



# **SOLUTION ENABLEMENT**

Data Management ECLASS Advanced

2025.1 – March 2025

# Table of Contents

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<b>Table of Contents</b> .....	<b>2</b>
<b>ECLASS: European Classification for Advanced e-Commerce</b> .....	<b>5</b>
<b>ECLASS Advanced Quick Start Guide</b> .....	<b>7</b>
<b>ECLASS Advanced Data Models and Easy Setup</b> .....	<b>8</b>
<b>ECLASS Advanced Quick Start Setup for Admins</b> .....	<b>9</b>
<b>Run Easy Setup of ECLASS Advanced Industry Standard</b> .....	<b>10</b>
Configuration Steps .....	11
Add / Remove object types from the ECLASS ADVANCED Component Model .....	17
<b>Elements Created by Easy Setup Action</b> .....	<b>19</b>
<b>Easy Setup Generic Considerations</b> .....	<b>30</b>
<b>Prepare the Language Dimension Mapping</b> .....	<b>31</b>
Context (Dimension Point) Identification .....	32
Potential Scenarios During Dictionary File Import .....	33
Important Considerations for Language Codes .....	34
<b>Update IIEPs</b> .....	<b>35</b>
Configuration Steps .....	35
<b>ECLASS Standard Supported Versions and Formats</b> .....	<b>37</b>
<b>ECLASS Advanced Reference Guide</b> .....	<b>38</b>
<b>Importing ECLASS Advanced Files</b> .....	<b>39</b>
<b>ECLASS Advanced Import Framework</b> .....	<b>40</b>
Import Process Overview .....	40
Uploading Files via Web UI .....	40
Uploading Files via the Hotfolder .....	40
<b>ECLASS Advanced Unit Importer</b> .....	<b>41</b>
<b>Configuring ECLASS Advanced Unit Importer</b> .....	<b>43</b>

---

<b>Configuring an IIEP for ECLASS Advanced Unit Imports</b> .....	<b>44</b>
<b>Configuring a File Loading Widget for ECLASS Advanced Unit Imports</b> .....	<b>51</b>
<b>Using ECLASS Advanced Unit Importer</b> .....	<b>55</b>
Import Process Overview .....	55
Procedure .....	55
<b>ECLASS Advanced Dictionary Importer</b> .....	<b>57</b>
<b>Configuring ECLASS Advanced Dictionary Importer</b> .....	<b>58</b>
<b>Configuring an IIEP for ECLASS Advanced Dictionary Imports</b> .....	<b>59</b>
<b>Configuring a File Loading Widget for ECLASS Advanced Dictionary Imports</b> .....	<b>66</b>
<b>Using ECLASS Advanced Dictionary Importer</b> .....	<b>70</b>
Import Process Overview .....	70
Procedure .....	70
<b>ECLASS Advanced Data Importer</b> .....	<b>72</b>
<b>Configuring ECLASS Advanced Data Importer</b> .....	<b>73</b>
<b>Mapping BMEcat 2005.1 Reference Feature System with the Corresponding ECLASS Advanced Version</b> .....	<b>74</b>
<b>Configuring an IIEP for ECLASS Advanced Data Imports</b> .....	<b>76</b>
<b>Configuring a File Loading Widget for ECLASS Advanced Data Imports</b> .....	<b>85</b>
<b>Using ECLASS Advanced Data Importer</b> .....	<b>88</b>
Import Process Overview .....	89
Procedure .....	89
<b>Exporting in BMEcat 2005.1 Format</b> .....	<b>90</b>
Format Availability .....	90
Mapping .....	90
Configuring BMEcat Exporter .....	91
<b>ECLASS Advanced Actions</b> .....	<b>97</b>
<b>Approve version Action</b> .....	<b>98</b>
Procedure to approve versions for an SKU / Product in workbench .....	98

---

<b>Delete version Action</b> .....	<b>100</b>
Procedure to remove version from SKU / Product .....	100
<b>Duplicate version Action</b> .....	<b>102</b>
Procedure to duplicate version(s) .....	102
<b>Validate Version Action</b> .....	<b>105</b>
Procedure to validate an SKU / Product in workbench .....	105
Types of Validation Warnings / Errors .....	107

# ECLASS: European Classification for Advanced e-Commerce

ECLASS data standard plays a crucial role in developing an international data standard that provides unique and consistent descriptions for products, materials, systems, and services in the e-commerce industry. This document aims to provide an overview of ECLASS and handling of ECLASS data standard in the STEP system.

ECLASS is an industrial language designed to facilitate the exchange of standardized, machine-readable product data in a consistent manner. ECLASS standard ensures that information provided across different platforms and systems is interoperable and easily understood. It facilitates seamless communication, exchange, and integration of product data throughout the supply chain. By adopting this standard, organizations can eliminate manual data cleansing, transformation, and other time-consuming tasks. ECLASS simplifies the process of data exchange, allowing organizations to seamlessly share information with their partners, customers, and other stakeholders.

ECLASS Basic and ECLASS Advanced are two variations of the ECLASS standard, each designed to cater specific needs and applications. Below are the key differences between the two:

- ECLASS Basic offers a simple and flat classification hierarchy, making it easy to understand and implement. It supports data exchange through CSV and XML formats, ensuring machine readability. ECLASS Basic is primarily used in eProcurement applications, enabling organizations to efficiently manage their procurement processes.
- On the other hand, ECLASS Advanced features a more complex classification hierarchy. It utilizes XML format for data exchange, allowing for greater flexibility and customization. Implementing ECLASS Advanced requires more technical expertise due to its complexity. This variation is specifically tailored for applications in engineering, IoT (Internet of Things), and digital twin technologies. It excels in handling technically complex products, providing detailed and comprehensive descriptions.

STEP supports both, ECLASS basic and ECLASS Advanced. By leveraging the ECLASS standard, STEP empowers organizations to achieve greater accuracy, efficiency, and consistency in managing and exchanging product data across various platforms and systems.

This will be the comprehensive guide to data handling within STEP in the ECLASS Advanced standard. This document serves as a valuable resource for understanding the intricate aspects of data management within the ECLASS Advanced framework. As you navigate through the sections ahead, you will gain comprehensive insights into the various facets of handling data in accordance with the ECLASS Advanced standard.

This portion of Solution Enablement material introduces the ECLASS Advanced functionality, including the use of Easy Setup and other necessary configurations.

Click on a title in the left navigation panel to expand the topics under it, or click the main topics below:

- ECLASS Advanced Quick Start Guide
- ECLASS Advanced Reference Guide

It is recommended that users be familiarized in using STEP and the STEP Online Help topics before beginning ECLASS Advanced functions.

# ECLASS Advanced Quick Start Guide

This guide introduces to the ECLASS Advanced solution available in STEP 11.2 and newer versions. It covers the necessary actions an admin 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 ECLASS Advanced standard have been completed by an admin.

The ECLASS Advanced commercial license is required to use this functionality. Contact Stibo Systems to begin the process of enabling a license or licenses for your system.

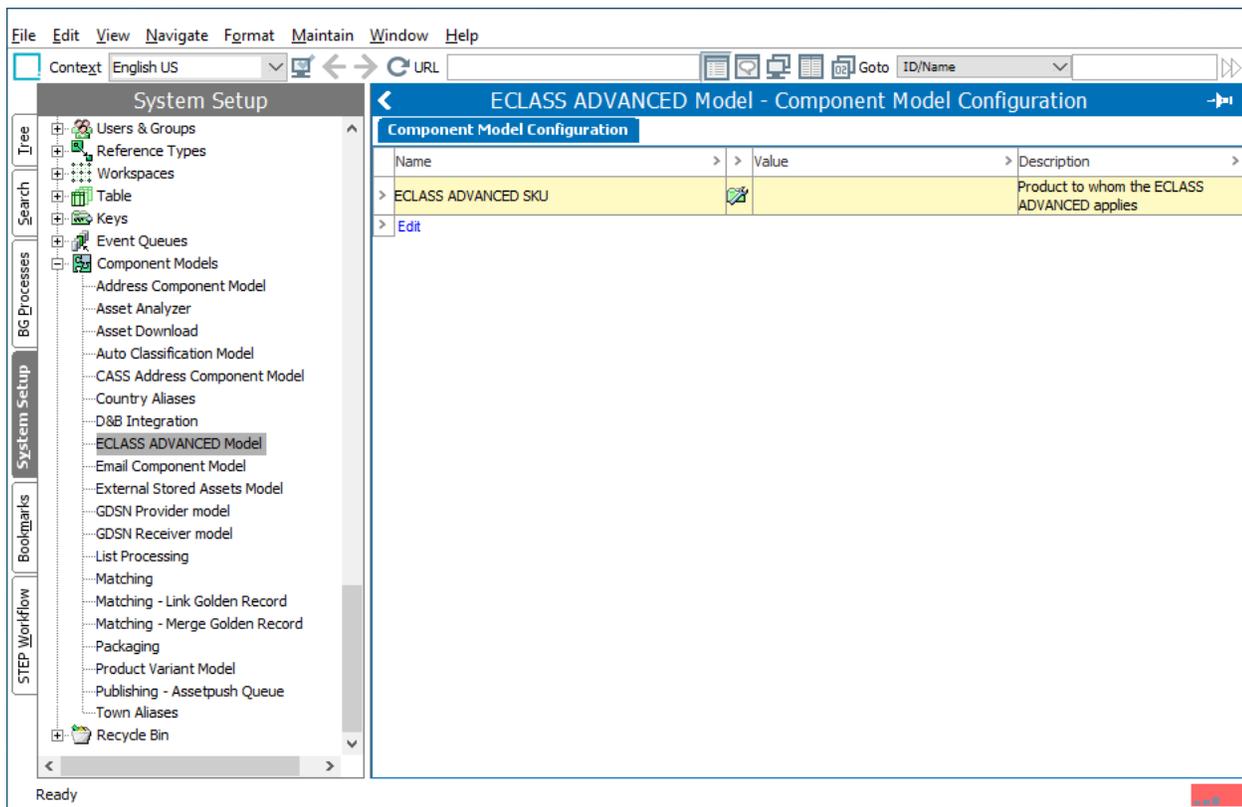
**Note:** Details on the specific data models for ECLASS Advanced standard are not covered in this guide.

# ECLASS Advanced Data Models and Easy Setup

The ECLASS Advanced solution requires a data model for setting up the standard. When Easy Setup actions outlined in this guide are completed, many of the configurations for the ECLASS Advanced solution are automatically configured within the 'ECLASS ADVANCED Model' that is available within Workbench > System Setup > Component Models.

The Easy Setup actions are not designed to provide a complete solution but rather give admins a jump start on completing many of the necessary configurations.

Below is a sample of the 'ECLASS ADVANCED Model' that is to be configured for ECLASS standard.



# ECLASS Advanced Quick Start Setup for Admins

This section addresses the necessary actions an admin must take to set up the ECLASS Advanced solution.

## Prerequisites

It is assumed that the admin 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 guide does not provide introductory material for these concepts and instead targets only the specific information needed for a knowledgeable STEP admin to complete the ECLASS Advanced solution setup. If additional information is needed, refer to the **STEP Online Help**.

## Quick Start Setup Actions

Below are the required setup actions:

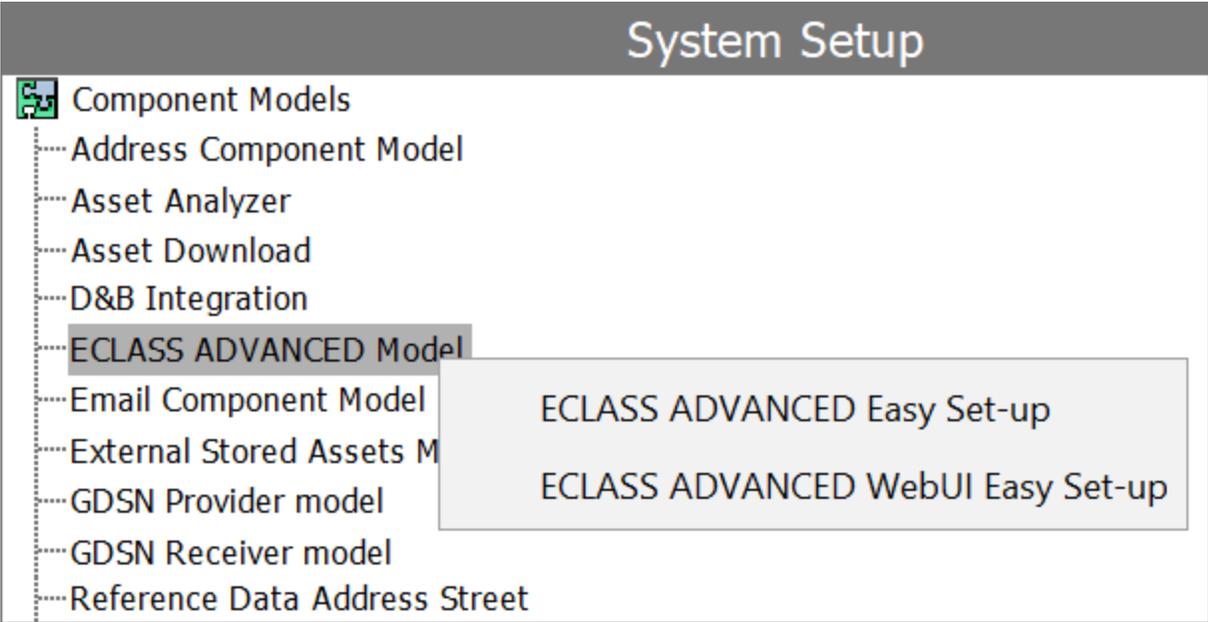
1. Run Easy Setup of ECLASS ADVANCED Industry Standard
2. Update IIEPs
3. Prepare the Language Dimension Mapping

**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.

# Run Easy Setup of ECLASS Advanced Industry Standard

The ECLASS Advanced industry standard includes an Easy Setup wizard that creates elements necessary to support the standard's core functionality. The process involves following two actions that must be run sequentially:

1. ECLASS ADVANCED Easy Setup
2. ECLASS ADVANCED Web UI Easy Setup



**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 two setup actions creates. For a detailed information on the elements created by the Easy Setup action, refer to Elements Created by Easy Setup Action topic in the **ECLASS Advanced Quick Start Setup for Admins** section of the **ECLASS Advanced** documentation.

**ECLASS ADVANCED Easy Set-up:** This step of the Easy Setup action creates the elements needed to support the data model consisting of object types, hierarchies, attributes, LOVs, and references.

**ECLASS ADVANCED Web UI Easy Set-up:** During the execution of this setup action, it's necessary to choose an existing Web UI where the widgets will be created and configured. Users have the option to either create a new Web UI and then run the Easy Setup on it, or utilize an existing one to implement the modifications. Running this setup action on an existing Web UI won't alter the settings or configurations that are already established within the Web UI.

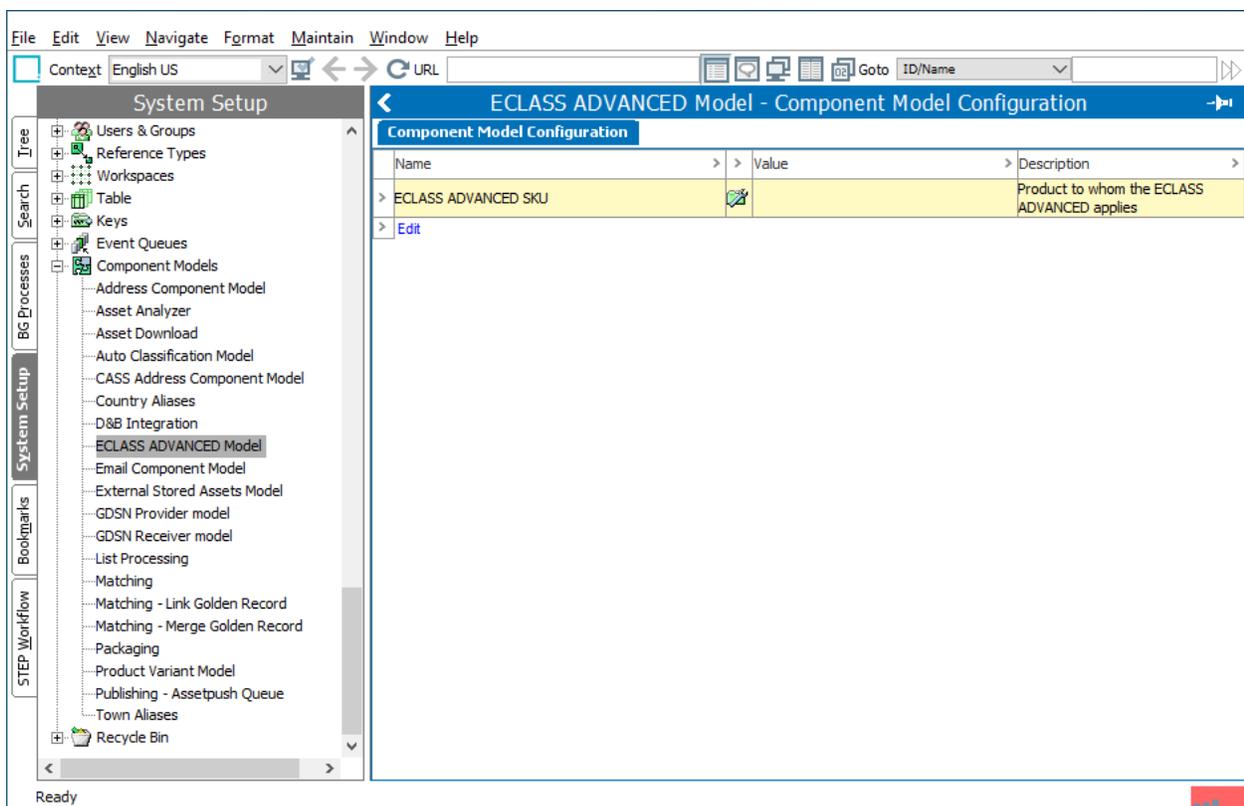
## Configuration Steps

The following steps describe how to configure ECLASS Advanced industry standard using the Easy Setup method.

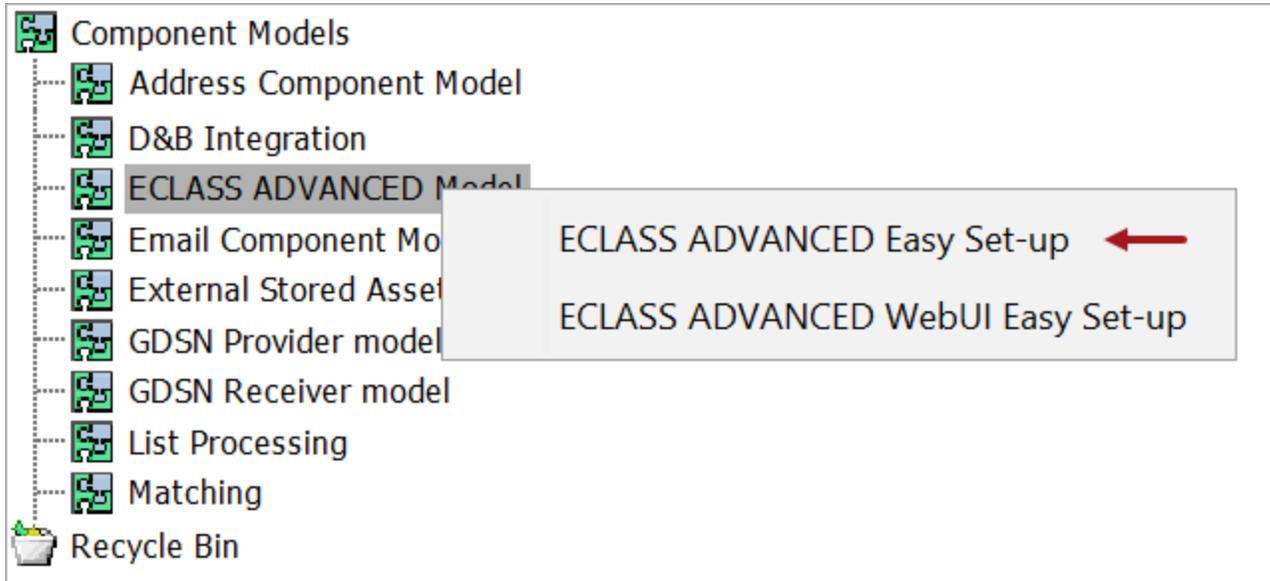
1. Go to **Context** and select the relevant context option from the dropdown.

**Note:** Consider your relevant STEP Context before you trigger the Easy Setup. Pay attention to the language-dependent data such as attribute names and others. If you perform the Easy Setup in a second attempt using a different STEP context, the imported data from the first attempt will not be updated.

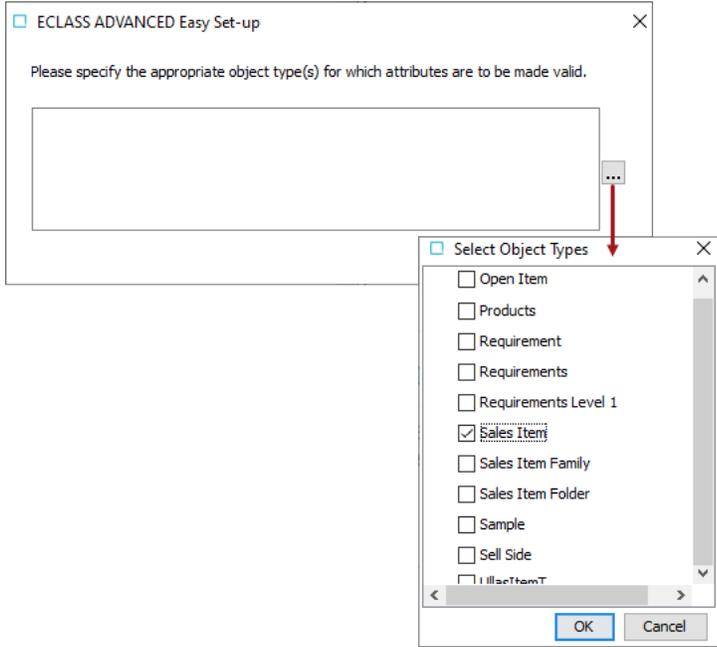
2. Go to **System Setup > Component Models > ECLASS ADVANCED Model**



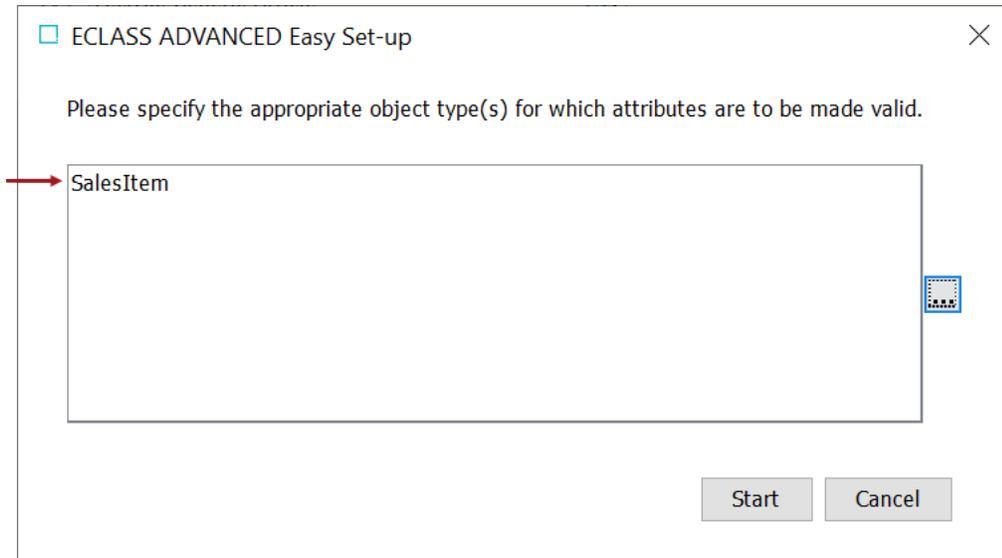
3. Right-click on the **ECLASS ADVANCED Model** and select **ECLASS ADVANCED Easy Set-up**.



