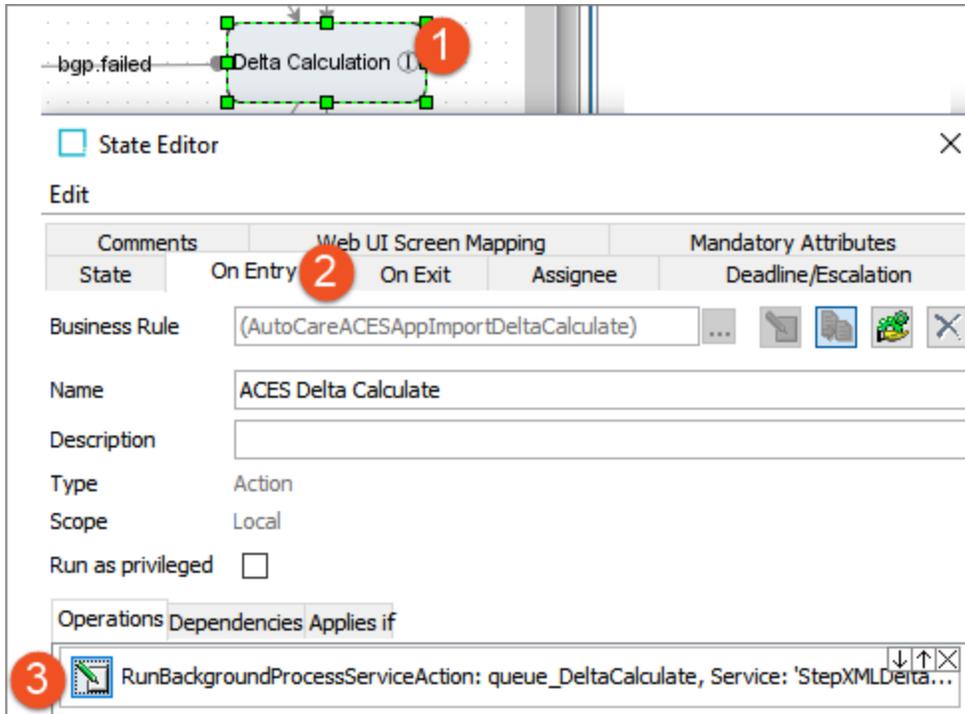
In order to enable the system to indicate data for deletion, the attribute to be used to hold the deletion information must be specified. A single attribute can be used for all imports, or unique attributes can be created to store deletion status for varying objects or imports. In either case, when an importer determines that data should be deleted, it writes 'true' in the attribute indicated in the **Delete status attribute** of the delta calculation service of that importer. Additionally, the system must be configured to process imports by comparing the incoming file against the database, or by comparing it against the previously loaded file of that type. For more information about implementing one or more delete status attributes (also known as change flags), refer to the Business Action: Set Import Status Attributes topic within the 'Automotive Business Rule Plugins' section.

Configuration Steps

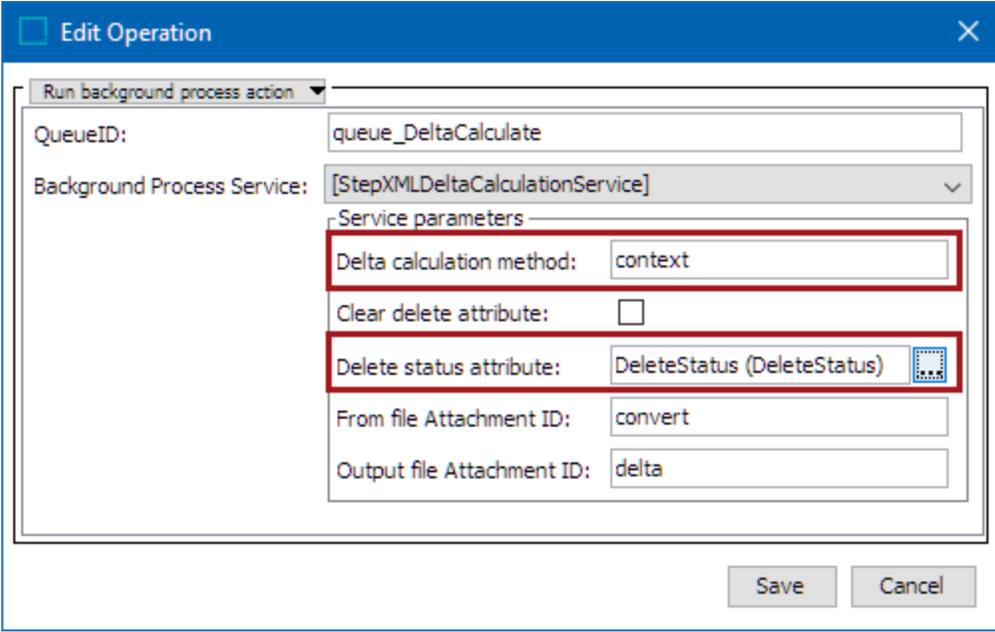
Below are the steps necessary to specify the delta calculation method and the delete status attribute in any import workflow:

1. Step 1 of Easy Setup will create a 'Deleted' (Import_Deleted) attribute. Alternatively, manually create an attribute that can be used to store the delete status of an object. The attribute should be valid for the object(s) being managed by the import. For example, an attribute used in the AutoCare ACES Application Importer must be valid on ACES Application objects. Alternatively, an attribute used in the AutoCare PCdb Importer must be valid on all nodes in the PCdb classification hierarchy.

2. Select a workflow, right-click, and select **Edit STEP Workflow**.
3. Double click on the **Delta Calculation** state to open the State Editor. Select the **On Entry** tab and click the Edit icon on the existing business rule.



4. In the Edit Operation dialog, write 'file' or 'context' in the **Delta calculation method** parameter, and click the ellipsis button (...) on the **Delete status attribute** parameter to select an attribute that should be used to store deletion status.



Delta calculation methods

- context:** Compares the data in the input file against the data in the database. It is recommended to use this option only as needed, which is when data is managed outside of the import process, or when import files of that type contain varying data sets. Oftentimes this method is required for supplier data. This method takes longer to process, but ensures accuracy when data management strictly via import cannot be guaranteed, or when datasets vary within the file type.

For example, because ACES files can come from multiple sources (Suppliers or Brands), it is required that the files are imported using 'context' method for delta calculation so that the data is compared against the database instead of the previously imported file. For this reason, Easy Setup configures the 'Delta calculation method' parameter with 'context' for the AutoCare ACES Import workflow.



Important: The 'context' method is required for AutoCare ACES Import Workflow (because of the ACES Complete Replacement functionality). PIES Import Workflow should only use 'context' method if there is a need to track deleted objects, refer to more details in the **Considerations** section available within this topic below.

- file:** Compares the data in the input file against the data in the last loaded file of the same type. It is recommended to use this option whenever possible (especially for Auto Care reference data files such as VCdb, PCdb, PAdb, Qdb, and Brand) as it has a performance advantage over the context

method. The file method is suitable for any format where the data is managed strictly via import and contains consistent data sets, as is often the case for reference data.

Important: When using the 'file' delta calculation method, files that have been discarded cannot be used for delta calculations. Therefore, the last loaded file (controller entity) must be retained in order for it to be used in delta calculation.

For example, a PCdb file always contains all data for the PCdb. If a part terminology is not present in the current file, it is because it has been removed from the PCdb. Using either the file or the context method would result in the missing part terminology being appropriately marked for deletion, but as the data set is consistent and usually only managed via import, the file method is preferred to take advantage of the faster processing time.

Important: The above action of setting the delete status attribute serves only to configure the attribute that will store the deletion. Each implementation should further determine a process for managing deletions for each import.

For more information on editing workflows and/or business rules, refer to the Workflows and Business Rules documentation.

Considerations

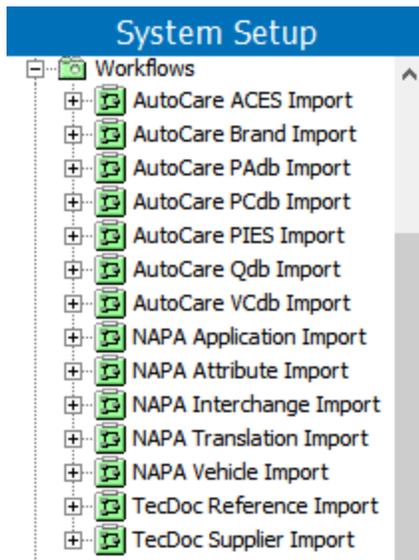
As mentioned above, the 'file' and 'context' methods work differently with their significance and limitations. Below are some of the considerations that users should be mindful about:

- If users want to track new / change / delete flags for PIES objects as well as use replacement rules to update PIES attribute values and data container values, the PIES importer 'Delta calculation method' parameter must be set to '**context**.' And if users want to track only the new or changed objects (without deleted objects), and also use replacement rules, then the PIES importer Delta calculation method parameter must be set to '**file**.'
- The PIES Importer will flag only the PIES Item, PIES Package, and PIES HazMat objects for deletion. It will not flag PIES Interchange objects for deletion (because interchange objects are shared between multiple suppliers). Further, the PIES Importer will not flag the PIES Product Hierarchy objects (PIES Brand / PIES PCdb Category / PIES PCdb Sub Category / PIES PCdb Part Terminology) for deletion (because multiple PIES imports could share those objects).

- If users want to track delete flags for PAdb attributes, the PAdb importer 'Delta calculation method' parameter must be set to **'file.'** The PAdb Importer can mark only the PAdb attributes for deletion. Attribute links, UOMs, and LOVs will not be handled to be marked for deletion.

6. Update Assignees in Import Workflows

Each import process has a corresponding workflow and all workflows are created with a default assignee of 'stepsys.' The workflows can be found under the Workflows node of the System Setup tab:



Each workflow must have the assignees updated to appropriate users or groups, either by defining a new default assignee for the workflow, or by removing the existing default and applying specific assignees per state.

Any users with the 'STEP Workflow Administrator' setup action as part of their privileges will be able to review and work with files in all states of the workflows. To quickly get up and running with the import functionality, it may be useful to add admin users to a group that contains this privilege, allowing those users to familiarize themselves with the workflow functionality while end user privileges are determined.

Note: The workflow administrator privilege can be applied to a setup group. If end users should be able to access data and take action in all states of the import workflows, the import workflows can be placed in a setup group and users who need to import the files can be added to a user group that contains the privilege applied to the applicable setup group. This will allow users to have full access to the import functionality, but only for those workflows in the setup group, leaving their access in other workflows unchanged.

For more information on workflow assignees, refer to the Assignees in Workflows topic within the Workflows documentation.

For more information on user groups, privileges, and setup groups, refer to the Users and Groups topic of the System Setup documentation.

7. Determine Validation Error Handling for Each Import

Each import has some basic format validations applied, and each implementation must determine how these should be handled. For more information about the Validation state, refer to the Validation State topic of the 'Importing Automotive Data' section of the Automotive Reference Guide.

Otherwise, it is important to understand that the handling of validation errors can be configured by enabling / disabling the 'Continue on Error' parameter on the Validation state of each import workflow. By default, the 'Continue on Error' parameter is disabled.

For example, when reference data includes multiple files and a data point included in one is not present in a corresponding related file (e.g., a PCdb Codemaster file includes a position that is omitted from the Position file in the same PCdb), an error will be written to the execution report of the validation process. However, as reference data is typically managed by an outside source (e.g., AutoCare, TecDoc, or NAPA), it may be desired to import the data regardless of these types of errors. If so, the 'Continue on Error' parameter should be checked on the validation service. In this case the validation issues will still be written to the execution report, but all valid data will be converted and made available for the import process. If unchecked, validation errors will cause the import process to stop and will need to be corrected before the file can complete validation and continue on in the import process.

Additionally, consider when an importer has a strict file name validation rule (e.g., NAPA Vehicle and NAPA Translation Importers), should a bad file name stop the data from being imported? If so, then the parameter should remain disabled. If not, then the parameter should be enabled.

For more information on how this setting changes how a users actions when importing data, refer to the Validation Error Handling topic of the Automotive Reference Guide.

Enabling / Disabling Continue on Error

Below are the steps to enable / disable the 'Continue on Error' parameter:

1. When editing a workflow, double click on the **Validation** state to open the State Editor.
2. Select the **On Entry** tab and click the **Edit** button on the existing business rule.
3. Check or uncheck the **Continue on Error** setting as desired.

The screenshot displays the STIBO Systems State Editor interface. At the top, a state named 'Validation' is highlighted with a green dashed border and a red circle containing the number '1'. Below this, the 'State Editor' window is open, showing the configuration for the 'Validation' state. A red circle with the number '2' points to the 'Comments On Entry' field. The 'Business Rule' is set to '(AutoCareACESAppImportValidation)'. The 'Name' is 'ACES Validation'. The 'Type' is 'Action' and the 'Scope' is 'Local'. The 'Run as privileged' checkbox is unchecked. Below the 'Operations' tab, a red circle with the number '3' points to the 'RunBackgroundProcessServiceAction: queue_Validation, Service: 'AutoCare' entry. The 'Edit Operation' window is open, showing the configuration for this action. The 'QueueID' is 'queue_Validation' and the 'Background Process Service' is '[AutoCareValidationService]'. The 'Service parameters' section shows 'AutoCare file attachment ID: original'. The 'Continue on Error' checkbox is checked and highlighted with a red box.

1 Validation

2

3

State Editor

Edit

Deadline/Escalation	Comments	Web UI Screen Mapping
State	On Entry	On Exit

Business Rule: (AutoCareACESAppImportValidation)

Name: ACES Validation

Description:

Type: Action

Scope: Local

Run as privileged:

Operations Dependencies Applies if

RunBackgroundProcessServiceAction: queue_Validation, Service: 'AutoCare'

Edit Operation

Run background process action

QueueID: queue_Validation

Background Process Service: [AutoCareValidationService]

Service parameters

AutoCare file attachment ID: original

Continue on Error:

8. Specify an Application Naming Convention

When applications are imported into STEP using the ACES, NAPA Application, and/or TecDoc Supplier importers, the STEP Name for applications is set to match the Part Name. However, you can specify a naming convention for the Application Name to be set automatically during the import process.

This is an optional configuration. If you do not have specific requirements around your application naming convention, this setup action can be skipped.

Prerequisites

Configuring a naming convention consists of creating a business action with the provided JavaScript, and editing the 'Import' state for the application Import workflow of each implemented standard created during the Easy Setup actions. For more information, refer to the Business Actions and the Workflows documentation.

Within this topic, three examples of JavaScript are provided that will change the Application Name to be [VehicleName (Year Make Model)], [VehicleName PartName], or [YearRange Model PartName]. The Vehicle Name is retrieved using a classification reference type specific to each standard. Below is a list of each standard and the classification reference used to retrieve the Vehicle Name.

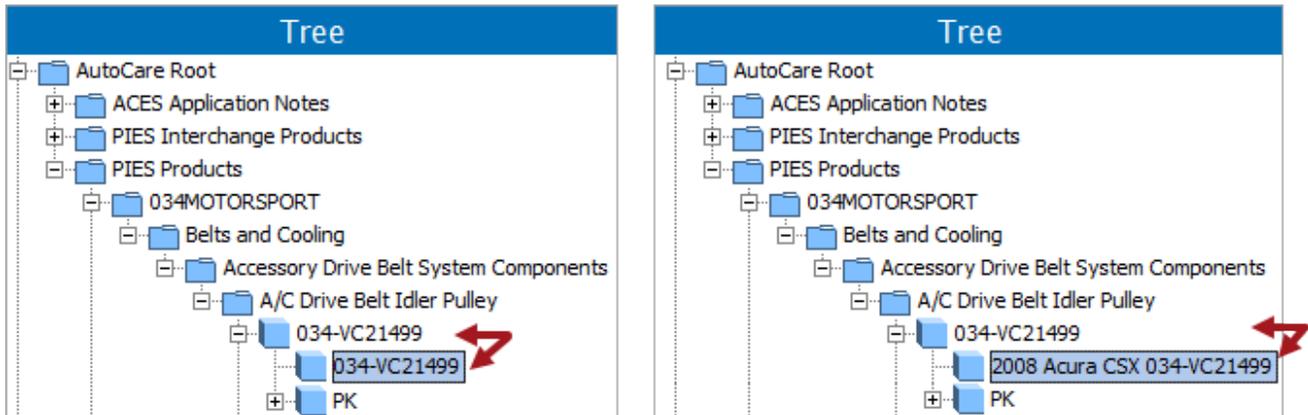
- **AutoCare:** ACES Application To Base Vehicle or ACES Application To Model
- **NAPA:** Application To Year
- **TecDoc:** Supplier Article To Vehicle Type (PC)

 **Important:** If your data model does not use the classification references listed above, then the JavaScript provided in this topic must be modified to work as expected.

Results

When the JavaScript provided within this topic is used, instead of the Application Name matching the Part Name, the Application Name will be a result of the Vehicle Name and the Part Name.

In the example below, two screenshots of the same application are displayed. In the screenshot on the left, the Application Name (034-VC21499) is displayed beneath the Part with the same name. Whereas in the screenshot on the right, the Application Name (2008 Acura CSX 034-VC21499) has been automatically updated during import to include the AutoCare Base Vehicle Name (2008 Acura CSX) and Part Name (034-VC21499).



Configuring an Application Naming Convention

To specify a more desirable application naming convention, a new business action to set the Application Name on import needs to be created, and the 'Import' state for the respective workflow must be edited to utilize the newly created business action.

Create a business action to set the Application Name on import

Below are the steps for creating a business action with the provided JavaScript to set the Application Name on import to [VehicleName PartName]. For more information on creating a business rule, refer to the Creating a Business Rule, Function, or Library topic of the Business Rules documentation.

1. Create a business action using the 'app' variable that binds to 'Current Object.'
2. Add one of the following JavaScript options:

Option A: Displays the [Year Make Model]

```
app.setName (app.getAssembly().getName());
```

Option B: Displays the [Year Make Model PartName]

```
app.setName (app.getAssembly().getName() + " " + app.getPart().getName());
```

In the example below, the business action (Set Application Name) is configured to work with the AutoCare, NAPA, and TecDoc standards by selecting the respective Valid Object Types.

The screenshot shows the 'Business Rule Editor - Set Application Name' window. The 'Valid Object Types' field is set to 'DS_Linkage, NAPA Application, ACES Application'. Below this, the 'Operations' tab is active, showing a JavaScript business action with the following code: `app.setName(app.getAssembly().getName() + " " + app.getPart().getName());`. An 'Edit Operation' dialog is open, showing the 'Execute Javascript' operation with a 'Binds' table:

Variable name	Binds to
app	Current Object

The JavaScript code in the dialog is: `app.setName (app.get&assembly ().getName () + " " + app.getPart ().getName ());`. A red box at the bottom left of the main window is labeled 'Add new Business Action'.

Option C: Displays the [YearRange Model Part Name]

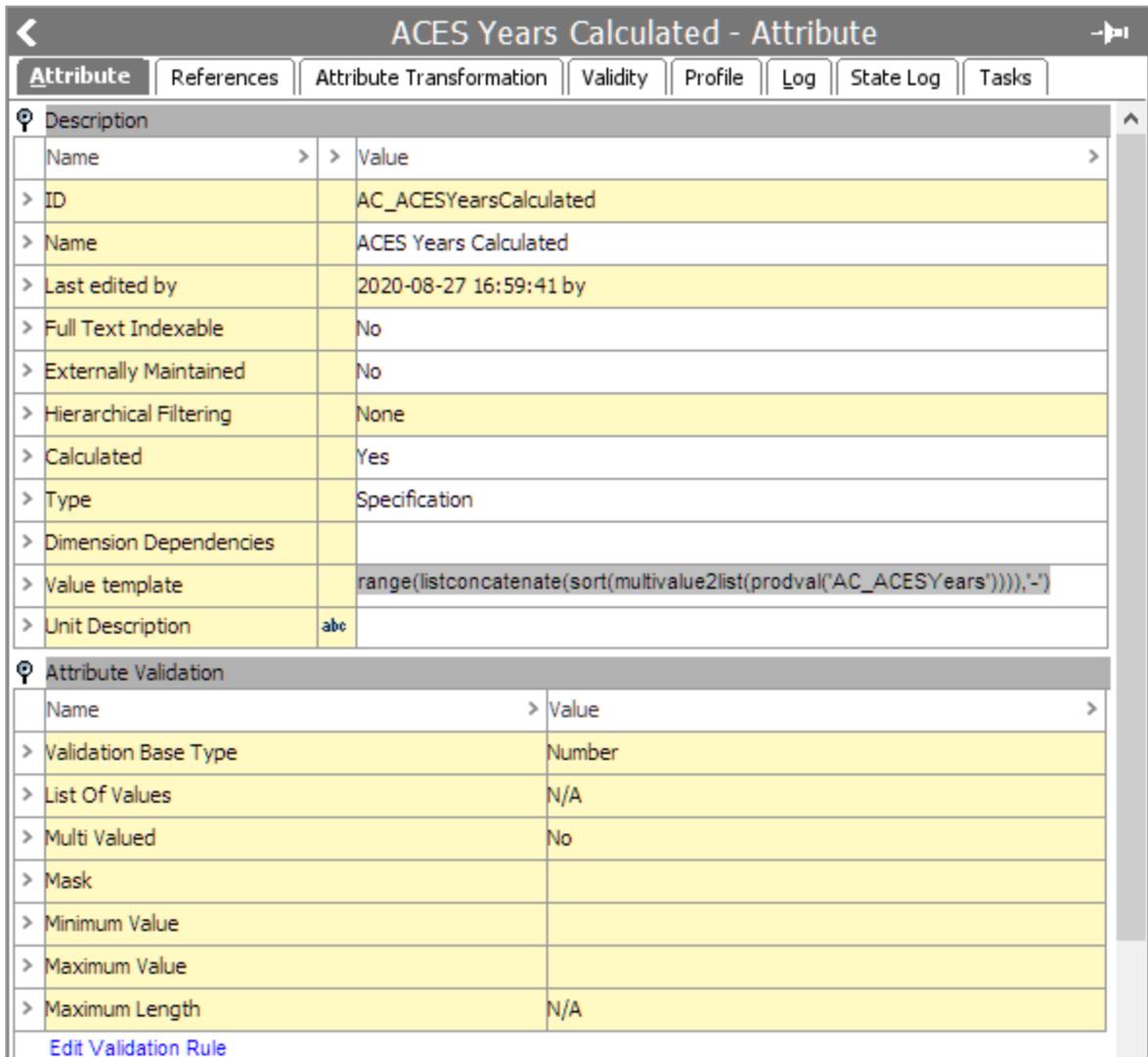


Note: This option is only applicable for Auto Care standard. To use year range in the application naming convention, the 'Use year range' parameter that is available in the ACES Conversion state must be selected. For more information, refer to the Conversion State topic within the Automotive Reference Guide.

To get the year range to display in the application Name, a calculated attribute using the following functions should be created in the system before creating / editing the business action:

```
range(listconcatenate(sort(multivalue2list(prodval('AC_ACESYears')))), '-')
```

In the example below, the calculated attribute ACES Years Calculated (ID = AC_ACESYearsCalculated) is created.

