Manual

1WorldSync Publishing (includes Digital Asset Management)

Release 26.11, Version 01

published: 13.11.2026

About 1WorldSync

1WorldSync GmbH, the market leader in product content orchestration, simplifies the creation and distribution of impactful content that is accurate, consistent, and relevant wherever commerce takes place. Our customers reduce time to market by up to 75%, increase sales by 32%, and reduce errors by 68%. Join the leading commerce network that provides 85% of the world's leading brands and retailers with access to up-to-date, complete, local, and global product information.

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Imprint

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Introduction (Version 26.11)

This document aims to help you to familiarize yourself with 1WorldSync Publishing and its functions. It serves as a guide but does not claim to be complete.

Some of the functions described here may not be configured in your system. In this regard, please contact the support team.

1WorldSync Publishing is a convenient tool for capturing item master data in a user-friendly environment. Trade item master data plays a central role in the entire supply chain between the manufacturer and retailer. About efficient and smooth business processes, it is crucial for data to meet high quality standards and to stay up to date.

All functionalities and the basics of working with the application are explained in the respective sections of this document. As a supplier the application allows you to easily create and maintain your complete product master data descriptions and publish them in a GDSN-compliant data pool.

The chapter GDSN gives a brief overview of the GDSN standards and choreography. You can use the application without any prior GDSN knowledge, but it is highly recommended to familiarize yourself with the basics of the GDSN choreography.

Please note that the application is customized to meet individual customer requirements. This can result in a slightly different appearance of the UI, e.g. colors, logos, tab names. The screenshots in this document may not always reflect the UI 100%. The functionalities remain untouched.

Despite the greatest possible care during the preparation, there is no claim to completeness or accuracy, as content errors cannot be excluded.

Maintain and synchronize Trade Items

The application enables users to maintain item data through the entire workflow of a trade item.
Trade item data records can be added to the system either manually or via data import (Excel interface)
Items saved in the system can be edited. Every time an item is saved an automatic validation check ensures the validity of the item data.
Items that have been correctly validated can be released.
A released item is the precondition for 1WorldSync Publishing the item. A publication distributes the data to a selected group of data recipients who can then view the item data provided they have subscribed to the respective item data.
Having received the item data, data recipients return feedback sending confirmations with different status like Accepted, Synchronized or Review. A response with status Review tells the supplier that the data needs further adaptation. The retailer can also specify when the data is incomplete.
These responses for the supplier, i.e., all trade items with a 'To Do' status, e.g., a received confirmation with status Review, or perhaps a GS1 RESPONSE can specifically be accessed and managed in the task list module of 1WorldSync Publishing.