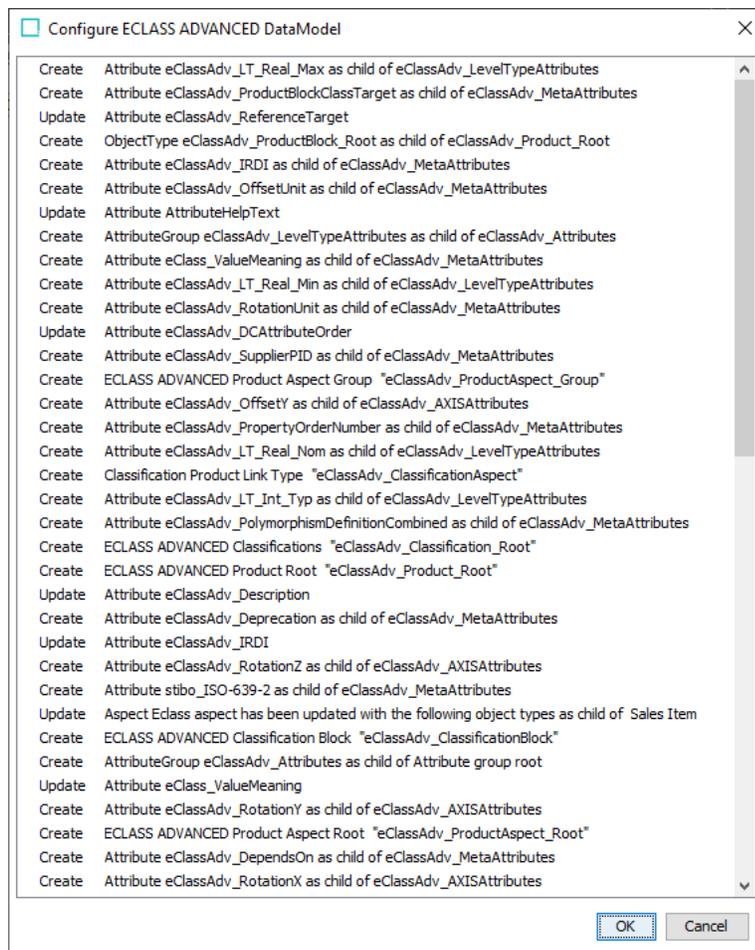
4. The ECLASS ADVANCED Easy Set-up dialog will display prompting the users to select the object type(s) for which the attributes are to be made valid. To select an object type, click the ellipsis button (...) that is available within the dialog to display the Select Object Types dialog (as shown below). It is also possible to select multiple object types.



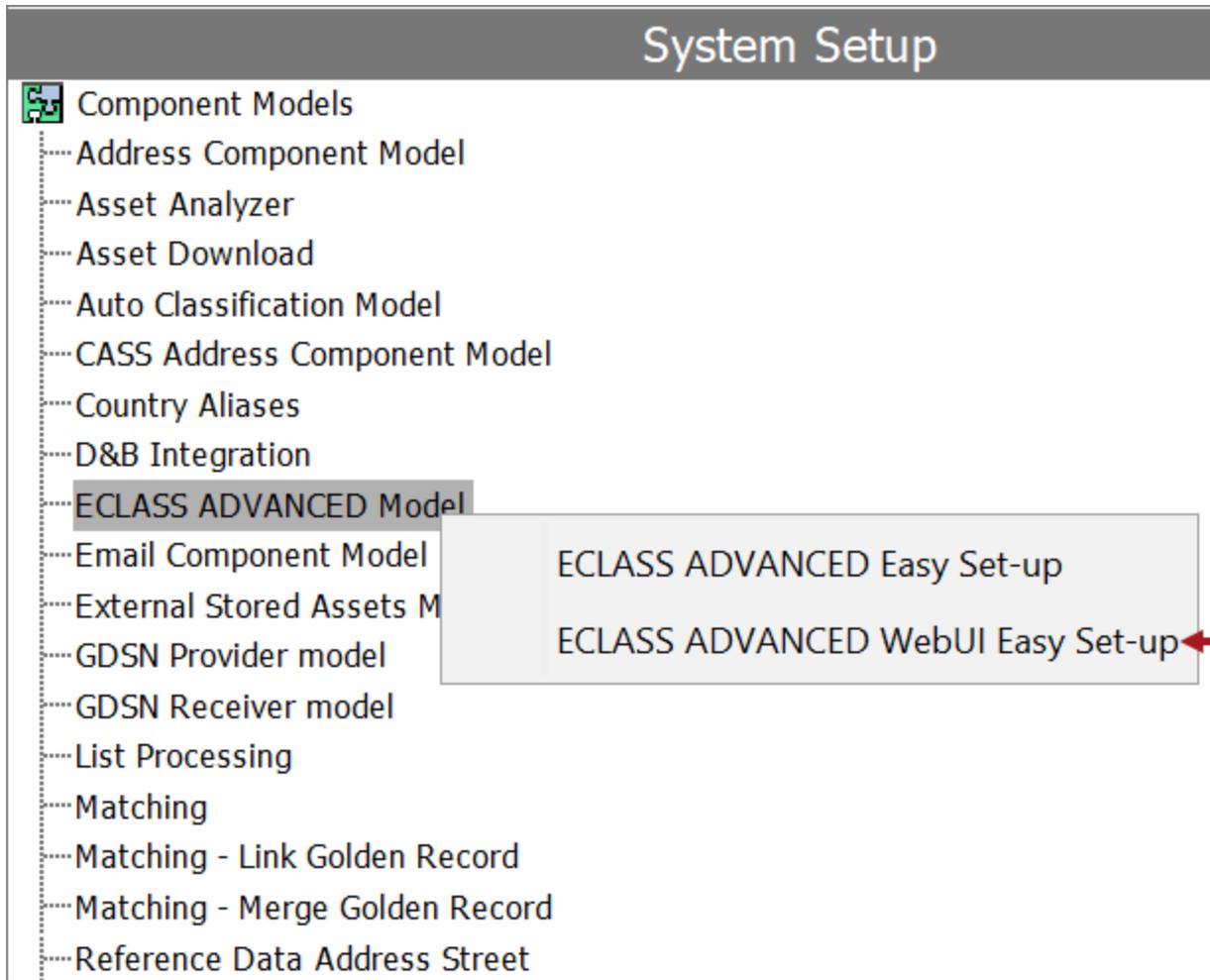
5. Select the required object types and then click OK. All the selected object types will be listed within the ECLASS ADVANCED Easy Set-up dialog.



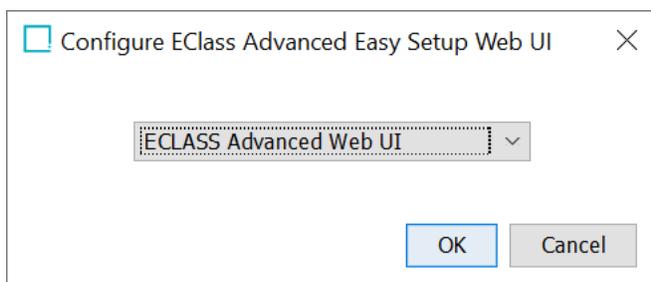
6. When all the required object types are included, click the **Start** button. A dialog will display stating the changes that will be made by running the process. If you would like to record the changes, you may do so by taking a screenshot of the dialog.



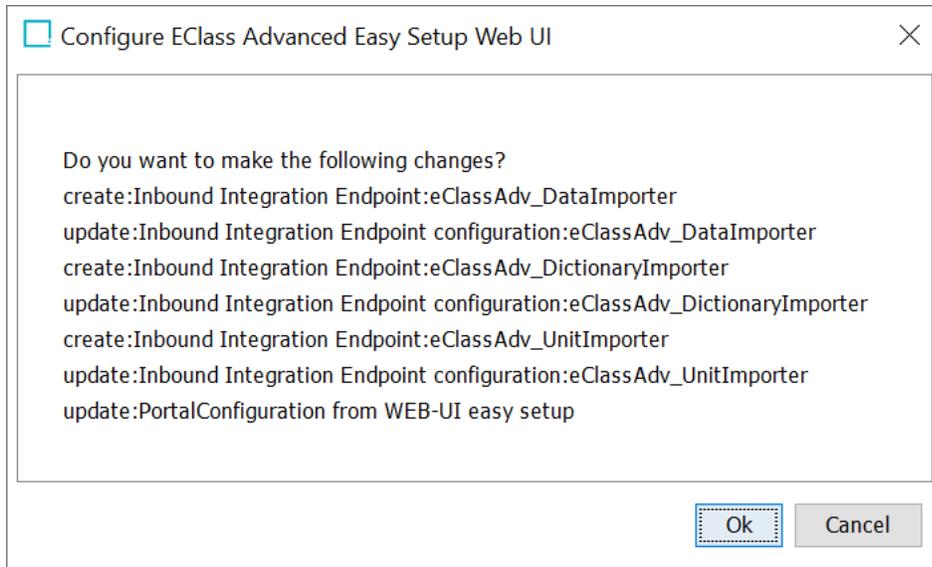
7. When you are ready to start the configuration process, click the **OK** button. The system will create all necessary elements to support the applicable process. This will typically take less than a minute, and when complete, a dialog will display listing each change that was made.
8. Right-click on the **ECLASS ADVANCED Model** and select **ECLASS ADVANCED WebUI Easy Set-up**.



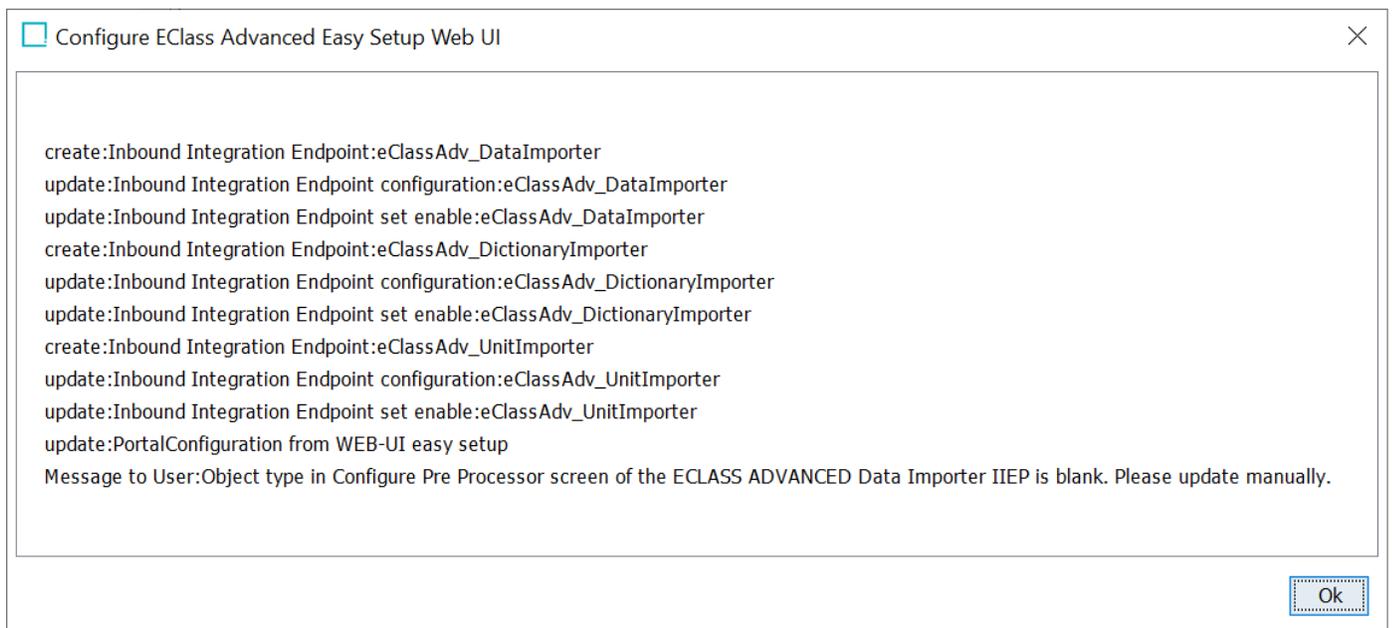
- The 'Configure ECLASS Advanced Easy Setup Web UI' dialog will display asking the users to select a Web UI for which the changes have to be implemented. Click the dropdown available within the dialog to find and select a Web UI. In the example below, a Web UI named 'ECLASS Advanced Web UI' is selected.



- When the required Web UI is selected, click the **OK** button. 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.

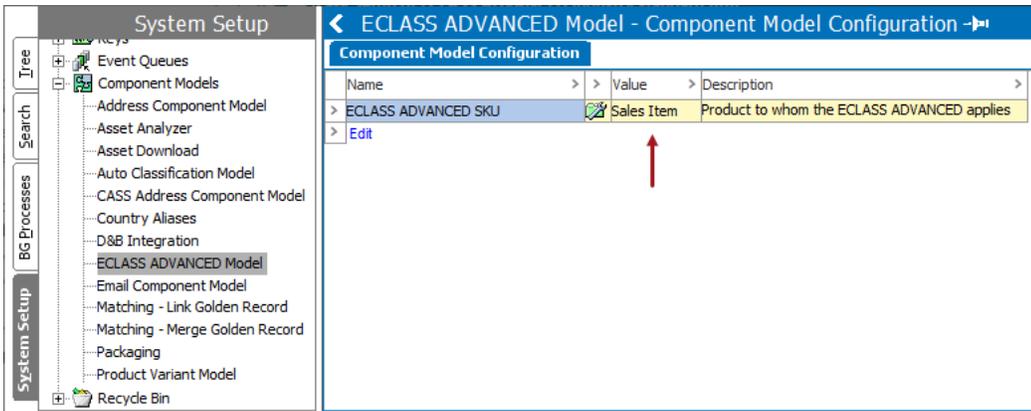


- When you are ready to start the configuration process, click the **OK** button. The system will create all necessary elements to support the applicable process. This will typically take less than a minute, and when complete, a dialog will display listing each change that was made.



- Click the **OK** button to close the dialog and resume normal activities on the system.

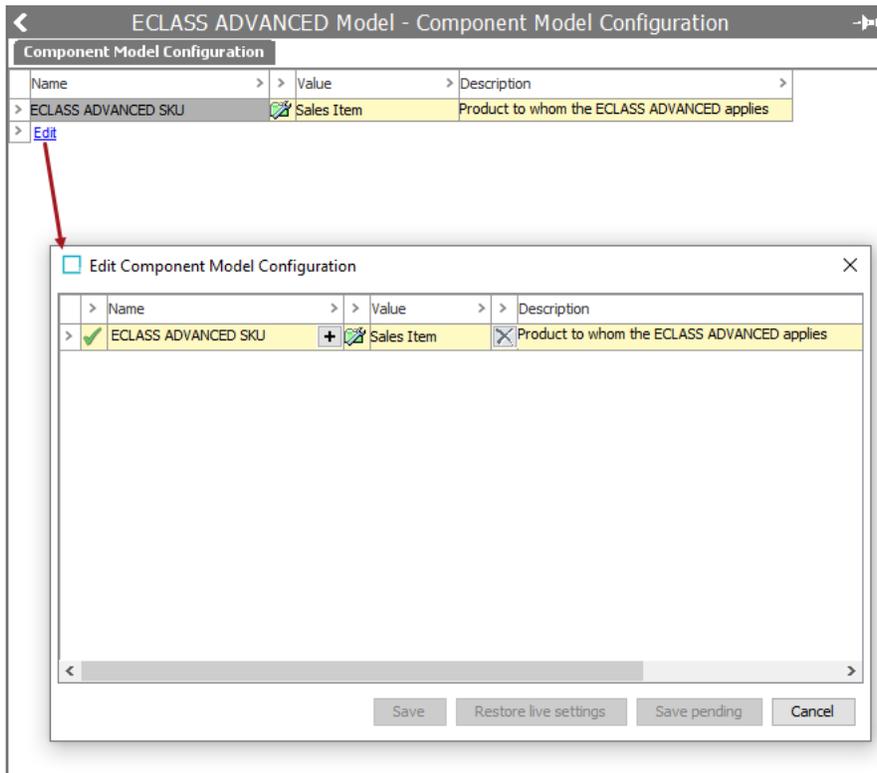
The selected object types that are mapped to the ECLASS ADVANCED Component Model will be listed within the Value column of the Component Model Configuration window.



## Add / Remove object types from the ECLASS ADVANCED Component Model

An alternate way to add object types to the ECLASS ADVANCED Component Model is by accessing the Component Model Configuration window. Follow the steps below to add a new object type or to remove an object type from the component model:

1. Click the blue Edit link shown at the bottom of the table. This will open the editor, allowing you to add, edit, and remove object type mappings.



2. When editing the mappings, double-click the + button to make value additions and the X button to remove any existing values. If the + button is inactive, then the value must be removed before trying to add a new one.

# Elements Created by Easy Setup Action

This topic explains the elements that are created by the Easy Setup actions available within the 'ECLASS ADVANCED Model' component model. Running the 'ECLASS ADVANCED Easy Set-up' and 'ECLASS ADVANCED Web UI Easy Set-up' actions of the 'ECLASS ADVANCED Model' component model automatically creates and configures the following.

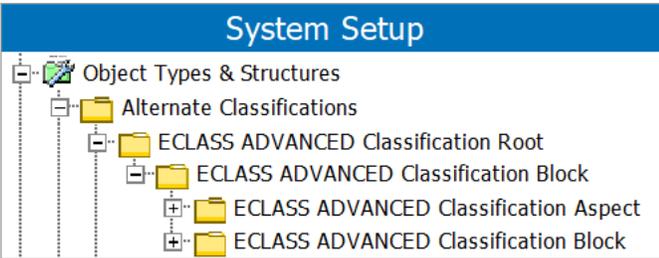
### Users:

The following users are created:

USER Name	USER ID
ECLASS ADVANCED UNIT IMPORTER	ECLASSADVANCEDUNITIMPORTER
ECLASSADVANCEDDICTIONARYIMPORTER	ECLASSADVANCEDDICTIONARYIMPORTER
ECLASSADVANCEDDATAIMPORTER	ECLASSADVANCEDDATAIMPORTER

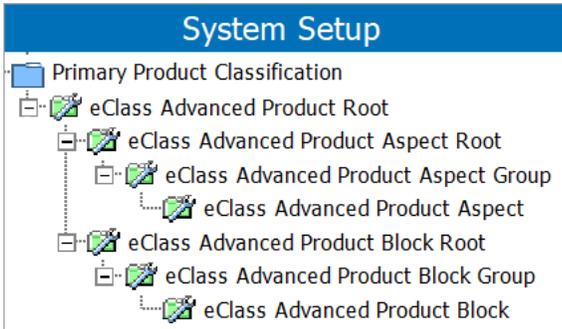
### Non-Version dependent Object Type Model:

The following Classification Object Types are created:



Object Type Name	Object Type ID
ECLASS ADVANCED Classification Root	eClassAdv_Classification_Root
ECLASS ADVANCED Classification Block	eClassAdv_ClassificationBlock
ECLASS ADVANCED Classification Aspect	eClassAdv_ClassificationAspect

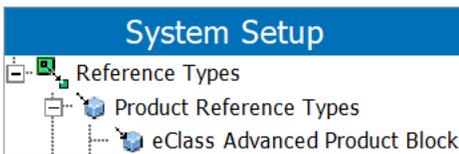
The following Product Object Types are created:



Object Type Name	Object Type ID
eClass Advanced Product Root	eClassAdv_Product_Root
eClass Advanced Product Block Root	eClassAdv_ProductBlock_Root
eClass Advanced Product Block Group	eClassAdv_ProductBlock_Group
eClass Advanced Product Block	eClassAdv_ProductBlock
eClass Advanced Product Aspect Root	eClassAdv_ProductAspect_Root
eClass Advanced Product Aspect Group	eClassAdv_ProductAspect_Group
eClass Advanced Product Aspect	eClassAdv_ProductAspect

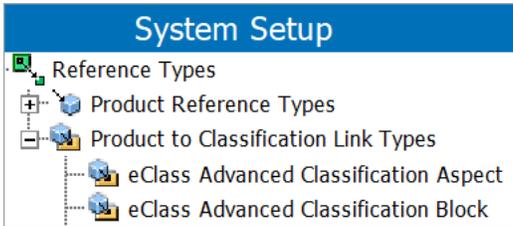
**References between the relevant objects:**

The following Product Reference Types are created:



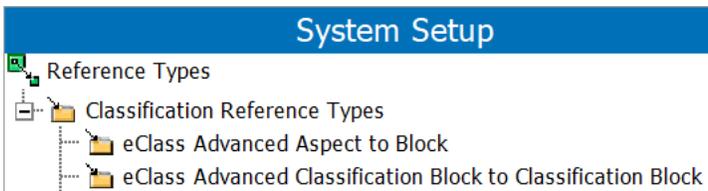
Reference Type Name	Reference Type ID	Validity From (ID)	Validity To (ID)
eClass Advanced Product Block	eClassAdv_ProductBlock	eClassAdv_ProductBlock	eClassAdv_ProductBlock

The following Product to Classification Link Types are created:



Reference Type Name	Reference Type ID	Validity From (ID)	Validity To (ID)
eClass Advanced Classification Block	eClassAdv_ClassificationBlock	eClassAdv_ProductBlock	eClassAdv_ClassificationBlock
eClass Advanced Classification Aspect	eClassAdv_ClassificationAspect	eClassAdv_ProductAspect	eClassAdv_ClassificationAspect

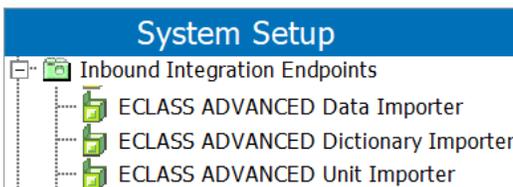
The following Classification Reference Types are created:



Reference Type Name	Reference Type ID	Validity From (ID)	Validity To (ID)
eClass Advanced Aspect to Block	eClassAdv_ClassAspectToClassBlock	eClassAdv_ClassificationAspect	eClassAdv_ClassificationBlock
eClass Advanced Classification Block to Classification Block	eClassAdv_ClassBlockToClassBlock	eClassAdv_ClassificationBlock	eClassAdv_ClassificationBlock

### Inbound Integration Endpoints:

The following Inbound Integration Endpoints are created:



Inbound Integration Endpoint Name	Inbound Integration Endpoint ID
ECLASS ADVANCED Dictionary Importer	eClassAdv_DictionaryImporter
ECLASS ADVANCED Unit Importer	eClassAdv_UnitImporter
ECLASS ADVANCED Data Importer	eClassAdv_DataImporter

## LOV Group Creation:

The following LOV group is created:



LOV Group Name	LOV Group ID
eClass LOV Group	eClassLOVGroup

## Relevant Meta Data Attributes:

The following Meta Data Attributes are created:

Attribute Name	Attribute ID	Description
eCl@ss Description	EclassDescription	This is a Stibo Systems created meta data attribute holding the version of the imported ECLASS data
eCl@ss ID	EclassID	
eCl@ss Import Version	EclassImportVersion	This is a Stibo Systems created meta data attribute holding the version of the imported ECLASS data For ECLASS Advanced only maintained on the Unit.
eClass Advanced Attribute Type	eClassAdv_AttributeType	This is a Stibo Systems created meta data attribute holding the Type of the property based on the ECLASS Advanced definition
eClass Advanced Cardinality	eClassAdv_Cardinality	This is a Stibo Systems created meta data attribute holding flag if a block is per

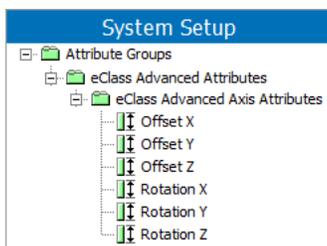
Attribute Name	Attribute ID	Description
		definition a cardinality block
eClass Advanced Data Container Attribute Order	eClassAdv_DCAttributeOrder	This is a Stibo Systems created Meta Data determine the order of the attribute how it is shown in the WebUI within the Data Container (Level Type and Axis Type)
eClass Advanced Data Container Link Type Attribute	eClassAdv_DataContainerLinkTypeAttribute	Determines which Attribute is used to hold the Meta Information for the Data Container Link. Is used for Level Type and Axis Type Data Containers.
eClass Advanced Depends On	eClassAdv_DependsOn	This is a Stibo Systems created meta data attribute holding ID of the Attribute that the current Attribute is depending on
eClass Advanced Deprecation	eClassAdv_Deprecation	This is a Stibo Systems created meta data attribute holding the information if a Classification Block or Classification Aspect is deprecated.
eClass Advanced Description	eClassAdv_Description	This is a Stibo Systems created meta data attribute holding the description of the ECLASS Advanced specific data model components
eClass Advanced IRDI	eClassAdv_IRDI	This is a Stibo Systems created meta data attribute holding the ECLASS IRDI.
eClass Advanced Product Block Classification Target	eClassAdv_ProductBlockClassTarget	This is a Stibo Systems created meta data attribute holding the Classification Block ID of the referenced Product Block
eClass Advanced Property Domain Type	eClassAdv_PropertyDomainType	This is a Stibo Systems created meta data attribute holding the property domain type based on the ECLASS Advanced definition
eClass Advanced Property Order Number	eClassAdv_PropertyOrderNumber	This is a Stibo Systems created meta data attribute holding the property order number
eClass Advanced Reference Target	eClassAdv_ReferenceTarget	This is a Stibo Systems created meta data attribute holding the ID of the Block that this Attribute is referencing to
eClass Advanced Supplier PID	eClassAdv_SupplierPID	This is a Stibo Systems created Meta Data holding the original Supplier Product ID for the Product Block Group since for the STEP ID it needs to be hashed to not exceed 40 characters within the STEP ID