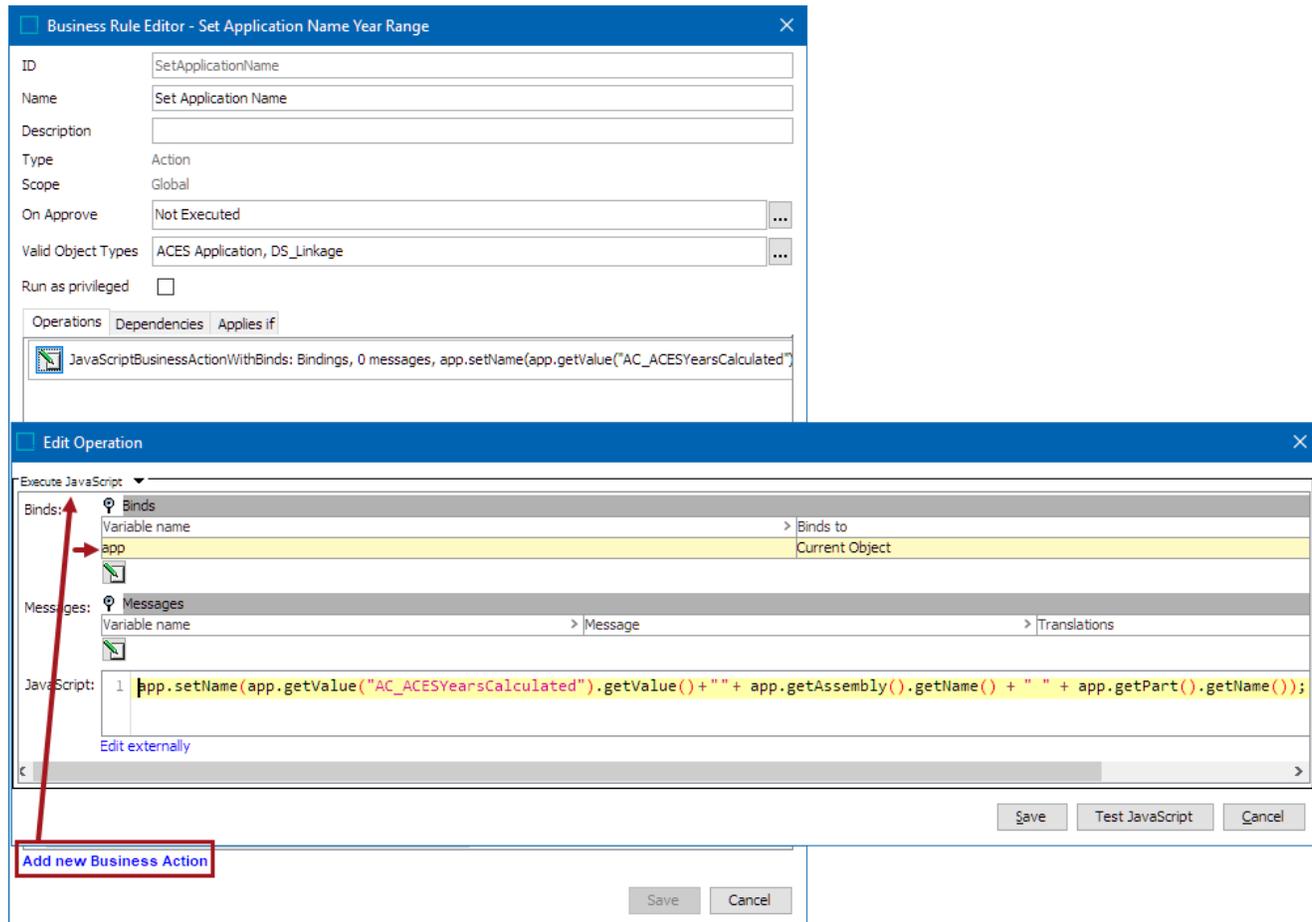


Attribute		References	Attribute Transformation	Validity	Profile	Log	State Log	Tasks
Description								
Name	>	>	Value	>				
ID			AC_ACESYearsCalculated					
Name			ACES Years Calculated					
Last edited by			2020-08-27 16:59:41 by					
Full Text Indexable			No					
Externally Maintained			No					
Hierarchical Filtering			None					
Calculated			Yes					
Type			Specification					
Dimension Dependencies								
Value template			range(listconcatenate(sort(multivalue2list(prodval('AC_ACESYears')))), '-')					
Unit Description		abc						
Attribute Validation								
Name	>	>	Value	>				
Validation Base Type			Number					
List Of Values			N/A					
Multi Valued			No					
Mask								
Minimum Value								
Maximum Value								
Maximum Length			N/A					
Edit Validation Rule								

The above created calculated attribute has to be included in the JavaScript of the business action:

```
app.setName(app.getValue("AC_ACESYearsCalculated").getValue() + " " +
app.getAssembly().getName() + " " + app.getPart().getName());
```

In the example below, the business action (Set Application Name) is configured to get the year range to display in the application Name after importing the ACES file.



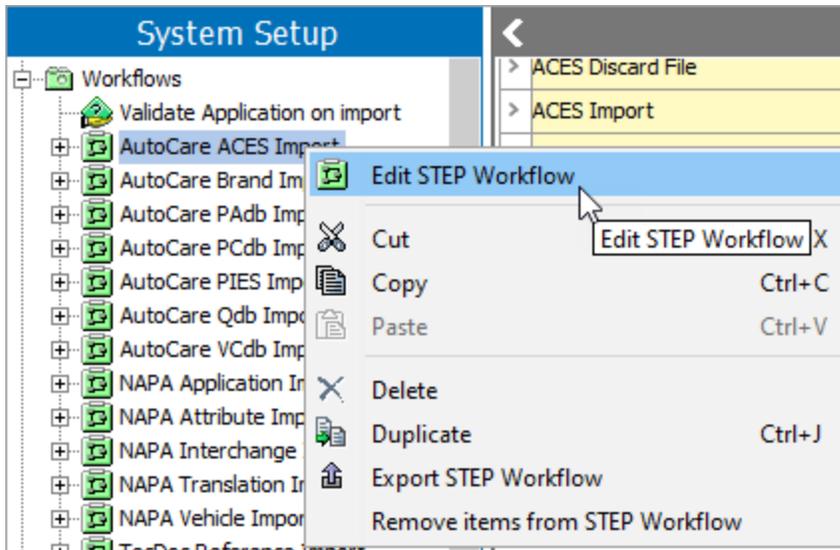
Add the business action to the 'Import' state of the respective Import Workflow

Once a business action has been created with JavaScript, as shown above, the business action needs to be added to the 'Import' state of the respective import workflow.

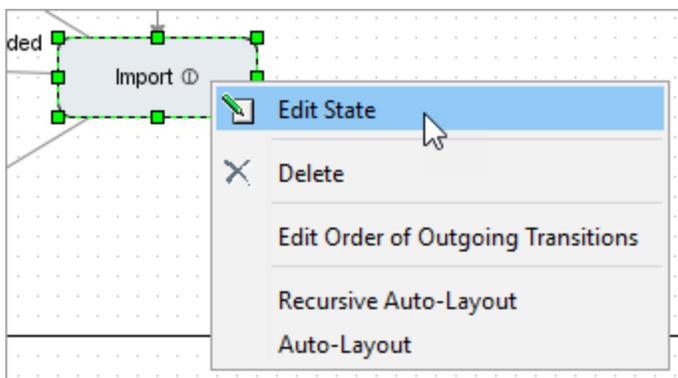
1. Go to System Setup > Workflows > Select the workflow used by the importer.

For the business action example provided above, the configured valid object types allow for the business action to be used in one or more of the following import workflows: AutoCare ACES Import, NAPA Application Import, and TecDoc Supplier Import.

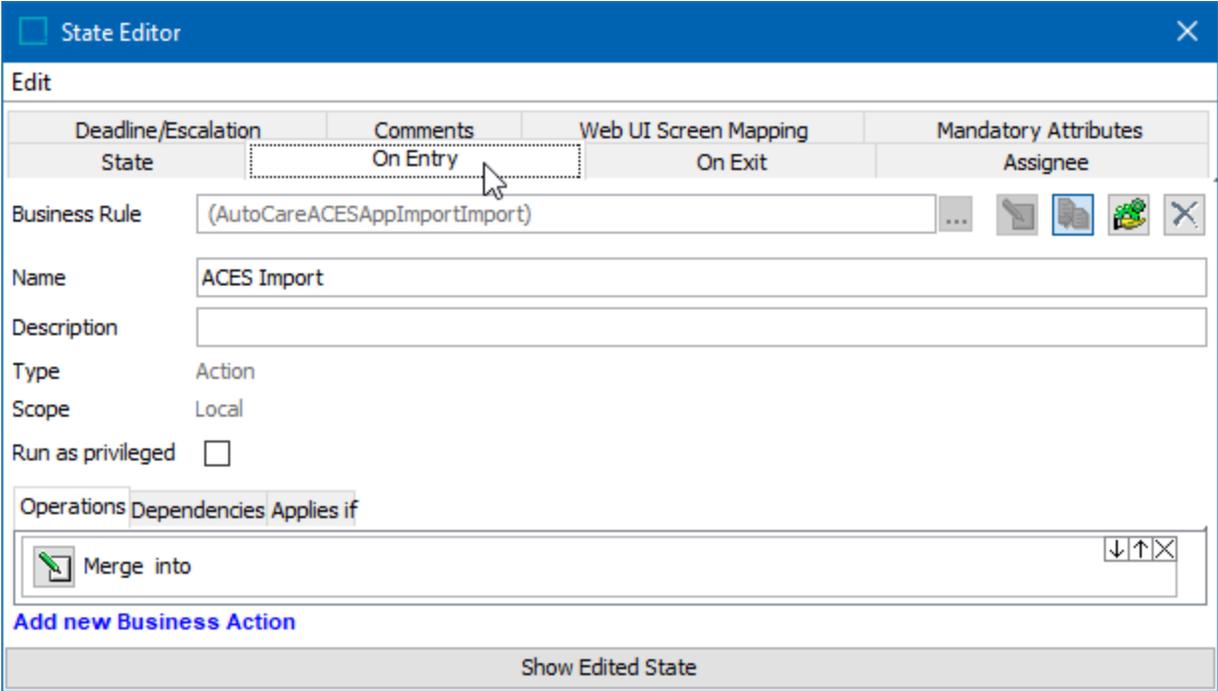
2. Right-click the respective workflow, select **Edit STEP Workflow**, and the STEP Workflow Designer will display.



3. Within the STEP Workflow Designer, right-click the **Import** state, select **Edit State**, and the State Editor will display.



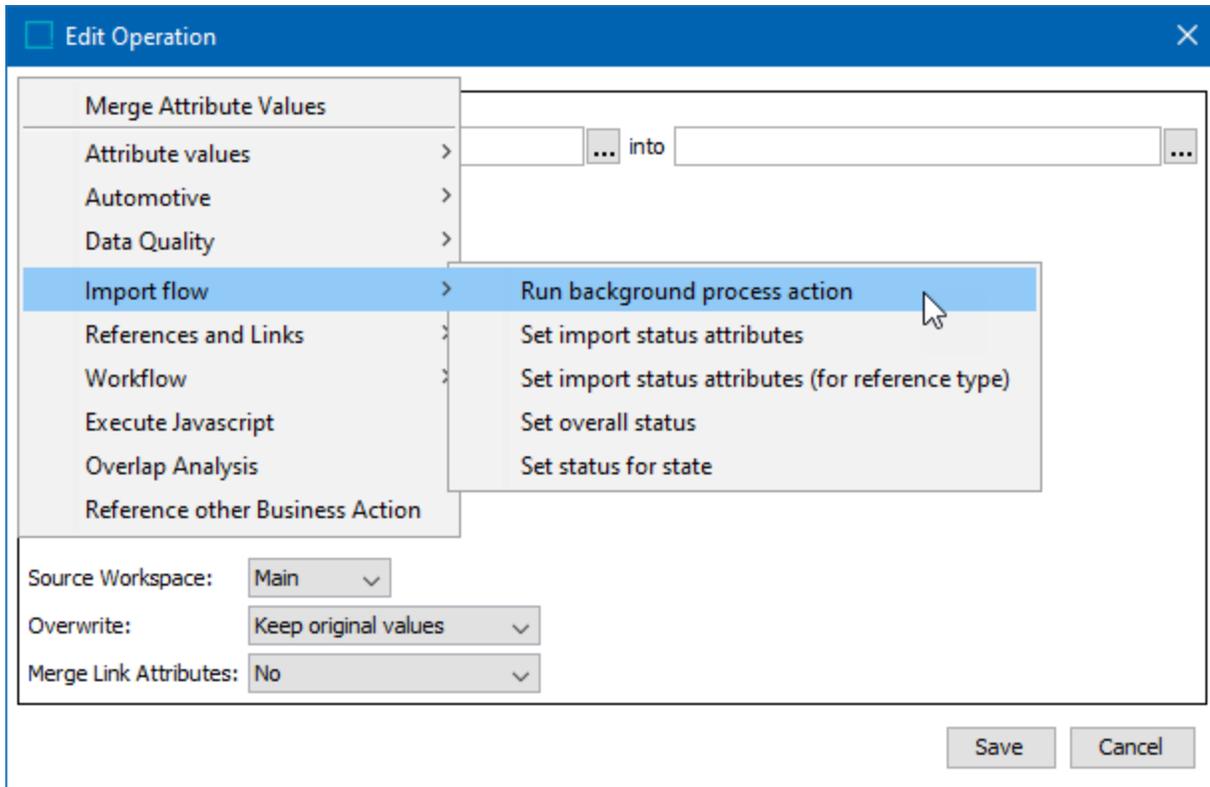
4. Within the State Editor, click the **On Entry** tab (as shown below).



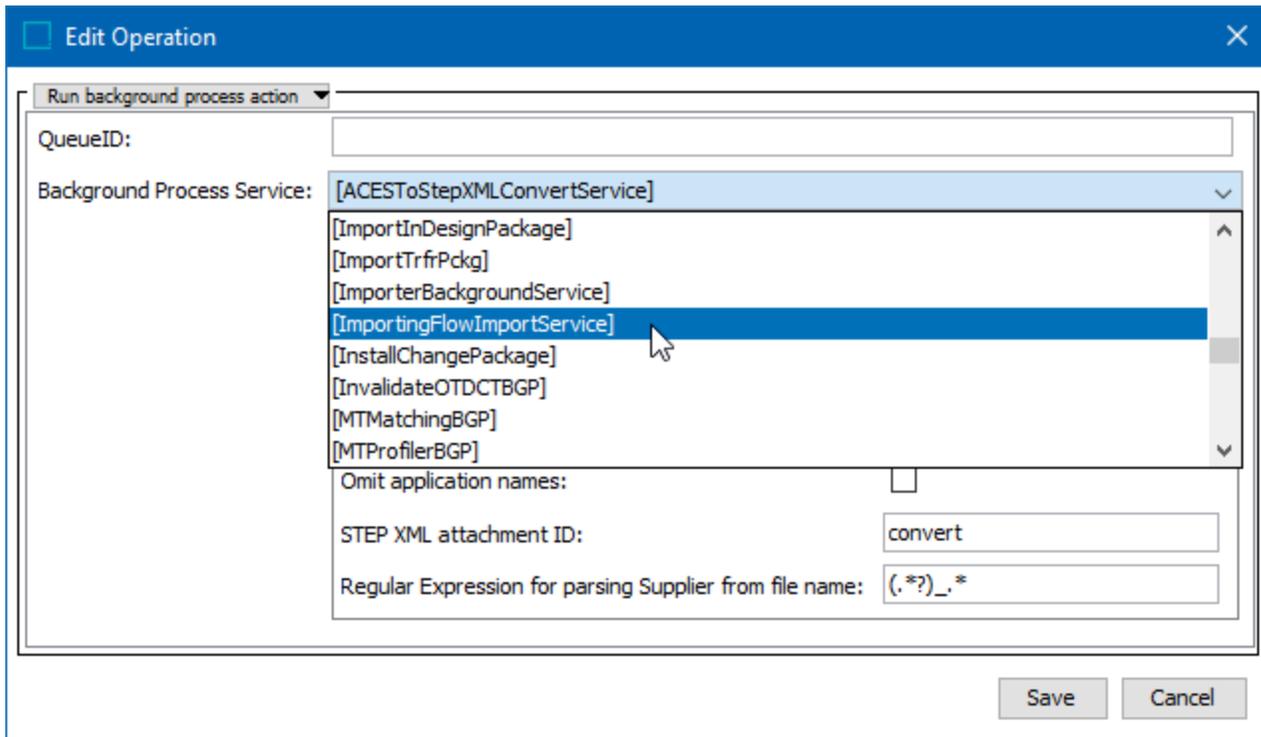
The screenshot shows the 'State Editor' window with the 'On Entry' tab selected. The 'Business Rule' field contains '(AutoCareACESAppImportImport)'. The 'Name' field contains 'ACES Import'. The 'Type' is 'Action' and the 'Scope' is 'Local'. The 'Run as privileged' checkbox is unchecked. The 'Operations' tab is active, showing a 'Merge into' operation. The 'Show Edited State' button is visible at the bottom.

Note: If a business action using the 'Run background process action' has been previously added to this state, then click the **Edit Operation** button and skip to step 11 below.

5. Click the **Edit Operation** button, and the Edit Operation dialog will display.
6. Click the operation dropdown, hover over Import flow, and select the **Run background process action** (as shown below).

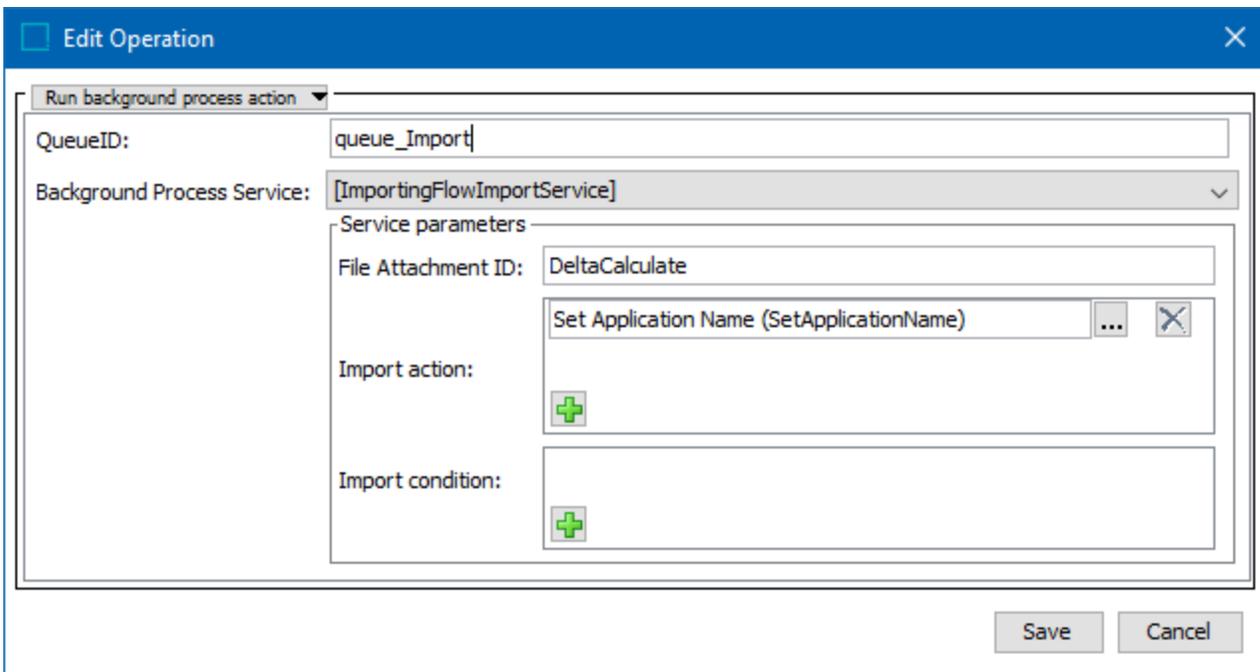


- Use the Background Process Service parameter dropdown to select **[ImportingFlowImportService]**, as shown below.



8. Once the [ImportingFlowImportService] Background Process Service is selected, the Edit Operation dialog will display.
9. **QueueID:** Specify the queue in which the background process should run.
10. **File Attachment ID:** Must be populated with the same value found in the 'Output file Attachment ID' parameter of the Delta Calculation State.
11. Within the 'Import action' parameter, click the green icon () to add an action.
12. Click the ellipsis button () to find and select the business action created to set Application Name on import.

Below is an example of how the operation should look prior to saving.



13. Click the **Save** button, and close the STEP Workflow Designer.

9. Specify Complete Replacement Handling (ACES Import Workflow Only)

This setup action is only required if the AutoCare standard is being configured, and only needs to be carried out within the ACES functionality. If the AutoCare standard is not being configured, this setup action can be skipped.

 **Important:** ACES Complete Replacement functionality requires use of the context method, as described in 5. Update Delete Status Attribute and Delta Calculation Method in Import Workflows.

The ACES standard specifies two file load types, indicated via the 'SubmissionType' field in the header: FULL and UPDATE. At a high level, FULL means "replace what is in the system with what is in this file" while UPDATE means "only update the records in the file, by adding or deleting as indicated in the action code on each record." In practice though, ACES files usually contain sets of application records for a brand, product line, part type, supplier, etc. so the replacement concepts need to be more granularly specified to indicate the level at which the applications should be replaced or updated.

Configuration Steps

To configure ACES application import handling:

1. Verify that the delete status attribute has been populated as described in step 5.
2. Double click on the **Conversion** state to open the State Editor. Select the **On Entry** tab and click the Edit icon on the existing business rule.
3. Populate each of the ACES parameters in the business rule. These parameters specify the global handling for ACES files across the full system and the options for population are defined below. Note that each Brand can also have unique handling applied, which is also further described below.

Edit Operation

Run background process action ▼

QueueID: queue_Conversion

Background Process Service: [ACESToStepXMLConvertService]

Service parameters

ACES Default FULL Import handling: BRAND

ACES Default SUPPLIER Import handling: NO

ACES Default UPDATE Import handling: STANDARD

AutoCare file attachment ID: original

Create PIES items:

Error count attribute: ...

Error file attachment ID: error

Filter applications with errors:

Good application count attribute: ...

Import mode attribute: ...

Importing Brands attribute: ...

Importing Part Terminologies attribute: ...