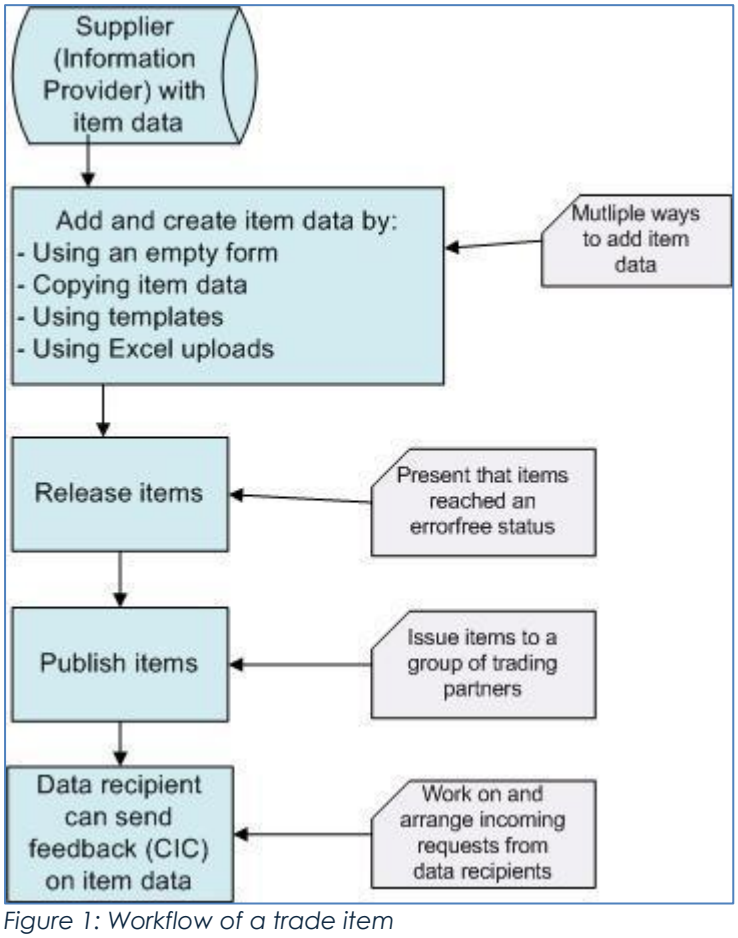


Figure 1: Workflow of a trade item

GDSN

The Global Data Synchronization Network (GDSN) is the world's largest product data network. GDSN makes it possible for any company, in any market, to share high-quality product information seamlessly. Because companies of all sizes need the same thing—timely and reliable product information—to ultimately benefit consumers and patients.
With GDSN, high quality product content is uploaded, maintained, and shared automatically, ensuring trading partners have immediate access to the most current and complete information needed to exchange products on both local and global markets.
Any company that needs to send or receive product information can take advantage of GDSN by subscribing to a data pool.
Your data pool will enable you to set up your product content and synchronize it with all your trading partners, so you can plug in reliable data for all markets at one time. Please note that this chapter gives only a very brief introduction to a complex subject.

For more detailed information on the GDSN standards and processes, please refer to the **Knowledge Center on the GS1.org website http://www.gs1.org/gsmp/kc**

GDSN Choreography

A data supplier creates a trade item ("item") with the required master data ("item data") and sends it to his GDSN Source Data Pool (by 1WorldSync Publishing it to either an entire target market or to particular receivers). The item is registered within the Global Registry from the Source Data Pool and published to receivers (retailers) who have subscribed to this data.
A Retailer subscribes to the item data he wants to receive via his GDSN Recipient Data Pool. He can specify data by target market, GPC, information provider and/or GTIN.
Via the Global Registry this subscription is sent to the Source Data Pool that hosts this data.
The Source Data Pool then delivers the subscribed data to the Recipient Data Pool by CIN (Catalog Item Notification) messages.
The Retailer receives item data from there and can now check and synchronize it or ask for a revision by the supplier. Via the Recipient Data Pool, he sends a CIC (Catalog Item Confirmation) message to the Source Data Pool that is received by the Supplier, who then ensures the necessary steps are taken to correct and/or update the data.