Attribute Name	Attribute ID	Description
eClass Advanced Version	eClassAdv_Version	This is a Stibo Systems created meta data attribute displayed on the root node of an ECLASS Advanced Version displaying the version in a human readable format
Eclass Keyword	EclassKeyword	This is a Stibo Systems created meta data attribute holding the eclass description
eClass Primary Key	EclassPrimaryKey	This is a Stibo Systems created meta data attribute holding the eclass id (harmonized, but without prefix).
FID	eClassAdv_FID	This is a Stibo Systems created meta data attribute holding the FID Information of the Importer that builds the hierarchy
FPARENT_ID	eClassAdv_FPARENT_ID	This is a Stibo Systems created meta data attribute holding the FPARENT_ID Information of the Importer that builds the hierarchy
ISO-639-2	stibo_ISO-639-2	This is a Stibo Systems created Meta Data holding the Language ISO Code for Language Dimension Points. Using the ISO Standard <a href="https://en.wikipedia.org/wiki/List_of_ISO_639-1_codes">https://en.wikipedia.org/wiki/List_of_ISO_639-1_codes</a>
Polymorphism Controlling Value	eClassAdv_PolymorphismControllingValue	This is a Stibo Systems created meta data attribute holding the value that determines the Polymorphism of the current level
Polymorphism Defining Property	eClassAdv_PolymorphismDefiningProperty	This is a Stibo Systems created meta data attribute holding the information of the Polymorphisms attribute of the specific Block
Polymorphism Definition Combined	eClassAdv_PolymorphismDefinitionCombined	This is a Stibo Systems created meta data attribute holding the information of the Polymorphisms attribute of the specific Block plus the value ID that needs to be selected to get to this block. Separator is pipe ( )
Unit of the Offset	eClassAdv_OffsetUnit	This is a Stibo Systems created meta data attribute holding the Offset unit of the Axis Type Property which is depending on the Classification where it is used
Unit of the Rotation	eClassAdv_RotationUnit	This is a Stibo Systems created meta data attribute holding the Rotation unit of the Axis Type Property which is depending on

Attribute Name	Attribute ID	Description
		the Classification where it is used
eClass Advanced Imported Versions	eClassAdv_ImportedVersions	This is a Stibo Systems created Meta Data telling in which Versions this Classification was imported.
eClass Advanced BMEcat ECLASS Version	eClassAdv_BMEcatECLASSVersion	This is a Stibo Systems created Meta Data telling the BMEcat ECLASS Version of the current ECLASS Root Node
ECLASS Value Meaning	eClass_ValueMeaning	This is a Stibo Systems created meta data attribute that applies only to List of Values (LOV). This attribute contains the 'value meaning information' (human readable value), the "STEP value ID" and the "value string" (machine readable value), provided in the dictionary. This meta-attribute might be used to provide the user in a data maintenance scenario (Editor) with all information needed to select the correct value.
eClass Advanced Product SKU ID	eClassAdv_ProductSKUID	This is a Stibo Systems Product SKU ID which is used get the SKU details in Aspect and Block.
eClass Advanced Version	eClassAdv_Version_Harmonized	This is a Stibo Systems created meta data attribute displayed on the root node of an ECLASS Advanced Product Block and Product Aspect Group. Used for easy and harmonized version identification.

## AXIS Attributes:

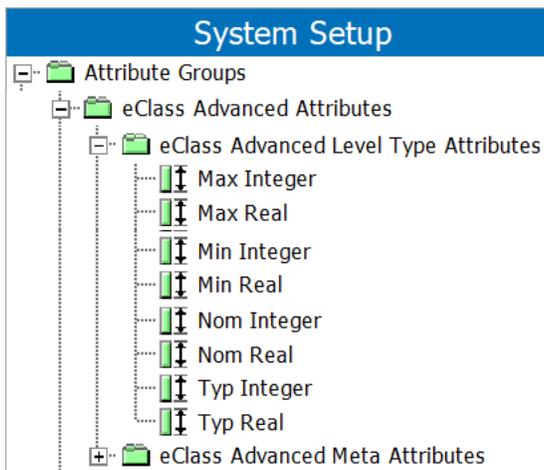
The following AXIS attributes are created:



Offset X	eClassAdv_OffsetX
Offset Y	eClassAdv_OffsetY
Offset Z	eClassAdv_OffsetZ
Rotation X	eClassAdv_RotationX
Rotation Y	eClassAdv_RotationY
Rotation Z	eClassAdv_RotationZ

### Static Level Type Attributes:

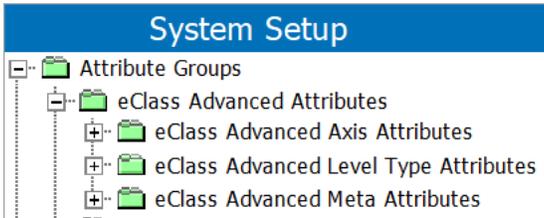
The following Static Level Type attributes are created:



Min Integer	eClassAdv_LT_Int_Min
Max Integer	eClassAdv_LT_Int_Max
Nom Integer	eClassAdv_LT_Int_Nom
Min Real	eClassAdv_LT_Real_Min
Max Real	eClassAdv_LT_Real_Max
Nom Real	eClassAdv_LT_Real_Nom
Typ Integer	eClassAdv_LT_Int_Typ
Typ Real	eClassAdv_LT_Real_Typ

## Relevant Root Nodes:

The following attribute groups are created:



Attribute Group Name	
eClass Advanced Axis Attributes	eClassAdv_AXISAttributes
eClass Advanced Level Type Attributes	eClassAdv_LevelTypeAttributes
eClass Advanced Meta Attributes	eClassAdv_MetaAttributes

A classification folder named 'ECLASS ADVANCED Classifications' (ID = eClassAdv\_Classification\_Root) is created as shown below.

ECLASS ADVANCED Classifications rev.0.1 - Classification					
Classification	Sub Products	References	Referenced By	Images & Documents	Tables
Description					
Name	>	>	Value		
ID	>		eClassAdv_Classification_Root		
Name	>		ECLASS ADVANCED Classifications		
Object Type	>		ECLASS ADVANCED Classification Root		
Revision	>		0.1 Last edited by USERB on Tue Feb 21 20:29:15 EST 2023		
Approved	>		✘ Never Been Approved		
Translation	>		Not Translated		
Path	>		Classification 1 root/ECLASS ADVANCED Classifications		
Visibility	>		USA		

A product folder named 'ECLASS ADVANCED Product Root' (ID = eClassAdv\_Product\_Root) is created under the Primary Product Hierarchy folder as shown below.

**Tree**

- [-] ACME Web Store
- [-] Assets
- [-] Classifications
- [-] ECLASS ADVANCED Classifications
- [-] Primary Product Hierarchy
  - [-] Products
  - [-] Discontinued Products
  - [-] Product Overrides
  - [-] Packaging
  - [-] GDSN Products
  - [-] ECLASS ADVANCED Product Root

**ECLASS ADVANCED Product Root rev.0.1 - Product**

Images & Documents | Commercial | Tables | Proof View | Status | State Log | Tasks

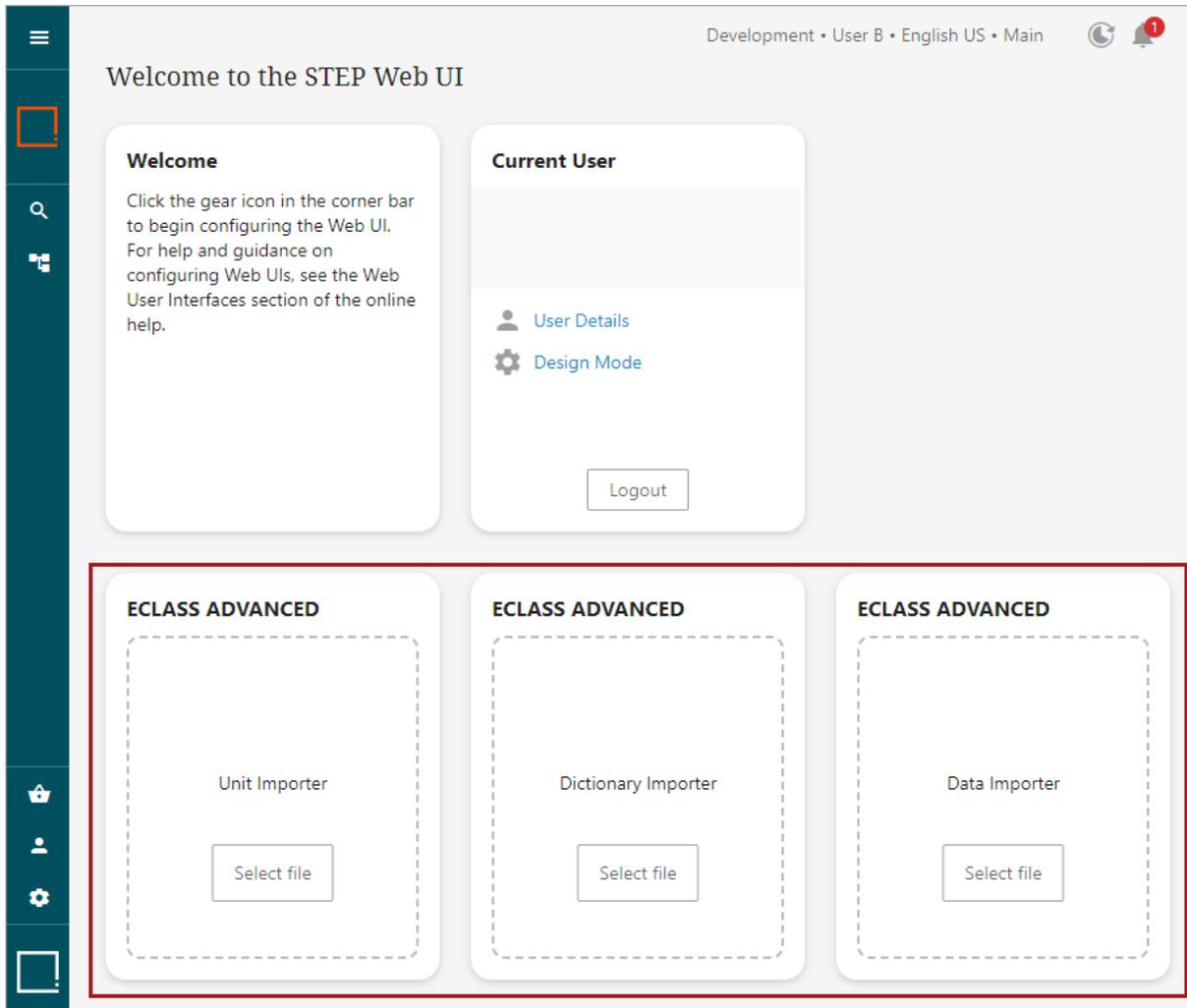
Product | Sub Products | References

**Description**

Name	>	>	Value
ID	>		eClassAdv_Product_Root
Name	>		ECLASS ADVANCED Product Root
Object Type	>		eClass Advanced Product Root
Revision	>		0.1 Last edited by USERB on Tue Feb 21 20:29:15 EST 2023
Approved	>		<span style="color: red;">✘</span> Never Been Approved
Translation	>		Not Translated
Path	>		Primary Product Hierarchy/ECLASS ADVANCED Product Root

## File Loading Widgets in the Web UI:

The following File Loading Widgets are created in the homepage of the Web UI:



- ECLASS Advanced Unit Importer
- ECLASS Advanced Dictionary Importer
- ECLASS Advanced Data Importer

**Note:** 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 shown above. 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.

# Easy Setup Generic Considerations

When executing the Easy Setup action, the following considerations come into play:

- If a user modifies Data Model objects, rerunning the Easy Setup will not overwrite such changes. For example, alterations to validation base type in an attribute, multivalued settings, or defining if the object is externally maintained or not, etc.
- If a customer removes Data Model objects, rerunning the Easy Setup will recreate them. This applies, for example, when deleting static or metadata attributes, the Easy Setup restores them.
- When a customer adds Data Model object(s), rerunning the Easy Setup will not eliminate these objects. The Easy Setup will never delete / erase data. For example, newly added attributes, metadata attributes, or objects remain intact.
- Once the Easy Setup is unintentionally executed, reverting changes is not possible. Manual removal of created data may become necessary in extreme cases.
- The Easy Setup action will always be executed on the logged-on user's credentials.

**Note:** Under no circumstances shall the Stibo Systems ECLASS Advanced Data Model be changed by any user.

# Prepare the Language Dimension Mapping

Prior to importing the Unit or Dictionary file into the system, it is essential to establish a relationship (commonly referred to as mapping) between the ECLASS language code and the language dimension points in the system. Familiarity with the ECLASS language codes contained within the ECLASS XML file is essential for this process.

Within the Unit file, the language code will be specified within the 'content\_description' tags, as depicted below. The Unit file always comes in English and German language.

```
<content_description language_code="ENG">eCl@ss 10.1</content_description>
```

Although the Unit file contains both English and German languages, Unit Groups and Units are exclusively created in English. Consequently, it is recommended to import Units into the Global context. Alternatively, if there is a desire to import Units in German, users should switch the tag as follows:

From:

```
<content_description language_code="ENG">ECLASS12.0</content_description>
```

To:

```
<content_description language_code="DEU">ECLASS12.0</content_description>
```

The Dictionary file, the language code may vary depending on the specific file being imported.

For the file that is in English, the language code within the 'content\_description' tags will be as

```
<content_description language_code="ENG">eCl@ss 10.1 ADVANCED</content_description>
```

For French, the language code within the 'content\_description' tags will be as

```
<content_description language_code="FRA">eCl@ss 10.1 ADVANCED</content_description>
```

For German, the language code within the 'content\_description' tags will be as

```
<content_description language_code="DEU (or GER)">eCl@ss 10.1 ADVANCED</content_description>
```

Users must be aware of the appropriate language code to be used within the 'content\_description' tags based on the language of the Dictionary file they intend to import.

## Context (Dimension Point) Identification

Mapping ECLASS Advanced language codes is a straightforward process. As a system administrator, you need to enter the appropriate language code value into the metadata attribute ISO-639-2 (ID = stibo\_ISO-639-2) for the desired language dimension point. By following these guidelines, you can effectively identify and import language-specific data into the appropriate contexts.

Example:

In the following example, the language code 'ENG' is applied to the English language dimension. Consequently, language-dependent data will be imported in the English language and associated with the context that holds the English dimension point.

The screenshot displays the STIBO SYSTEMS interface. On the left, the 'System Setup' pane shows a tree view of contexts. Under 'Language', 'All Languages' is the parent, and 'English' is selected. On the right, the 'English - Dimension Point' configuration table is shown. The table has two sections: 'Description' and 'Parents'.

Description	
Name	Value
ID	en-US
Name	English
Dictionary	English (United States)
GDSN mapping	en
ISO-639-2	abc ENG

Parents	
Name	Value
std.lang.all	All Languages

**Note:** As illustrated in the example picture above, selecting the All Languages option (as it is the parent of all other language dimension points) ensures that language-dependent data are inherited across all dimension points.

For ECLASS Advanced packages in the French language, the language code 'FRA' should be applied to the French language dimension point. As a result, language-dependent data will now be imported in the French language, associated with the context holding the French dimension point.

The screenshot shows the 'System Setup' interface. On the left, a tree view under 'Contexts' > 'Language' > 'All Languages' lists various languages, with 'French' selected. On the right, the 'French - Dimension Point' configuration window is open, displaying a table of properties.

Description	
Name	Value
ID	fr
Name	French
Dictionary	Français Classique (France)
GDSN mapping	fr
ISO-639-2	abc FRA

Parents	
Name	Value
std.lang.all	All Languages

Similarly, for ECLASS Advanced packages in the German language, the language code 'DEU' should be applied to the German language dimension point. Consequently, language-dependent data will be imported in the German language, linked to the context holding the German dimension point.

The screenshot shows the 'System Setup' interface. On the left, a tree view under 'Contexts' > 'Language' > 'All Languages' lists various languages, with 'German' selected. On the right, the 'German - Dimension Point' configuration window is open, displaying a table of properties.

Description	
Name	Value
ID	German
Name	German
Dictionary	German (Germany)
GDSN mapping	de
ISO-639-2	abc DEU

Parents	
Name	Value
std.lang.all	All Languages

**Potential Scenarios During Dictionary File Import**

During the import of ECLASS Dictionary files, certain scenarios may arise due to irregularities in language mapping. We have outlined the following possible situations:

- Absence of matching language dimension point:  
If the system lacks a language dimension point that corresponds to the language code provided in the file, the language-dependent data will be imported into the context specified in the Inbound Integration Endpoint. In this way, data is seamlessly imported even if an exact language match is unavailable.

- Multiple contexts with the same language dimension point:

In cases where the same language dimension point exists in multiple contexts within the system, the import process identifies the first context containing the relevant language dimension point. For instance, if the 'Eng' language code is found in contexts named 'UK-Eng' and 'US-Eng,' the English dimension point from the 'UK-Eng' context will be selected for the mapping. Ultimately, the data is imported into the English language dimension.

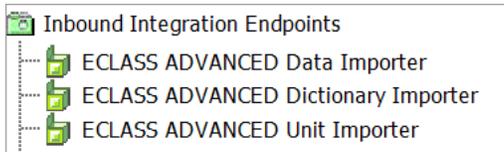
## Important Considerations for Language Codes

When dealing with the mapping of language codes, it is essential to consider the following points.

- **Case Insensitivity of Language Codes:** Language codes are case insensitive, meaning they can be mapped to the system without concern for the letter case. For example, language codes such as 'Eng,' 'eng,' or 'ENG' will all receive identical treatment.
- **Default Language for Unit Imports:** Units are typically imported in the English language. As a result, the import process automatically defaults to the dimension point mapped with the 'ENG' language code. In case the language code is not mapped to any dimension point in the system, the import will default to the context determined in the Inbound Integration Endpoint (IIEP).
- **Multiple Dimension Points with the Same Language Code:** If the same language code is mapped to multiple dimension points, the parser will consider the first language dimension point detected by the IIEP during the import.
- **No Language Code Mapping:** If the language code is not applied to any of the language dimension points, the import will default to the context determined in the IIEP.
- **Erroneous Language Code Mapping:** Mapping an incorrect or erroneous language code will also result in the import defaulting to the context determined in the IIEP.
- **For IIEPs involved in importing Unit and Dictionary files,** the ISO-639-2 attribute is defined as the Context Attribute. It is of utmost importance not to remove this attribute once defined. Accidentally removing it will cause the IIEP to fail in determining the language code provided in the file, leading to the default context being considered.
- **After importing a file,** to gain insights into the context determined for that import, users can refer to the Execution Report, which provides comprehensive information on the import process.

# Update IIEPs

The second step of the Easy Setup action '2. ECLASS ADVANCED Web UI Easy Setup' creates three inbound integration endpoints for each file type supported by the solution. You can locate these endpoints under the Inbound Integration Endpoints node within the System Setup tab.



Although many options specific to the IIEPs are set and configured, it is imperative to manually set up certain parameters to ensure the IIEPs are fully prepared for usage.

While the 'ECLASS ADVANCED Unit Importer' and the 'ECLASS ADVANCED Dictionary Importer' are ready for immediate use, the 'ECLASS ADVANCED Data Importer' requires further configuration, as detailed below:

## Configuration Steps

Update 'ECLASS ADVANCED Data Importer' Endpoint Parameters:

1. Right-click on the ECLASS ADVANCED Data Importer endpoint and select Edit Inbound Integration Endpoint. This action will launch the Inbound Integration Endpoint Wizard.
2. Navigate to the 'Configure Pre-processor' tab, where the 'ECLASS Advanced Data Converter' will be displayed as the pre-processor (refer to the screenshot below)
3. Update the following parameter:
  - **Object Type:** Click the ellipsis button (...) next to the 'Object Type' parameter to find and select the main SKU / Product Object Type. Selected object type has to correspond to the ECLASS data validity. Thus, ensure that the configured object type matches with the configuration set during the "1. ECLASS ADVANCED Easy Set-up" action (within the Easy Setup). For more information, refer to Run Easy Setup of ECLASS Advanced Industry Standard topic.

**Inbound Integration Endpoint Wizard**

**Steps**

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

**Configure Pre-processor**

Configure Pre-processor: ECLASS Advanced Data Converter

Automatically approve imported objects: No

Context Attribute ID: ISO-639-2 (stibo\_ISO-639-2)

Default Product Root Node → ECLASS ADVANCED Product Root (eClassAdv\_Product\_Root)

Import/Update logic: Full replacement

Ignore attribute values on SKU: No

Object Type \* → Sales Item (SalesItem)

Use Supplier PID: Yes

Product ID in attribute:

Use endpoint/config context as fallback: Yes

Transforms ECLASS Advanced Product Data XML into STEP XML

Back Next Finish Cancel

Only information pertaining to initial setup of the 'ECLASS ADVANCED Data Importer' is explained in this topic. For more detailed information on the rest of the parameters, refer to Configuring an IIEP for ECLASS Advanced Data Imports topic within the **ECLASS Advanced Importers** section of the **ECLASS Advanced Reference Guide**.

# ECLASS Standard Supported Versions and Formats

The following are the supported import and export versions and/or formats for the ECLASS Advanced standard.

- **Data Importer:** BMEcat 2005.1
- **Data Exporter:** BMEcat 2005.1

# ECLASS Advanced Reference Guide

This guide describes specific ECLASS Advanced reference material beyond what is provided in the ECLASS Quick Start Guide Introduction topic. This includes a detailed description of user functionalities that is provided with the solution after Easy Setup actions for the ECLASS Advanced standard has been completed by an admin.

This guide addresses the following topics:

- Importing ECLASS Advanced Files
- Exporting in BMEcat 2005.1 Format
- ECLASS Advanced Actions

# Importing ECLASS Advanced Files

The ECLASS Advanced solution provides extensive import capabilities. The intention of the import aspect of the ECLASS Advanced solution is to provide pre-configured importers for different ECLASS Advanced files. Each customer can subsequently implement their unique validations, business processes, and data management protocols. To do this successfully, it is crucial to understand the import framework described in the ECLASS Advanced Import Framework topic.

Easy Setup creates and configures three File Loading Widgets in the Web UI that can be used for importing ECLASS Advanced files. Each of the ECLASS Advanced file types has their own importer, and more information for each can be found within their respective sections below.

**Important:** Imports should be executed in the given order for best results, as there are some dependencies between the imports.

1. ECLASS Advanced Unit Importer
2. ECLASS Advanced Dictionary Importer
3. ECLASS Advanced Data Importer

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

# ECLASS Advanced Import Framework

All ECLASS Advanced IIEP's are configured to use Hotfolders Receiver.

## Import Process Overview

Once a valid ECLASS Advanced file is uploaded using a File Loading Widget (or uploaded directly to a hotfolder), the file is picked up from the hotfolder by an IIEP, and the IIEP starts a Background Process.

## 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 generic information on how to use a File Loading Widget, refer to File Loading Widget topic within the **STEP Online Help**. Further, details relevant to specific ECLASS Advanced importers are described in the following topics:

- Using ECLASS Advanced Unit Importer
- Using ECLASS Advanced Dictionary Importer
- Using ECLASS Advanced Data Importer

## Uploading Files via the Hotfolder

To upload a file to a specific hotfolder:

1. Navigate to /upload/hotfolders/[Importer].
2. Drop the file into the folder with a name aligning with the importer (e.g., ECLASS ADVANCED Data Importer should have files dropped into the 'EclassAdvDataImporter').
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.