Omit application names:

STEP XML attachment ID: convert

Regular Expression for parsing Supplier from file name: (.*?)_.*

Treat notes as errors:

Validate applications:

Save Cancel

- Optionally, populate the 'Regular Expression for parsing Supplier from file name' parameter (using the JavaScript regular expression format) to specify how the Supplier value should be extracted from the ACES file name. By default, the parameter is populated with `(.*?)_.*`, meaning that the system will extract the first string prior to an underscore (typically a Supplier value) in the file name as this is how the ACES standard defines the naming convention. For example, with a file name of `ACMESupply_BrakeHardware_2016-04-23_FULL.xml`, 'ACMESupply' would be extracted as the Supplier value. If this is not desired, a Regular Expression can be inserted in the parameter to extract Supplier in an

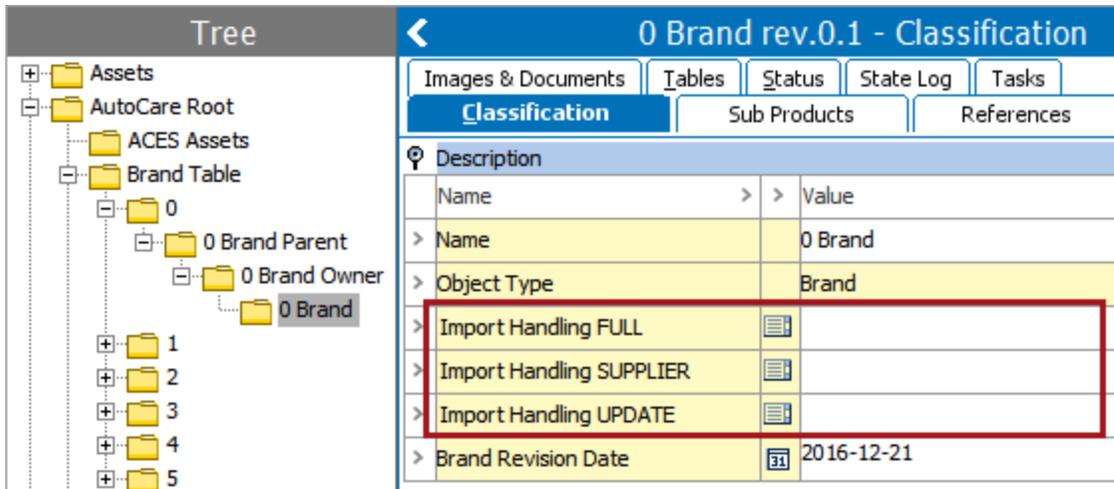
alternate way.

5. Optionally, enable the Omit application names parameter. When enabled, application names will be omitted during the conversion process so that the record will not be included in the delta file.

Note: If the 'ACES Default SUPPLIER Import handling' parameter is set to 'Yes' and Supplier cannot be parsed from the file name, the file will fail during the Conversion process and will be unable to be imported.

ACES Parameter Options

The values supplied in the conversion service specify the global system defaults. Each Brand can also have local values applied for handling that Brand specifically.



0 Brand rev.0.1 - Classification	
Classification	
Description	
Name	Value
> Name	0 Brand
> Object Type	Brand
> Import Handling FULL	
> Import Handling SUPPLIER	
> Import Handling UPDATE	
> Brand Revision Date	2016-12-21

If a Brand does not have local values applied, the system defaults are used. The options for populating each parameter are the same, regardless of whether they are provided in the global or local parameters.

FULL

The FULL parameter defines how files with a SubmissionType=FULL are handled. The options are:

- **Brand:** Replacement of application records is within the brand. All applications for all brands in the input file are replaced (with or without regard to the Supplier, as per the value in that parameter), regardless of part terminology.
- **Brand + Part Number:** Replacement of application records is within the brand and part number. All applications for a particular brand are replaced for all part numbers that are in the input file (with or without regard to the Supplier, as per the value in that parameter). Applications for part numbers that are NOT in the input file are left untouched.
- **Brand + Part Terminology:** Replacement of application records is within the brand and part terminology. All applications for a particular brand are replaced for all part terminologies that are present in the input file (with or without regard to the Supplier, as per the value in that parameter). Applications for part terminologies NOT in the input file are left untouched.

SUPPLIER

The SUPPLIER parameter defines whether or not Supplier is taken into consideration when evaluating replacement scenarios. If multiple suppliers can provide records for the same Brand, and suppliers should not overwrite one another's records, this should be set to 'Yes.' If only a single supplier provides records for a given Brand, or suppliers are allowed to overwrite one another's data and only the most current data (regardless of supplier) is desired, this should be set to 'No.'

Note that both the FULL and UPDATE parameters work in conjunction with the SUPPLIER parameter, for which the options are:

- **No:** Replacements for this brand will replace applications records across all Suppliers, regardless of who provided the existing application records. In other words, do NOT take Supplier into account when evaluating replacements.
- **Yes:** Replacements for this brand will only replace application records provided by the Supplier in the input file. In other words, DO take Supplier into account when evaluating replacements. With this setting, it is important to ensure the Supplier can be accurately parsed from the file name.



Note: Supplier handling must be consistent within a Brand. Changing the Supplier setting in a Brand will have unintended consequences (e.g., the Supplier-based records will be duplicates of the non-Supplier ones). If it does need to change for a Brand, it is recommended to delete the existing records first and then do a full re-load of all records for the Brand.

UPDATE

The UPDATE parameter defines how files with a SubmissionType=UPDATE are handled. The options are:

- **Partial Replacement:** Evaluate the combinations of Brand, Part Terminology, and Base Vehicle of each record provided in the file. For each combination found, replace all records in the database with those in the input file (with or without regard to the Supplier, as per the value in that parameter). This is essentially an additional variation of the FULL scenarios, but is used for UPDATE files only, to "update all records for this set of vehicles and part types."
- **Standard Update:** Delete records with action="D"; Add records with action="A." Only records explicitly in the file will be acted on (with or without regard to the Supplier, as per the value in that parameter).

10. Add Country Codes to Approved for LOV (ACES Export Only)

If ACES 3.2 Export will be used *and* the ApprovedFor tag in the header will be populated as part of ACES Exports, this setup action must be carried out.

The ACES Exporter includes an option to select countries that will be populated in the ApprovedFor element of the export. The values to select from are controlled by an LOV that is created as part of Easy Setup. The LOV is created without values as each implementation must determine the allowable values. Therefore, prior to running an export using the ApprovedFor element, values must be added to the LOV with ID=AC_ACESApprovedFor.

The screenshot shows the 'System Setup' interface. On the left is a tree view of 'Lists of Values / LOVs' with 'ACES Approved For' selected. The main window displays the 'List of Values' configuration for 'ACES Approved For'. The 'Description' section shows fields for Name, ID, Edited by, Path, and Dimension Dependencies. The 'Values' section shows a table with columns for 'Values' and 'Value ID', containing entries for Denmark (DK), Poland (PL), and USA (US). A 'Steps' dialog box is open, highlighting '3. Select Format'. The 'Select Format' dialog shows 'AutoCare ACES 3.2 Application Exporter' selected, with a preview of the export format: 'Approved For' followed by checkboxes for USA, Denmark, and Poland. A red arrow points from the 'Value ID' column in the 'Values' table to the 'Approved For' field in the export preview.

Name	Value
ID	AC_ACESApprovedFor
Name	ACES Approved For
Edited by	2017-07-26 15:02:10 by
Path	Lists of Values <input type="checkbox"/> Export Manager
Dimension Dependencies	
Use Ids on values	Yes
Use Ids for sorting	No
Value-ID Pattern	

Values	Value ID
> Denmark	DK
> Poland	PL
> USA	US

Note: The ACES standard allows for two character country codes only. The exporter interface displays the value of the LOV, while the export itself passes the value ID. Care must be taken to ensure that all value IDs are exactly two characters, or the export could generate a file that will fail validation on a downstream system.

11. Update Web UI Configurations

While not strictly required, it may be helpful to update some elements of the Web UI that are created by Easy Setup during setup action 2 (Configure import process) and 4 (Configure Web UI) for any standard that includes creation of screens in the Web UI. Some of these screens are ready to be used as-is, while others are considered a starting point only, and require additional work to complete the setup.

This section describes the following changes that may be helpful to apply in the Web UI:

- Adding Additional Headers to Application Screens
- Adjusting Homepage Import Status Selectors
- Displaying the Import Details Report Column
- Accessing Application Editor and Manager Screens
- Allowing Applications Outside Part Type
- Displaying More States in Controller Screen

Adding Additional Headers in Controller Screen

A series of 'controller' screens are created by the Easy Setup, one for each import format. These controllers are named '[Standard][Format]ControllerScreen' (e.g., AutoCareACESApplicationControllerScreen) and are used to display the details of any importer. The controller screens created for the AutoCare, TecDoc, and NAPA standards will function without requiring further configuration, once they have been made accessible after running Easy Setup. However, they are intended as 'starter' screens only, meaning that it is expected that users will want to review additional data on them, which can easily be added via configuration.

Running Easy Setup will create the Controller Screen with three default headers / columns within the Imports section. If the user would like to view more information in the Controller Screen, they can add or remove the headers / columns that need to be displayed. For example, if a user wishes to review the count of good and bad application records imported in the ACES import, information on the total count of new, updated, and deleted objects for an Automotive data import, ability to review the error file generated in the ACES Conversion, etc. these can be added in the configurations. Thus, the headers / columns that could be displayed within the Importer section of the Controller screen of any importer are configurable. This topic describes the process for adding or removing the headers that are displayed in the Imports section of the Controller screen for the selected importer.

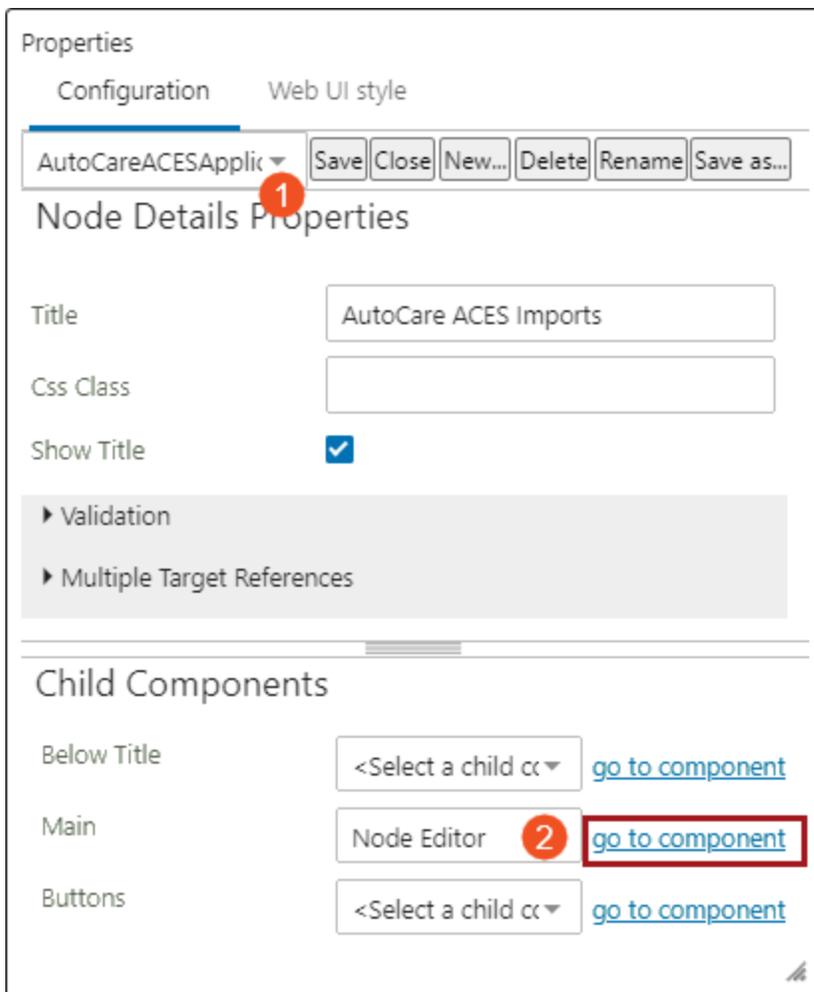
Each of the controller screens uses a Refreshable Node List within which the regular Node List is configured. Configuration of the Node List component is covered in detail in the Node List Component documentation in the Web User Interfaces documentation. Within the Node List Headers parameter, users can choose any number of columns / headers to apply to the table view. Many of the most commonly used header components are covered in the Web User Interfaces documentation.

For the ease of explanation, we have considered AutoCare ACES Importer Controller screen as an example to configure throughout this topic.

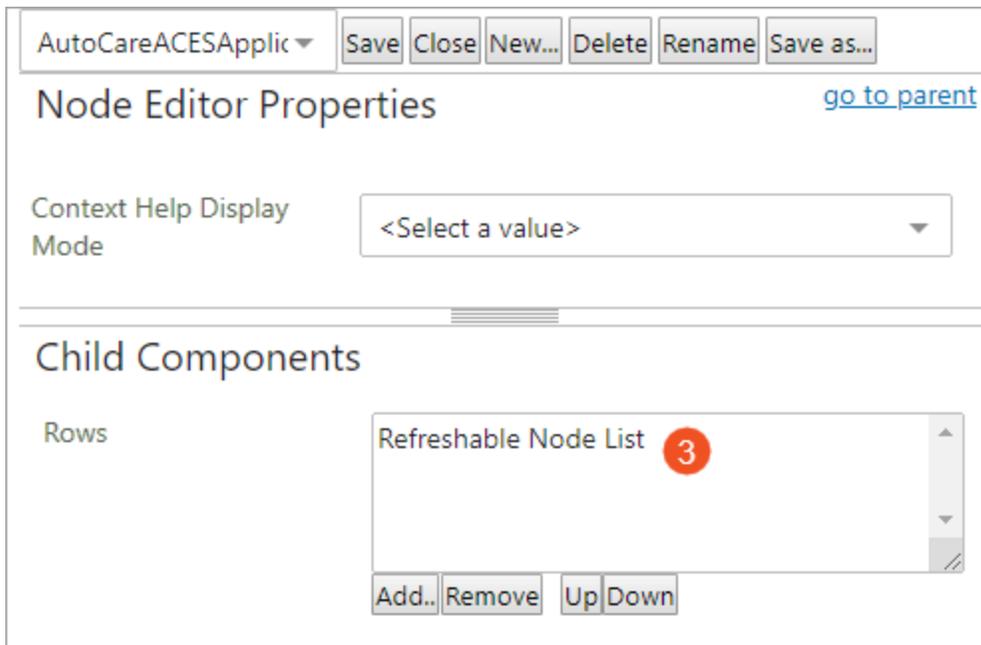
Adding headers in Controller screen

Below are the steps to add headers in Controller screen.

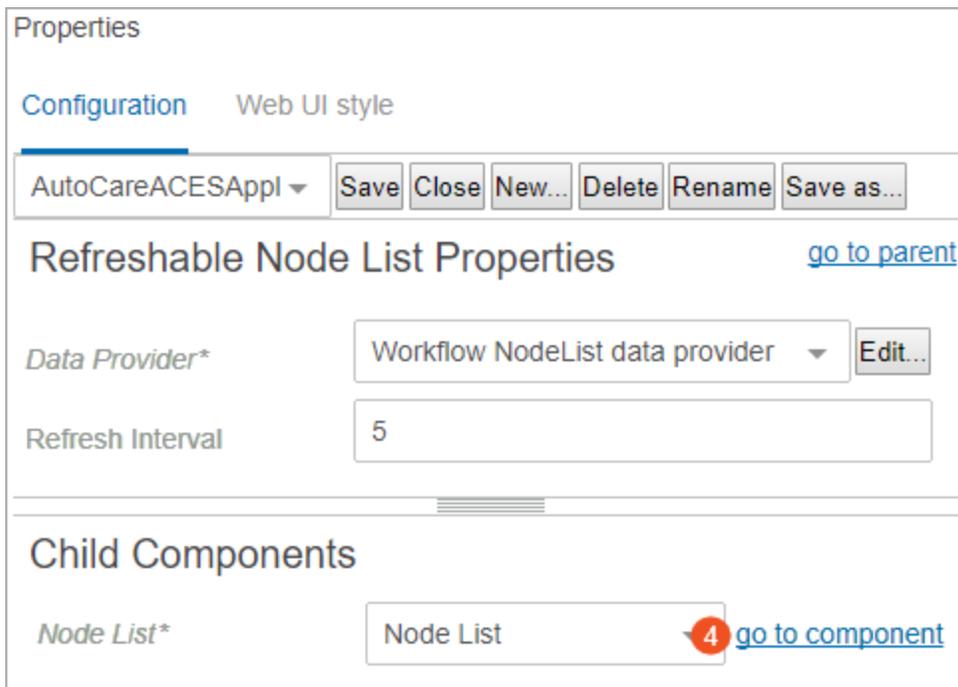
1. Open the Web UI Designer and using the screen dropdown in the upper left of the designer pane, select the controller screen you would like to edit.
2. Click the **go to component** link for the Node Editor component.



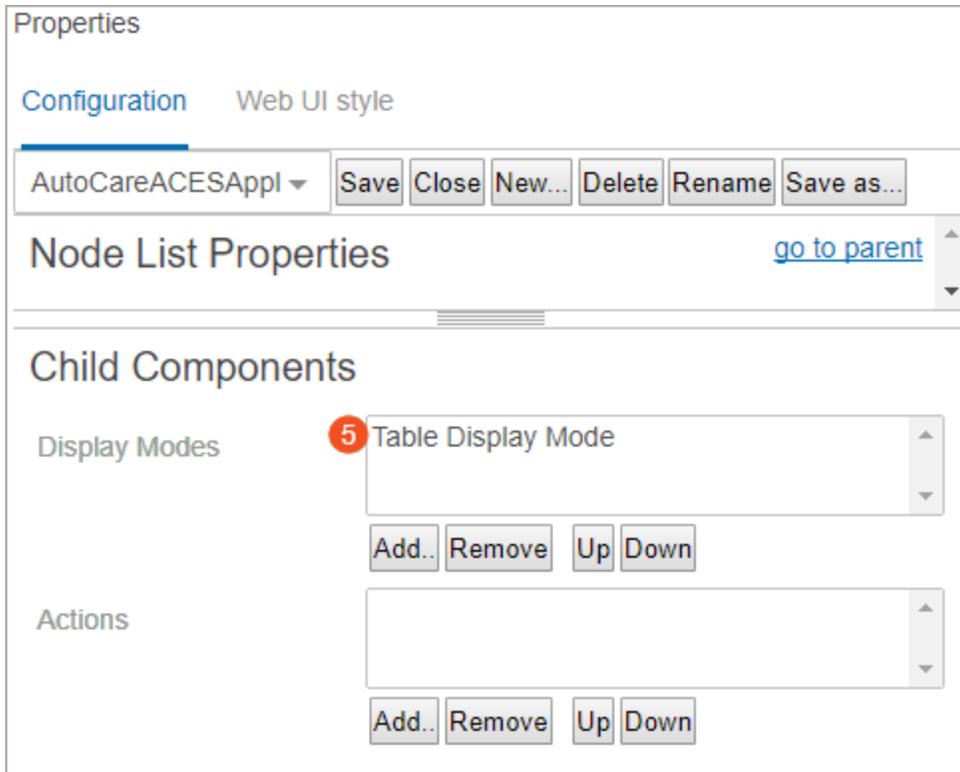
3. Double-click the **Refreshable Node List** component to open the Refreshable Node List Properties.



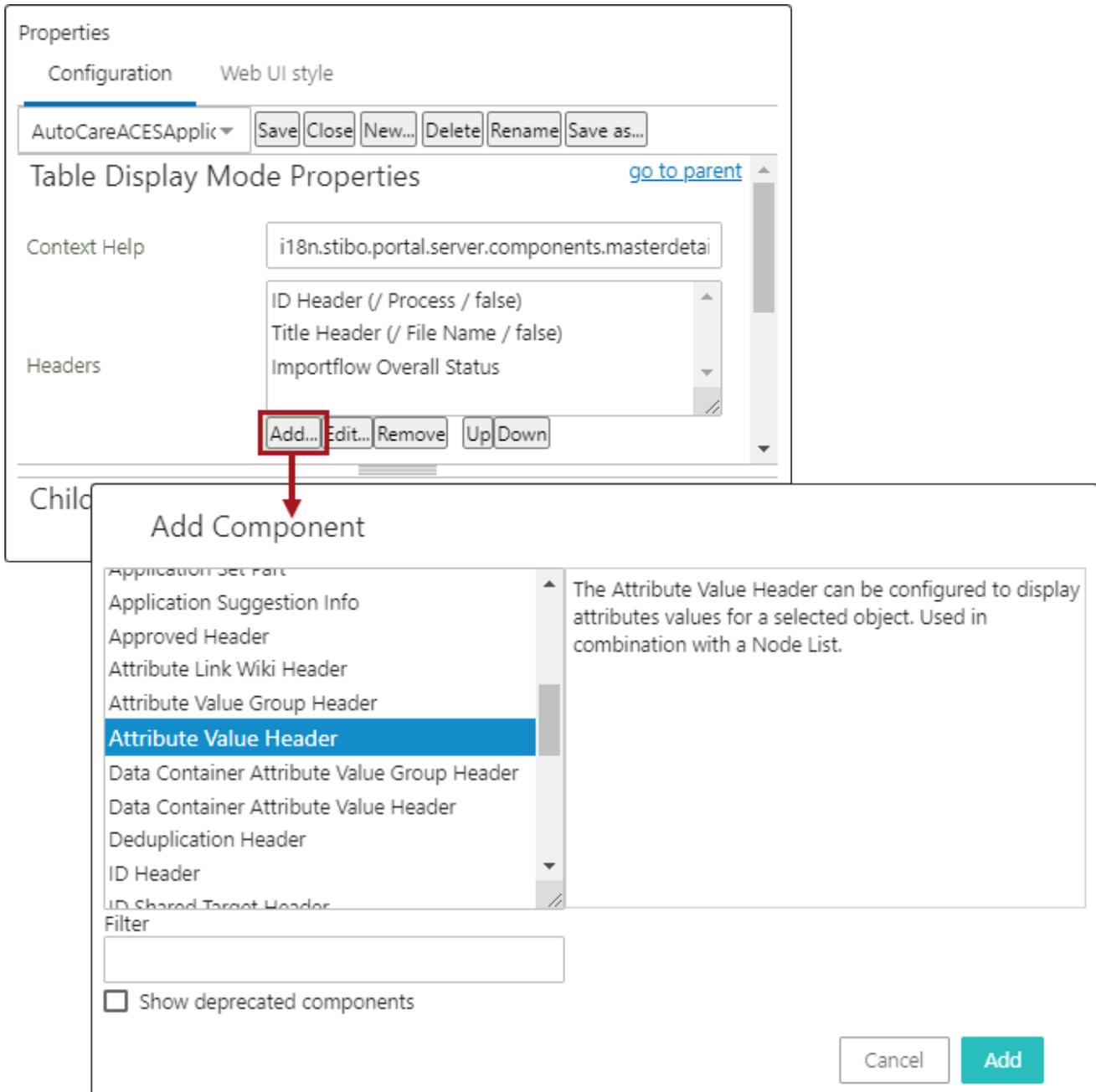
4. Click **go to component** for the Node List to open the Node List Properties.



5. Double-click the **Table Display Mode** component to open the Table Display Mode Properties.



6. On the Table Display Mode Properties dialog, find the Headers parameter. Click **Add** to display the Add Component dialog.



7. With the required table header component selected, click **Add**. Configure the additional parameters of the table header component if required. The selected component will be populated in the Headers field as shown below. In the example below, the Attribute Value Header is added to display.