# ECLASS Advanced Unit Importer

The primary objective of the ECLASS Advanced Unit Importer is to offer a convenient out-of-the-box solution for importing Unit data in a supported XML format.

## Purpose and Considerations of Unit File Import

The ECLASS Advanced Dictionary file can include Units that may not have been generated during a prior ECLASS Basic import process in STEP. As a result, it is essential to perform a full import of the ECLASS Unit file before proceeding with the import of the ECLASS ADVANCED Dictionary file.

Following are key considerations:

- The ECLASS Basic and ECLASS Advanced Unit files are identical.
- Typically, the Unit file is a part of the ECLASS-provided .zip archive, which must be manually extracted to access the Unit XML file. The Unit Importer exclusively accepts XML file formats.
- The Unit file may contain Unit Groups without allocated Units. These Unit Groups will be imported into STEP, irrespective of whether Units are present.
- Units within the Unit file may exist without a designated Unit group. Such Units will be listed under a generated Unit group named 'eClass ungrouped units (ID = eClass\_UngroupedUnits).'
- STEP does not support structuring Units beyond the Unit Group level. Therefore, all Unit Groups are created on the same level as children of the 'Unit' node.
- The creation of Unit Group and Unit STEP IDs and Names follows the ECLASS Basic structure logic.
- Version dependencies for Unit Groups and Units are not taken into account. The Unit metadata attribute 'EclassImportVersion' will contain the latest version number.
- Unit conversions are not considered, and consequently, no data related to Unit conversions is imported.
- The ECLASS Unit file does not contain any Units related to Currencies. However, Currency Units are managed within the ECLASS Advanced Dictionary file. Therefore, the ECLASS Advanced Dictionary Importer will create the Unit Group called 'eClass Currency (ID = eClass\_Currency),' which will include the relevant currency Units found in the Dictionary file, such as EUR.
- Despite the presence of both English and German languages in the Unit file, Unit Groups and Units are exclusively created in English. Consequently, it is recommended to import Units into the Global context. Alternatively, if you intend to import the units in the German language, users should switch the tag as follows:

- From:

```
<content_description language_code="ENG">ECLASS12.0</content_description>
```

- To:

```
<content_description language_code="DEU">ECLASS12.0</content_description>
```

This section includes information on:

- Using ECLASS Advanced Unit Importer
- Configuring ECLASS Advanced Unit Importer

# Configuring ECLASS Advanced Unit Importer

**Note:** If the Easy Setup actions for the ECLASS Advanced Component model have been completed, then the configurations explained within this topic have been set up automatically. The purpose of this topic is to detail those settings to assist admins in adjusting their solution where necessary.

The following topics provide the configuration steps necessary to allow users to be able to drag and drop Unit files onto a configured File Loading Widget, and monitor the progress of the import file in the created IIEP Background Process in the workbench.

- Configuring an IIEP for ECLASS Advanced Unit Imports
- Configuring a File Loading Widget for ECLASS Advanced Unit Imports

# Configuring an IIEP for ECLASS Advanced Unit Imports

**Note:** If the Easy Setup actions for the ECLASS Advanced Component model have been completed, then the configurations explained within this topic have been set up automatically. The purpose of this topic is to detail those settings to assist admins in adjusting their solution where necessary.

An inbound integration endpoint (IIEP) can be configured in workbench to help the process of importing Unit files into STEP. Once an IIEP is configured for ECLASS Advanced Unit imports, Unit files can be imported after they are uploaded either to a configured hotfolder, or to a File Loading Widget on a Web UI Homepage. For more information, refer to ECLASS Advanced Unit Importer topic.

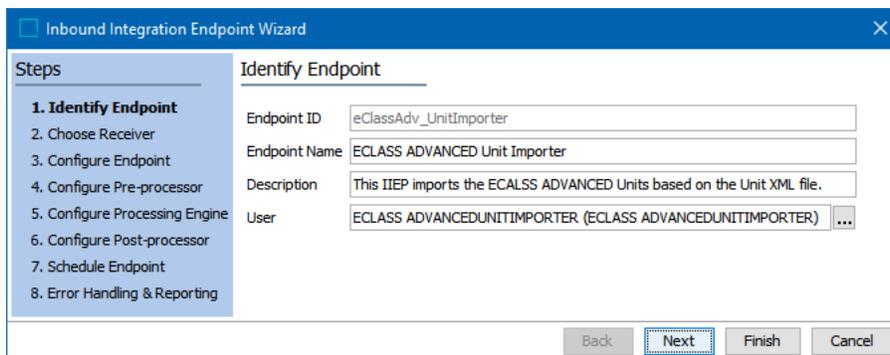
This section describes how to configure an IIEP that can allow for the automated processing of Unit files. Each screenshot example within this section provides recommended values for the parameters and ECLASS Advanced Unit Importer.

## Prerequisites

This topic aims to acquaint users with the IIEP specifically designated for the import of Unit files. It does not cover general IIEP functionalities. It is assumed that individuals configuring an IIEP for ECLASS Advanced Unit Import are well-versed in configuring and processing standard inbound integration endpoints. For a comprehensive understanding of the standard functionalities provided in inbound integration endpoints, refer to Inbound Integration Endpoints topic within the **Data Exchange** section of the **STEP Online Help**.

## Configuration Steps

1. In workbench, go to System Setup, select and right-click the **Inbound Integrations Endpoints** setup group, and click **Create Inbound Integration Endpoint**.
2. Once the Inbound Integration Endpoint Wizard displays, The parameters are to be populated as recommended and shown below.



For more information about the parameters available within the Identify Endpoint step, refer to IIEP - Identify Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

- Click the **Next** button, and the Choose Receiver parameters will display. The parameters are to be populated as recommended and shown below. The mandatory parameter Hotfolder must be populated with a hotfolder name before the Next button will enable. In the screenshot below, the Hotfolder parameter is populated with the value 'EClassAdvUnitImporter.'

**Note:** The value within this hotfolder parameter will be used to create the new hotfolder, once the IIEP Wizard is complete.

The screenshot shows the 'Inbound Integration Endpoint Wizard' window. On the left, a 'Steps' sidebar lists: 1. Identify Endpoint, 2. Choose Receiver (highlighted), 3. Configure Endpoint, 4. Configure Pre-processor, 5. Configure Processing Engine, 6. Configure Post-processor, 7. Schedule Endpoint, and 8. Error Handling & Reporting. The main area is titled 'Choose Receiver' and contains the following fields:

- Receiver: Hotfolder Receiver (dropdown)
- Hotfolder: EclassAdvUnitsImporter (text box)
- Keep File After Load: Yes (dropdown)
- Number of files to keep in save: 1000 (text box)
- Time to keep files in save (in days): 365 (text box)
- Number of files to keep in failed: 1000 (text box)
- Ignore Subfolders: No (dropdown)
- In Folder: In (text box)

At the bottom, there are four buttons: Back, Next (highlighted with a dashed border), Finish, and Cancel.

For more information about the parameters, refer to IIEP - Choose Receiver topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

- Click the **Next** button, and the Configure Endpoint parameters will display. The parameters are to be pre-populated with the recommended values as shown below.

The screenshot shows the 'Inbound Integration Endpoint Wizard' dialog box. On the left, a 'Steps' list includes: 1. Identify Endpoint, 2. Choose Receiver, 3. **Configure Endpoint**, 4. Configure Pre-processor, 5. Configure Processing Engine, 6. Configure Post-processor, 7. Schedule Endpoint, and 8. Error Handling & Reporting. The main area is titled 'Configure Endpoint' and contains several sections:
 

- Processing:** 'Processing Engine' is set to 'STEP Importer' and 'Transactional Settings' is set to 'Strict'.
- Context:** 'Workspace' is set to 'Main' and 'Context' is set to 'English US'.
- Queue Settings:** Includes fields for 'Queue for Endpoint' (InboundQueue), 'Queue for Endpoint Processes' (In), 'Maximum Number of Waiting Processes' (1), 'Maximum Number of Failed Processes' (1000), 'Maximum Age of Failed Processes' (1y), 'Maximum Number of Succeeded Processes' (100), 'Maximum Age of Succeeded Processes' (1w), and 'Number of Messages per Background Process' (1).

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

For more information about the parameters, refer to IIEP - Configure Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

- Click the **Next** button, and the Configure Pre-processor parameter will display. The selection of the pre-processor within this step makes the IIEP unique for importing Unit files. The parameters are to be populated as recommended and shown below:

The screenshot shows the 'Inbound Integration Endpoint Wizard' dialog box at the 'Configure Pre Processor' step. The 'Steps' list on the left now highlights '4. **Configure Pre-processor**'. The main area contains:
 

- Configure Pre Processor:** Set to 'ECLASS Advanced Unit Converter'.
- Context Attribute ID:** Set to 'ISO-639-2 (stibo\_ISO-639-2)'.

 A text box at the bottom of the main area contains the description: 'Transforms eClass Unit XML to STEP XML'. The 'Next' button is highlighted with a dashed border.

- Configure Pre-processor has to be populated with ECLASS Advanced Unit Converter option. This is an exclusive pre-processor for importing Unit files. For more information about the parameter, refer to IIEP - Configure Pre-processor topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

- Context Attribute ID parameter is to be populated with the attribute ISO-639-2 (ID = stibo\_ISO-639-2). This attribute is created by the Easy Setup action and holds the language mappings. For more information about language mappings, refer to Prepare the Language Dimension Mapping within this guide.
6. Click the **Next** button, and the Configure Processing Engine: Select Sample File field for the STEP Importer processing engine will display.

**Steps**

1. Identify Endpoint
2. Choose Receiver
3. Configure Endpoint
4. Configure Pre-processor
- 5. Configure Processing Engine**
  - 5.1. Select Sample File**
  - 5.2. Select Data Source
  - 5.3. Select Format
  - 5.4. Map Data
  - 5.5. Identify Objects
  - 5.6. Identify Destination
  - 5.7. Select Business Rules
  - 5.8. Advanced Settings
6. Configure Post-processor
7. Schedule Endpoint
8. Error Handling & Reporting

**Configure Processing Engine : Select Sample File**

Sample File

```
<?xml version="1.0" encoding="utf-8"?>
<!-- Configuration:
<STEP-ProductInformation ResolveInlineRefs="true" FollowOverrideSubProducts="true">
<UnitList ExportSize="Selected"/>
<Entities ExportSize="Minimum">
<Entity>
<Name/><AttributeLink/><ClassificationCrossReference/><Entity/>
<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ContextCrossReference/><Values/><
<Products ExportSize="Minimum">
<Product>
<Name/><AttributeLink/><DataContainerTypeLink/><ClassificationReference/><Product/>
<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ClassificationCrossReference/><Value
</STEP-ProductInformation>

Export from Primary Product Hierarchy
Classifications All
Products All
Assets All

Exported by domain exporter.
-->
<STEP-ProductInformation ExportTime="2021-04-21 14:12:56" ExportContext="Context1" ContextID="Context1" Wor

<UnitList>
<UnitFamily ID="eClass_BAJ271001" Selected="true" Referenced="true">
<Name>eClass acceleration</Name>
<MetaData>
<Value AttributeID="EclassDescription">increase in velocity within a certain interval as second derivative
<Value AttributeID="EclassID">BAJ271</Value>
```

Download... Upload...

Back Next Finish Cancel

- In **5.1 Select Sample File** step, click the Upload button to upload a sample STEPXML file. For information about how to upload a sample file, refer to IIEP - Configure STEP Importer Processing Engine topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

The basic data structure of a sample Unit file is provided below:

```
<?xml version="1.0" encoding="utf-8"?>
<!-- Configuration:
<STEP-ProductInformation ResolveInlineRefs="true"
FollowOverrideSubProducts="true">
<UnitList ExportSize="Selected"/>
<Entities ExportSize="Minimum">
```

```

<Entity>
<Name/><AttributeLink/><ClassificationCrossReference/><Entity/>

<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ContextCr
ossReference/><Values/></Entity></Entities>
<Products ExportSize="Minimum">
<Product>

<Name/><AttributeLink/><DataContainerTypeLink/><ClassificationReference/><Produ
ct/>

<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><Classific
ationCrossReference/><Values/><OverrideSubProduct/></Product></Products>
</STEP-ProductInformation>

Export from Primary Product Hierarchy
Classifications All
Products All
Assets All

Exported by domain exporter.
-->
<STEP-ProductInformation ExportTime="2021-04-21 14:12:56"
ExportContext="Context1" ContextID="Context1" WorkspaceID="Main"
UseContextLocale="false">

  <UnitList>
    <UnitFamily ID="eClass_BAJ271001" Selected="true" Referenced="true">
      <Name>eClass acceleration</Name>
      <MetaData>
        <Value AttributeID="EclassDescription">increase in velocity
within a certain interval as second derivative of the distance per time</Value>
        <Value AttributeID="EclassID">BAJ271</Value>
        <Value AttributeID="EclassPrimaryKey">BAJ271001</Value>
      </MetaData>
    <Unit ID="eClass_AAA225002" Selected="true" Referenced="true">
      <Name>ft/sÂ²</Name>
      <MetaData>
        <Value AttributeID="EclassDescription">unit foot according
to the Anglo-American and the Imperial system of units divided by the power of
the SI base unit second with the exponent 2 with the relation according to
NIST: 1 ft/sÂ² = 0,304 8 m/sÂ²</Value>
        <Value AttributeID="EclassImportVersion">10.1</Value>
        <Value AttributeID="EclassID">AAA225</Value>
        <Value AttributeID="EclassPrimaryKey">AAA225002</Value>
      </MetaData>
    </Unit>
  </UnitList>

```

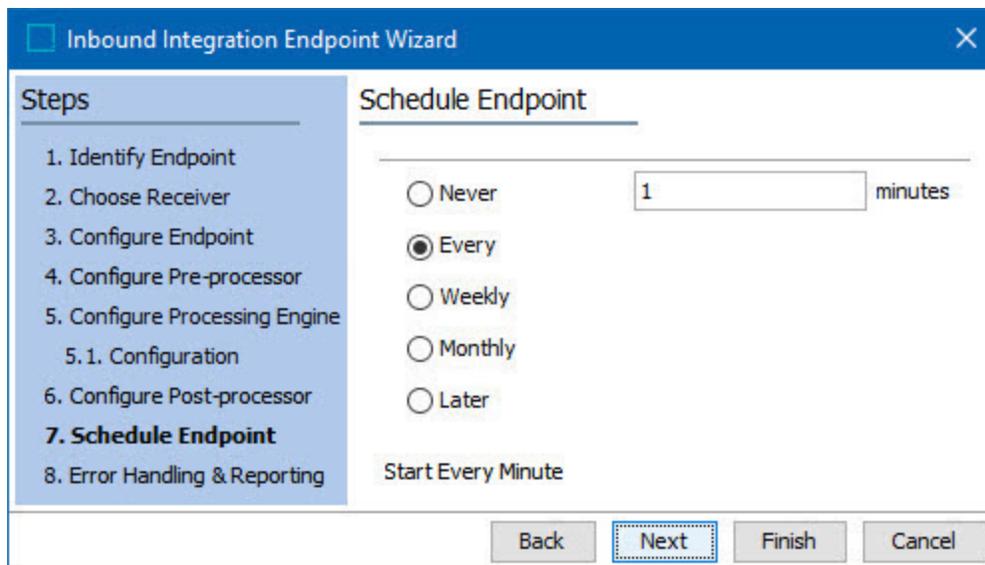
```

<Unit ID="eClass_AAA597002" Selected="true" Referenced="true">
  <Name>m/s2</Name>
  <MetaData>
    <Value AttributeID="EclassDescription">SI base unit metre
divided by the power of the SI base unit second and the exponent 2</Value>
    <Value AttributeID="EclassImportVersion">10.1</Value>
    <Value AttributeID="EclassID">AAA597</Value>
    <Value AttributeID="EclassPrimaryKey">AAA597002</Value>
  </MetaData>
</Unit>
</UnitFamily>
</UnitList>
</STEP-ProductInformation>

```

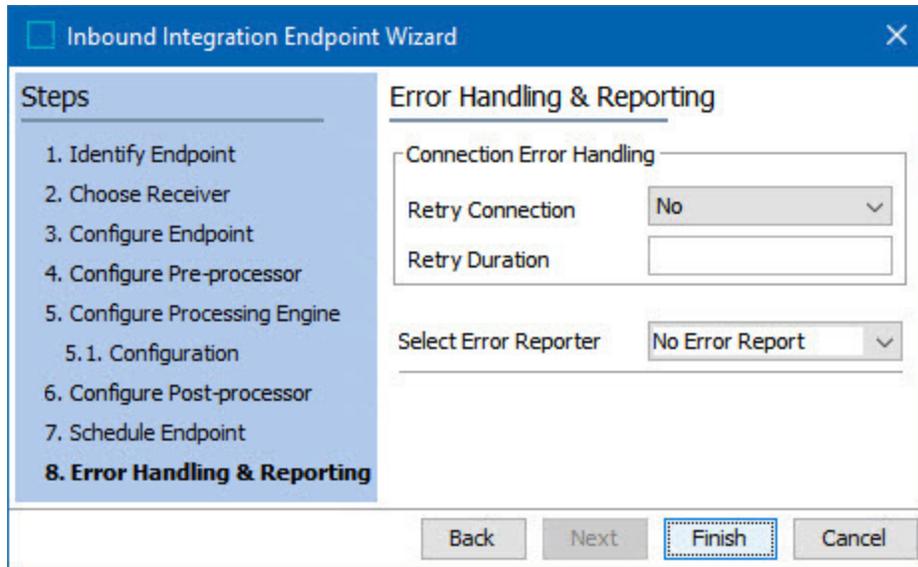
- Further potential sub-steps underneath the Configure Processing Engine are optional. For more information about these steps, refer to IIEP - Configure STEP Importer Processing Engine topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

7. Click the **Next** button to display the Schedule Endpoint parameters (bypass the Configure Post-processor parameters). By default, 'Never' is selected. Optionally, update the values to those shown below.



For more information about the parameters available within this step, refer to IIEP - Schedule Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

8. Click the **Next** button, and the Error Handling & Reporting step will display. The parameters are to be populated as recommended and shown below:



For more information about the parameters available within this step, refer to IIEP - Error Handling & Reporting topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

9. Click the **Finish** button, the Inbound Integration Endpoint Wizard will close, and the newly created endpoint will display within workbench.

**Important:** An endpoint must be enabled before it can start processing data. For more information, refer to Running an Inbound Integration Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

If users need to access the IIEP via a Web UI, then the IIEP must be configured within a File Loading Widget. For more information, refer to the **Configuring a File Loading Widget for ECLASS Advanced Data Imports** topic Configuring a File Loading Widget for ECLASS Advanced Data Imports.

# Configuring a File Loading Widget for ECLASS Advanced Unit Imports

When configured, Web UI users can import Unit files into STEP using a File Loading Widget.

## Prerequisites

It is expected that anyone configuring the ECLASS Advanced Unit Import solution within a Web UI be 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. For more information, refer to Designer Access topic within the **Web User Interfaces** section of the **STEP Online Help**.

Before configuring the Web UI portion of this solution, an IIEP for an ECLASS Advanced Unit Importer must be configured within workbench. For more information, refer to Configuring an IIEP for ECLASS Advanced Unit Imports topic.

Additionally, it is helpful to know how to add a widget to a Web UI Homepage. Details on how to do this can be found in Adding Widgets to a Homepage topic in the **Getting Started** documentation.

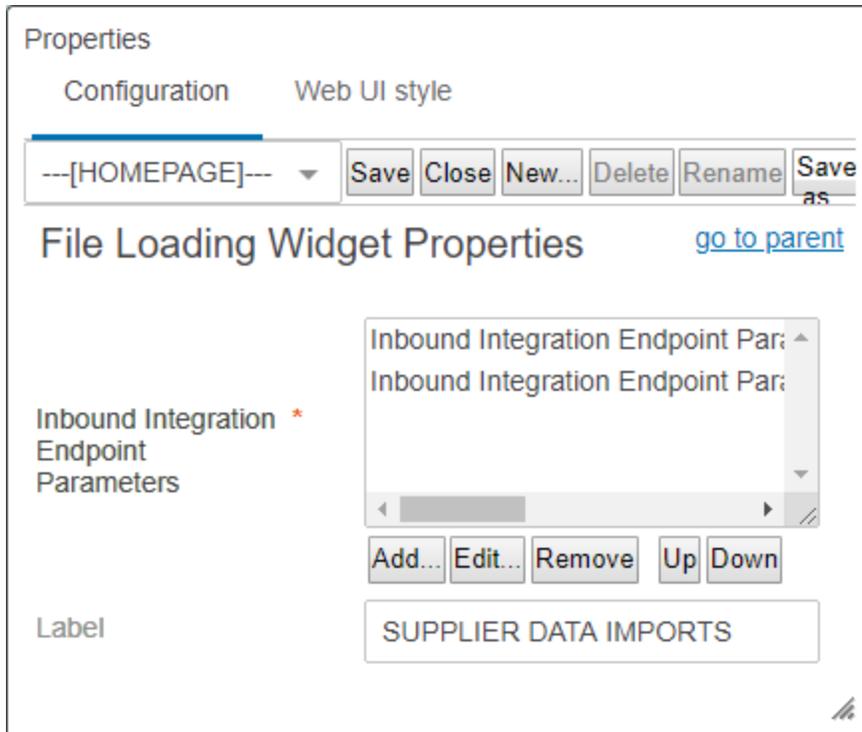
## Configuration

Each screenshot example within this section provides recommended values for the parameters in ECLASS Advanced Unit Importer.

This topic describes how to configure a File Loading Widget so that users can drag and drop ECLASS Advanced Unit files onto a File Loading Widget on a Web UI Homepage.

**Note:** If Easy Setup actions for the ECLASS Advanced solution have been completed as described in the Run Easy Setup of ECLASS Advanced Industry Standard topic of **ECLASS Quick Start Guide**, then the 'Unit Importer' File Loading Widget will automatically be added to the Web UI Homepage as shown in the examples below. Otherwise, the steps below can be used to complete configuration.

1. In the designer, select an existing File Loading Widget to be used, or add a new File Loading Widget to the Homepage Widget Grid component. For more information, refer to the **File Loading Widget** topic within the **Web User Interfaces** section of **STEP Online Help**.
2. Go to the Inbound Integration Endpoint Parameters field, click the **Add** button, and the Inbound Integration Endpoint Parameter Properties dialog will display.



3. Click the dropdown for the Inbound Integration Endpoint parameter, and select **ECLASS ADVANCED Unit Importer** (the IIEP created for ECLASS Advanced Unit imports).

## Add component - configure required properties

Required properties (\*) must be set before the component can be added to the configuration.

### Inbound Integration Endpoint Parameter Properties

\* Inbound Integration  
Endpoint

Label

Asset\_Import\_meta  
AssetsWithProductLinkingMetaData  
Commercial Terms  
Commercial Terms All  
Configuration Importer  
ECLASS ADVANCED Data Importer  
ECLASS ADVANCED Dictionary Importer  
**ECLASS ADVANCED Unit Importer**  
I\_inboundintegration  
Inbound Data  
PubExcel

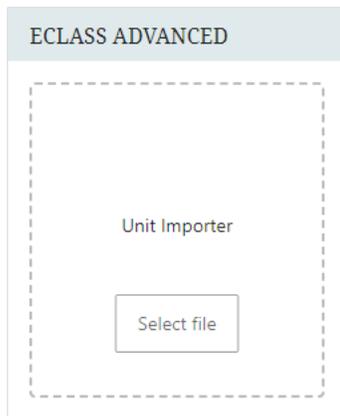
**Note:** If the desired IIEP does not display in the dropdown, then it can be created using the steps described in Configuring an IIEP for ECLASS Advanced Unit Imports topic.

4. Optionally, provide a label to be displayed within the drop zone of the widget.

In the example below:

- A File Loading Widget labeled as 'ECLASS ADVANCED' is displayed above its configurations.
- The File Loading Widget and its configurations are shown with the default configurations provided

automatically when Easy Setup actions for the ECLASS Advanced component are completed.



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

# Using ECLASS Advanced Unit Importer

ECLASS Advanced Unit file can be imported into STEP by uploading it to either a configured hotfolder, or through a File Loading Widget on a Web UI Homepage. The intention of the Unit Importer Web UI setup included within this topic is to provide an out-of-the-box solution for importing data included within a supported ECLASS Advanced Unit format.

## Prerequisites

If you have completed the Easy Setup actions for the ECLASS ADVANCED Model, the functionalities outlined in this topic should be readily available for use. Otherwise, configuration is required. For information on how to configure ECLASS Advanced Unit importer, refer to Configuring ECLASS Advanced Unit Importer topic.

The Unit Importer exclusively supports XML file formats. In case the XML file is zipped, it is essential to manually extract the .zip file to access the Unit file.

## Import Process Overview

Once a valid ECLASS Advanced file is uploaded using a File Loading Widget (or uploaded directly to a hotfolder), the file is picked up from the hotfolder by an IIEP, and the IIEP starts a Background Process.

## Procedure

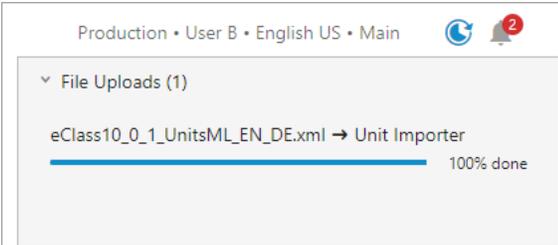
1. Access the ECLASS Advanced Web UI Homepage.
2. Upload a valid Unit file to the hotfolder (root/upload/hotfolders/EclassAdvUnitImporter/In), or use the 'Unit Import' File Loading Widget.

For information about File Loading Widget, refer to File Loading Widget topic within the **Web User Interfaces** section of the **STEP Online Help**.

For more information about uploading files directly to the hotfolder, refer to ECLASS Advanced Import Framework topic.

3. Once the upload has started, users can view the progress of the upload using the 'Recent background processes' side panel.

In the example below, the 'Recent background processes' side panel is expanded, and the file 'eClass10\_0\_1\_UnitsML\_EN\_DE.xml' is 100% processed.



For more information on using the 'Recent background processes' side panel, refer to Recent Background Processes Side Panel topic within the **Main Properties Overview** section of the **STEP Online Help**.

After uploading the file, the IIEP picks it up and initiates a Background Process for the import process. The file loading widget doesn't provide background process monitoring in the Web UI. You can monitor the import status within the workbench through the IIEP Background Process that is generated.

For more information about monitoring the IIEP via background process, refer to Monitoring an IIEP via Background Process topic within the **Data Exchange** section of the **STEP Online Help**.

# ECLASS Advanced Dictionary Importer

The main goal of the ECLASS Advanced Dictionary Importer is to provide a seamless ready-to-use solution for importing Dictionary data in a supported XML format.

The Dictionary file is typically bundled within the ECLASS-provided .zip file. To access the Dictionary file, you will need to manually unzip the archive. The Dictionary Importer exclusively accepts XML file formats.

This section includes information on:

- Using ECLASS Advanced Dictionary Importer
- Configuring ECLASS Advanced Dictionary Importer

# Configuring ECLASS Advanced Dictionary Importer

**Note:** If the Easy Setup actions for the ECLASS Advanced Component model have been completed, then the configurations explained within this topic have been set up automatically. The purpose of this topic is to detail those settings to assist admins in adjusting their solution where necessary.

The following topics provide the configuration steps necessary to allow users to be able to drag and drop Dictionary files onto a configured File Loading Widget, and monitor the progress of the import file in the created IIEP Background Process in the workbench.

- Configuring an IIEP for ECLASS Advanced Dictionary Imports
- Configuring a File Loading Widget for ECLASS Advanced Dictionary Imports

# Configuring an IIEP for ECLASS Advanced Dictionary Imports

**Note:** If the Easy Setup actions for the ECLASS Advanced Component model have been completed, then the configurations explained within this topic have been set up automatically. The purpose of this topic is to detail those settings to assist admins in adjusting their solution where necessary.

An inbound integration endpoint (IIEP) can be configured in workbench to help the process of importing Dictionary files into STEP. Once an IIEP is configured for ECLASS Advanced Dictionary imports, Dictionary files can be imported after they are uploaded either to a configured hotfolder, or to a File Loading Widget on a Web UI Homepage. For more information, refer to ECLASS Advanced Data Importer topic.

This section describes how to configure an IIEP that can allow for the automated processing of Dictionary files. Each screenshot example within this section provides recommended values for the parameters in ECLASS Advanced Dictionary Importer.

## Prerequisites

This topic aims to acquaint users with the IIEP specifically designated for the import of Dictionary files. It does not cover general IIEP functionalities. It is assumed that individuals configuring an IIEP for ECLASS Advanced Dictionary Import are well-versed in configuring and processing standard inbound integration endpoints. For a comprehensive understanding of the standard functionalities provided in inbound integration endpoints, refer to Inbound Integration Endpoints topic within the **Data Exchange** section of the **STEP Online Help**.

## Configuration Steps

1. In workbench, go to System Setup, select and right-click the **Inbound Integrations Endpoints** setup group, and click **Create Inbound Integration Endpoint**.
2. Once the Inbound Integration Endpoint Wizard displays, The parameters are to be populated as recommended and shown below.

The screenshot shows the 'Identify Endpoint' step of the wizard. On the left, a 'Steps' sidebar lists eight steps, with '1. Identify Endpoint' highlighted. The main area contains the following fields:

- Endpoint ID: eClassAdv\_DictionaryImporter
- Endpoint Name: ECLASS ADVANCED Dictionary Importer
- Description: This IIEP is responsible for importing the ECALSS ADVANCED Dictionary data.
- User: ECLASS ADVANCEDDICTIONARYIMPORTER (ECLASS ADVANCEDDICTIONARYIMPORTER) ...

At the bottom right, there are four buttons: 'Back', 'Next' (highlighted with a dashed border), 'Finish', and 'Cancel'.

For more information about the parameters available within the Identify Endpoint step, refer to IIEP - Identify Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

- Click the **Next** button, and the Choose Receiver parameters will display. The parameters are to be populated as recommended and shown below. The mandatory parameter Hotfolder must be populated with a hotfolder name before the Next button will enable. In the screenshot below, the Hotfolder parameter is populated with the value 'EClassAdvDictionaryImporter.'

**Note:** The value within this hotfolder parameter will be used to create the new hotfolder, once the IIEP Wizard is complete.

The screenshot shows the 'Choose Receiver' step of the wizard. On the left, the 'Steps' sidebar highlights '2. Choose Receiver'. The main area contains the following fields:

- Receiver: Hotfolder Receiver (dropdown menu)
- Hotfolder: EclassAdvDictionaryImporter
- Keep File After Load: Yes
- Number of files to keep in save: 1000
- Time to keep files in save (in days): 365
- Number of files to keep in failed: 1000
- Ignore Subfolders: No
- In Folder: In

At the bottom, there are four buttons: 'Back', 'Next' (highlighted with a dashed border), 'Finish', and 'Cancel'.

For more information about the parameters, refer to IIEP - Choose Receiver topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

- Click the **Next** button, and the Configure Endpoint parameters will display. The parameters are to pre-populated with the recommended values as shown below.

For more information about the parameters, refer to IIEP - Configure Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

- Click the **Next** button, and the Configure Pre-processor parameter will display. The selection of the pre-processor within this step makes the IIEP unique for importing Dictionary files. The parameters are to be populated as recommended and shown below:

- Configure Pre-processor:** This parameter has to be populated with ECLASS Advanced Dictionary Converter option. This is an exclusive pre-processor for importing Dictionary files. For more information about the parameter, refer to IIEP - Configure Pre-processor topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.
- Attribute Group Root Node ID:** Upon defining a value (root node) within this parameter, it serves as a directive for determining the specific location for attribute import. If left empty, the attributes will be imported beneath the standard top Attribute Group Root node.

- **Auto approve:** This parameter determines whether the imported classification nodes are to be automatically approved or not. The default setting is No.
  - **Context Attribute ID:** This parameter is to be populated with the attribute ISO-639-2 (ID = stibo\_ISO-639-2). This attribute is created by the Easy Setup action and holds the language mappings. For more information about language mappings, refer to Prepare the Language Dimension Mapping topic.
6. Click the **Next** button, and the 'Configure Processing Engine: Select Sample File' field for the STEP Importer processing engine will display.

**Steps**

1. Identify Endpoint
2. Choose Receiver
3. Configure Endpoint
4. Configure Pre-processor
- 5. Configure Processing Engine**
  - 5.1. Select Sample File**
  - 5.2. Select Data Source
  - 5.3. Select Format
  - 5.4. Map Data
  - 5.5. Identify Objects
  - 5.6. Identify Destination
  - 5.7. Select Business Rules
  - 5.8. Advanced Settings
6. Configure Post-processor
7. Schedule Endpoint
8. Error Handling & Reporting

**Configure Processing Engine : Select Sample File**

Sample File

```
<?xml version="1.0" encoding="utf-8"?>
<!-- Configuration:
<STEP-ProductInformation ResolveInlineRefs="true" FollowOverrideSubProducts="true">
<UnitList ExportSize="Selected"/>
<Entities ExportSize="Minimum">
<Entity>
<Name/><AttributeLink/><ClassificationCrossReference/><Entity/>
<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ContextCrossReference/><Values/><
<Products ExportSize="Minimum">
<Product>
<Name/><AttributeLink/><DataContainerTypeLink/><ClassificationReference/><Product/>
<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ClassificationCrossReference/><Value
</STEP-ProductInformation>
```

Export from Primary Product Hierarchy  
Classifications All  
Products All  
Assets All

Exported by domain exporter.  
-->  
<STEP-ProductInformation ExportTime="2021-04-21 14:12:56" ExportContext="Context1" ContextID="Context1" Wor

```
<UnitList>
<UnitFamily ID="eClass_BAJ271001" Selected="true" Referenced="true">
<Name>eClass acceleration</Name>
<MetaData>
<Value AttributeID="EclassDescription">increase in velocity within a certain interval as second derivative
<Value AttributeID="EclassID">BAJ271</Value>
```

Download... Upload... Back Next Finish Cancel

- In **5.1 Select Sample File** step, click the Upload button to upload a sample STEPXML file. For information about how to upload a sample file, refer to IIEP - Configure STEP Importer Processing Engine topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

```
<?xml version="1.0" encoding="UTF-8"?>
<STEP-ProductInformation ExportTime="2021-06-15 12:53:15" ContextID="Context1"
WorkspaceID="Main" UseContextLocale="false" SingleUpdateMode="Y">
<AttributeGroupList>
```

```

    <AttributeGroup ID="Attribute group root" ShowInWorkbench="true"
ManuallySorted="false">
        <AttributeGroup ID="eClassAdv_Attributes" ShowInWorkbench="true"
ManuallySorted="false">
            <Name>eClass Advanced Attributes</Name>
            <AttributeGroup ID="eClassAdv_101_Attributes"
ShowInWorkbench="true" ManuallySorted="false">
                <Name>eClass Advanced 101 Attributes</Name>
            </AttributeGroup>
            <AttributeGroup ID="eClassAdv_101_DataContainers"
ShowInWorkbench="true" ManuallySorted="false">
                <Name>eClass Advanced 101 Data Containers</Name>
            </AttributeGroup>
            <AttributeGroup ID="eClassAdv_101_DCLinkTypeAttributes"
ShowInWorkbench="true" ManuallySorted="false">
                <Name>eClass Advanced 101 Data Container Link Type
Attributes</Name>
            </AttributeGroup>
        </AttributeGroup>
    </AttributeGroupList>

    <AttributeList>
        <Attribute ID="eClass_BAE519002" MultiValued="true"
ProductMode="Normal" Referenced="false" Selected="true" FullTextIndexed="false"
ExternallyMaintained="false" Derived="false" Mandatory="false">
            <Name>Driver</Name>
            <Validation BaseType="text" MinValue="" MaxValue="" MaxLength=""
InputMask=""/>
            <DimensionLink DimensionID="Language"/>
            <MetaData>
                <Value AttributeID="EclassID">BAE519</Value>
                <Value AttributeID="EclassPrimaryKey">BAE519002</Value>
                <Value AttributeID="eClassAdv_IRDI">0173-1#02-
BAE519#002</Value>
                <Value AttributeID="eClassAdv_PropertyDomainType">TRANSLATABLE_
STRING_Type</Value>
                <Value AttributeID="eClassAdv_Description">small additional
programs enabling the operation of a device connected to the PC, e.g. modem,
printer or sound card. they operate as interpreters between the operating
system and he connected device. Drivers are included in the hardware purchase
and are normally also included in the operating system. the operation of almost
all devices can be regularly updated via the Internet. To this end, simply
download the manufacturer's free driver update from the Website. Links to the
download sites of the provider: www.treiber.de</Value>
                <Value AttributeID="eClassAdv_AttributeType">NON_DEPENDENT_P
DET_Type</Value>

```

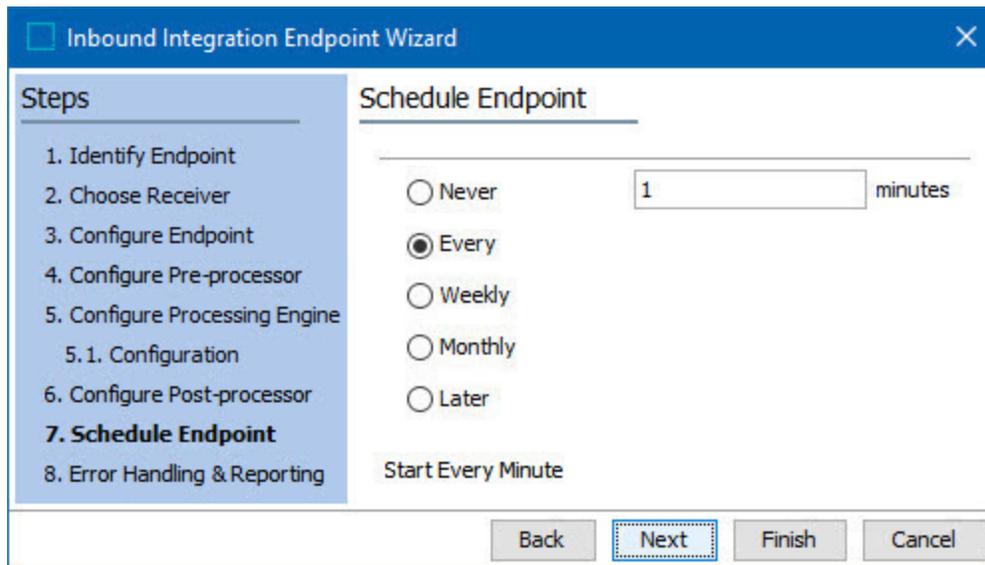
```

        <Value AttributeID="eClassAdv_DependsOn"></Value>
        <Value AttributeID="eClassAdv_ReferenceTarget"></Value>
    </MetaData>
    <AttributeGroupLink AttributeGroupID="eClassAdv_101_Attributes"/>
    <UserTypeLink UserTypeID="SKU"/>
    <UserTypeLink UserTypeID="eClassAdv_ProductBlock"/>
</Attribute>
</AttributeList>

</STEP-ProductInformation>

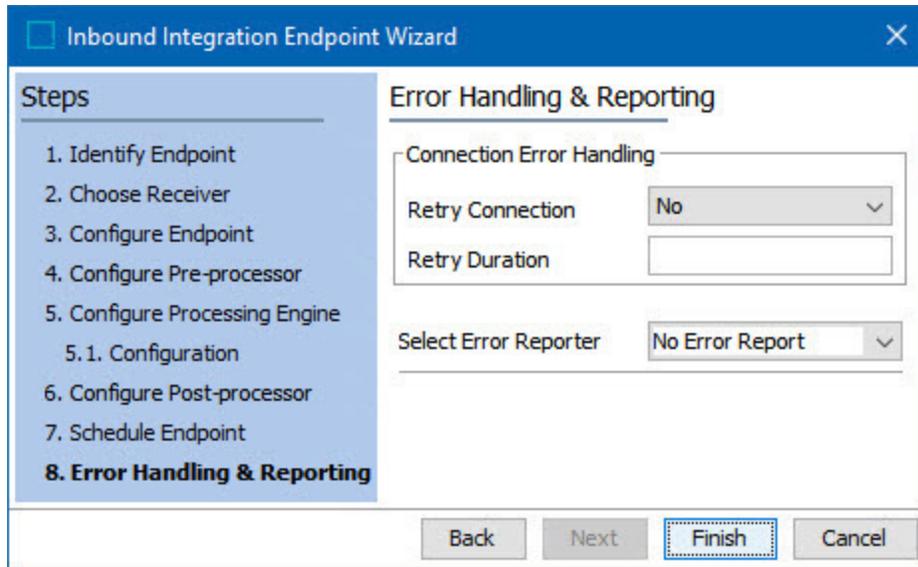
```

- Further potential sub-steps underneath the Configure Processing Engine are optional. For more information about these steps, refer to IIEP - Configure STEP Importer Processing Engine topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.
7. Click the **Next** button to display the Schedule Endpoint parameters (bypass the Configure Post-processor parameters). Update the values to those shown below.



For information about the parameters available within this step, refer to IIEP - Schedule Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

8. Click the **Next** button, and the Error Handling & Reporting step will display. By default, the parameters are populated as recommended and shown below.



For information about the parameters available within this step, refer to IIEP - Error Handling & Reporting topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

9. Click the **Finish** button, the Inbound Integration Endpoint Wizard will close, and the newly created endpoint will display within workbench.

**Important:** An endpoint must be enabled before it can start processing data. For more information, refer to Running an Inbound Integration Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

If users need to access the IIEP via a Web UI, then the IIEP must be configured within a File Loading Widget. For more information, refer to the **Configuring a File Loading Widget for ECLASS Advanced Data Imports** topic Configuring a File Loading Widget for ECLASS Advanced Data Imports.

# Configuring a File Loading Widget for ECLASS Advanced Dictionary Imports

Web UI users can import Dictionary files into STEP using a File Loading Widget.

If Easy Setup actions for the ECLASS Advanced solution have been completed as described in Run Easy Setup of ECLASS Advanced Industry Standard topic of **ECLASS Quick Start Guide**, then the 'Dictionary Importer' File Loading Widget will automatically be added to the Web UI Homepage as shown in the examples below. Otherwise, the steps below can be used to complete configuration.

## Prerequisites

It is expected that anyone configuring the ECLASS Advanced Dictionary Import solution within a Web UI be 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. For more information, refer to Designer Access topic within the **Web User Interfaces** section of the **STEP Online Help**.

Before configuring the Web UI portion of this solution, an IIEP for an ECLASS Advanced Dictionary Importer must be configured within workbench. For more information, refer to Configuring an IIEP for ECLASS Advanced Dictionary Imports topic.

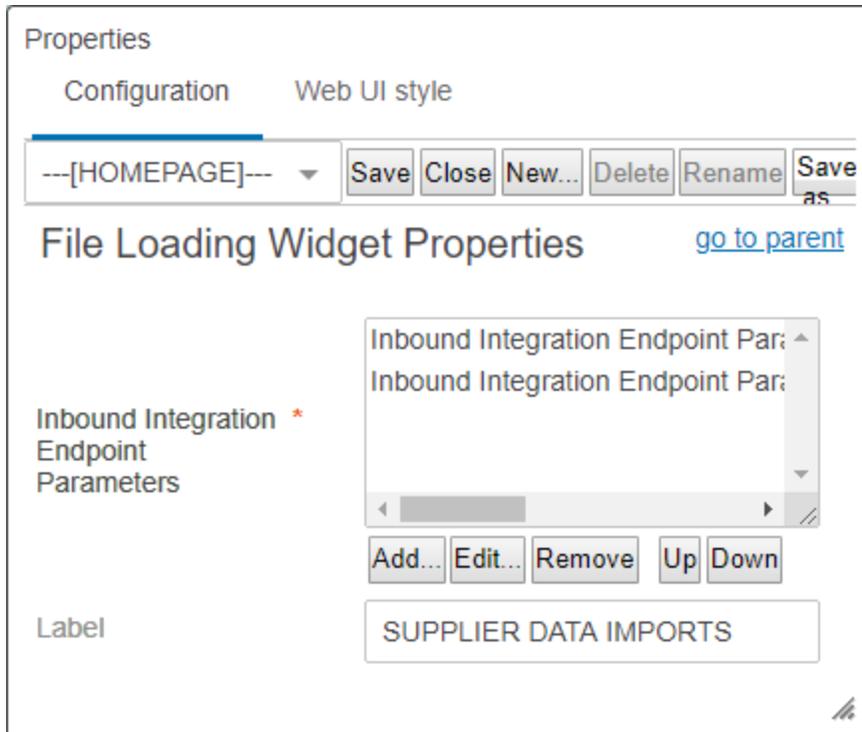
Additionally, it is helpful to know how to add a widget to a Web UI Homepage. Details on how to do this can be found in Adding Widgets to a Homepage topic in the **Getting Started** documentation.

## Configuration

Each screenshot example within this section provides recommended values for the parameters in ECLASS Advanced Dictionary Importer.

This topic describes how to configure a File Loading Widget so that users can drag and drop ECLASS Advanced Dictionary files onto a File Loading Widget on a Web UI Homepage.

1. In the designer, select an existing File Loading Widget to be used, or add a new File Loading Widget to the Homepage Widget Grid component. For more information, refer to the **File Loading Widget** topic within the **Web User Interfaces** section of **STEP Online Help**.
2. Go to the Inbound Integration Endpoint Parameters field, click the **Add** button, and the Inbound Integration Endpoint Parameter Properties dialog will display.



3. Click the dropdown for the Inbound Integration Endpoint parameter and select **ECLASS ADVANCED Dictionary Importer** (the IIEP created for ECLASS Advanced Dictionary imports).

## Add component - configure required properties

### Inbound Integration Endpoint Parameter Properties

\* Inbound Integration Endpoint

Label

asdf ▾

- asdf
- Asset
- Asset Hotfolder, Installation Manuals
- Asset Metadata
- Asset Metadata 2
- Configuration Importer
- ECLASS ADVANCED Data Importer
- ECLASS ADVANCED Dictionary Importer**
- ECLASS ADVANCED Unit Importer
- I\_inboundintegration

**Note:** If the desired IIEP does not display in the dropdown, then it can be created using the steps described in the **Configuring an IIEP for ECLASS Advanced Dictionary Imports** topic.

4. Optionally, provide a label to be displayed within the drop zone of the widget.

In the example below, a File Loading Widget labeled as 'ECLASS ADVANCED' is displayed above its configurations.



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

# Using ECLASS Advanced Dictionary Importer

Dictionary file can be imported into STEP by uploading it to either a configured hotfolder, or through a File Loading Widget on a Web UI Homepage. The intention of the Dictionary Importer Web UI setup included within this topic is to provide an out-of-the-box solution for importing data included within a supported ECLASS Advanced Dictionary format.

## Prerequisites

If you have completed the Easy Setup actions for the ECLASS ADVANCED Model, the functionalities outlined in this topic should be readily available for use. Otherwise, configuration is required. For information on how to configure ECLASS Advanced Dictionary importer, refer to Configuring ECLASS Advanced Dictionary Importer topic.

The Dictionary Importer exclusively supports XML file formats. In case the XML file is zipped, it is essential to manually extract the .zip file to access the Dictionary file.

## Import Process Overview

Once a valid ECLASS Advanced file is uploaded using a File Loading Widget (or uploaded directly to a hotfolder), the file is picked up from the hotfolder by an IIEP, and the IIEP starts a Background Process.

**Note:** The File Loading Widget permits a maximum file size of 20 MB for uploading purposes. Should the files intended for import exceed this 20 MB threshold, we recommend a direct upload to the designated hotfolder. Additionally, if the file upload process exceeds 30 seconds, the web server may time out. In such cases, it is advisable to use the direct hotfolder upload method. Users can modify the shared config properties setting to enable uploading files larger than 20 MB by adjusting the value as `HotfolderUpload.MaxFileSize=4096`.

## Procedure

1. Access the ECLASS Advanced Web UI Homepage.
2. Upload a valid Dictionary file to the hotfolder (root/upload/hotfolders/EclassAdvDictionaryImporter/In), or use the 'Dictionary Import' File Loading Widget.

For information about File Loading Widget, refer to File Loading Widget topic within the **Web User Interfaces** section of the **STEP Online Help**.

For more information about uploading files directly to the hotfolder, refer to ECLASS Advanced Import Framework topic.

3. Once the upload has started, users can view the progress of the upload using the 'Recent background processes' side panel.