Properties (edited)

Configuration Web UI style

AutoCareACESAppli ▾ Save Close New... Delete Rename Save as...

Table Display Mode Properties [go to parent](#)

Component Description Shows the nodes from a Node List in a table.

StyleName

Context Help

Headers

ID Header (/ Process / false)
 Title Header (/ File Name / false)
 Importflow Overall Status
 Attribute Value Header (false / false / false / AC_ImportflowImportMode

Show Details

Title

▸ Sizing and filtering

▸ Advanced

Child Components

8. User can add more table headers by repeating the steps mentioned above and also can rearrange the order of the headers by using the Up / Down button.

Properties (edited)

Configuration Web UI style

AutoCareACESAppli ▾ Save Close New... Delete Rename Save as...

Table Display Mode Properties [go to parent](#)

Component Description Shows the nodes from a Node List in a table.

StyleName

Context Help

Headers

ID Header (/ Process / false)
 Title Header (/ File Name / false)
 Importflow Overall Status
 Attribute Value Header (false / false / false / AC_ImportflowImportMode

Add... Edit... Remove **Up** **Down**

Show Details

Title

▸ Sizing and filtering
 ▸ Advanced

Child Components

9. Click Save and then Close to exit the designer with all of the configurations saved. The newly added header shall be displayed within the Controller screen of the importer. In the example below, the Attribute Value Header component is added to display the ACES Import Mode attribute.

stepsys • English US  

AutoCare ACES Imports

Process	File Name	Overall Status	ACES Import Mode
Controller-107241	Centric Fleet Performance and Tactical Police Duty Brake Pads_ACES.xml	Import completed	
Controller-107259	thyssenkrupp Bilstein of America_ACES_Receiver_2019-06-05_FULL.xml	Import completed	
Controller-107324	Centric Premium and GCX Brake Discs_ACES.xml	Completed with errors: 238	
Controller-107330	Centric Disc Brake Hardware Kits_2018-11-29_130151_FULL_ACES.XML	Completed with errors: 1	

Import Details

Process	Started Time	Duration	Started By	Status	Background Process Link
Validation	2019-07-15 11:59:50	5 secs	STEPSYS	Validation completed	
Conversion	2019-07-15 11:59:55	7 secs	STEPSYS	Conversion completed	
Delta Calculation	2019-07-15 12:00:02	7 secs	STEPSYS	Delta calculation completed	
Import	2019-07-15 13:04:45	10 mins 21 secs	STEPSYS	Import completed	

Frequently Used Headers in Controller screen

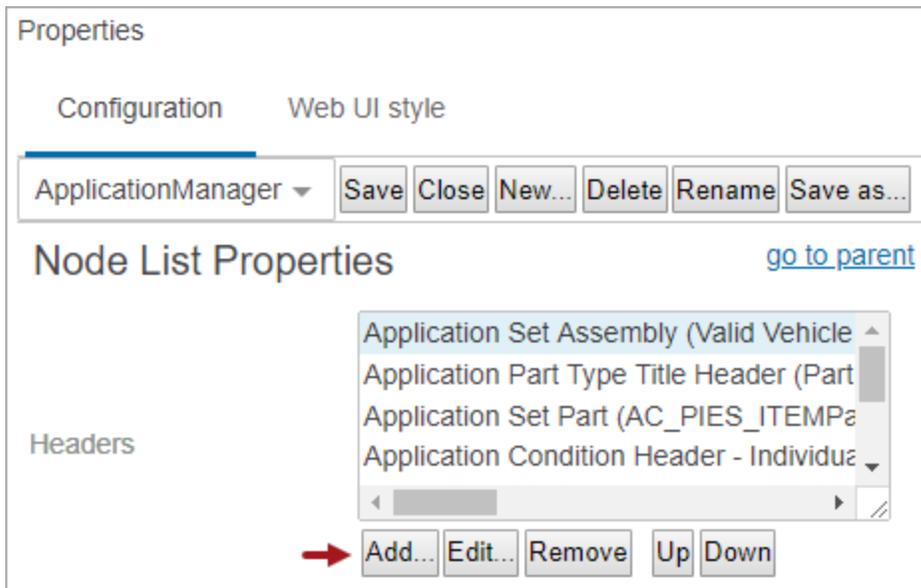
Most headers are self-explanatory via the header name and/or description text provided within the designer. However, there are few headers that are often used in the controller screens for which additional explanation can be helpful:

- Importflow Attachment:** This table header component, when configured in a Controller screen, helps to retrieve a report and/or other file type generated during an import. Importflow column will provide a downloadable file link for the applicable controller. Users can use the link to download and view the file. Additional information on configuring the Importflow Attachment header and the supporting data model behind them is covered in the Importflow Attachment Component in Controller Screen topic of the Automotive Reference Guide.
- Attribute Value Header:** This table header component dynamically displays the attribute values derived from the import controller. In the Controller screen, this component can be used to view the count of good and bad application records imported in the ACES import, information on the total count of new, updated, and deleted objects for an Automotive data import, etc. Information on the usage of Attribute Value Header within the Controller screen is covered in the Specify Import Information Retrieving Attributes topic of the Automotive Quick Start Guide.

Adding Additional Headers to Application Screens

The Application Editor screens created for the AutoCare, TecDoc, and the NAPA standards are usable as-is, once they have been made accessible following the Easy Setup instructions. However, they are intended as 'starter' screens only, meaning that it is expected that users will want to review additional data on them, which can easily be added via configuration.

Each of the Application Editor screens uses a Node List. Configuration of the Node List component is covered in detail in the Node List Component documentation in the Web User Interfaces documentation. Within the Node List Headers parameter, users can choose any number of columns / headers to apply to the table view. Many of the most commonly used header components are covered in the Web User Interfaces documentation. Access the Node List Properties in the designer, and click the **Add** button to add additional headers to the screen.



Below are tips for adding headers within the Automotive model:

- Be aware of the active selection of the screen when choosing headers to add. For example, on the Parts screen, a part object is the active selection so to display data from the part itself, standard Web UI components such as Attribute Value Header, Name Header, and Reference Header can be used. However, to display data from the application record or vehicle when on the Parts screen, the Application headers must be used (e.g., Application Assembly value to display data from the vehicle used in the application record, or Application Condition Header - Group to show criteria / option data

from the application record).

- Most Application headers are self-explanatory via the header name and/or description text provided within the designer. However, there are two headers for which additional explanation can be helpful: 'Application Condition Header - Individual' and 'Application Condition Header - Group.'
 - Both are used to display data in conditions / criteria / options on an application record (e.g., Engine Base or Drive Type in the AutoCare model, Axle or Clutch Type in TecDoc, etc.).
 - The headers are differentiated by whether they display multiple conditions in a single column in the results table, or display conditions individually in their own columns.
 - **Application Condition Header - Individual:** displays all other populated conditions in a single header, where double-clicking in the cell opens a value editor where users can search for and populate data in the 'less important' conditions.
 - **Application Condition Header - Group:** dynamically displays all conditions identified as 'important' for the part type(s) of the application record(s) being displayed.



Note: A condition is identified as 'important' by setting the Display Condition attribute to 'true' on the reference between the attribute and the part type.

Additional information on configuring these headers and the supporting data model behind them is covered in the Controlling Display of Conditions in Application Manager topic of the Automotive Reference Guide.

Adjusting Homepage Import Status Selectors

Easy Setup creates a number of workflows to manage imports, along with a corresponding Web UI homepage widget, in this case, a status selector, for each import. Each workflow contains a number of states, though not all are reflected in the corresponding status selector in Web UI. Specifically, the initial Validation and Conversion states are omitted as these states do not produce any interesting results for the end user if completed successfully. If errors are encountered, they can be viewed via the Error state. Whether successful or in error, transition out of these states is automatic so no user intervention is needed.

Furthermore, as described in the subsequent section, some implementations will likely choose to add additional states to the workflow which could produce an interesting result for the end user, such as a Reporting state.

Whether it is needed to display additional existing states or to display new ones, it may be necessary to adjust the configuration of the status selectors to display additional states. If so, detailed documentation for configuring status selectors is available in the Status Selector Homepage Widget topic within the Web User Interfaces documentation.

Displaying the Import Details Report Column

A series of 'workflow' screens are created by Easy Setup, one for each import format. These are named [Standard][Format]WorkflowScreen (e.g., TecDocReferenceWorkflowScreen), and are used to display the details of any file import.

By default, each workflow screen contains a 'Report' column, as it is expected that many customers will add a workflow state to evaluate data in an incoming file and report on it. This reporting functionality can be developed using the Extension API. Once developed, the Report column will provide a downloadable report link for the applicable state. Users can use the link to view and analyze the report prior to making the decision to actually import the data within a file.

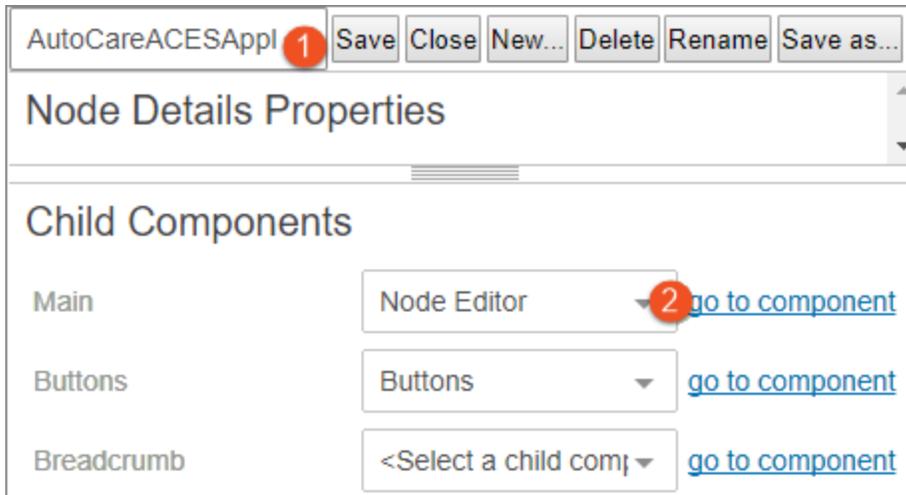
Import Details							
Process	Started Time	Duration	Started By	Status	Background Proce	Report	
Validation	2017-07-25 13:29:40	4 secs	STEPSYS	Validation completed	succeeded		
Conversion	2017-07-25 13:29:44	5 secs	STEPSYS	Conversion completed	succeeded		
Delta Calculation	2017-07-25 13:29:49	5 secs	STEPSYS	Delta calculation completed	succeeded		
Import	2017-07-25 13:30:25	5 secs	STEPSYS	Import completed	succeeded		

If reports will be created for the import, no action is needed. However, if there are not any plans to develop reports, it is suggested that the column be removed so as not to confuse end users who may then question why a report is not available.

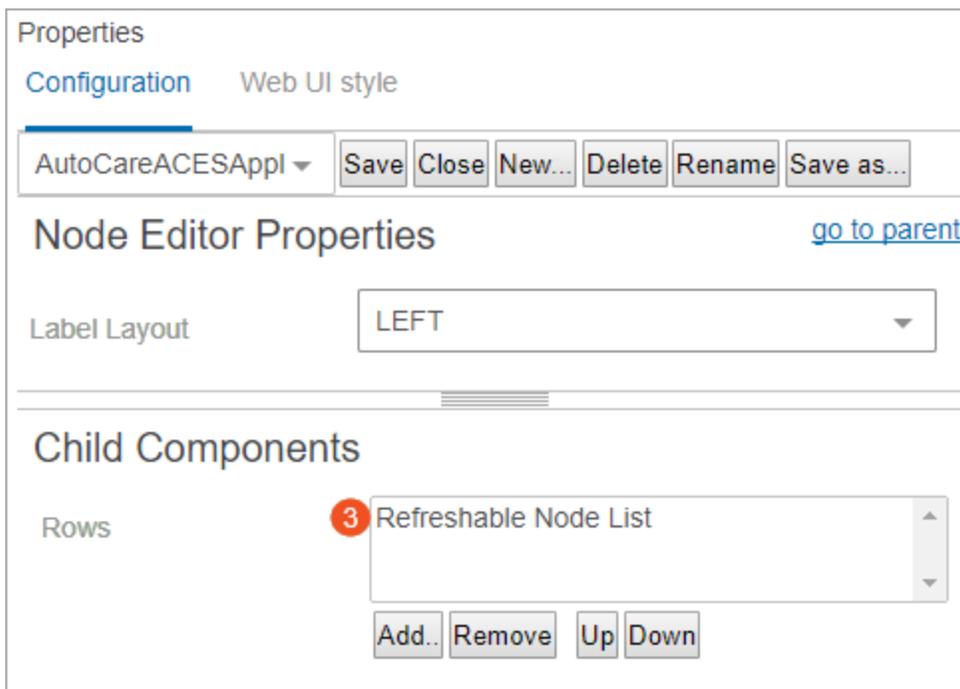
Removing the Report Column

Below are the steps to remove the Report column.

1. Open the Web UI Designer and using the screen dropdown in the upper left of the designer pane, select the workflow screen you would like to edit.
2. Click the **go to component** link for the Node Editor component.



3. Double-click the **Refreshable Node List** component to open the Refreshable Node List Properties.



4. Click **go to component** for the Node List to open the Node List Properties.

Properties

Configuration Web UI style

AutoCareACESAppl ▾ Save Close New... Delete Rename Save as...

Refreshable Node List Properties [go to parent](#)

Data Provider* Workflow NodeList data provider ▾ Edit...

Refresh Interval 5

Child Components

Node List* Node List 4 [go to component](#)

- Double-click the **Table Display Mode** component to open the Table Display Mode Properties.

Properties

Configuration Web UI style

AutoCareACESAppl ▾ Save Close New... Delete Rename Save as...

Node List Properties [go to parent](#)

Child Components

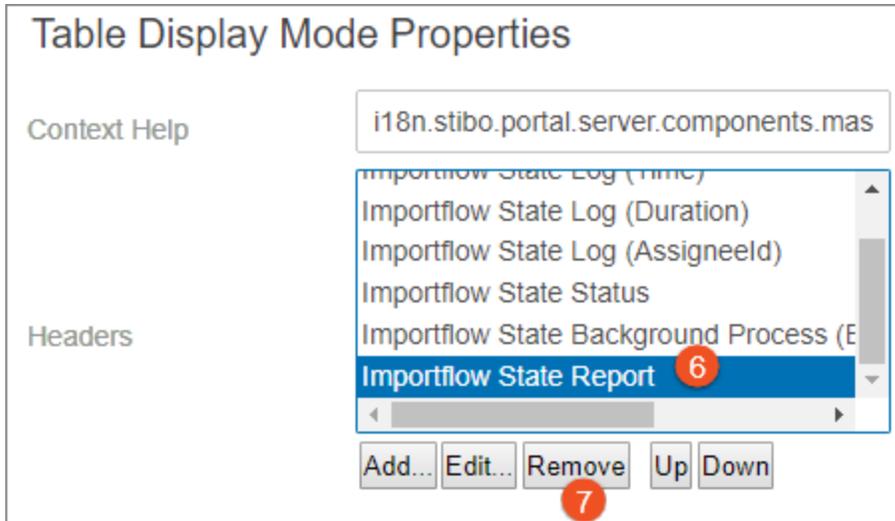
Display Modes 5 Table Display Mode

Add.. Remove Up Down

Actions

Add.. Remove Up Down

6. On the Table Display Mode Properties dialog, find the Headers parameter. Scroll down within the Headers parameter to locate and select the **Importflow State Report**.
7. Click the **Remove** button.



Accessing Application Editor and Manager Screens

Within each standard, Easy Setup creates multiple screens that can be used for viewing and editing application records. Each of the standards and their out of the box screens are described below. Though these screens can be customized as needed, this topic describes each of the screens created across the different standards (AutoCare, NAPA and TecDoc) and steps for adding the Application Manager screen to the Links Widget.

AutoCare

Each of the automatically configured screens for the AutoCare solution are described below:

- **AutoCare Application Editor Screen (Parts):** A screen for viewing / editing application records when a part is selected.
- **AutoCare Application Editor Screen (Vehicles):** A screen for viewing / editing application records when a vehicle is selected
- **AutoCare Application Manager Screen:** A screen for viewing / editing application records where users input vehicle, part type, and/or part number selections to search for application records, and optionally search for missing coverage on the input selections

When Easy Setup actions are completed, the Automotive - Application Model is populated with the following value IDs related to these screens:

- Application Records = AC_ACESApplication
- Vehicles / Assemblies = AC_BaseVehicle
- Part Types = AC_PartTerminology

In the example below, the Application parameter is displayed within the Automotive - Application Model component model configured with the ACES Application (AC_ACESApplication) value. When Easy Setup actions are completed, the component model is configured automatically.

Name	Value	Description
Application	ACES Application	The object that represent an application record, should be child of the Part object type
	DS_Linkage	
	NAPA Application	

Note: A tooltip is visible over the 'ACES Application' value, displaying 'ACES Application ID = AC_ACESApplication'.

Important: For the Application Editor and/or Manager screens to properly function, the desired object types must be configured within both the component model and the Web UI screens.

NAPA

Each of the automatically configured screens for the NAPA solution are described below:

- **NAPA Application Editor Screen (Parts):** A screen for viewing / editing application records when a part is selected.
- **NAPA Application Editor Screen (Vehicles):** A screen for viewing / editing application records when a vehicle is selected
- **NAPA Application Manager Screen:** A screen for viewing / editing application records where users input vehicle, part type (MPCC), and/or part number selections to search for application records, and optionally search for missing coverage on the input selections

When Easy Setup actions are completed, the Automotive - Application Model is populated with the following value IDs related to these screens:

- Application Records = NAPA_Application
- Vehicles / Assemblies = NAPA_Year
- Part Types = NAPA_MPCC

In the example below, the Application parameter is displayed within the Automotive - Application Model component model configured with the NAPA Application (NAPA_Application) value. When Easy Setup actions are completed, the component model is configured automatically.

Name	Value	Description
Application	ACES Application	The object that represent an application record, should be child of the Part object type
	DS_Linkage	
	NAPA Application	
	NAPA Application ID = NAPA_Application	

Important: For the Application Editor and/or Manager screens to properly function, the desired object types must be configured within both the component model and the Web UI screens.

TecDoc

Each of the automatically configured screens for the TecDoc solution are described below:

- **TecDoc Application Editor Screen (Articles):** A screen for viewing / editing application records when an article is selected.
- **TecDoc Application Editor Screen (Assemblies):** A screen for viewing / editing application records when an assembly is selected
- **TecDoc Application Manager Screen:** A screen for viewing / editing application records (where users input vehicles or assemblies and/or part types (TD generic article) selections to search for application records, and optionally search for missing coverage on the input selections.

When Easy Setup actions are completed the Automotive - Application Model is populated with the following value IDs related to these screens:

- Application Records = TD_DS_Linkage
- Vehicles / Assemblies = TD_VehicleType(PC), TD_VehicleType(CV), TD_EngineCode
- Part Types = TD_StandardAssemblyGA, TD_UniversalAssemblyGA

In the example below, the Application parameter is displayed within the Automotive - Application Model component model configured with the TecDoc Application (TD_DS_Linkage) value. When Easy Setup actions are completed, the component model is configured automatically.

Name	Value	Description
Application	DS_Linkage	The object that represent an application record, should be child of the Part object type
		DS_Linkage ID = TD_DS_Linkage

Important: For the Application Editor and/or Manager screens to properly function, the desired object types must be configured within both the component model and the Web UI screens.

Each of the above screens are created by Easy Setup and mapped to the following object types:

- AC_Basevehicle
- AC_PIESITEM
- NAPA_Year

- NAPA_Product
- TD_VehicleType(PC)
- TD_DS_SupplierArticle

However, it is up to each implementation to make them available to all the necessary object types.

The Application Editor screens require an object selection, so these screens need to be mapped for a particular object type or added on a tab within another screen that is mapped to the appropriate object. To map the Parts or Vehicles screen directly (meaning that when you are on a part or vehicle, you will only have that screen displayed) refer to the Mappings topic within the Web User Interfaces documentation.

To add the Parts or Vehicles screen to an existing screen, use the Sub Screen Tab Page configuration, described in the Tab Pages topic in the Web User Interfaces documentation.

The Application Manager screen does not require an object selection, so this needs to be made accessible to users, which can easily be done by adding a link to the screen on the homepage.

To add access to the Application Manager screen from the homepage, use the Links widget, which is configured as part of Easy Setup. For more information about the Links Widget, refer to the Homepage Widgets topic in the Web User Interfaces documentation.

Adding an Application Manager Screen to a Links Widget



Note: If Easy Setup actions for the AutoCare, NAPA, or TecDoc solution have been completed as described in the Automotive Quick Start Guide, then the links to the standard specific Application Manager screens will automatically be added to the Quick Links Homepage Widget as shown in the examples below. Otherwise, the following steps can be used to complete configuration.

1. In design mode, select the **Links Widget** from the Homepage
2. Click the **Add** button
3. Select **Screen Navigation**
4. Click the **Add** button.

Properties
Configuration Web UI Style

---[HOMEPAGE]---

Save Close New... Delete Rename Save as...

Links Widget [go to parent](#)

Component Description A widget that can contain a list of components and arranges them vertical when displayed.

Title Quick Links

Child Components

Rows Node Navigation
Clear Basket Function
Navigation

2 Add.. Remove Up Down

Add Component

Clear Basket Function
External Navigation
Navigation
Node Navigation
Screen Navigation 3
Smart Sheet Import Action
Static HTML
Static Text

Filter

Show deprecated components

Cancel Add 4

5. Add a **Label** that will display as a clickable link in the Links widget, select the appropriate Search screen, and click the **Add** button

In the screenshot below, the Label and Screen parameters are populated with the value 'AutoCare Application Manager.'

Screen Navigation Properties

Context Help	<input type="text"/>
Css Class	<input type="text"/>
Label	<input type="text" value="AutoCare Application Manager"/>
Object Type ID	<input type="text"/> <input type="button" value="..."/> <input type="button" value="Clear"/>
Screen*	<input type="text" value="AutoCare Application Manager"/> <input type="button" value="Add"/>
Workflow	<input type="text" value="<Select a STEP Workflow>"/>

6. The result will be that the Links widget in the homepage will now include a link directly to the Application Manager screen.



Additional information on the Links Homepage widget, and its configurations, is available in the Homepage Widgets section within the Web User Interfaces documentation.

Allowing Applications Outside Part Type

When using an Application Manager, if a part number is found using the part type search, but the part number is being applicated to a part type that differs from the one used to search, an error dialog will display informing the user that the part cannot be linked because the part type is different. In other words, when using the application manager to applicate parts, a part's part type must match the applications part type.

However, it is possible to override this, allowing users to select a part number with a part type that does not match the part type searched for application. In other words, the Application Manager will ignore the searched part type when assigning the part number to the application. This is helpful when working with a part that can only have a single part type, but can be applicated for multiple part types.

Prerequisites

The parameter will need to be added by running **Automotive - [Standard] Model > 4. Configure [Standard] Web UI Easy Setup**.