For more information on using the 'Recent background processes' side panel, refer to Recent Background Processes Side Panel topic within the **Main Properties Overview** section of the **STEP Online Help**.

After uploading the file, the IIEP picks it up and initiates a Background Process for the import process. The file loading widget doesn't provide background process monitoring in the Web UI. You can monitor the import status within the workbench through the IIEP Background Process that is generated.

For more information about monitoring the IIEP via background process, refer to Monitoring an IIEP via Background Process topic within the **Data Exchange** section of the **STEP Online Help**.

# ECLASS Advanced Data Importer

The primary objective of the ECLASS Advanced Data Importer is to offer a convenient out-of-the-box solution for importing BMEcat 2005.1 file in a supported XML format. To ensure a successful upload, it is essential to verify that the version of the Data file you intend to upload is listed among the Supported Versions and Formats. You can confirm the file version being uploaded is listed within ECLASS Standard Supported Versions and Formats topic.

The Data Importer exclusively accepts XML file formats.

This section includes information on:

- Using ECLASS Advanced Data Importer
- Configuring ECLASS Advanced Data Importer

# Configuring ECLASS Advanced Data Importer

**Note:** If the Easy Setup actions for the ECLASS Advanced Component model have been completed, then the configurations explained within this topic have been set up automatically. The purpose of this topic is to detail those settings to assist admins in adjusting their solution where necessary.

The following topics provide the configuration steps necessary to allow users to be able to drag and drop Data files onto a configured File Loading Widget and monitor the progress of the import file in the created IIEP Background Process in the workbench.

- Mapping BMEcat 2005.1 Reference Feature System with the Corresponding ECLASS Advanced Version
- [Configuring an IIEP for ECLASS Advanced Data Imports](#)
- Configuring a File Loading Widget for ECLASS Advanced Data Imports

# Mapping BMEcat 2005.1 Reference Feature System with the Corresponding ECLASS Advanced Version

To successfully import any BMEcat 2005.1 file into STEP, it's essential to establish a mapping between the BMEcat 2005.1 reference feature system and the corresponding ECLASS ADVANCED version. This mapping is necessary due to the lack of alignment between the naming conventions used in BMEcat 2005.1 and the Dictionary file, specifically when indicating versions.

For example, while BMEcat 2005.1 employs the term '10.0' as its reference feature system, the ECLASS ADVANCED Dictionary refers to the version / revision as '10.0.1'. In situations like this, it becomes imperative for STEP to have a mechanism that indicates how the BMEcat data should be associated with the appropriate ECLASS ADVANCED version.

This mapping process must be applied to the metadata attribute 'eClass Advanced BMEcat ECLASS Version,' which is located on the version dependent object named 'eClassAdv\_[Version]\_Root.'

Description	
Name	Value
ID	eClassAdv_10
Name	eClass Advanced 10
Object Type	eClass Advanced 10
Revision	0.1 Last edited by ECLASSADVANCEDDICTIONARYIMPORTER on Thu Jun 22 14
Approved	✘ Never Been Approved
Translation	Not Translated
Path	Classification 1 root/ECLASS ADVANCED Classifications/eClass Advanced 10
Visibility	
eCl@ss ID	abc
eClass Advanced BMEcat ECLASS Version	abc ECLASS-10
eClass Advanced Description	abc
eClass Advanced IRDI	abc
eClass Advanced Version	abc ECLASS 10.0.1
eClass Primary Key	abc

For the attribute, the value should be retrieved from the value available within the following BMEcat 2005.1 file tag:

```
<<REFERENCE_FEATURE_SYSTEM_NAME>xxx</REFERENCE_FEATURE_SYSTEM_NAME>
```

For example, within the ECLASS Advanced 10.0 file, the value will be displayed as:

```
<<REFERENCE_FEATURE_SYSTEM_NAME>ECLASS-10.0</REFERENCE_FEATURE_SYSTEM_NAME>
```

**Note:** If the value is not applied, no data import takes place and the import execution report will show:  
*“Failed to identify a valid version number. Make sure the version is registered in the attribute 'eClassAdv\_ BMEcatECLASSVersion ..... The product will not be imported”*

# Configuring an IIEP for ECLASS Advanced Data Imports

**Note:** If the Easy Setup actions for the ECLASS Advanced Component model have been completed, then the configurations explained within this topic have been set up automatically. The purpose of this topic is to detail those settings to assist admins in adjusting their solution where necessary.

An inbound integration endpoint (IIEP) can be configured in workbench to help the process of importing Data (BMEcat 2005.1) files into STEP. Once an IIEP is configured for ECLASS Advanced Data imports, Data files can be imported after they are uploaded either to a configured hotfolder, or to a File Loading Widget on a Web UI Homepage. For more information, refer to ECLASS Advanced Data Importer topic.

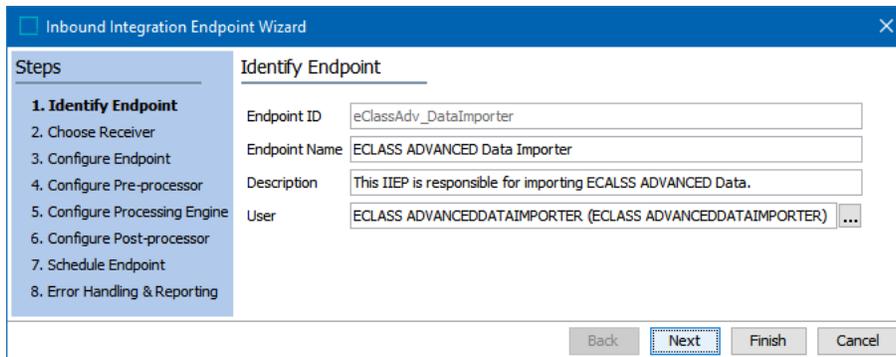
This section describes how to configure an IIEP that can allow for the automated processing of Data files. Each screenshot example within this section provides recommended values for the parameters in ECLASS Advanced Data Importer.

## Prerequisites

This topic aims to acquaint users with the IIEP specifically designated for the import of BMEcat 2005.1 data files. It does not cover general IIEP functionalities. It is assumed that individuals configuring an IIEP for ECLASS Advanced Data Import are well-versed in configuring and processing standard inbound integration endpoints. For a comprehensive understanding of the standard functionalities provided in inbound integration endpoints, refer to Inbound Integration Endpoints topic within the **Data Exchange** section of the **STEP Online Help**.

## Configuration Steps

1. In workbench, go to System Setup, select and right-click the **Inbound Integrations Endpoints** setup group, and click **Create Inbound Integration Endpoint**.
2. Once the Inbound Integration Endpoint Wizard displays, the parameters are to be populated as recommended and shown below.



For more information about the parameters available within the Identify Endpoint step, refer to IIEP - Identify Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

3. Click the **Next** button, and the Choose Receiver parameters will display. The parameters are to be populated as recommended and shown below. The mandatory parameter Hotfolder must be populated with a hotfolder name before the Next button will enable. In the screenshot below, the Hotfolder parameter is populated with the value 'EclassAdvDataImporter.'

**Note:** The value within this hotfolder parameter will be used to create the new hotfolder, once the IIEP Wizard is complete.

**Inbound Integration Endpoint Wizard**

**Steps**

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

**Choose Receiver**

Receiver: Hotfolder Receiver

Hotfolder: EclassAdvDataImporter

Keep File After Load: Yes

Number of files to keep in save: 1000

Time to keep files in save (in days): 365

Number of files to keep in failed: 1000

Ignore Subfolders: No

In Folder: In

Buttons: Back, Next, Finish, Cancel

For more information about the parameters, refer to IIEP - Choose Receiver topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

4. Click the **Next** button, and the Configure Endpoint parameters will display. The parameters are to be pre-populated with the recommended values as shown below.

**Inbound Integration Endpoint Wizard**

**Steps**

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

**Configure Endpoint**

Processing Engine: STEP Importer

Transactional Settings: Strict

Context

Workspace: Main

Context: English US

Queue Settings

Priority: Medium

Maximum Number of Waiting Processes: 1

Maximum Number of Failed Processes: 1000

Maximum Age of Failed Processes: 1y

Maximum Number of Succeeded Processes: 100

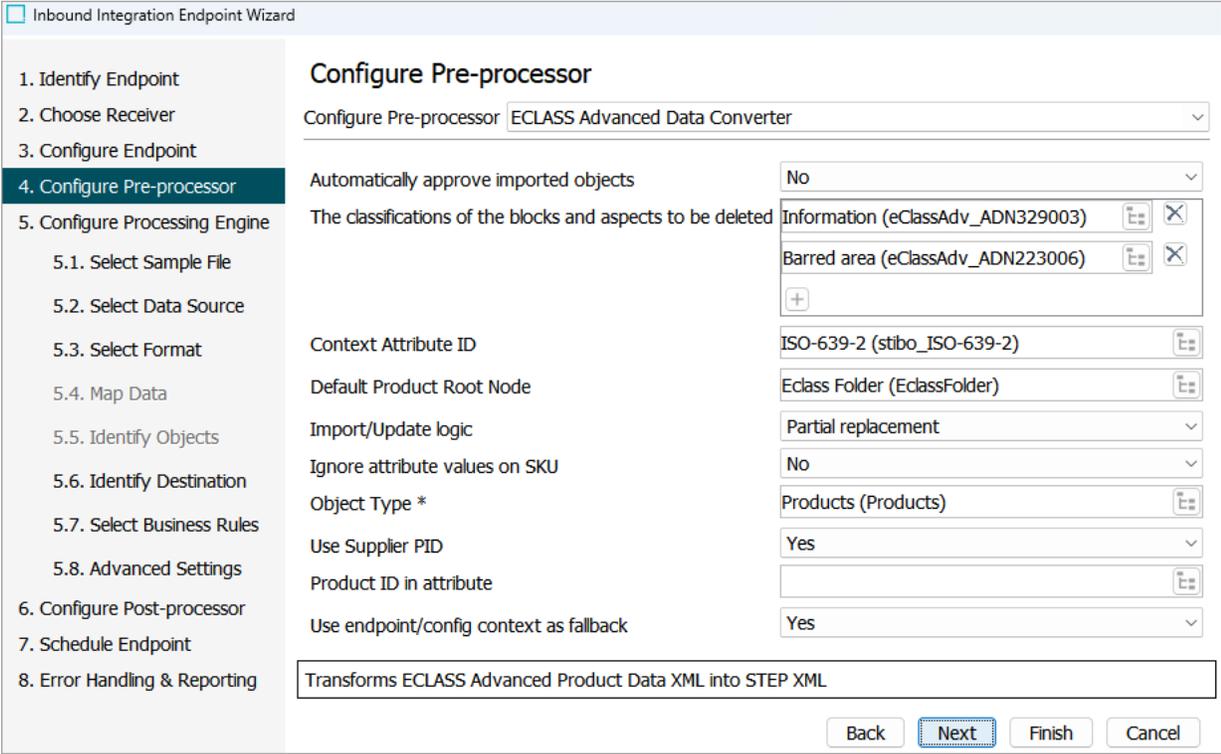
Maximum Age of Succeeded Processes: 1w

Number of Messages per Background Process: 1

Buttons: Back, Next, Finish, Cancel

For more information about the parameters, refer to IIEP - Configure Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

- Click the **Next** button, and the Configure Pre-processor parameter will display. The selection of the pre-processor within this step makes the IIEP unique for importing BMEcat 2005.1 data files. The parameters are to be populated as recommended and shown below:



- Configure Pre-processor:** This parameter has to be populated with ECLASS Advanced Dictionary Converter option. This is an exclusive pre-processor for importing Dictionary files. For more information about the parameter, refer to IIEP - Configure Pre-processor topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.
- Automatically approve imported objects:** This parameter is for the automated approval of SKUs / Products, Product Blocks, and Aspects. When configured as 'No' (default), no approval process is initiated. However, selecting 'Yes' results in the automatic approval of all imported elements, including Product Blocks, Aspects, SKU / Product, ECLASS ADVANCED attributes, and their corresponding product root nodes.
- Classifications of Blocks and Aspects to be Deleted:** This parameter supports a partial update deletion policy, allowing you to selectively update parts of product data from specific sources during the import process. This parameter enables you to specify exactly which classifications, blocks, or aspects should be removed or replaced, without requiring a full data deletion. By defining specific classification IDs within this parameter, you gain precise control over data being imported.

- **Context Attribute ID:** This parameter is to be populated with the attribute ISO-639-2 (ID = stibo\_ISO-639-2). This attribute is created by the Easy Setup action and holds the language mappings. For more information about language mappings, refer to Prepare the Language Dimension Mapping topic within this guide.
- **Default Product Root Node:** Providing an existing product root node enables the creation of new products during the import process. These products are established beneath the specified product root node. Upon selecting a node, it's imperative to designate the corresponding object type. Leaving the field empty, however, restricts the creation of new products, permitting solely the update of existing ones.
- **Import/Update logic:** This parameter provides the following options:
  - **Full replacement:** Selecting this option leads to the prior-to-import removal of all Product Blocks and Aspects, along with the associated link to the Application Class. The actual Product / SKU remains unaltered.
  - **Reject updates on import:** If the Application Class for the same Product / SKU ID in the import file matches the Application Class referenced in STEP, the data import for the corresponding SKU is skipped. If the Application Class for the same Product / SKU in the import file does not match the Application Class referenced in STEP, the import is also skipped.
  - **Allow updates - for same Application class:** By selecting this option, the data import for the relevant SKU is updated if the Application Class in the import file matches the Application Class referenced in STEP. Conversely, if the Application Class in the import file does not correspond to the referenced Application Class in STEP, the data import for the relevant SKU is skipped.
  - **Allow updates - replace when different Application Class:** If the Application Class in the import file does not match the Application Class referenced in STEP, a full replacement of the Product / SKU takes place.
  - **Allow updates: for same Application Class with full replacement:** If the Application Class in the import file match the Application Class referenced in STEP, a full replacement of the Product / SKU takes place.
- **Ignore attribute values on SKU:** Setting this option to 'Yes' will result in the import not updating attributes directly maintained on the SKU. Conversely, when set to 'No,' the import will update attributes directly maintained on the SKU.
- **Object Type:** This mandatory parameter has to be defined with the main SKU / Product Object Type. The specified object type must be from the one for which the ECLASS Advanced attributes were deemed valid. Meaning, this is the same object type configured during the execution of the Easy Setup action. For information about the SKU / Product Object type, refer to the Run Easy Setup of ECLASS Advanced Industry Standard topic.

**Note:** This parameter is not automatically populated by the Easy Setup action, given that the solution may encompass multiple SKU / Product object types that are defined during the Easy Setup process.

- **Use Supplier PID:** When identifying the SKU through the 'SUPPLIER\_PID,' opt for Yes (default). Alternatively, when using the 'MANUFACTURER\_PID' for SKU identification, select 'No.'
- **Product ID in attribute:** This parameter facilitates the updating of existing SKUs in the system. If the SKU ID is specified within an attribute, then that attribute can be defined within this parameter. The uniqueness of the ID has to be taken into account while defining such attributes. In the event this field remains blank, the identifier will be automatically set to the Step ID.
- **Use endpoint/config context as fallback:** The option selected within this parameter (Yes or No) reacts based on a combination of factors including:
  - Language declaration as part of the BMEcat 2005.1 header
  - The language tag provided or not provided as part of the actual translatable free text value
  - The STEP Context configured in the Inbound Integration Endpoint (IIEP)
  - The actual language mapping metadata attribute ISO-639-2 (ID = stibo\_ISO-639-2) to the Language Dimension Points

If for some reason free text value translations cannot be identified or are missing in the import file, by setting the value to 'Yes' will make sure that the relevant values are imported into the STEP Context configured in the IIEP (fallback context).

Setting the parameter to 'No' will require correctly placed language tags.

6. Click the **Next** button, and the 'Configure Processing Engine: Select Sample File' field for the STEP Importer processing engine will display.

Inbound Integration Endpoint Wizard

**Steps**

1. Identify Endpoint
2. Choose Receiver
3. Configure Endpoint
4. Configure Pre-processor
- 5. Configure Processing Engine**
  - 5.1. Select Sample File**
  - 5.2. Select Data Source
  - 5.3. Select Format
  - 5.4. Map Data
  - 5.5. Identify Objects
  - 5.6. Identify Destination
  - 5.7. Select Business Rules
  - 5.8. Advanced Settings
6. Configure Post-processor
7. Schedule Endpoint
8. Error Handling & Reporting

**Configure Processing Engine : Select Sample File**

Sample File

```
<?xml version="1.0" encoding="utf-8"?>
<!-- Configuration:
<STEP-ProductInformation ResolveInlineRefs="true" FollowOverrideSubProducts="true">
<UnitList ExportSize="Selected"/>
<Entities ExportSize="Minimum">
<Entity>
<Name/><AttributeLink/><ClassificationCrossReference/><Entity/>
<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ContextCrossReference/><Values/><
<Products ExportSize="Minimum">
<Product>
<Name/><AttributeLink/><DataContainerTypeLink/><ClassificationReference/><Product/>
<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ClassificationCrossReference/><Value
</STEP-ProductInformation>

Export from Primary Product Hierarchy
Classifications All
Products All
Assets All

Exported by domain exporter.
-->
<STEP-ProductInformation ExportTime="2021-04-21 14:12:56" ExportContext="Context1" ContextID="Context1" Wor

<UnitList>
  <UnitFamily ID="eClass_BAJ271001" Selected="true" Referenced="true">
    <Name>eClass acceleration</Name>
    <MetaData>
      <Value AttributeID="EclassDescription">increase in velocity within a certain interval as second derivative
      <Value AttributeID="EclassID">BAJ271</Value>
```

Download... Upload...

Back Next Finish Cancel

- In **5.1 Select Sample File** step, click the Upload button to upload a sample STEPXML file. For information about how to upload a sample file, refer to IIEP - Configure STEP Importer Processing Engine topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

The basic data structure of a sample Data file is provided below:

```
<?xml version="1.0" encoding="utf-8"?>
<!-- Configuration:
<STEP-ProductInformation ResolveInlineRefs="true"
FollowOverrideSubProducts="true">
<UnitList ExportSize="Selected"/>
<Entities ExportSize="Minimum">
<Entity>
<Name/><AttributeLink/><ClassificationCrossReference/><Entity/>

<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ContextCr
ossReference/><Values/></Entity></Entities>
<Products ExportSize="Minimum">
<Product>
```

```
<Name/><AttributeLink/><DataContainerTypeLink/><ClassificationReference/><Product/>
```

```
<ProductCrossReference/><AssetCrossReference/><EntityCrossReference/><ClassificationCrossReference/><Values/><OverrideSubProduct/></Product></Products>
```

```
</STEP-ProductInformation>
```

Export from Primary Product Hierarchy

Classifications All

Products All

Assets All

Exported by domain exporter.

-->

```
<STEP-ProductInformation ExportTime="2021-04-21 14:12:56"
```

```
ExportContext="Context1" ContextID="Context1" WorkspaceID="Main"
```

```
UseContextLocale="false">
```

```
<UnitList>
```

```
<UnitFamily ID="eClass_BAJ271001" Selected="true" Referenced="true">
```

```
<Name>eClass acceleration</Name>
```

```
<MetaData>
```

```
<Value AttributeID="EclassDescription">increase in velocity within a certain interval as second derivative of the distance per time</Value>
```

```
<Value AttributeID="EclassID">BAJ271</Value>
```

```
<Value AttributeID="EclassPrimaryKey">BAJ271001</Value>
```

```
</MetaData>
```

```
<Unit ID="eClass_AAA225002" Selected="true" Referenced="true">
```

```
<Name>ft/s2</Name>
```

```
<MetaData>
```

```
<Value AttributeID="EclassDescription">unit foot according to the Anglo-American and the Imperial system of units divided by the power of the SI base unit second with the exponent 2 with the relation according to NIST: 1 ft/s2 = 0,304 8 m/s2</Value>
```

```
<Value AttributeID="EclassImportVersion">10.1</Value>
```

```
<Value AttributeID="EclassID">AAA225</Value>
```

```
<Value AttributeID="EclassPrimaryKey">AAA225002</Value>
```

```
</MetaData>
```

```
</Unit>
```

```
<Unit ID="eClass_AAA597002" Selected="true" Referenced="true">
```

```
<Name>m/s2</Name>
```

```
<MetaData>
```

```
<Value AttributeID="EclassDescription">SI base unit metre divided by the power of the SI base unit second and the exponent 2</Value>
```

```
<Value AttributeID="EclassImportVersion">10.1</Value>
```

```
<Value AttributeID="EclassID">AAA597</Value>
```

```

        <Value AttributeID="EclassPrimaryKey">AAA597002</Value>
      </MetaData>
    </Unit>
  </UnitFamily>
</UnitList>
</STEP-ProductInformation>

```

- Further potential sub-steps underneath the Configure Processing Engine are optional. For more information about these steps, refer to IIEP - Configure STEP Importer Processing Engine topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.
7. Click the **Next** button to display the Schedule Endpoint parameters (bypass the Configure Post-processor parameters). Update the values to those shown below.

**Inbound Integration Endpoint Wizard**

**Steps**

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

**Schedule Endpoint**

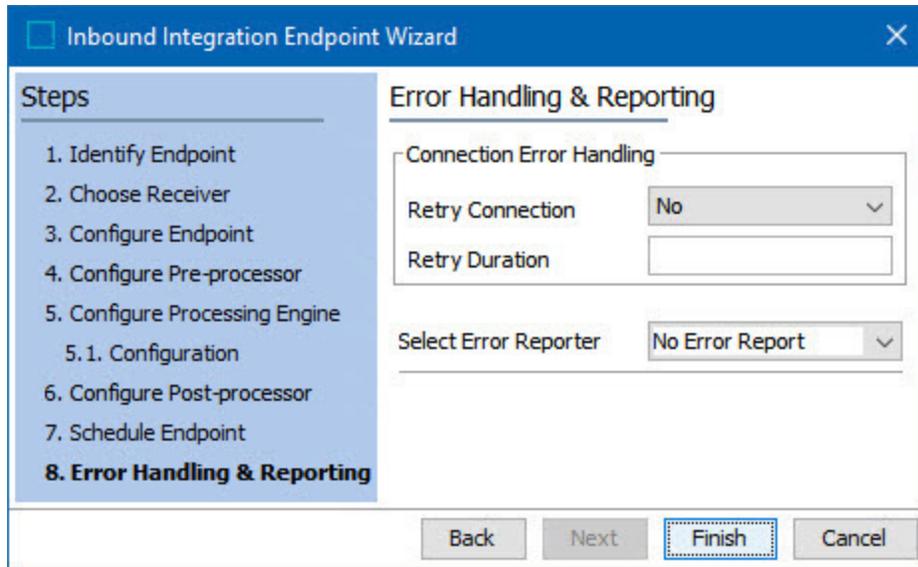
Never    1 minutes  
 **Every**  
 Weekly  
 Monthly  
 Later

Start Every Minute

For information about the parameters available within this step, refer to IIEP - Schedule Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

8. Click the **Next** button, and the Error Handling & Reporting step will display. The parameters are to be populated as recommended and shown below:



For more information about the parameters available within this step, refer to IIEP - Error Handling & Reporting topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

9. Click the **Finish** button, the Inbound Integration Endpoint Wizard will close, and the newly created endpoint will display within workbench.

**Important:** An endpoint must be enabled before it can start processing data. For more information, refer to the Running an Inbound Integration Endpoint topic within the **Inbound Integration Endpoint** section of the **STEP Online Help**.

If users need to access the IIEP via a Web UI, then the IIEP must be configured within a File Loading Widget. For more information, refer to the Configuring a File Loading Widget for ECLASS Advanced Data Imports topic.

# Configuring a File Loading Widget for ECLASS Advanced Data Imports

Web UI users can import Data files into STEP using a File Loading Widget. If Easy Setup actions for the ECLASS Advanced solution have been completed as described in 2. Run Easy Setup of ECLASS ADVANCED Industry Standard topic of the **ECLASS Quick Start Guide**, then the 'Data Importer' File Loading Widget will automatically be added to the Web UI Homepage as shown in the examples below. Otherwise, the steps below can be used to complete configuration. This topic describes how to configure a File Loading Widget so that users can drag and drop ECLASS Advanced Data files onto a File Loading Widget on a Web UI Homepage.

## Prerequisites

Before configuring the Web UI portion of this solution, an IIEP for an ECLASS Advanced Data Importer must be configured within workbench. For more information, refer to Configuring an IIEP for ECLASS Advanced Data Imports topic.