Enabling the Allow Applications Outside Part Type

Below are the steps to enable the Allow Applications Outside Part Type parameter.

1. Go to the Application Manager's Multi Edit Display mode Properties > Headers.
2. Select **Application Set Part**.

Properties

Configuration Web UI style

AutoCare Application ▾ Save Close New... Delete Rename Save as...

Multi Edit Display Mode Properties [go to parent](#)

Context Help i18n.stibo.portal.server.components.masterc

Headers

- Application Set Assembly (Valid Vehicle / Ve
- Application Part Type Title Header (Part Typ
- Application Set Part (AC_PIES_ITEMPartN**
- Application Condition Header - Individual (C

Add... Edit... Remove Up Down

Property Direction HORIZONTAL ▾

Reload After Save

Use Immediate Save

3. Click the **Edit** button, and the Application Set Part Properties will display.
4. Click the checkbox for the **Allow Applications Outside Part Type**.

Edit component ✕

Application Set Part Properties

Attribute	<input type="text" value="AC_PIES_ITEMPartNumber"/> ... <input type="button" value="Clear"/>
Dimensions	<input type="text" value="Table Header Dimensions"/> <input type="button" value="Edit..."/>
Display ID*	<input type="text" value="ATTRIBUTE_VALUE"/>
Label	<input type="text" value="Part Number"/>
Node Picker Configuration	<input type="text" value="Node Picker Dialog"/> <input type="button" value="Edit..."/>
Table Sorting	<input type="text" value="<Select a value>"/>
Subcomponent	<input type="text" value="AC_Model"/>
Allow Applications Outside Part Type	<input type="checkbox"/>

5. Click the **Save** and **Close** buttons to save and close the designer.

Displaying More States in Controller Screen

The Easy Setup action is set to display a default of four workflow states within the Import Details section in the Controller Screen. If the user insists to view the status of the Controller, for example, time elapsed in passing the Controller through different states, status of the Controller in the particular state, etc., in all the workflow states it is passing through, the user can add or remove the states that need to be displayed. Thus, the number of workflow states that could be displayed within the Import Details Section of the Controller screen of any importer are configurable. This topic describes the detailed procedure on adding or removing the workflow states displayed in the Import Details section within the Controller screen for the selected importer.

For the ease of explanation, we have considered AutoCare ACES Importer Controller screen as an example to configure throughout this topic.

AutoCare ACES Imports

Process	File Name	Overall Status
Controller-100575	Acme_ACESFileWithQualifiersNoAmpersands.xml	Import completed
Controller-100703	ODM_ACES_00729571-LoadPart110.xml	Import completed
Controller-100940	ADMU_Bond_2018-06-13_FULL.xml	Import completed
Controller-101012	TOYOTA_XXXXXXXX_2018-06-18_FULL.xml	Import completed
Controller-101024	TOYOTA_XXXXXXXX_2018-06-18_FULL.xml	Import completed
Controller-103081	FederalM_ACES_AdvantageChassisUS2018-07-25_v4.XML	Completed with errors: 3
Controller-103088	FederalM_ACES_AdvantageChassisUS2018-07-25_v4.XML	Completed with errors: 3
Controller-103848	ACDelco_ACES_Spark Plugs_2018-10-11_12.43.27.xml	Completed with errors: 4

<< < 1-25 of 28 > >>

Import Details

Process	Started Time	Duration	Started By	Status	Background Process Link
Validation	2018-05-22 08:03:36	5 secs	STEPSYS	Validation completed	
Conversion	2018-05-22 08:03:41	5 secs	STEPSYS	Conversion completed	
Delta Calculator	2018-05-22 08:03:46	5 secs	STEPSYS	Delta calculation completed	
Import	2018-05-22 08:12:15	3 secs	STEPSYS	Import completed	

<< < 1-4 of > >>

→ Start import
→ Reject
→ Discard

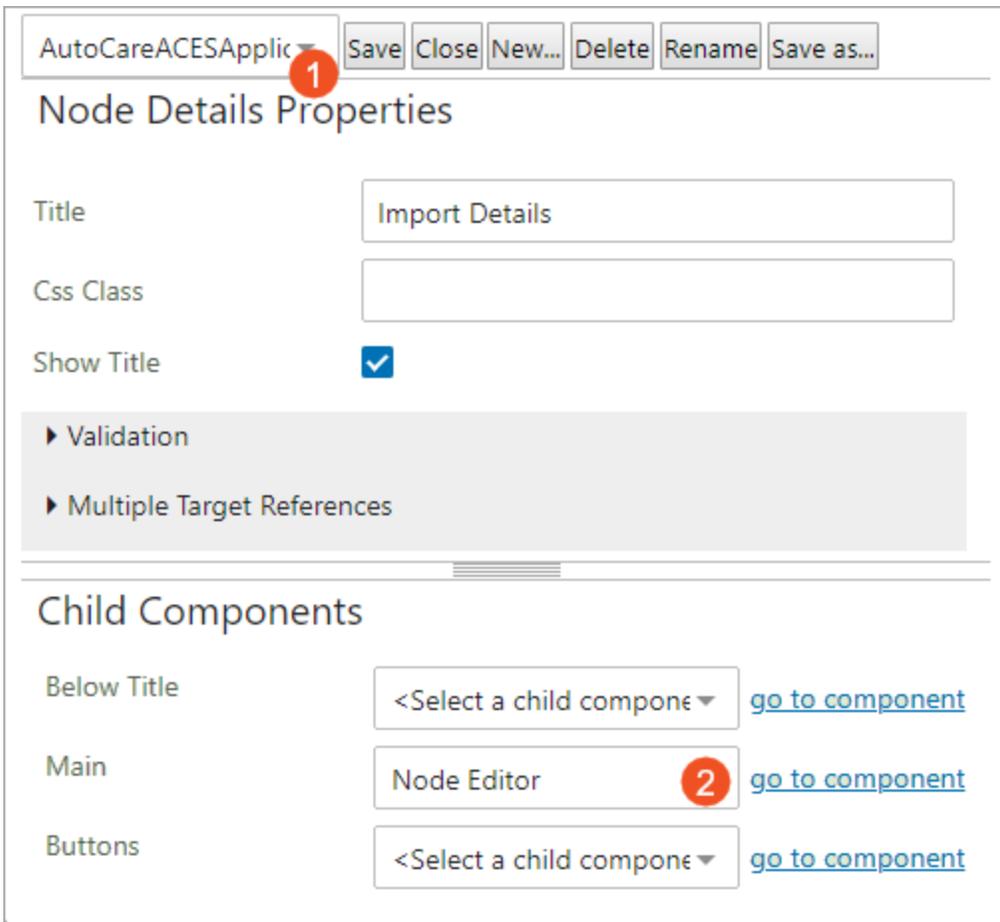
Adding States within Import Details section in Controller screen

Below are the steps to add states within Import Details section in Controller screen.

1. Open the Web UI Designer and using the screen dropdown in the upper left of the designer pane, select the workflow screen you would like to edit.

Note: In the Automotive solution, by default a particular workflow screen is set to display after clicking on Controller in the table. This is one of the Node List configurable feature. Hence, the adding / removing of the workflow states is to be done in the particular workflow screen and not in the controller screen.

2. Click the **go to component** link for the Node Editor component.



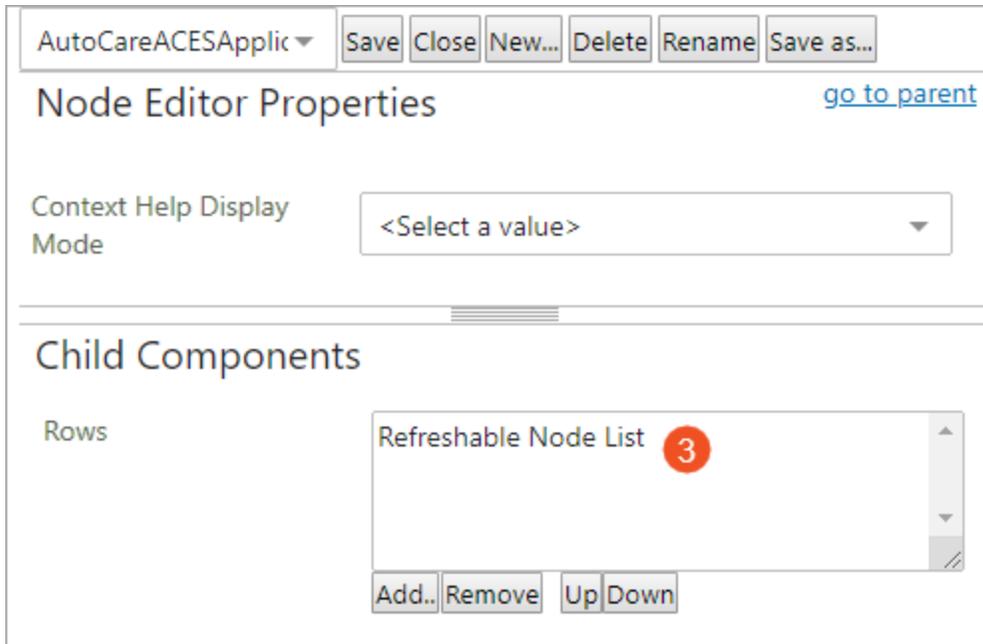
The screenshot shows the 'Node Details Properties' dialog. At the top, there is a dropdown menu for 'AutoCareACESApplic' with a red circle '1' next to it. To its right are buttons for 'Save', 'Close', 'New...', 'Delete', 'Rename', and 'Save as...'. Below this is the 'Node Details Properties' section with the following fields:

- Title: Import Details
- Css Class: (empty)
- Show Title:
- Validation: (expanded)
- Multiple Target References: (expanded)

Below the 'Node Details Properties' section is the 'Child Components' section with the following rows:

- Below Title: <Select a child compone...> go to component
- Main: Node Editor go to component (with a red circle '2' next to the dropdown)
- Buttons: <Select a child compone...> go to component

3. Double-click the **Refreshable Node List** component to open the Refreshable Node List Properties.



AutoCareACESAppl ▾ Save Close New... Delete Rename Save as...

Node Editor Properties [go to parent](#)

Context Help Display Mode: <Select a value>

Child Components

Rows

- Refreshable Node List 3

Add.. Remove Up Down

4. In the dropdown next to Data Provider field, select 'Workflow State NodeList data provider' option and then click Edit. The 'Workflow State NodeList data provider properties' window displays.

AutoCareACESApplic ▾ Save Close New... Delete Rename Save as...

Refreshable Node List Properties [go to parent](#)

Component Description Component to display nodeList with refreshing it's content

* Data Provider Workflow State NodeList data provid ▾ **4** Edit...

Refresh Interval 5

Child Components

* Node List Node List ▾ [go to component](#)

Edit component

Workflow State NodeList data provider Properties

Component Description Workflow state data provider. It cannot be used as a stand-alone component.

* States

AutoCareACESAppImport | Conversion ▾

Add Remove Up Down

* Workflow AutoCareACESAppImport ▾

Cancel Save

Note: All the existing default workflow states that were available for display gets erased when the user selects different data provider in the Data Provider parameter. The user needs to add all the required workflow states as described below to display the existing default workflow states too.

5. In the dropdown next to the Workflow parameter, select the workflow which the user needs to edit. In this example, AutoCare ACES importer workflow 'AutoCareACESAppImport' is selected.

Edit component

Workflow State NodeList data provider Properties

Component Description Workflow state data provider. It cannot be used as a stand-alone component.

* States

AutoCareACESAppImport | Conversion

Add Remove Up Down

* Workflow

AutoCareACESAppImport 5

6. With the required workflow selected, select the workflow state in the dropdown next to States parameter and then click Add.

Edit component

Workflow State NodeList data provider Properties

Component Description: Workflow state data provider. It cannot be used as a stand-alone component.

* States:

AutoCareACESAppImport | Import 6

Add Remove Up Down

* Workflow: AutoCareACESAppImport

Cancel Save

The selected workflow state will be populated in the States field as shown below. In the example below, the Import state is added to display.

Workflow State NodeList data provider Properties

Component Description: Workflow state data provider. It cannot be used as a stand-alone component.

* States: ←

AutoCareACESAppImport | Import

Add Remove Up Down

* Workflow: AutoCareACESAppImport

Cancel Save

- User can add more workflow states by repeating the steps mentioned above and also can rearrange the order of the states by using the Up / Down button.

Workflow State NodeList data provider Properties

Component Description Workflow state data provider. It cannot be used as a stand-alone component.

*** States**

- Validation
- Conversion
- DeltaCalculate
- Import
- ImportCompleted

AutoCareACESAppImport | DeltaCalculate

Add
Remove
Up
Down

*** Workflow**

AutoCareACESAppImport

Cancel Save

- Click Save to close the 'Workflow State NodeList data provider Properties' window, and then save and close the designer. The newly added workflow states shall be displayed within the Import Details section of the selected Controller screen.

AutoCare ACES Imports			
Process	File Name	Overall Status	
Controller-100575	Acme_ACESFileWithQualifiersNoAmpersands.xml	Import completed	
Controller-100703	ODM_ACES_00729571-LoadPart110.xml	Import completed	
Controller-100940	ADMU_Bond_2018-06-13_FULL.xml	Import completed	
Controller-101012	TOYOTA_XXXXXXXX_2018-06-18_FULL.xml	Import completed	
Controller-101024	TOYOTA_XXXXXXXX_2018-06-18_FULL.xml	Import completed	
Controller-103081	FederalM_ACES_AdvantageChassisUS2018-07-25_v4.XML	Completed with errors: 3	
Controller-103088	FederalM_ACES_AdvantageChassisUS2018-07-25_v4.XML	Completed with errors: 3	

1-25 of 28

Import Details

Process	Started Time	Duration	Started By	Status	Background Proce
Validation	2018-05-22 08:03:36	5 secs	STEPSYS	Validation completed	
Conversion	2018-05-22 08:03:41	5 secs	STEPSYS	Conversion completed	
Delta Calculation	2018-05-22 08:03:46	5 secs	STEPSYS	Delta calculation completed	
Import	2018-05-22 08:12:15	3 secs	STEPSYS	Import completed	
Import Completed	2018-05-22 08:12:18	17 days 3 hrs 8 mins 3 secs	STEPSYS		

1-5 of 5

Start import
Reject
Discard file

Importflow Attachment Component in Controller Screen

When configured, the Importflow Attachment component can be used to retrieve and display a report and/or other file type generated during an import within a Controller screen. The addition of this column will provide a downloadable file link for the applicable controller. Users can use the link to download and view the file.

This topic covers configuring the Importflow Attachment Component in Controller Screens to retrieve files from the [ACESToStepXMLConvertService] Conversion Service and [PIESValidationService] Validation Service.

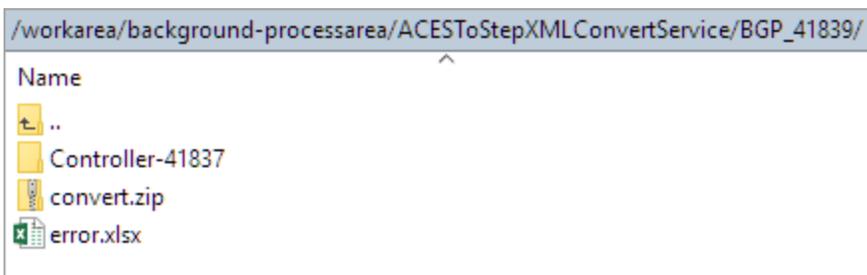
Prerequisites

It is expected that anyone configuring the Importflow Attachment component is familiar with the Web UI Designer as basic concepts for working with the designer are not covered in this section. In addition, the user must have appropriate privileges to access the designer. Additional information can be found in the Designer Access section of the Web User Interfaces documentation.

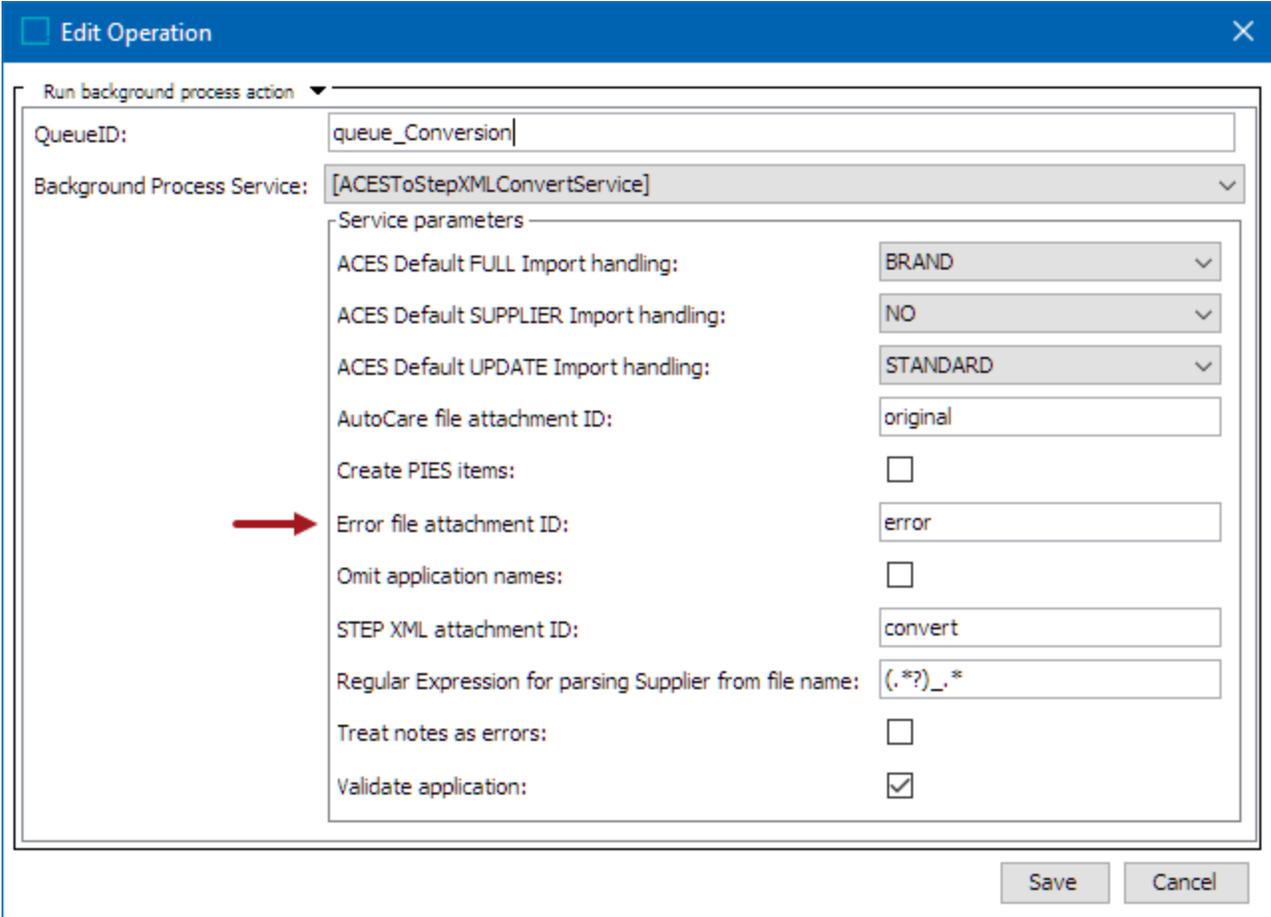
For information about accessing and configuring the Controller screen, refer to the Adding Additional Headers in Controller Screen topic.

Configuration within [ACESToStepXMLConvertService] Conversion Service

The [ACESToStepXMLConvertService] conversion service generates an error report if the ACES imported file encounters validation errors. As the conversion service runs a background process (BGP), a corresponding BGP folder is created on the application server in the /workarea/background-processarea/ACEStoStepXMLConvertService directory. Along with the output file of the conversion process, the BGP folder also contains an additional error.xlsx file if the ACES imported file encounters validation errors. In the screenshot below, **error.xlsx** is the error report file that is placed in the BGP_41839 folder.



The 'Error file attachment ID' parameter in the Conversion state of the AutoCare ACES import workflow allows users to define a value to identify the error file name, meaning that the value that is entered in this parameter specifies the file name of the error report in the conversion process.



The error file that is generated can be accessed in the AutoCare ACES Import Controller screen in the Web UI that is used to display the details of the ACES file import. Users need to add the **Importflow Attachment** table header component to the AutoCareACESApplicationControllerScreen to access this file in the Web UI. Below is the detailed procedure to add and configure the Importflow Attachment component:

1. Using the Web UI designer as shown in the image below, access the Headers parameter for the AutoCareACESApplicationControllerScreen to display the error file link. For information about accessing and adding headers to the Controller screen, refer to the Adding Additional Headers in Controller Screen topic.
2. Click the **Add** button for the Headers parameter, and the Add Component dialog will display.
3. Find and select the **Importflow Attachment** component.
4. Click the **Add** button, and the Importflow Attachment Properties dialog will display (as shown below).

Configuration Web UI style

AutoCareACESAppl... Save Close New... Delete Rename Save as...

Table Display Mode Properties [go to parent](#)

Component Description Shows the nodes from a Node List in a table.

Context Help i18n.stibo.portal.server.components.masterdetail.T

Headers

- ID Header (/ Process / false)
- Title Header (/ File Name / false)
- Importflow Overall Status

2 Add... Edit... Remove Up Down

Add Component

- Data Container Attribute Value Group Header Table header that shows importflow attachment file.
- Data Container Attribute Value Header
- Deduplication Header
- ID Header
- ID Shared Target Header
- Importflow Attachment** 3
- Importflow Overall Status
- Manufacturer References

Filter

Show deprecated components

Cancel Add 4

Add component - configure required properties

Importflow Attachment Properties

Component Description Table header that shows importflow attachment file.

* Attachment ID error

* Attachment Title error

Attachment Tooltip

Dimensions <Select an option> Edit...

Label Error

Table Sorting <Select a value>

Cancel Add

5. Populate the required parameters listed below.
 - **Attachment ID:** Within this parameter, the user has to enter the same value that is entered in the 'Error file attachment ID' parameter in the Conversion state to identify the error report file. The value key that is entered in this parameter forms the relationship between the error file that is created on the application server and the Importflow column that is displayed in the Web UI.



Important: If this key is not entered exactly in both places, then the error file link will not be displayed within the Web UI.

- **Attachment Title:** In this parameter, enter the text that will display as the name of the error file link in the Importflow column.
6. Once the required parameters are populated, the Add button will activate. Optionally, populate the parameters listed below.
 - **Attachment Tooltip:** In this parameter, enter the help text that will display when the user hovers the cursor over the error file link.
 - **Dimensions:** By default, the parameter is blank. Optionally, to configure the column width and height, select 'Table Header Dimensions.'
 - **Label:** By default, the parameter is blank. But after clicking the **Add** button, the default column header label (Attachment) will be stored. Optionally, enter the desired label to be displayed as the column header within the Controller screen.
 - **Table Sorting:** By default, the parameter is blank. Optionally, select from the dropdown values to specify the default sorting order of the column data.
 7. Click the **Save** button to save the newly added component to the Headers parameter.
 8. Optionally, on the Node List Properties Headers parameter, use the **Up** and/or **Down** buttons to configure the order in which the newly added column should display within the Controller screen.
 9. Click the **Save** and **Close** buttons for the designer.

In the screenshot below, **error.xlsx** is the error report file that can be downloaded by clicking on the link.

AutoCare ACES Imports

Process	File Name	Error	Convert output	Overall Status
Controller-41564	41_ALL.xml		convert.zip	Completed with errors: 5
Controller-41570	41_ALL.xml		convert.zip	Import completed
Controller-41834	error-error .xlsx			Error: Validation failed
Controller-41837	ACES_41_BurnsStainless with Errors_App_Notes.xml	error.xlsx	convert.zip	Done creating delta file

↑

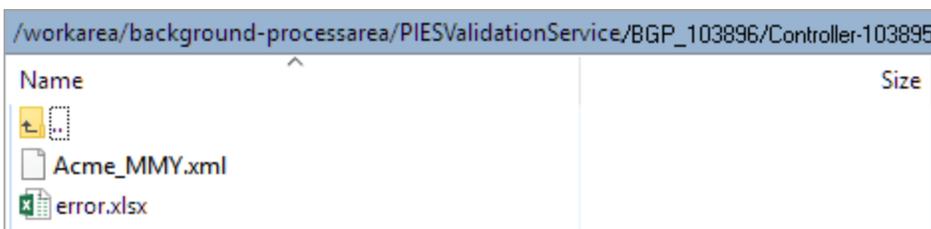
Import Details

Process	Started Time	Duration	Started By	Status	Background Process Link	Report
Validation	2020-05-14 09:33:41	5 secs	STEPSYS	Validation completed	succeeded	
Conversion	2020-05-14 09:33:46	12 secs	STEPSYS	Conversion completed with errors	completedwitherrors	
Delta Calculation	2020-05-14 09:33:58	3 secs	STEPSYS	Delta calculation completed	succeeded	
Import						

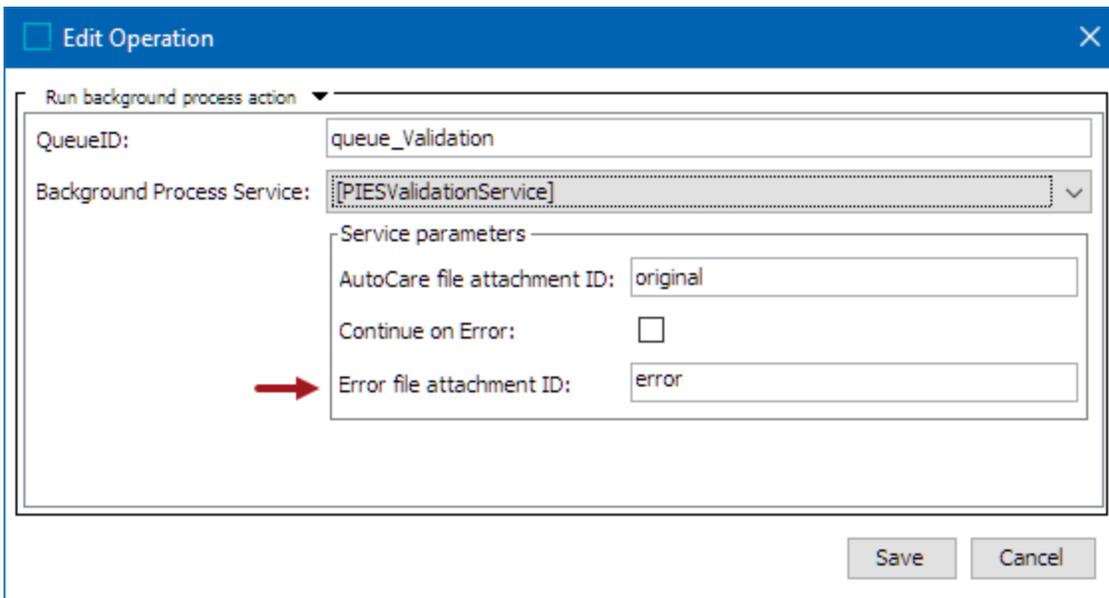
Configuration within [PIESValidationService] Validation Service

The [PIESValidationService] validation service generates an error report if the PIES imported file encounters validation errors. As the validation service runs a background process (BGP), a corresponding BGP folder is created on the application server at `/workarea/background-processarea/PIESValidationService` directory. The BGP folder contains a sub-folder whose name matches the STEP ID of the controller entity that is moving through the workflow.

If a PIES file completes validation with errors, the validation service also creates an additional Excel error file in the BGP folder. In the screenshot below, **error.xlsx** is the error report file placed in the Controller-103895 folder. Users can retrieve the Excel error file by accessing the folder on the application server.



The validation service called [PIESValidationService] includes an additional parameter called 'Error file attachment ID' along with the standard parameters offered by the AutoCare validation service (AutoCareValidationService). This additional parameter enables the creation of an error report if the imported PIES file encounters validation errors. When configured within the AutoCare PIES import workflow, this validation service performs its validation tasks in the same way as 'AutoCareValidationService,' but when the 'Error file attachment ID' parameter is configured, users can define a value to identify the error file name. The value entered in the 'Error file attachment ID' parameter will be part of the Excel file error report's file name.



The error file that is generated can be accessed in the AutoCare PIES Import Controller screen in the Web UI that is used to display the details of the PIES file import. Users need to add the **Importflow Attachment** table header component to the AutoCarePIESApplicationControllerScreen to access this file in the Web UI. Below is the detailed procedure to add and configure the Importflow Attachment component:

1. Using the Web UI designer as shown in the image below, access the Headers parameter for the AutoCarePIESApplicationControllerScreen to display the error file link. For information about accessing and adding headers to the Controller screen, refer to the Adding Additional Headers in Controller Screen topic.

2. Click the **Add** button for the Headers parameter, and the Add Component dialog will display.
3. Find and select the **Importflow Attachment** component.
4. Click the **Add** button, and the Importflow Attachment Properties dialog will display (as shown below).

Configuration Web UI style

AutoCarePIESContro Save Close New... Delete Rename Save as...

Table Display Mode Properties [go to parent](#)

Component Description Shows the nodes from a Node List in a table.

Context Help i18n.stibo.portal.server.components.masterdetail.1

Headers ID Header (Process / false)
Title Header (File Name / false)
Importflow Overall Status

2 Add... Edit... Remove Up Down

Show D

Add Component

Title Data Container Attribute Value Group Header Table header that shows importflow attachment file.
ID Header
Importflow Attachment 3
Importflow Overall Status
Importflow State Status

Filter

Show deprecated components

Cancel Add 4

Add component - configure required properties

Importflow Attachment Properties

Component Description Table header that shows importflow attachment file.

* Attachment ID

* Attachment Title

Attachment Tooltip

Dimensions <Select an option> Edit...

Label

Table Sorting <Select a value>

Cancel Add

5. Populate the required parameters listed below.

- **Attachment ID:** Within this parameter, the user has to enter the same value that is entered in the 'Error file attachment ID' parameter in the Validation state to identify the error report file. The value key that is entered in this parameter forms the relationship between the error file that is created on the application server and the Importflow column that is displayed in the Web UI.



Important: If this key is not entered exactly in both places, then the error file link will not be displayed within the Web UI.

- **Attachment Title:** In this parameter, enter the text that will display as the name of the error file link in the Importflow column.
6. Once the required parameters are populated, the Add button will activate. Optionally, populate the parameters listed below.
 - **Attachment Tooltip:** In this parameter, enter the help text that will display when the user hovers the cursor over the error file link.
 - **Dimensions:** By default, the parameter is blank. Optionally, to configure the column width and height, select 'Table Header Dimensions.'
 - **Label:** By default, the parameter is blank. But after clicking the **Add** button, the default column header label (Attachment) will be stored. Optionally, enter the desired label to be displayed as the column header within the Controller screen.
 - **Table Sorting:** By default, the parameter is blank. Optionally, select from the dropdown values to specify the default sorting order of the column data.
 7. Click the **Save** button to save the newly added component to the Headers parameter.
 8. Optionally, on the Node List Properties Headers parameter, use the **Up** and/or **Down** buttons to configure the order in which the newly added column should display within the Controller screen.
 9. Click the **Save** and **Close** buttons for the designer.

In the screenshot below, **error.xlsx** is the error report file that can be downloaded by clicking on the link.

AutoCare PIES Imports					
Process	File Name	Error	Convert output	Overall Status	
Controller-41564	41_ALL.xml		convert.zip	Completed with errors: 5	
Controller-41570	41_ALL.xml		convert.zip	Import completed	
Controller-41834	error-error .xlsx			Error: Validation failed	
Controller-41837	Notes.xml	error.xlsx	convert.zip	Done creating delta file	

Import Details						
Process	Started Time	Duration	Started By	Status	Background Process Link	Report
Validation	2020-05-14 09:33:41	5 secs	STEPSYS	Validation completed	completedwitherrors	
Conversion	2020-05-14 09:33:46	12 secs	STEPSYS	Conversion completed with errors	completedwitherrors	
Delta Calculation	2020-05-14 09:33:58	3 secs	STEPSYS	Delta calculation completed	succeeded	
Import						

Specify Import Information Retrieving Attributes

Once a valid Automotive file is uploaded to a hotfolder on the application server, the file is picked up from the hotfolder by an IIEP, and the IIEP creates an Entity object in the system that represents the file. This Entity object is called the 'Controller' and contains basic data about the file and the file's status in the workflow. Some examples of information that can be stored on the entity controller object are: Total count of good and bad application records in the ACES import file; count of new, updated, and deleted objects; ACES Submission Type; ACES Brands, and ACES Part Types. In order to display this information in the Web UI, additional Attribute Value Header components need to be added in the Import Controller screen. This topic describes the detailed procedure on configuring these headers and the supporting data model behind them.

To easily start and monitor an Automotive Import, recommended practice is to use a Web UI Import Controller screen specific to the Importer. When the Easy Setup actions for AutoCare, TecDoc, and NAPA standards are completed, the Import Controller screen for each of the importers are automatically created and configured for use.

Configuration Steps to Track the Good and Bad Application Counts

Note: This setup action is only required if the AutoCare standard is being configured and only needs to be carried out within the ACES functionality. If the AutoCare standard is not being configured, this setup action can be skipped.

The ACES import Conversion state can be configured to keep a track of the count for good and bad application records in the imported ACES file. The 'Error count attribute' parameter in the Conversion state of the AutoCare ACES Import workflow allows users to define the attribute that will store the error application count, and the 'Good application count attribute' parameter in the Conversion state of the AutoCare ACES import workflow allows users to define the attribute that will store the good application (application records without error) count.

Running Easy Setup will create and populate this parameter with the Import Flow Error Count (AC_ImportflowErrorCount) attribute.

If users would like to create this attribute manually, then the following manual setup needs to be done in the workbench:

1. Create a Number Validation Base Type, Description attribute to hold the count for the good applications. Make the attribute Valid for Entity Types = Import Flow Controller Type.

System Setup

- Tree
- Search
- BG Processes
- System Setup
- Bookmarks
- STEP Workflow

- [-] Attribute Groups
 - [+] Application Record Attributes
 - [+] AutoCare Attributes
 - [+] AutoCare ACES Attributes
 - [+] AutoCare Brand Attributes
 - [+] AutoCare Importflow attributes
 - [+] Import Flow Brand
 - [+] Import Flow Error Count
 - [+] **Import Flow Good Count**
 - [+] Import Flow Import Mode
 - [+] Import Flow Part Type
 - [+] AutoCare PAdb Attributes
 - [+] AutoCare PCdb Attributes
 - [+] AutoCare PIES Attributes
 - [+] AutoCare Qdb Attributes
 - [+] AutoCare VCdb Attributes
 - [+] Language Code
- [+] Business Rules
- [+] Category Specific Attributes
- [+] Display
- [+] Event Filtering
- [+] General Attributes
- [+] Import Flow Attribute Group
- [+] MBHA
- [+] Metadata
- [+] Attribute Transformations
- [+] Action Sets
- [+] Contexts
- [+] InDesign Queue
- [+] Lists of Values / LOVs
- [+] Completeness Metrics
- [+] DataProfileConfigurations
- [+] Global Business Rules
- [+] Inbound Integration Endpoints
- [+] Mappings
- [+] Match Codes and Matching Algorithms
- [+] Outbound Integration Endpoints
- [+] Status Flags
- [+] Web UIs
- [+] Workflow Profiles
- [+] Workflows
 - [+] Validate Application on import
 - [+] Set Change Flags
 - [+] AutoCare ACES Import
 - [+] ACES Conversion

Import Flow Good Count - Attribute

Attribute

References

Attribute Transformation

Validity

Profile

Description

Name	Value
> ID	AC_ImportflowGoodCount
> Name	Import Flow Good Count
> Last edited by	2020-09-08 08:39:02 by STEPSYS
> Full Text Indexable	No
> Externally Maintained	No
> Hierarchical Filtering	None
> Calculated	No
> Type	Description
> Dimension Dependencies	
> Mandatory	No
> ATTR_Article OK	
> ATTR_Delete	
> ATTR_Has Value	
> ATTR_Linking Targets	
> ATTR_Short Description	abc
> ATTR_Sort Nr	
> ATTR_Sucessor To	abc
> NAPAtargetAttribute	abc
> NAPATransformationAttribute	abc
> Purpose	abc
> Unit Description	abc

Attribute Validation

Name	Value
> Validation Base Type	Number
> List Of Values	N/A
> Multi Valued	No
> Mask	
> Minimum Value	
> Maximum Value	
> Maximum Length	N/A

Edit Validation Rule

Units

2. Create a Number Validation Base Type, Description attribute to hold the count for the error applications. Make the attribute Valid for Entity Types = Import Flow Controller Type.

The screenshot displays the 'System Setup' interface. On the left is a tree view with categories like 'Attribute Groups', 'Business Rules', and 'Workflows'. The 'Import Flow Error Count' attribute is selected under 'AutoCare Importflow attributes'. On the right, the 'Import Flow Error Count - Attribute' configuration panel is shown, with tabs for 'Attribute', 'References', 'Attribute Transformation', 'Validity', 'Profile', and 'Log'. The 'Attribute' tab is active, showing a table of attribute properties and an 'Attribute Validation' section.

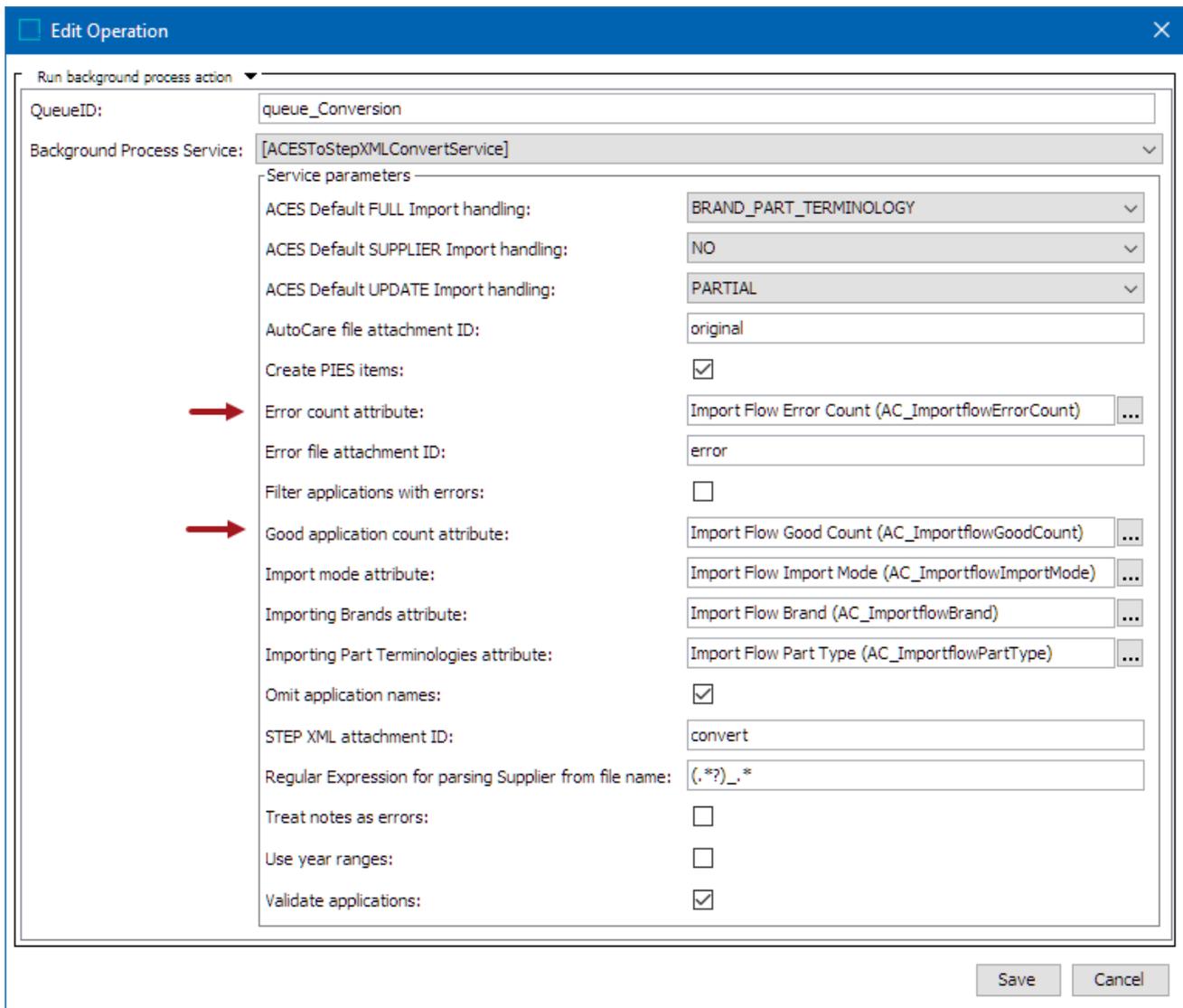
Description	
Name	Value
ID	AC_ImportflowErrorCount
Name	Import Flow Error Count
Last edited by	2020-09-08 08:39:02 by STEPSYS
Full Text Indexable	No
Externally Maintained	No
Hierarchical Filtering	None
Calculated	No
Type	Description
Dimension Dependencies	
Mandatory	No
ATTR_Article OK	
ATTR_Delete	123
ATTR_Has Value	123
ATTR_Linking Targets	
ATTR_Short Description	abc
ATTR_Sort Nr	123
ATTR_Sucesser To	abc
NAPAtargetAttribute	abc
NAPATransformationAttribute	abc
Purpose	abc
Unit Description	abc

Attribute Validation	
Name	Value
Validation Base Type	Number
List Of Values	N/A
Multi Valued	No
Mask	
Minimum Value	
Maximum Value	
Maximum Length	N/A

[Edit Validation Rule](#)

- Go to the ACES Conversion business action within the ACES Import workflow and edit the business rule. Add the 'ACES Good Application Count' attribute into the 'Good application count attribute' parameter, and add the 'ACES Error Application Count' attribute into the 'Error count attribute'

parameter. For more details regarding how to fully configure the ACES Conversion business action, refer to the Conversion State topic within the 'Default Workflow States and Functions' section topic of the Automotive Reference Guide documentation.



The screenshot shows the 'Edit Operation' dialog box with the following configuration:

- QueueID: queue_Conversion
- Background Process Service: [ACESToStepXMLConvertService]
- Service parameters:
 - ACES Default FULL Import handling: BRAND_PART_TERMINOLOGY
 - ACES Default SUPPLIER Import handling: NO
 - ACES Default UPDATE Import handling: PARTIAL
 - AutoCare file attachment ID: original
 - Create PIES items:
 - Error count attribute: Import Flow Error Count (AC_ImportflowErrorCount) (indicated by a red arrow)
 - Error file attachment ID: error
 - Filter applications with errors:
 - Good application count attribute: Import Flow Good Count (AC_ImportflowGoodCount) (indicated by a red arrow)
 - Import mode attribute: Import Flow Import Mode (AC_ImportflowImportMode)
 - Importing Brands attribute: Import Flow Brand (AC_ImportflowBrand)
 - Importing Part Terminologies attribute: Import Flow Part Type (AC_ImportflowPartType)
 - Omit application names:
 - STEP XML attachment ID: convert
 - Regular Expression for parsing Supplier from file name: (.*)_.*
 - Treat notes as errors:
 - Use year ranges:
 - Validate applications:

Buttons: Save, Cancel

To display the good and error count in the Web UI, users need to configure an Attribute Value Header component in the 'AutoCareACESApplicationControllerScreen' for each of the attributes. For information about accessing the Headers parameter and adding table header components to the Controller screen, refer to the Adding Additional Headers in Controller Screen topic.

Configuration Web UI style

AutoCareACESApplic Save Close New... Delete Rename Save as...

Table Display Mode Properties [go to parent](#)

Component Description Shows the nodes from a Node List in a table.

Context Help i18n.stibo.portal.server.components.masterdetail.Tab

Headers ID Header (/ Process / false)
Title Header (/ File Name / false)
Importflow Overall Status

Add... Edit... Remove Up Down

Show Details

Title

► Sizing and

► Advanced

Child Co

Add Component

Application Part Type Value

Application Part Value

Application Set Assembly

Attribute Value Group Header

Attribute Value Header

Classification-Specific Attribute Value Header

Data Container Attribute Value Group Header

The Attribute Value Header can be configured to display attributes values for a selected object. Used in combination with a Node List.

Filter

Show deprecated components

Cancel Add

Add component - configure required properties

Attribute Value Header Properties

Component Description The Attribute Value Header can be configured to display attributes values for a selected object. Used in combination with a Node List.

* Attribute ImportAppErrorCount

Dimensions <Select an option> Edit...

Label

Mandatory <Select a value>

Readonly

Table Sorting <Select a value>

► Advanced

Cancel Add

Below is an example of the 'AutoCareACESApplicationControllerScreen' that has been configured to display the error application count and good application count in the Web UI.

AutoCare ACES Imports											
Process	File Name	Overall Status	Good	Errors	Error Report	Adds	Deletes	Updates	Brand	Part Type	Import Mode
Controller-118498	SFF_Full	Completed with errors: 1	8	3	Error Report	0	0	0	SFF	Clutch Release Bearing Engine Crankshaft Repair Sleeve Engine Crankshaft Seal Wheel Bearing Wheel Bearing and Hub Assembly Wheel Bearing Retaining Ring	FULL

< > 51-53 of 53 >

Import Details

Process	Started Time	Duration	Started By	Status	Background Process Link	Report
Validation	2020-06-17 20:11:18	5 secs	ACESIMPORT	Validation completed	Succeeded	
Conversion	2020-06-17 20:11:23	6 secs	ACESIMPORT	Conversion completed with errors	Completed With Errors	Download file
Delta Calculation	2020-06-17 20:11:29	1 min 43 secs	ACESIMPORT	Delta calculation completed	Succeeded	Download file
Import	2020-06-17 20:13:12	2 secs	ACESIMPORT	Completed with errors: 1	Completed With Errors	

Configuration Steps to Retrieve Submission Type, Brands, and Part Types from the ACES File

Note: This setup action is only required if the AutoCare standard is being configured and only needs to be carried out within the ACES functionality. If the AutoCare standard is not being configured, this setup action can be skipped.