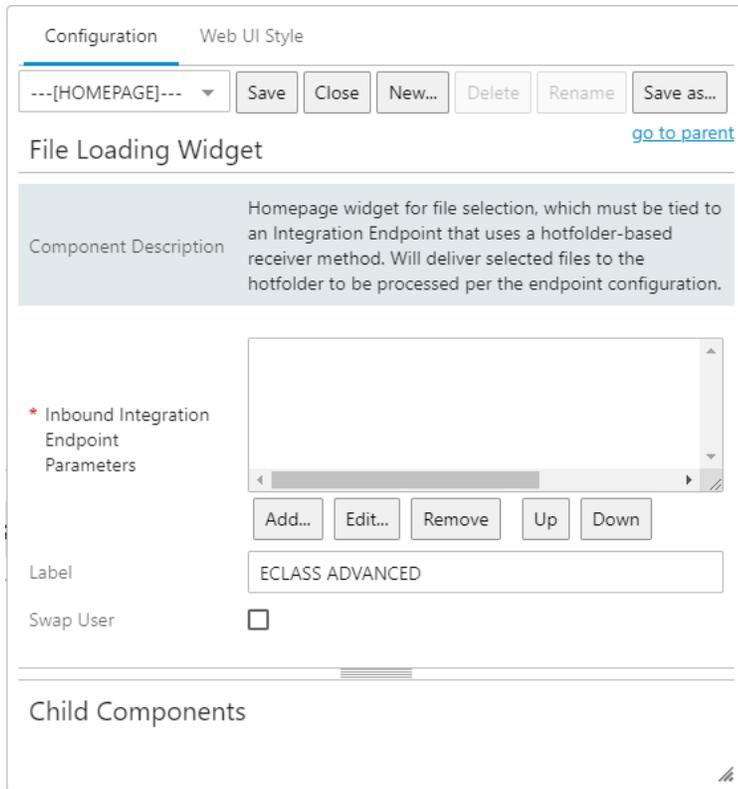
It is expected that anyone configuring the ECLASS Advanced Data Import solution within a Web UI be familiar with the Web UI Designer, as basic concepts for working with the designer are not covered in this section. In addition, the user must have appropriate privileges to access the designer. For more information, refer to Designer Access topic within the **Web User Interfaces** section of the **STEP Online Help**.

Additionally, it is helpful to know how to add a widget to a Web UI Homepage. Details on how to do this can be found in Adding Widgets to a Homepage topic in the **Getting Started** documentation.

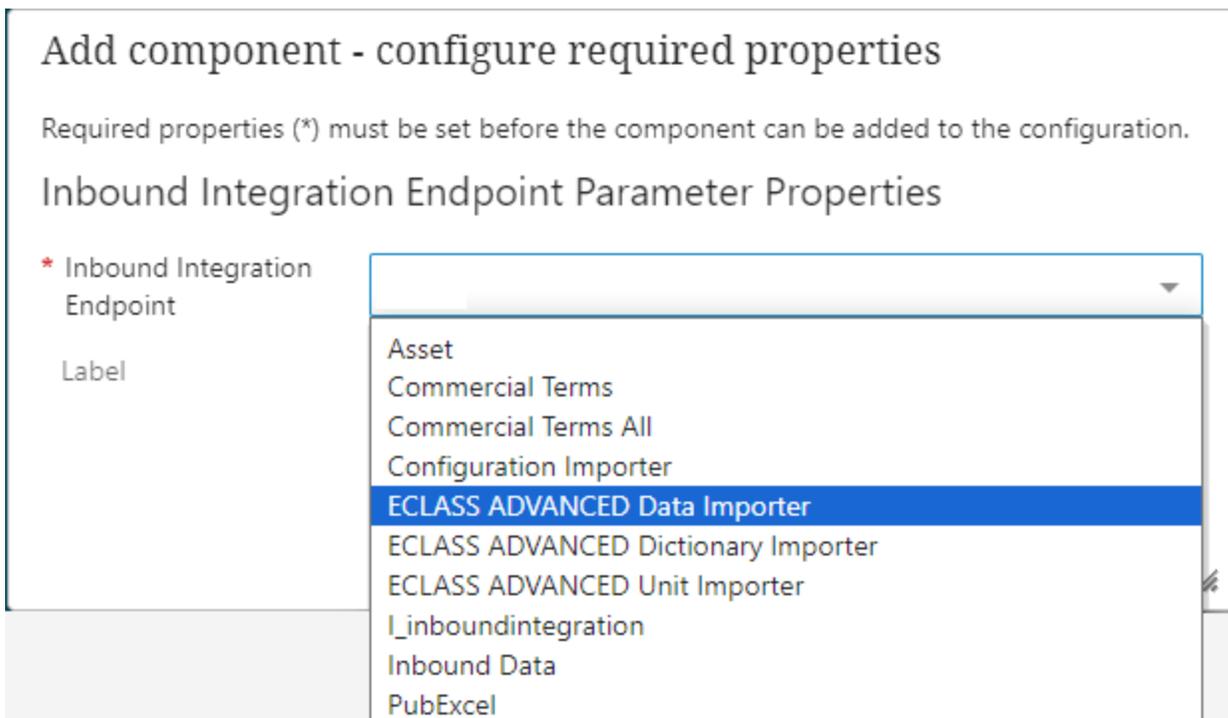
## Configuration

Each screenshot example within this section provides recommended values for the parameters in ECLASS Advanced Data Importer.

1. In the designer, select an existing File Loading Widget to be used, or add a new File Loading Widget to the Homepage Widget Grid component. For more information, refer to File Loading Widget topic within the **Web User Interfaces** section of the **STEP Online Help**.
2. Go to the Inbound Integration Endpoint Parameters field, click the **Add** button, and the Inbound Integration Endpoint Parameter Properties dialog will display.



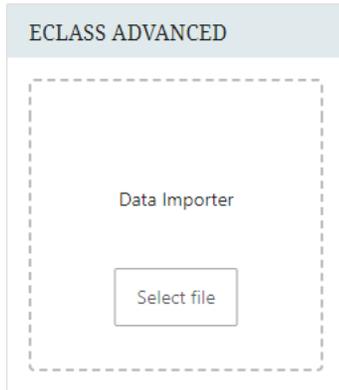
3. Click the dropdown for the Inbound Integration Endpoint parameter, and select **ECLASS ADVANCED Data Importer** (the IIEP created for ECLASS Advanced Data imports).



**Note:** If the desired IIEP does not display in the dropdown, then it can be created using the steps described in Configuring an IIEP for ECLASS Advanced Data Imports topic.

4. Optionally, provide a label to be displayed within the drop zone of the widget.

In the example below, a File Loading Widget labeled as 'ECLASS ADVANCED' is displayed above its configurations.



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

# Using ECLASS Advanced Data Importer

ECLASS Advanced Data file can be imported into STEP by uploading it to either a configured hotfolder, or through a File Loading Widget on a Web UI Homepage. The purpose of the Data Importer Web UI setup outlined in this topic is to offer a readily available solution for importing data in a supported ECLASS Advanced Data format. Only the BMEcat 2005.1 data is allowed to be imported as the ECLASS Advanced Data file.

Because only supported versions will successfully upload, before attempting to upload a Data file, confirm the file version being uploaded is listed within the ECLASS Standard Supported Versions and Formats topic.

## Considerations before initiating an import

Before importing a BMEcat 2005.1 file into the system, it's important to consider the following:

- BMEcat 2005.1 is purposefully designed for transporting ECLASS Advanced data, making it exclusively compatible with ECLASS Advanced.
- BMEcat data corresponds to specific ECLASS Advanced version(s), requiring the prior import of the corresponding / matching ECLASS Advanced version before commencing the BMEcat data import.
- The BMEcat 2005.1 Importer exclusively handles ECLASS Advanced data. Standard BMEcat (1.2 or 2005) fields will not undergo import.
- Unlike the ECLASS Advanced Dictionary file, which is language-specific, the BMEcat 2005.1 file includes multiple languages. Therefore, it's imperative to execute Language Mapping before initiating the import of BMEcat 2005.1 data.

## Prerequisites

The Data Importer exclusively supports BMEcat 2005.1 file format. In case the XML file is zipped, it is essential to manually extract the .zip file to access the Data file.

Before engaging in any BMEcat 2005.1 import scenarios, it is essential to import the related ECLASS Advanced unit and ECLASS Advanced Dictionary file into the system.

The BMEcat 2005.1 Reference Feature System should be mapped with the corresponding ECLASS Advanced Version. For information about how to map BMEcat 2005.1 Reference Feature System with the Corresponding ECLASS Advanced Version, refer to Mapping BMEcat 2005.1 Reference Feature System with the Corresponding ECLASS Advanced Version topic available within the **ECLASS Advanced Quick Start Guide** section of the **STEP Online Help**.

Language Mapping has to be established. For information about how to perform Language Mapping, refer to Prepare the Language Dimension Mapping topic available within the **ECLASS Advanced Quick Start Guide** section of the **STEP Online Help**.

If you have completed the Easy Setup actions for the ECLASS Advanced Model, the functionalities outlined in this topic should be readily available for use. Unlike other ECLASS Advanced importers, the IIEP used for ECLASS Advanced Data Importer requires some manual configuration before using it for the first time. For

information about updating the newly Easy Setup created IIEP, refer to Update IIEPs topic available within the **ECLASS Advanced Quick Start Guide** section of the **STEP Online Help**. For a detailed information on how to configure ECLASS Advanced Data importer, refer to Configuring ECLASS Advanced Data Importer topic.

## Import Process Overview

Once a valid ECLASS Advanced file is uploaded using a File Loading Widget (or uploaded directly to a hotfolder), the file is picked up from the hotfolder by an IIEP, and the IIEP starts a Background Process.

## Procedure

1. Access the ECLASS Advanced Web UI Homepage.
2. Drag and drop a valid Data file into the 'Data Import' File Loading Widget, or upload to the hotfolder (root/upload/hotfolders/EclassAdvDataImporter/In).

For information about File Loading Widget, refer to File Loading Widget topic within the **Web User Interfaces** section of the **STEP Online Help**.

For more information about uploading files directly to the hotfolder, refer to ECLASS Advanced Import Framework topic.

3. Once the upload has started, users can view the progress of the upload using the 'Recent background processes' side panel.

For more information on using the 'Recent background processes' side panel, refer to Recent Background Processes Side Panel topic within the **Main Properties Overview** section of the **STEP Online Help**.

After uploading the file, the IIEP picks it up and initiates a Background Process for the import process. The file loading widget does not provide background process monitoring in the Web UI. You can monitor the import status within the workbench through the IIEP Background Process that is generated.

For more information about monitoring the IIEP via background process, refer to Monitoring an IIEP via Background Process topic within the **Data Exchange** section of the **STEP Online Help**.

# Exporting in BMEcat 2005.1 Format

Exporting the BMEcat 2005.1 format involves supplying header data and catalog / product data via the parameters displayed on the Select Format step and during the Map Data step. Some information is required, as is indicated on the Map Data step.

**Note:** While it is possible to initiate the export process even in the absence of mandatory fields, it's important to note that the background process (BGP) will fail.

## Format Availability

BMEcat 2005.1 XML can be exported from:

- Export Manager - refer to Creating a Data Export
- OIEP - refer to Creating an Outbound Integration Endpoint

## Mapping

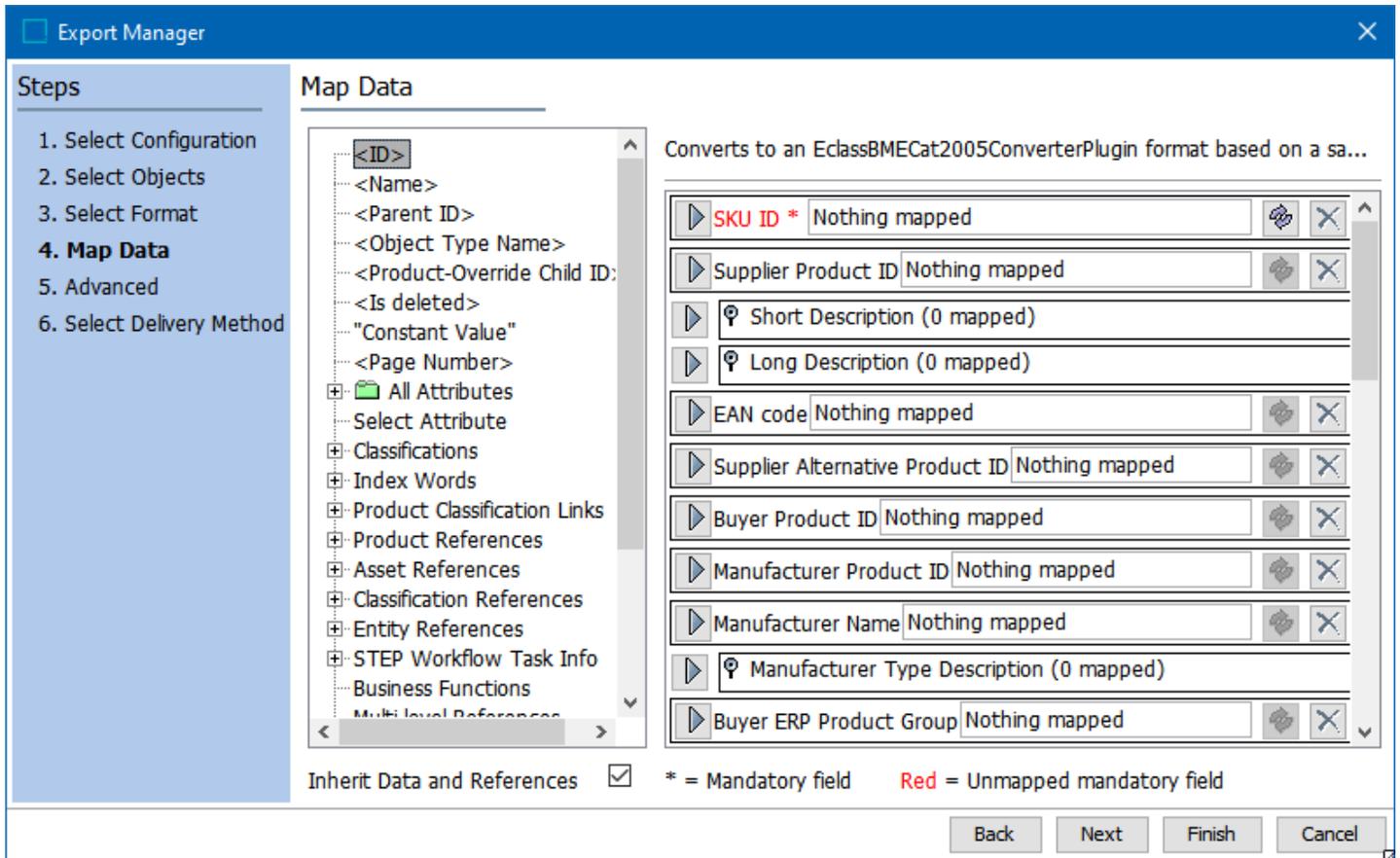
This format requires creating a data map between STEP and the data being processed, and may also include data transformations. For further details on mapping, refer to Data Mapping.

Selecting the BMEcat 2005.1 Export format will automatically generate the data within the <PRODUCT\_FEATURES></PRODUCT\_FEATURES> Tag with the in STEP available ECLASS Advanced content. The extension plug-in will produce the needed information for the output.

Standard BMEcat fields can be mapped with the usual mapping process. For more information on mapping, refer to the Outbound Map Data Options topic in the Data Exchange documentation.

To map for ECLASS Advanced, the STEP ID of the SKU / Product must be mapped to the mandatory field 'SKU ID.'

Should other relevant fields need to be mapped, they can be mapped as needed.



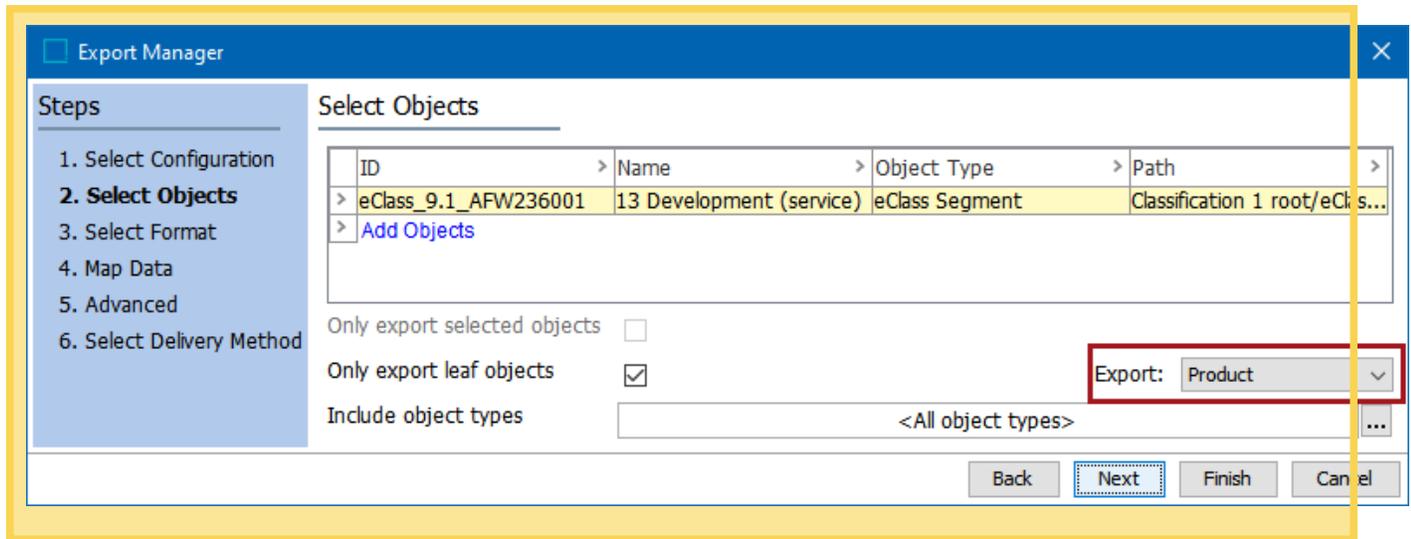
## Configuring BMEcat Exporter

The technical starting point for the Exporter is always the SKU / Product. Therefore, the user should trigger the exporter from either the SKU / Product or a relevant ECLASS Advanced Classification node from the top ECLASS Advanced level downwards.

**Note:** Only mapped languages are determined for output.

1. In workbench, initiate the export for the product(s) you intend to export. For information on how to initiate an export refer to the Creating a Data Export topic in the Data Exchange documentation.

**Important:** When exporting from a Classification node, in the Export dropdown select 'Product.'



2. On the Select Format step of the Export Manager, fill out the following Outbound Parameters.

### Outbound Parameters

The parameters that are available to fill out are controlled by the XML template that is uploaded. The fields listed below are displayed for all users.

Export Manager

1. Select Configuration  
2. Select Objects  
**3. Select Format**  
4. Map Data  
5. Advanced  
6. Select Delivery Method

### Select Format

BMEcat 2005.1

Converts to an EclassBMEcat2005ConverterPlugin format based on a sample.

Sample

```
<BMECAT version="2005.1" xmlns="http://www.bmecat.org/bmecat/2005.1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.bmecat.org/bmecat/2005.1">
  <HEADER>
    <CATALOG>
      <CATALOG_ID><?Parameter Catalog ID?></CATALOG_ID>
      <CATALOG_VERSION><?Parameter Catalog version?></CATALOG_VERSION>
      <CATALOG_NAME><?Parameter Catalog name?></CATALOG_NAME>
      <DATETIME type="generation_date">
        <DATE><?ExportDate?></DATE>
      </DATETIME>
      <TERRITORY><?Parameter Territory?></TERRITORY>
      <CURRENCY><?Parameter Currency?></CURRENCY>
    </CATALOG>
    <BUYER>
      <BUYER_ID><?Parameter Buyer ID?></BUYER_ID>
      <BUYER_NAME><?Parameter Buyer name?></BUYER_NAME>
    </BUYER>
  </HEADER>
</BMECAT>
```

Allow empty tags: No

ECLASS ADVANCED version:

Validate XML: No

Export data for selected contexts: No

Select default context:

FID Selection Policy: Auto enumerate blocks

Output type: BMECAT 2005.1

ECLASS ADVANCED Debug: No

Back Next Finish Cancel

- Sample:** An XML template file is loaded automatically but can be modified as required. This defines the format of the XML file to be exported.

**Note:** For more information on Generic XML instructions, refer to the Generic XML Outbound Processing Instructions topic in the Data Exchange documentation.

- Allow empty tags:** Selecting **Yes** indicates that export tags with empty values are included in the output. If set to **No**, tags containing empty values are not included in the export.
- ECLASS ADVANCED Version:** This field is mandatory. If no version is selected, then there will be no SKU / Products exported. This field specifies the root classification node of the version that should be exported. To select the relevant ECLASS Advanced Version, click the eclipses button, and navigate to the relevant version in the ECLASS Advanced structure.

- **Validate XML:** Selecting **Yes** indicates that the BMEcat 2005.1 export file is validated against an XSD included in STEP. When validation fails, the background process also fails, and the problem is reported in the BGP execution report. If set to **No**, the validation is skipped and the BGP does not fail due to differences found when comparing to the XSD.
- **Export data for selected contexts:** This allows for the output values for language dependent attributes, for example, the ETIM Short Description, Long Description, Keyword, and Remark values, and others. Select **Yes** in the dropdown to display the **Select Contexts** link. Click the link, select the required contexts for the export from the Select Contexts dialog, and click the **Select** button. The selected contexts are listed in a text box.

The chosen contexts will be presented as <LANGUAGE> elements within the <HEADER> section of the exported XML file. If the system contains the specified context-dependent attribute values, they will be incorporated into the <PRODUCT\_DETAILS> segment.

**Important:** When using an OIEP for BMECat format export, ensure consistency between the contexts specified in the 'Export data for selected contexts' parameter and OIEP > Configuration tab > Configuration flipper > Contexts parameter. A mismatch may lead to contexts being presented differently in the exported file: those added in OIEP > Configuration tab > Configuration flipper > Contexts parameter will appear in the <PRODUCT\_DETAILS> element, and those in 'Export data for selected contexts' parameter will be in the <HEADER> element.

**Select default context:** This shows the default context that is selected for the output. The parameter only displays contexts that were selected in the **Export data for selected contexts** parameter, and automatically selects the first context from the list. However, this can be changed by clicking the dropdown menu and selecting a different option.

ExportManager.Omit.SuppresseReferences.CrossContext=true

**Note:** For exports done in the BMEcat file format, all cross-context exports, by default, always contain suppressed references. However, to omit suppressed references, the following configuration property must be added: ExportManager.Omit.SuppresseReferences.CrossContext=true

- **FID Selection Policy:** The FID in STEP remains in contrast to the new FID values generated on export. The options are:
  - **Auto enumerate blocks:** When selected, the FID of product blocks stored in STEP will be output with a continuous enumeration starting at "0."
  - **Warn and skip element and hierarchy:** When selected, product blocks, where meta-data attributes have no value, will not be part of the output. All other directly related Product Blocks will consequently also not be part of the output. All other Product Blocks will be output with the FID from STEP. The execution report will list the 'leading' product block with missing FID values.
  - **Warn and auto enumerate block:** When selected, product blocks, where meta-data attributes have no value, will appear in the output with an auto FID as described. All other product blocks will be output with the FID from STEP. The execution report will list the product blocks with missing FID

values.

- Output type:** This allows to select the version of the BMEcat file. The current options include, BMEcat 2005.1 and BMEcat 2005.2. Switching between the output types will change the sample file populated in the Sample parameter above.
- ECLASS ADVANCED Debug:** When selected, the output will show the respective STEP ID of the 'Features' in the 'StepID' tag. The StepID tag is intended for easier internal output debug investigation

For an explanation of the remaining parameters, search the web. No validation is performed on the text entered or the selections made, but if Validate XML = Yes, errors will be reported in the execution report, as defined above.