The ACES import Conversion state can be configured to retrieve information such as Submission Type, Brands, and Part Types from the ACES file. The following parameters in the Conversion state of the AutoCare ACES import workflow helps in configuring this solution:

- The 'Import mode attribute' parameter allows users to define the attribute that will store the value for the Submission Type (FULL or UPDATE),
- The 'Importing Brands attribute' parameter allows users to define the attribute that will store the Name of the BrandAAIAID that is used in the ACES import file. The Name is retrieved by looking up the BrandAAIAID in the Brand table.

- The 'Importing Part Terminologies attribute' parameter allows users to define the attribute that will store the Name of the Part Type that is used in the ACES import file. The Name is retrieved by looking up the PartType ID in the PCdb table.

To retrieve and display information of Submission Type, Brands, and Part Types from the ACES file, the following manual setup needs to be done in the workbench:

1. Create an attribute with the following configuration to hold the value for the import mode:
 - Externally maintained
 - Text Validation Base Type
 - Multi Valued = No
 - Description attribute
 - Valid for Entity Types = Import Flow Controller Type.

System Setup

- Tree
- Search
- BG Processes
- System Setup
- Bookmarks
- STEP Workflow

- [-] Attribute Groups
 - [+] Application Record Attributes
 - [+] AutoCare Attributes
 - [+] AutoCare ACES Attributes
 - [+] AutoCare Brand Attributes
 - [+] AutoCare Importflow attributes
 - [+] Import Flow Brand
 - [+] Import Flow Error Count
 - [+] Import Flow Good Count
 - [+] **Import Flow Import Mode**
 - [+] Import Flow Part Type
 - [+] AutoCare PAdb Attributes
 - [+] AutoCare PCdb Attributes
 - [+] AutoCare PIES Attributes
 - [+] AutoCare Qdb Attributes
 - [+] AutoCare VCdb Attributes
 - [+] Language Code
- [-] Business Rules
- [-] Category Specific Attributes
- [-] Display
- [-] Event Filtering
- [+] General Attributes
- [+] Import Flow Attribute Group
- [+] MBHA
- [+] Metadata
- [+] NAPA Attributes
- [+] Attribute Transformations
- [+] Action Sets
- [+] Contexts
- [+] InDesign Queue
- [+] Lists of Values / LOVs
- [+] Completeness Metrics
- [+] DataProfileConfigurations
- [+] Global Business Rules
- [+] Inbound Integration Endpoints
- [+] Mappings
- [+] Match Codes and Matching Algorithms
- [+] Outbound Integration Endpoints
- [+] Status Flags
- [+] Web UIs
- [+] Workflow Profiles
- [+] Workflows
 - [+] Validate Application on import
 - [+] Set Change Flags
 - [+] AutoCare ACES Import
 - [+] ACES Conversion

Import Flow Import Mode - Attribute

Attribute

References

Attribute Transformation

Validity

Profile

Log

🔍 Description

Name	Value
> ID	AC_ImportflowImportMode
> Name	Import Flow Import Mode
> Last edited by	2020-09-08 08:39:02 by STEPSYS
> Full Text Indexable	No
> Externally Maintained	No
> Hierarchical Filtering	None
> Calculated	No
> Type	Description
> Dimension Dependencies	
> Mandatory	No
> ATTR_Article OK	
> ATTR_Delete	
> ATTR_Has Value	
> ATTR_Linking Targets	
> ATTR_Short Description	abc
> ATTR_Sort Nr	
> ATTR_Sucesser To	abc
> Display Sequence	123
> NAPAtargetAttribute	abc
> NAPATransformationAttribute	abc
> Purpose	abc
> Unit Description	abc

🔍 Attribute Validation

Name	Value
> Validation Base Type	Text
> List Of Values	N/A
> Multi Valued	No
> Mask	
> Minimum Value	N/A
> Maximum Value	N/A
> Maximum Length	200

[Edit Validation Rule](#)

2. Create an attribute with the following configuration to hold the value for Brand(s):

- Externally maintained
- Text Validation Base Type
- Multi Valued = Yes
- Description attribute
- Valid for Entity Types = Import Flow Controller Type.

The screenshot displays the 'System Setup' interface with a tree view on the left and a detailed configuration panel on the right for the 'Import Flow Brand - Attribute'.

System Setup Tree View:

- Attribute Groups
 - Application Record Attributes
 - AutoCare Attributes
 - AutoCare ACES Attributes
 - AutoCare Brand Attributes
 - AutoCare Importflow attributes
 - Import Flow Brand**
 - Import Flow Error Count
 - Import Flow Good Count
 - Import Flow Import Mode
 - Import Flow Part Type
 - AutoCare PAdb Attributes
 - AutoCare PCdb Attributes
 - AutoCare PIES Attributes
 - AutoCare Qdb Attributes
 - AutoCare VCdb Attributes
 - Language Code
 - Business Rules
 - Category Specific Attributes
 - Display
 - Event Filtering
 - General Attributes
 - Import Flow Attribute Group
 - MBHA
 - Metadata
 - NAPA Attributes
- Attribute Transformations
- Action Sets
- Contexts
- InDesign Queue
- Lists of Values / LOVs
- Completeness Metrics
- DataProfileConfigurations
- Global Business Rules
- Inbound Integration Endpoints
- Mappings
- Match Codes and Matching Algorithms
- Outbound Integration Endpoints
- Status Flags
- Web UIs
- Workflow Profiles
- Workflows
 - Validate Application on import
 - Set Change Flags
 - AutoCare ACES Import
 - ACES Conversion

Import Flow Brand - Attribute	
Attribute	Value
Description	
Name	Value
ID	AC_ImportflowBrand
Name	Import Flow Brand
Last edited by	2020-09-08 08:39:02 by STEPSYS
Full Text Indexable	No
Externally Maintained	No
Hierarchical Filtering	None
Calculated	No
Type	Description
Dimension Dependencies	
Mandatory	No
ATTR_Article OK	
ATTR_Delete	
ATTR_Has Value	
ATTR_Linking Targets	
ATTR_Short Description	abc
ATTR_Sort Nr	
ATTR_Sucesser To	abc
Display Sequence	123
NAPATargetAttribute	abc
NAPATransformationAttribute	abc
Purpose	abc
Unit Description	abc
Attribute Validation	
Name	Value
Validation Base Type	Text
List Of Values	N/A
Multi Valued	Yes
Mask	
Minimum Value	N/A
Maximum Value	N/A
Maximum Length	200
Edit Validation Rule	

3. Create an attribute with the following configuration to hold the value for Part Type(s):

- Externally maintained
- Text Validation Base Type
- Multi Valued = Yes
- Description attribute
- Valid for Entity Types = Import Flow Controller Type.

The screenshot displays the 'System Setup' interface. On the left, a tree view shows the 'System Setup' folder expanded to 'Import Flow Part Type'. On the right, the 'Import Flow Part Type - Attribute' configuration window is open, showing the following data:

Description	
Name	Value
ID	AC_ImportflowPartType
Name	Import Flow Part Type
Last edited by	2020-09-08 08:39:02 by STEPSYS
Full Text Indexable	No
Externally Maintained	No
Hierarchical Filtering	None
Calculated	No
Type	Description
Dimension Dependencies	
Mandatory	No
ATTR_Article OK	
ATTR_Delete	t23
ATTR_Has Value	t23
ATTR_Linking Targets	
ATTR_Short Description	abc
ATTR_Sort Nr	t23
ATTR_Sucessor To	abc
Display Sequence	t23
NAPAtargetAttribute	abc
NAPATransformationAttribute	abc
Purpose	abc
Unit Description	abc

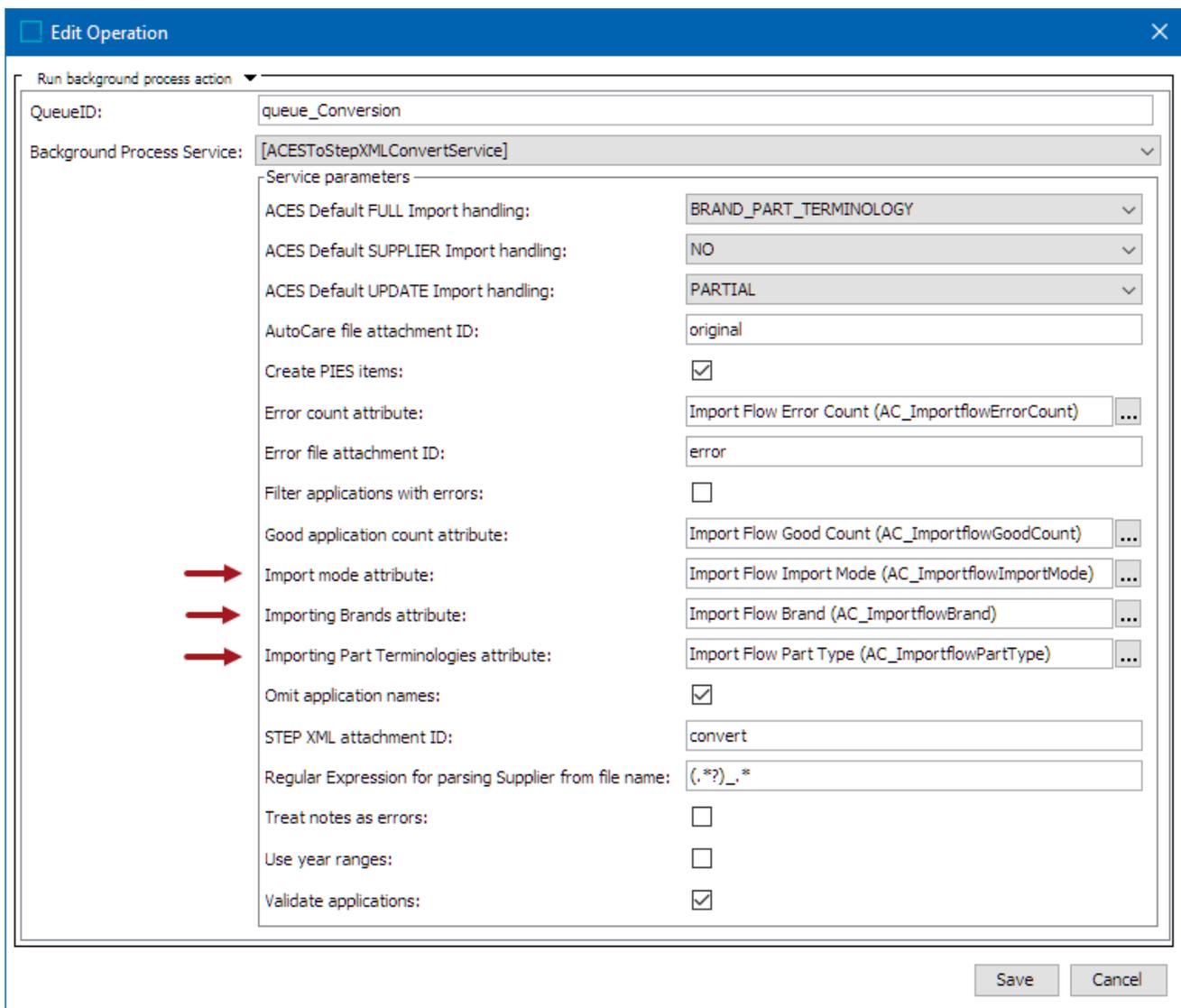
Attribute Validation	
Name	Value
Validation Base Type	Text
List Of Values	N/A
Multi Valued	Yes
Mask	
Minimum Value	N/A
Maximum Value	N/A
Maximum Length	200

Below the validation table, there is a link: [Edit Validation Rule](#)

4. Go to the ACES Conversion business action within the ACES Import workflow and edit the business rule. Configure the parameters as follows:

- Add the import mode attribute into the 'Import mode attribute' parameter
- Add the brand mode attribute into the 'Importing Brands attribute' parameter
- Add the part terminology attribute into the 'Importing Part Terminologies attribute' parameter

For more details regarding how to fully configure the ACES Conversion business action, refer to the Conversion State topic within the 'Default Workflow States and Functions' section topic of the Automotive Reference Guide documentation.



Edit Operation

Run background process action ▼

QueueID: queue_Conversion

Background Process Service: [ACESToStepXMLConvertService]

Service parameters

ACES Default FULL Import handling:	BRAND_PART_TERMINOLOGY
ACES Default SUPPLIER Import handling:	NO
ACES Default UPDATE Import handling:	PARTIAL
AutoCare file attachment ID:	original
Create PIES items:	<input checked="" type="checkbox"/>
Error count attribute:	Import Flow Error Count (AC_ImportflowErrorCount) ...
Error file attachment ID:	error
Filter applications with errors:	<input type="checkbox"/>
Good application count attribute:	Import Flow Good Count (AC_ImportflowGoodCount) ...
Import mode attribute:	Import Flow Import Mode (AC_ImportflowImportMode) ...
Importing Brands attribute:	Import Flow Brand (AC_ImportflowBrand) ...
Importing Part Terminologies attribute:	Import Flow Part Type (AC_ImportflowPartType) ...
Omit application names:	<input checked="" type="checkbox"/>
STEP XML attachment ID:	convert
Regular Expression for parsing Supplier from file name:	(.*?).*
Treat notes as errors:	<input type="checkbox"/>
Use year ranges:	<input type="checkbox"/>
Validate applications:	<input checked="" type="checkbox"/>

Save Cancel

To display the import mode, Brand(s), and Part Type(s) from the ACES file within the Web UI, users need to configure an Attribute Value Header component in the 'AutoCareACESApplicationControllerScreen' for each of the attributes. For information about accessing the Headers parameter and adding table header components to the Controller screen, refer to the Adding Additional Headers in Controller Screen topic.

Configuration Web UI style

AutoCareACESApplic Save Close New... Delete Rename Save as...

Table Display Mode Properties [go to parent](#)

Component Description Shows the nodes from a Node List in a table.

Context Help

Headers

- ID Header (/ Process / false)
- Title Header (/ File Name / false)
- Importflow Overall Status

Add... Edit... Remove Up Down

Show Details

Title

- Sizing and
- Advanced

Child Co

Add Component

- Application Part Type Value
- Application Part Value
- Application Set Assembly
- Attribute Value Group Header
- Attribute Value Header**
- Classification-Specific Attribute Value Header
- Data Container Attribute Value Group Header

The Attribute Value Header can be configured to display attributes values for a selected object. Used in combination with a Node List.

Filter

Show deprecated components

Cancel Add

Add component - configure required properties

Attribute Value Header Properties

Component Description The Attribute Value Header can be configured to display attributes values for a selected object. Used in combination with a Node List.

* Attribute

Dimensions Edit...

Label

Mandatory

Readonly

Table Sorting

Advanced

Cancel Add

Below is an example of the 'AutoCareACESApplicationControllerScreen' that has been configured to display the Brand, Part Types, and Submission Type in the Web UI.

AutoCare ACES Imports											
Process	File Name	Overall Status	Good	Errors	Error Report	Adds	Deletes	Updates	Brand	Part Type	Import Mode
Controller-118498	SFF_Full	Completed with errors: 1	8	3	Error Report	0	0	0	SFF	Clutch Release Bearing Engine Crankshaft Repair Sleeve Engine Crankshaft Seal Wheel Bearing Wheel Bearing and Hub Assembly Wheel Bearing Retaining Ring	FULL

K < 51-53 of 53 > >|

Import Details							
Process	Started Time	Duration	Started By	Status	Background Process Link	Report	
Validation	2020-06-17 20:11:18	5 secs	ACESIMPORT	Validation completed	Succeeded		
Conversion	2020-06-17 20:11:23	6 secs	ACESIMPORT	Conversion completed with errors	Completed With Errors	Download file	
Delta Calculation	2020-06-17 20:11:29	1 min 43 secs	ACESIMPORT	Delta calculation completed	Succeeded	Download file	
Import	2020-06-17 20:13:12	2 secs	ACESIMPORT	Completed with errors: 1	Completed With Errors		

Configuration Steps to Track the New, Updated, and Deleted Objects Count

The Delta Calculation state can be configured to keep track of the count for new, updated, and deleted objects in the imported file. The 'Object Type changes count' parameter in the Delta Calculation state of the Automotive import workflow allows users to define the object type and attributes that will store the New, Updated, or Deleted count.

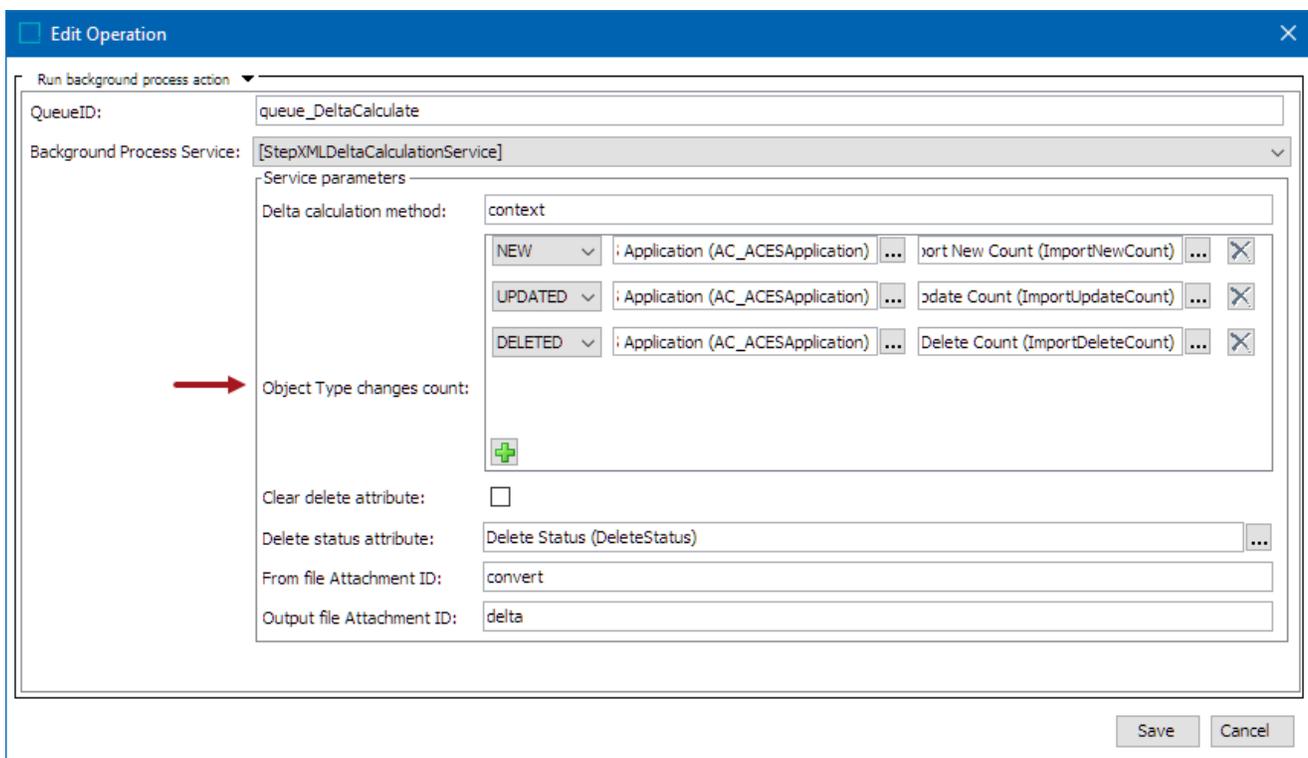
⚠ Important: This functionality works only for the 'context' delta calculation method.

To track the new, updated, and deleted objects counts, the following manual setup needs to be done in the workbench:

1. Create three Text Validation Base Type, Description attributes to hold the counts for the New, Deleted, and Updated objects. Make the attribute Valid for Entity Types = Import Flow Controller Type.

2. For any import workflow that uses 'context' Delta calculation method (e.g., ACES Delta Calculate), go to the Delta Calculate business action within the workflow and edit the business rule. In the 'Object Type changes count' parameter do the following:
 - Click on the Add icon (+), select 'NEW' from the dropdown list, select the object type that should be included in the new count (e.g., ACES Application), and add the 'New' attribute
 - Click on the Add icon (+), select 'DELETED' from the dropdown list, select the object type that should be included in the delete count, and add the 'Deleted' attribute
 - Click on the Add icon (+), select 'UPDATED' from the dropdown list, select the object type that should be included in the update count, and add the 'Updated' attribute

For more details regarding how to fully configure the Delta Calculation state, refer to the Delta Calculation State topic within the 'Default Workflow States and Functions' section topic of the Automotive Reference Guide documentation.



The screenshot shows the 'Edit Operation' dialog box for a background process action. The 'QueueID' is 'queue_DeltaCalculate' and the 'Background Process Service' is '[StepXMLDeltaCalculationService]'. The 'Delta calculation method' is set to 'context'. The 'Object Type changes count' section is highlighted with a red arrow and contains three rows:

State	Object Type	Count Attribute
NEW	Application (AC_ACESApplication)	Import New Count (ImportNewCount)
UPDATED	Application (AC_ACESApplication)	Update Count (ImportUpdateCount)
DELETED	Application (AC_ACESApplication)	Delete Count (ImportDeleteCount)

Below this table, there is a '+' icon to add more rows. Other fields include 'Clear delete attribute' (checkbox), 'Delete status attribute' (Delete Status (DeleteStatus)), 'From file Attachment ID' (convert), and 'Output file Attachment ID' (delta). 'Save' and 'Cancel' buttons are at the bottom right.



Note: The above screenshot is just an example. For ACES import, there will only be New or Deleted counts, there will not be any Updated counts. Any changes to an attribute or reference for an existing application will result in a new application getting created instead of the existing application getting updated.

To display the New, Updated, or Deleted count in the Web UI, users need to configure an Attribute Value Header component in the Import Controller screen (e.g., 'AutoCareACESApplicationControllerScreen') for each of the attributes. For information about accessing the Headers parameter and adding table header components to the Controller screen, refer to the Adding Additional Headers in Controller Screen topic.

Configuration Web UI style

AutoCareACESApplic ▾ Save Close New... Delete Rename Save as...

Table Display Mode Properties [go to parent](#)

Component Description Shows the nodes from a Node List in a table.

Context Help

Headers

- ID Header (/ Process / false)
- Title Header (/ File Name / false)
- Importflow Overall Status

Add... Edit... Remove Up Down

Show Details

Title

- Sizing and
- Advanced

Child Co

Add Component

- Application Part Type Value
- Application Part Value
- Application Set Assembly
- Attribute Value Group Header
- Attribute Value Header**
- Classification-Specific Attribute Value Header
- Data Container Attribute Value Group Header

The Attribute Value Header can be configured to display attributes values for a selected object. Used in combination with a Node List.

Filter

Show deprecated components

Cancel **Add**

Add component - configure required properties

Attribute Value Header Properties

Component Description The Attribute Value Header can be configured to display attributes values for a selected object. Used in combination with a Node List.

* Attribute ...

Dimensions Edit...

Label

Mandatory

Readonly

Table Sorting

▸ Advanced

Cancel **Add**

Below is an example of the 'AutoCareACESApplicationControllerScreen' that has been configured to display the new application count, deleted application count, and the updated application count in the Web UI.

AutoCare ACES Imports											
Process	File Name	Overall Status	Good	Errors	Error Report	Adds	Deletes	Updates	Brand	Part Type	Import Mode
Controller-118498	SFF_Full	Completed with errors: 1	8	3	Error Report	0	0	0	SFF	Clutch Release Bearing Engine Crankshaft Repair Sleeve Engine Crankshaft Seal Wheel Bearing Wheel Bearing and Hub Assembly Wheel Bearing Retaining Ring	FULL
< > 51-53 of 53 > >											
Import Details											
Process	Started Time	Duration	Started By	Status	Background Process Link	Report					
Validation	2020-06-17 20:11:18	5 secs	ACESIMPORT	Validation completed	Succeeded						
Conversion	2020-06-17 20:11:23	6 secs	ACESIMPORT	Conversion completed with errors	Completed With Errors	Download file					
Delta Calculation	2020-06-17 20:11:29	1 min 43 secs	ACESIMPORT	Delta calculation completed	Succeeded	Download file					
Import	2020-06-17 20:13:12	2 secs	ACESIMPORT	Completed with errors: 1	Completed With Errors						
<div style="display: flex; justify-content: space-between; align-items: center;"> ➔ Start import ➔ Reject 1 file </div>											

12. Other Considerations

As you have found above, the PMDM for Automotive solution provides a large amount of ready-to-use functionality. In addition, the solution is designed to be flexible and extendable via standard STEP configuration and use of the Extension API. Within the elements of the PMDM for Automotive solution, it is expected that users will modify and expand on the base solution to best meet their particular needs. In addition to the PMDM for Automotive solution, most customers will also want to take advantage of the core STEP capabilities to accomplish standard data management activities. Some suggestions for additional topics to be considered as part of a comprehensive STEP implementation are listed below, though this should not be considered an all-inclusive list as each customer will likely have unique business cases to be solved.

- What is the onboarding and approval process for parts? Should a workflow be added for new product onboarding?
- What is the approval process for reference and supplier data? Will reporting capabilities be added via the Extension API so data can be reviewed prior to import? Should business rules (and/or additional states) be added to the existing import workflows to validate data beyond the standard format validations? Should all data be considered trusted and auto-approved, and the import files modified to approve the data upon import? Should data be entered into a workflow for further review and approval following import?
- Is any unique processing of import files required? Does any data need to be filtered out, validated, etc in a non-standard way? If so, a new state could be added to the relevant workflow and additional processing could be managed within that state using the Extension API.
- Will an "Own" model be considered as part of the solution? If so, what needs to be added to support that (e.g., data model, integrations, workflows, etc)?
- If an Own model is used, consider adding the Reference Delegation screen to an Application Editor screen.
- What data do users need to view and manage in Web UI? Should additional screens be added for onboarding, maintenance, or viewing of parts, vehicles, or any other data?
- How will data deletions be handled? The automotive importers have the capability to mark data for deletion, but will not actually carry out the deletions as each implementation should determine how to

review and process deletions. The existing import workflows could be modified to carry out deletions rather than marking the data for deletion. Alternatively, data marked for deletion could be added to a separate workflow for review and execution of the deletion.

Quick Start for Users

This section provides an overview of end user functionality that is provided with the solution after Easy Setup actions for one or more automotive standards have been completed by an admin.

This section addresses the following topics:

- Using Automotive Importers
- Using Automotive Exporters

Prerequisites

This documentation assumes that the reader has had some degree of STEP training and is able to perform basic navigation and data maintenance tasks in the STEP Web UI. Additional introductory material is provided in STEP Online Help, if needed.



Important: This documentation will often use the AutoCare standard as an example, but the same information is applicable for the NAPA and TecDoc standards.

Using Automotive Importers

The individual processing of each import is of course different, but the way a user initiates and manages the imports is the same, and is described in the subsequent sections.

For information on the supported versions, refer to the Supported Versions and Formats topic.

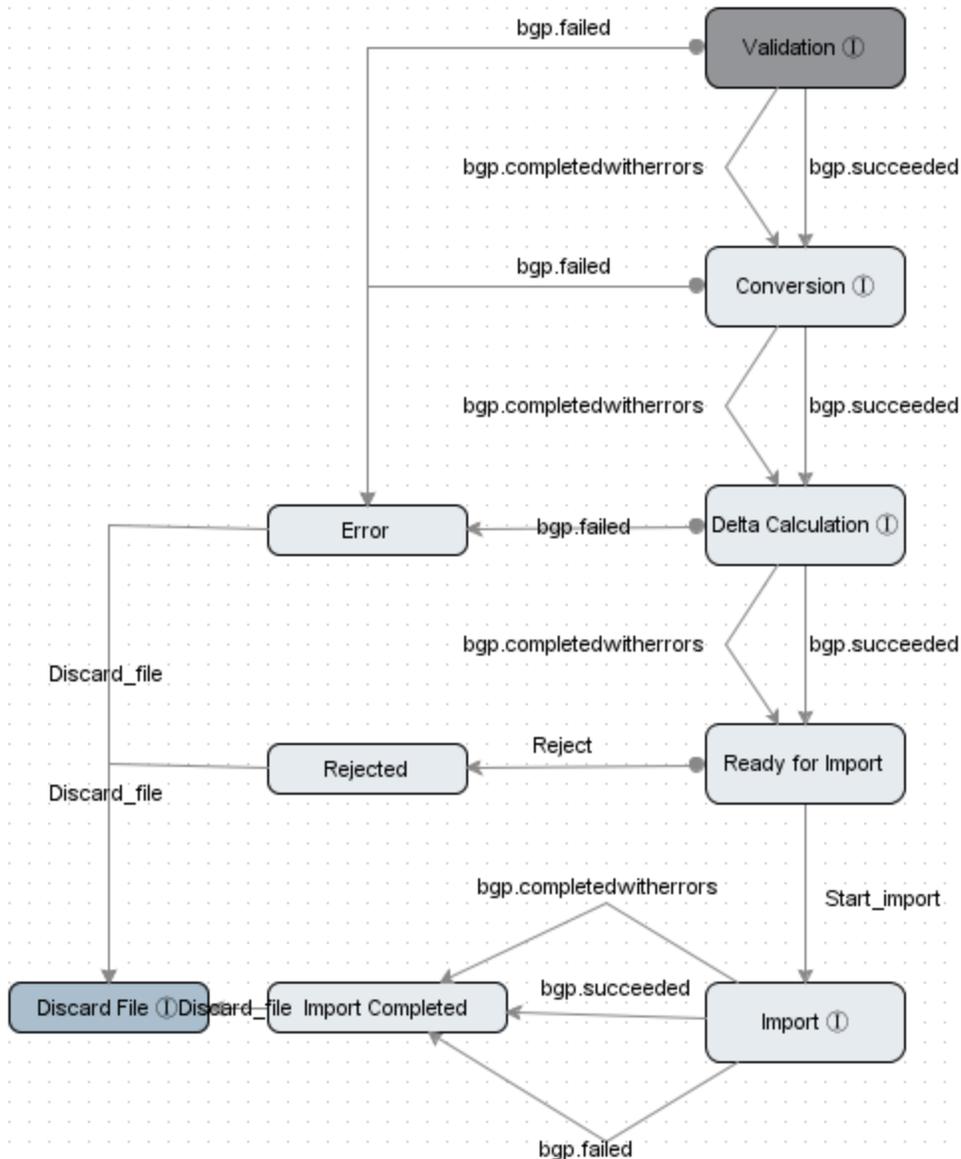
Important: If part and application data are imported into STEP without using the proper ID structures, then errors will occur. Prior to importing, review the ID Structures in Importers topic within the Automotive Reference Guide.

Topics in this section

- Import Workflow Overview
- File Loading
- Web UI Status Selectors & Import Control Panel Screens

Import Workflow Overview

When a file is loaded through an automotive importer, a STEP entity is created that represents the file, and then the entity (referred to as the controller) is initiated into a workflow. This section provides an overview of the default Automotive Import workflow.



Note: Each workflow can be extended to accomplish additional processing and/or reporting activities specific to any customer. Therefore, you may notice additional states (or additional activities occurring within the default states) on your system.

Validation

The Validation state does some basic schema validation of the file. If the standard supplies an XSD, the file format is validated against the XSD. If an XSD is not provided by the standard, the file is loosely validated to ensure the format conforms to what is expected for the file type. If the file fails validation, it will move to the Error state and will remain there until a user takes action on it. Files that successfully complete validation (with no errors or with only non-fatal errors) will move automatically to the Conversion state.

Conversion

The Conversion state converts the original file into a series of STEPXML files that include the full dataset from the import file. If the import file fails conversion, it will move to the Error state and will remain there until a user takes action on it. Files that successfully complete conversion (with no errors or with only non-fatal errors) will move automatically to the Delta Calculation state.

Delta Calculation

The Delta Calculation state evaluates the converted files against either the database or the previously loaded converted files of that type (depending on the configuration of the delta calculation method for the import) and generates a set of delta files for import. Any existing data that would be unchanged by the import is omitted from the delta files as a means of increasing performance of the actual import. If the file fails delta calculation, it will move to the Error state and will remain there until a user takes action on it. Files that successfully complete delta calculation (with no errors or with only non-fatal errors) will move automatically to the Ready for Import state.

For more information, refer to the Delta Calculation State topic within the 'Importing Automotive Data' section.

Error

Files that have failed validation, conversion, or delta calculation will end up in the Error state. From there, the errors can be reviewed and the file can be discarded. Note that it is not possible to do further processing of the file after it has failed, though it can be subsequently reloaded.

Ready for Import

When a file has successfully completed validation, conversion, and delta calculation, it will be available in the Ready for Import state, which is the first state in which user interaction is required for successful files. If customer-specific reporting has been added to the implementation, it is likely that reports can be viewed in this state. Whether or not reporting has been added, the Ready for Import state is where the user must decide whether to import or reject the file. If the user rejects the file, it will be moved to the Rejected state. If the user chooses to import the file, it is moved to the Import state.

Rejected

The Rejected state displays files that have successfully completed all pre-import processing, but have been deemed unacceptable for import by a user, usually due to data issues. A rejected file cannot be imported unless it is reloaded, so the only option to act on a file in this state is to discard it.

Import

The Import state carries out the actual import of the delta calculation files. When complete, the file is automatically moved to the Import Completed state.

Import Completed

Upon completion of the import, the file will be assigned a 'completed' or 'completed with errors' status. If errors are present, they can be reviewed in this state. Files may be left in the Import Completed state or discarded. In either case, no further processing of the file occurs unless additional customer-specific processing states have been added.

Discard File

Sending a file to the Discard File state removes it from the workflow. It does not delete any data from STEP or the application server, unless customer-specific processing has been added to the state to do so.

Important: When using the 'file' delta calculation method, files that have been discarded cannot be used for delta calculations. Therefore, the last loaded file (controller entity) must be retained in order for it to be used in delta calculation.

Additional information on configuration and processing within each standard's importer is available within the Importing Automotive Data section of the Automotive Reference Guide.

File Loading

All of the automotive importers use hotfolders to import automotive data. The automotive integration endpoints automatically create hotfolders on the application server for file loading.

Users can upload files to hotfolders by accessing the application server or by using a Web UI configured with a File Loading Widget for the desired file type.

Uploading Files via the Application Server

To upload a file to a specific hotfolder by accessing the application server:

1. Access the application server and navigate to /upload/hotfolders/[Importer].
2. Drop the file into the folder with a name aligning with the importer (e.g., TecDoc Reference Inbound Endpoint should have files dropped into the 'TecDocReferenceInputFolder').
3. The endpoint will pick up the file at the next scheduled polling, and the file load will begin.

 **Note:** The endpoints are created with a default schedule of polling the hotfolder once per minute, but this setting is adjustable for each endpoint, so it may vary between importers and implementations.

To understand what happens after the file loads it is important to first understand how the import workflows operate, which is described in the Import Workflow Overview section.

Uploading Files via Web UI

To upload a file to a specific hotfolder via a Web UI, a File Loading Widget can be used. For more information, refer to the File Loading Widget topic, and the relevant standard specific topics available within the Automotive Reference Guide listed below:

TecDoc File Loading via Web UI

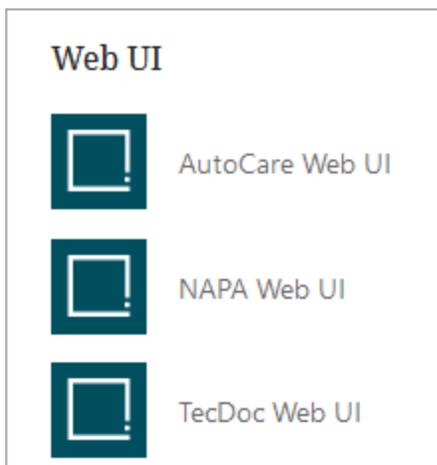
- Importing Reference Data Files via Web UI

Web UI Status Selectors & Import Control Panel Screens

Easy Setup provides a separate Web UI for each of the three supported standards: AutoCare, NAPA, and TecDoc. One or more Web UIs will be available, depending on configurations applied during the Easy Setup actions.

It is expected that the Web UI administrator will modify the default configurations to provide access to customer-specific data and processes as needed so your Web UI may look different from what is described below. However, it is likely that the default configurations have been expanded upon rather than removed so your display should be comparable to what is described. If not, contact your administrator for additional information.

Below is an example of how the Web UI launch buttons (when created for each of the standards) will display on the Start Page.



Clicking the applicable launch button will open your default browser and navigate you directly to the Web UI URL.

After logging in, the Web UI homepage will display the following widgets: Welcome, Search, Quick Links, File Loading specific to the Standard, and Status Selector Homepages corresponding to each importer for that standard.

For example, the AutoCare Web UI homepage displays the following widgets:

1. Welcome
2. Search
3. Quick Links

4. File Loading for Reference Data Imports
5. File Loading for Supplier Data Imports
6. Status Selector Homepage for the AutoCare ACES Importer
7. Status Selector Homepage for the AutoCare PIES Importer
8. Status Selector Homepage for the AutoCare VCdb Importer
9. Status Selector Homepage for the AutoCare PCdb Importer
10. Status Selector Homepage for the AutoCare Qdb Importer
11. Status Selector Homepage for the AutoCare PAdb Importer
12. Status Selector Homepage for the AutoCare Brand Importer

1 Welcome

Logged in:
STEPSYS

User Details
Design Mode

Logout

2 Search

Search...

Previous searches

3 Quick links

Browse
Basket
Background Processes
Advanced Search

4 REFERENCE DATA IMPORTS

Qdb
Select file

Brand
Select file

PCdb
Select file

VCdb
Select file

PAdb
Select file

5 SUPPLIER DATA IMPORTS

PIES
Select file

ACES
Select file

6 AutoCare ACES Import

Delta Calculation	0
Error	2
Ready for Import	1
Rejected	0
Import	0
Import Completed	7
All	10

7

AutoCare PIES Import

Delta Calculation	0
Error	11
Ready for Import	0
Rejected	0
Import	0
Import Completed	10
All	21

8

AutoCare VCdb Import

Delta Calculation	0
Error	0
Ready for Import	0
Rejected	0
Import	0
Import Completed	3
All	3

9

AutoCare PCdb Import

Delta Calculation	0
Error	0
Ready for Import	0
Rejected	0
Import	0
Import Completed	4
All	4

10

AutoCare Qdb Import

Delta Calculation	0
Error	0
Ready for Import	0
Rejected	0
Import	0
Import Completed	8
All	8

11

AutoCare PAdb Import

Delta Calculation	0
Error	5
Ready for Import	1
Rejected	1
Import	0
Import Completed	5
All	12

12

AutoCare Brand Import

Delta Calculation	0
Error	1
Ready for Import	0
Rejected	0
Import	0
Import Completed	2
All	3

This section will address the basics of what you need to know to carry out an import within the Automotive solution.

For general information about the File Loading Widget and Status Selector Homepage Widget, including additional information about working with these widgets, refer to File Loading Widget topic, and Status Selector Homepage Widget topic, both within the Web User Interfaces documentation.

To work with any importer, choose one of the three filter option icons available at the top of the widget:

-  Displays items assigned directly to the user logged in.
-  Displays items assigned to the user logged in or to any group the user is part of.
-  Displays all items assigned to any user.

Once the appropriate filter is selected, then click on the state in which to view files, or click on the 'All' state to view all files in the workflow, regardless of state.

Note: By default, the Validation and Conversion states are not displayed as files usually move fairly quickly through these states and no user intervention is required. Because of this, there is a slight delay between loading a file and the appearance of the file in the widget. If this is bothersome, the configuration of the status selectors can easily be updated by the Web UI administrator to include the Validation and Conversion states (along with any other customer-specific states).

Clicking on any state will take you to a screen that displays data for all files in that state. Selecting an individual file will display additional details about the file, and the available actions that can be taken (based on the state in which it sits).

For example, when the 'All' option on the import widget is selected, then the import list screen can display as shown below.

AutoCare PCdb Imports

Process	File Name	Overall Status
Controller-100504	AAIA PCdb ASCII 20170630.zip	Import completed
Controller-100832	AAIA PCdb ASCII 20170127 (2).zip	Error: Validation failed
Controller-100871	AAIA PCdb ASCII 20170127 (2).zip	Done creating delta file
Controller-102118	AAIA PCdb ASCII 20170714.zip	Import completed
Controller-102823	AAIA PCdb ASCII 20170728.zip	Done creating delta file

1-8 of 8

Import Details

Process	Started Time	Duration	Started By	Status	Background	Report
Validation	2017-08-07 15:01:46	17 secs	STEPSYS	Validation failed	succeeded	
Conversion	2017-08-07 15:02:03	11 secs	STEPSYS	Conversion completed	succeeded	
Delta Calculation	2017-08-07 15:02:14	1 min 21 secs	STEPSYS	Delta calculation completed	succeeded	
Import						

1-4 of 4

4 Start import Reject Discard file

1. Click the details icon of any file to view the import details.
2. Each completed process will include a link to the background process. Clicking the link will take you to a background process screen where you can view any errors that the process encountered. Note that the process can still succeed when validation has failed (as shown above). This occurs when schema validation is successful, but some allowable data errors were found and the importer is configured to continue when these types of errors are encountered.
3. If customer-specific reporting has been added, links will appear in the Report column for any states that generate a report as part of the output. If customer-specific reporting has not been added, the Report column may have been removed by the administrator.
4. Three actions are available, and will be enabled or disabled depending on the state of the file. These are further described below.

Available Action Buttons

- Start Import:** This button is only enabled if the file is in the Ready to Import state. By default, this will occur after the delta calculation has completed and the file will have a 'Done creating delta file' status. However, additional customer-specific states may have been added and/or the overall status setting

may have been changed. When the 'Start import' button is clicked, the actual import process starts, and the content of the delta files is imported. A background process link will be displayed in the table and clicking the link will take you to a screen where you can monitor status and progress of the import if desired.



Important: The 'Start import' button will not be enabled unless the file is in a state from which it is legal to import (e.g., there is a 'Start import' transition available in the workflow from the current state).

- **Reject:** Similar to the 'Start import' button, the Reject button is only enabled if the file is in the Ready to Import state. The intent of the Ready to Import state is to allow users to make the decision as to whether or not the file should be imported. This is typically done by reviewing the errors (if any) generated by the preceding processes and/or reviewing any customer-specific reports that have been added. Based on the available data, if it is determined that the file should not be imported, then it should be rejected. This will put the file in a Rejected state and it will not be possible to import the file without reloading it.
- **Discard file:** The option to discard a file is only available for files that are in the Error, Rejected, or Import Completed states as these are files that have already been determined not to be allowable for import due to errors and/or data concerns or are files that have already been successfully imported. Therefore no further work can or will be done on them within the import workflow. Discarding the file removes it from the import workflow and it will no longer show up in the list of files for that importer.

Using Automotive Exporters

This topic serves as an overview of how each of the available Automotive exporters are used, and how to access them.

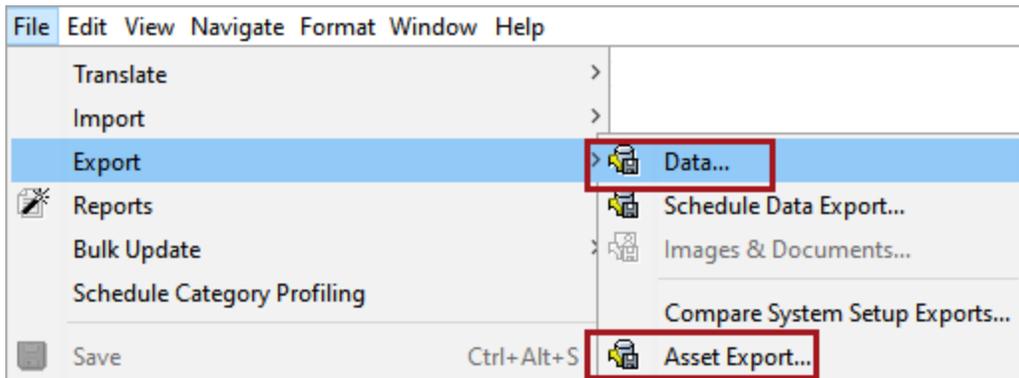
For information on the supported versions, refer to the Supported Versions and Formats topic.

- **Asset Exporter:** Used to export asset data.
- **AutoCare ACES Application Exporter:** Used to export application data in ACES format. ACES versions 3.0, 3.2, 4.0, 4.1, and 4.2 are supported. The exporter requires that applications be stored in the standard AutoCare data model. The result is that all ACES Application objects beneath the selection(s) (either as child objects or via links) are exported. For more information, refer to the AutoCare ACES Application Exporter topic within the Automotive Reference Guide.
- **AutoCare PIESExporter:** Used to export parts data in PIES 6.5, 6.7, 7.0, 7.1 and 7.2 formats. The exporter defaults to exporting data in the standard AutoCare data model, but configuration options are also available to export data in PIES format from an Own model. The result is that all PIES objects beneath the selection(s) (either as child objects or via links) are exported. For more information, refer to the AutoCare PIES Exporter topic within the Automotive Reference Guide.
- **NAPA Application Exporter:** Used to export application data in NAPA Application format. The exporter requires that applications be stored in the standard NAPA data model. The result is that all NAPA Application objects beneath the selection(s) (either as child objects or via links) are exported. For more information, refer to the NAPA Application Exporter topic within the Automotive Reference Guide.
- **NAPA Asset Reference Exporter:** Used to export a full digital asset reference file in NAPA format, which links a part number to an image.
- **TecDoc Supplier Data Exporter:** Used to export a specified supplier's parts data in the supported TAF 2.6 format. By default, data within the standard TecDoc data model will be exported. The export will contain the specified supplier data.

Accessing Automotive Exporters

The individual processing of each export is of course different, but the way a user initiates and manages the exports is the same.

Each exporter can be accessed by using the workbench File > Export menu (as shown below).



Once the Export Manager dialog displays, then the format can be selected.