### Export Manager

**OIEP**

The screenshot shows the 'BMEcat2005.1 - Configuration' window. At the top, there are tabs for 'Event Triggering Definitions', 'Background Processes', 'Statistics', 'Error Log Excerpts', 'Status', and 'Log'. Below these is a sub-tab for 'Outbound Integration Endpoint' with a 'Configuration' button. A tree view on the left shows 'Configuration', 'Event Queue Configuration', and 'Output Templates'. The 'Output Templates' table has columns for 'Object-Eventtype', 'Format', 'Pre-Processor', and 'Post-Processor'. A row is visible for 'eClass 10 Root (Create, Modify,...)' with 'BMEcat 2005.1 (2 mappings)' in the 'Format' column. A dialog box titled 'Select format' is open, showing the 'Format' tab selected. The dialog contains a dropdown menu with 'BMEcat 2005.1' selected, a description 'Converts to an EclassBMEcat2005ConverterPlugin format based on a sample.', and a 'Sample' field containing XML code. Below the sample are several configuration options: 'Allow empty tags' (No), 'ECLASS ADVANCED version' (empty), 'Validate XML' (No), 'Export data for selected contexts' (No), and 'Select default context' (empty). 'OK' and 'Cancel' buttons are at the bottom right.

**Note:** When using an OIEP for BMECat format export, there is a subtle distinction in how contexts are filled in the <HEADER> and <PRODUCT\_DETAILS> elements. Specifically, for the context-dependent attribute values populated in the <PRODUCT\_DETAILS> element, the values set in OIEP > Configuration tab > Configuration flipper > Contexts parameter take precedence and are populated accordingly. However, the contexts presented as <LANGUAGE> elements within the <HEADER> section are determined by the settings made in the above mentioned 'Export data for selected contexts' parameter itself.

# ECLASS Advanced Actions

The ECLASS Advanced solution offers multiple unique functionalities that could be executed in the system. The topics listed below this section explain those functionalities that are exclusively applicable for the ECLASS Advanced solution. Following are the ECLASS Advanced Actions:

- Approve version Action
- Delete version Action
- Duplicate version Action
- Validate version Action

# Approve version Action

The 'Approve version' action initiates an approval process for the selected SKU/Product and its associated ECLASS Advanced data.

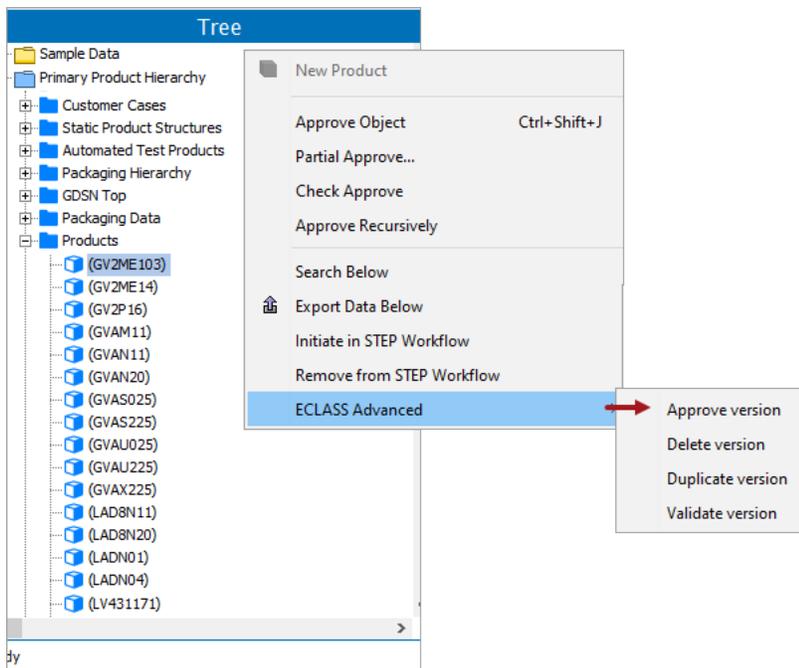
The approval encompasses the following actions:

- Approval of all Product Blocks and Aspects along with their respective root nodes for the selected version (s)
- Partial approval of the following elements of the SKU / Product:
  - STEP Name
  - Relevant ECLASS Advanced classification reference(s)
  - Relevant ECLASS Advanced attributes

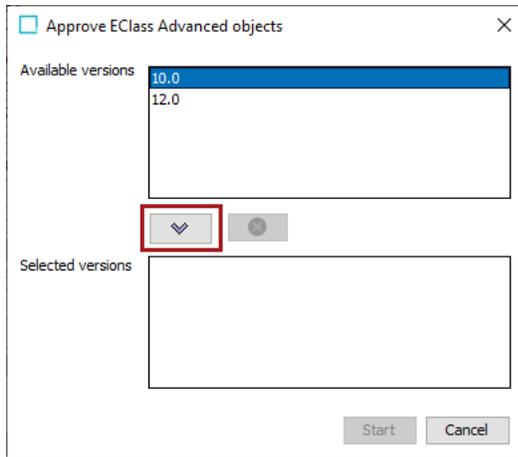
## Procedure to approve versions for an SKU / Product in workbench

Below are the steps to approve an SKU / Product:

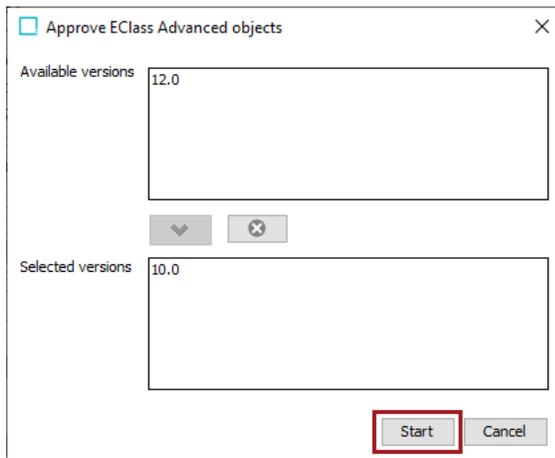
1. Navigate to the Tree tab and select the desired object.
2. Right-click and hover the cursor over ECLASS Advanced menu, and then select 'Approve version' option.



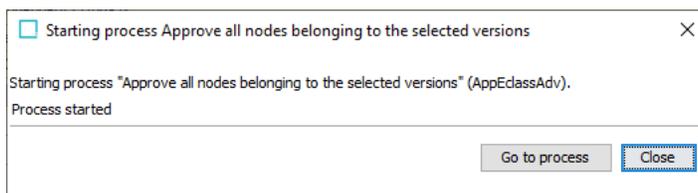
3. In the 'Approve ECLASS Advanced objects' dialog that is displayed, select the version(s) to be approved and press the Down icon (▼).



4. After the desired version is being populated in the 'Selected versions' field, click the 'Start' button to initiate the approval process. In the example below, ECLASS Advanced data for version 10.0 is to be approved.



5. The approval action is run as a background process, and you can access the Background Process information through the execution report. In the dialog labeled 'Starting process Approve all nodes belonging to the selected versions,' click the 'Go to process' button to navigate to the actual background process.



The report provides error details if any issues are encountered. In case of a successful process or approval, the report logs product information. Consequently, the report displays no errors and no warnings when the process is error-free and successful.

# Delete version Action

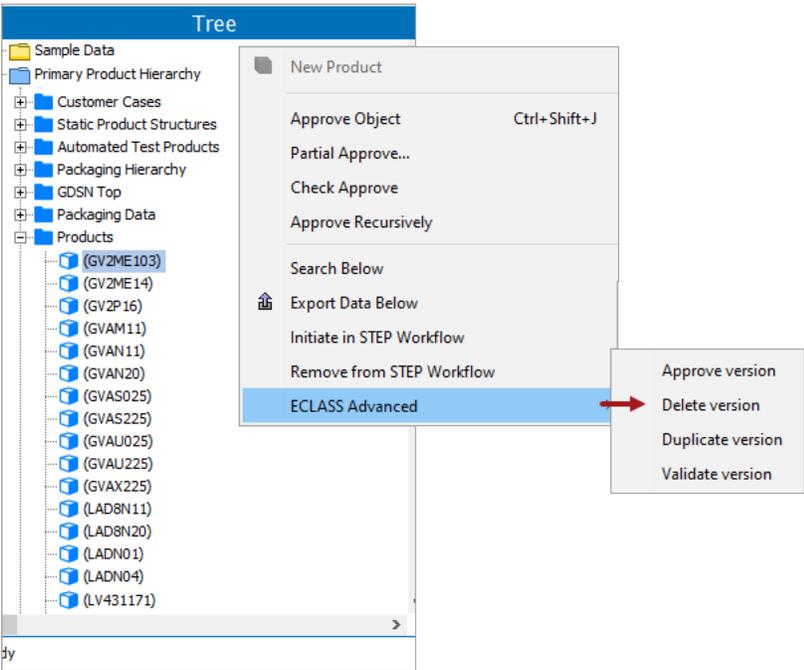
This functionality is designed to remove ECLASS ADVANCED data from specific versions within STEP. This functionality is exclusively accessible when working within the Workbench environment.

The deletion process eliminates all ECLASS Advanced data, including referenced Product Blocks and Product Aspects along with their immediate parent nodes. In addition, the Application Class reference is also removed for the selected version(s). The values associated with the actual SKU/Product remain unchanged.

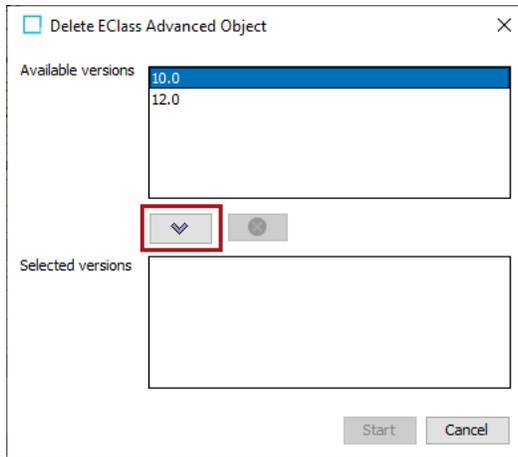
## Procedure to remove version from SKU / Product

Below are the steps to remove an SKU / Product from being applicable to a specific version:

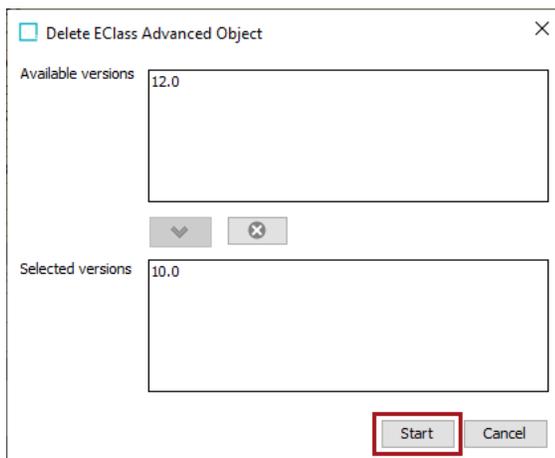
1. Navigate to the Tree tab and select the desired object.
2. Right-click and hover the cursor over ECLASS Advanced menu, and then select 'Delete version' option.



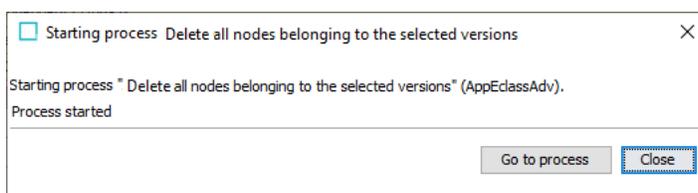
3. In the 'Delete ECLASS Advanced object' dialog that is displayed, select the version(s) to be deleted and press the Down icon (▼).



4. After the desired version is being populated in the 'Selected versions' field, click the 'Start' button to initiate the deletion process. In the example below, ECLASS Advanced data for version 10.0 is to be deleted.



5. The deletion action is run as a background process, and you can access the Background Process information through the execution report. In the dialog labeled 'Starting process Delete all nodes belonging to the selected versions,' click the 'Go to process' button to navigate to the actual background process.



The report provides error details if any issues are encountered. Consequently, the report displays no errors and no warnings when the process is error-free and successful.

**Note:** The deletion process is irreversible.

# Duplicate version Action

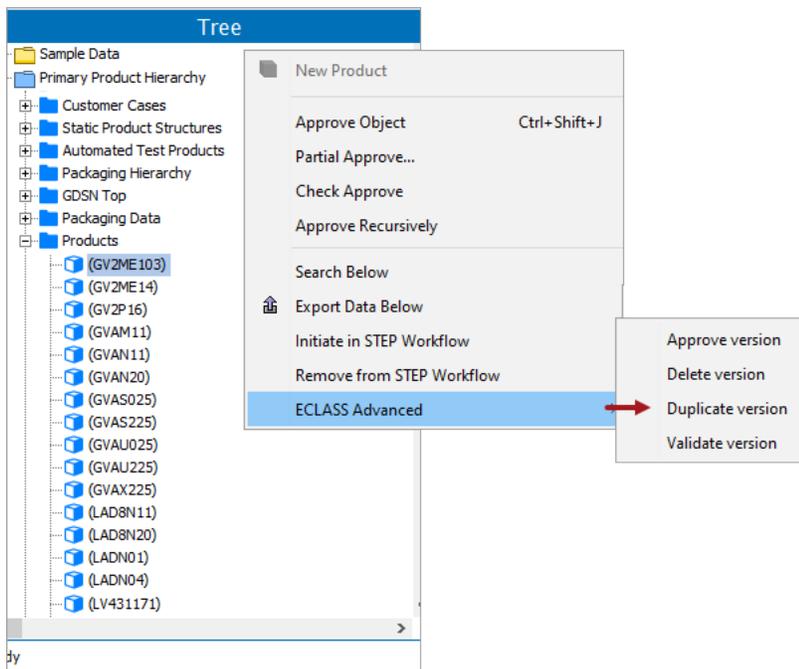
The duplication action enables the duplication of ECLASS Advanced version(s) along with their associated Product Blocks and Aspects. The user retains the choice of either generating a new SKU / Product or duplicating the data into an existing SKU / Product.

If you choose to duplicate versions for an existing SKU / Product rather than creating a new one, the selected SKU / Product will be enriched with additional versions. Yet, if a version is already defined within the SKU / Product (determined through the ECLASS Advanced classification link), the duplication of that version will not take place.

## Procedure to duplicate version(s)

Below are the steps to duplicate ECLASS Advanced versions.

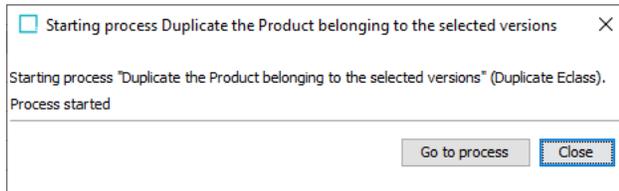
1. Navigate to the Tree tab and select the desired object.
2. Right-click and hover the cursor over ECLASS Advanced menu, and then select 'Duplicate version' option.



3. In the 'Duplicate ECLASS Advanced object' dialog that is being displayed, populate the following parameters:

- **ID:** This parameter is to be populated if you are duplicating the data into a new SKU / Product. Type the ID of the new SKU / Product.
  - **Name:** Type a name for the new SKU / Product.
  - **Target (Optional):** This parameter is to be populated if you are duplicating the data into an existing SKU / Product. To select an existing SKU / Product, click the ellipsis button (...).
  - **Available versions / Selected versions:** The 'Available versions' parameter enumerates all the versions to which the current SKU / Product is applicable. Select the relevant version(s) and press the Down icon (▼).
4. After the desired version is being populated in the 'Selected versions' field, click the 'Start' button to initiate the duplication process. In the example below, ECLASS Advanced data from version 10.0 is selected to be duplicated into a new product 'SKU1234.'

- The duplication is run as a background process, and you can access the Background Process information through the execution report. In the dialog labeled 'Starting process Duplicate the Product belonging to the selected versions,' click the 'Go to process' button to navigate to the actual background process.



The report provides error details if any issues are encountered. Consequently, the report displays no errors and no warnings when the process is error-free and successful.

You can locate the duplicated Product Block and Aspect Groups, as well as Product Blocks and Aspects, within the root nodes named eClassAdv\_[Version]ProductBlocks and eClassAdv[Version]\_ProductAspects.

# Validate Version Action

The 'Validation version' action tests the structure of the data imported through BMEcat 2005.1 file.

This validation process encompasses the following actions:

- Checks the validity of Product Blocks and Aspect hierarchy in terms of classifications
- Checks for the cardinality consistency
- Checks for orphan values

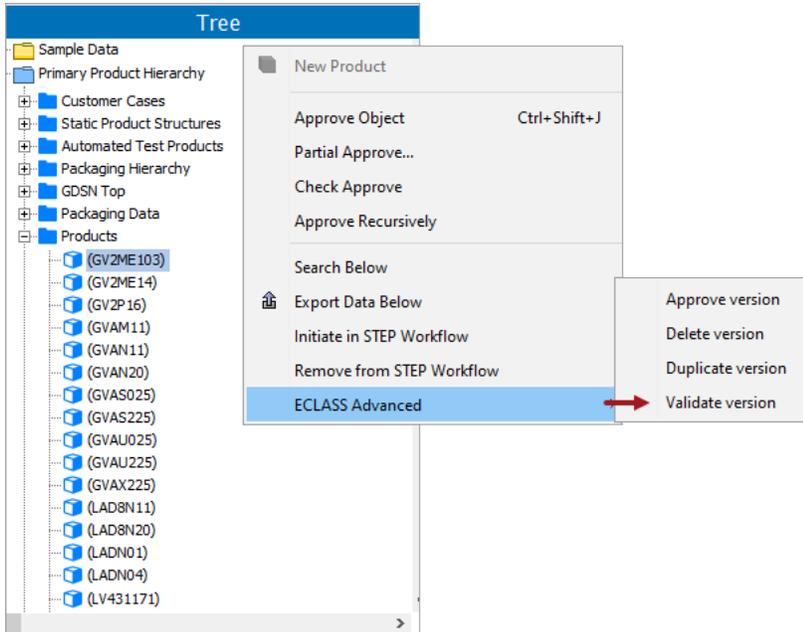
However, the validation process does not cover the following:

- It does not validate anything related to data containers
- It does not validate data for data quality purpose

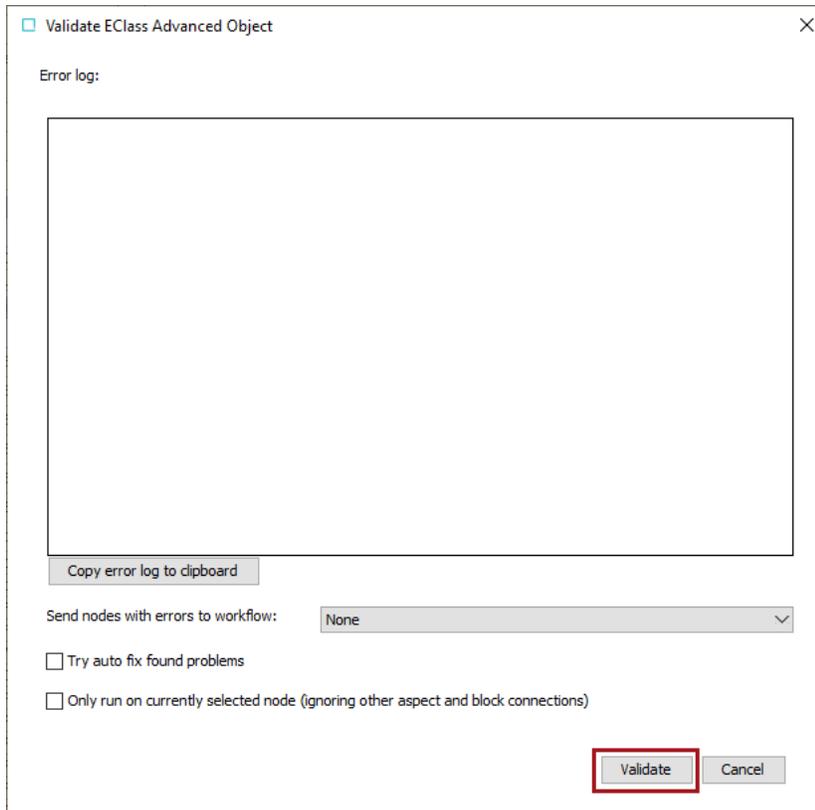
## Procedure to validate an SKU / Product in workbench

Below are the steps to validate an SKU / Product:

1. Navigate to the Tree tab and select the desired object. The object can be an SKU / Product or Product Block or Product Aspect.
2. Right-click and hover the cursor over ECLASS Advanced menu, and then select 'Validate version' option.

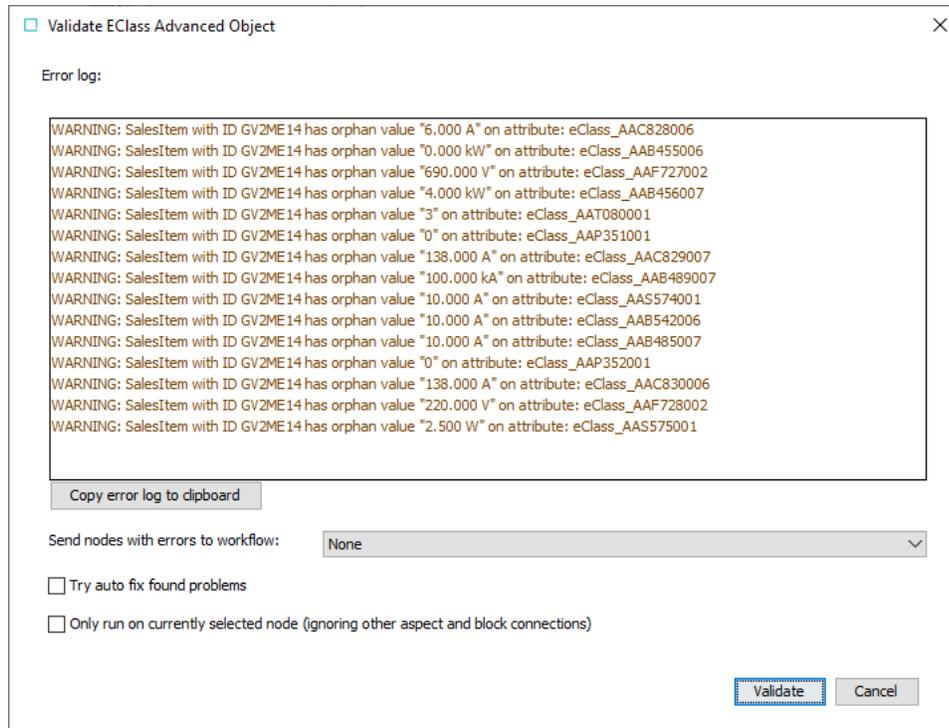


3. In the 'Validate ECLASS Advanced objects' dialog that is displayed, click 'Validate' button.



4. After the 'Error log' parameter is populated with the error messages (as shown below), you can copy the error messages by clicking the 'Copy error log to clipboard' button.

Meanwhile, the following are the parameters available within the 'Validate ECLASS Advanced Editor Screen Advanced objects' dialog:



- **Error log:** This field displays each warning or fatal error presented on a distinct line. Users have the option to click on a line and use Ctrl+C to copy the content of the respective line.
- **Copy error log to clipboard:** This button allows you to copy all lines of the error log to the clipboard.
- **Send notes with errors to workflow:** This dropdown allows users to select a STEP Workflow. If a node contains validation errors, the system will push those nodes into the selected workflow.
- **Try auto fix found problems:** When this checkbox is selected, the system will attempt to automatically resolve any found validation errors. Note that some errors may necessitate manual intervention.
- **Only run on currently selected node:** Enabling this checkbox confines the validation check to the currently selected node. Validation check on the referenced nodes are excluded.
- **Validate:** Clicking this button will initiate the validation process.

5. To close the dialog, click 'Cancel' button.

## Types of Validation Warnings / Errors

The below table outlines different types of validation warnings and errors:

Type	Importance	Test on object type	Description	Can be auto-fixed
Has Classification Link	FATAL	SKU, Aspect, Block	Checks whether the node has at least one ECLASS Advanced Classification Link	No
Check for Orphan Values	WARNING	SKU, Aspect, Block	Checks if the node has any orphan values	Yes
Do Cardinality Attributes' values match number of references of that type	FATAL	Aspect, Block	Checks if the node has any connected attributes of CONDITION_DET_TYPE in which case it check	Yes
Does SKU uphold 1:1 relationship constraints for its NON_DEPENDENT_P_DET_TYPE attribute targets	FATAL	SKU	Checks if there is only one reference of the type corresponding to the classification's attributes types of NON_DEPENDENT_P_DET_TYPE	No