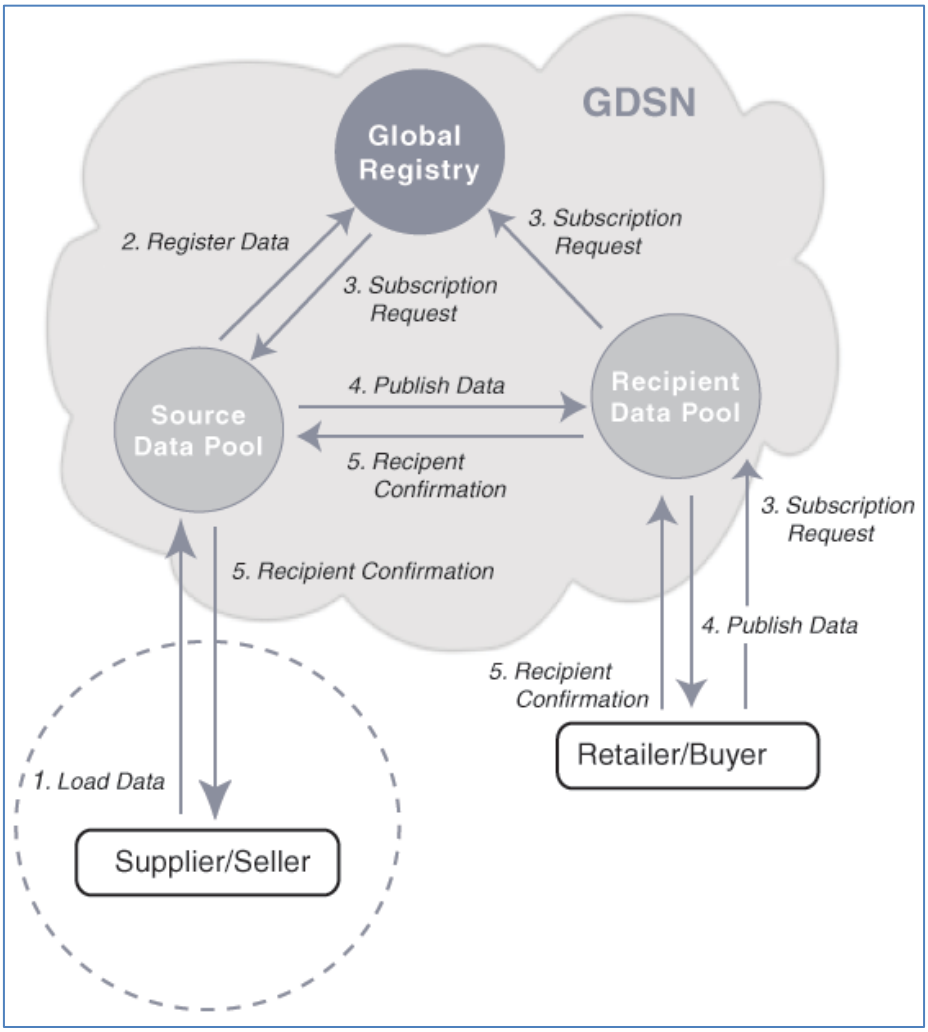


Figure 2: GDSN-Choreography

GDSN Messages

Below is an overview of the most relevant [1] types of messages within the triangle:

Type of message	Purpose	Sent by	Sent to
RCI, Registry Catalog Item	Registration of item data	Source Data Pool	Global Registry
CIP, Catalog Item Publication	Publication of items to target market or retailer(s)	Source Data Pool	Source Data Pool
CIS, Catalog Item Subscription	Subscription of item data	Recipient Data Pool	Global Registry
CIN, Catalog Item Notification	Notification of item modification or new items	Source Data Pool	Recipient Data Pool

[1] For a complete list please refer to the GDSN documentation that can be found at www.gs1.org/gdsn.
http://www.gs1.org/docs/gdsn/3.1/BMS_GDSN_Catalogue_Item_Sync_r3p1p0_i1_p0_p6_25Aug2015.pdf

CIC, Catalog Item Confirmation	Confirmation of items received	Recipient Data Pool	Source Data Pool
PSC, Price Synchronization Confirmation	Retailer confirmation in response to a price synchronization document (PSD).	Recipient Data Pool	Source Data Pool
PSD, Price Synchronization Document	Request for a Retailer Confirmation	Source Data Pool	Recipient Data Pool
RFCIN, Request for Catalog Item Notification	Request for data after synchronization has taken place	Recipient Data Pool	Source Data Pool
GS1 Response	are sent out as an acknowledgement of receipt for transactions that have been performed successfully. Contains both the positive and negative message. Replaces the EANUCCResponse and the GDSN Exception	Recipient Data Pool	Source Data Pool
Catalogue Item Hierarchy Withdrawal (CIHW)	Describes the requirements for efficiently withdrawing an item within the GDSN by reducing the data required in a trade item for processing a withdrawal	Source Data Pool	Recipient Data Pool

Help-Menu

Online Help Structure

The Online Help can be accessed by clicking on the question mark icon on the right-hand side of the menu bar:

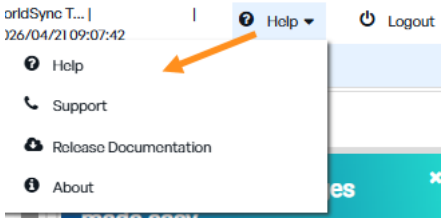


Figure 3: Help Button

The Help menu contains documentation describing the structure and function of the application.

Release Documentation

In addition, you can access useful "Release Documentation", such as code lists, etc., in the Help menu.

Help

After an introduction to the overall and basic handling of the user interface, the following functions are described:

How to:

- Search and find existing items using the search functions and search criteria.
- Create, maintain, edit, and validate items.
- Import (upload) and export items via Excel interface.
- Prepare and maintain templates as a base for the creation of new items.
- Release and publish item data.

Please note that the application is customized to meet individual customer requirements. This can result in a slightly different appearance of the UI, e.g., colors, logos, tab names. The screenshots in this document may not always reflect the UI 100%. The functionalities remain untouched.

Support & Resources

To provide help and support where questions arise, click on the Support item in the Customer area. You will be directed to the customer area where you will find appropriate help. If you have further questions, you can also contact the support team there.

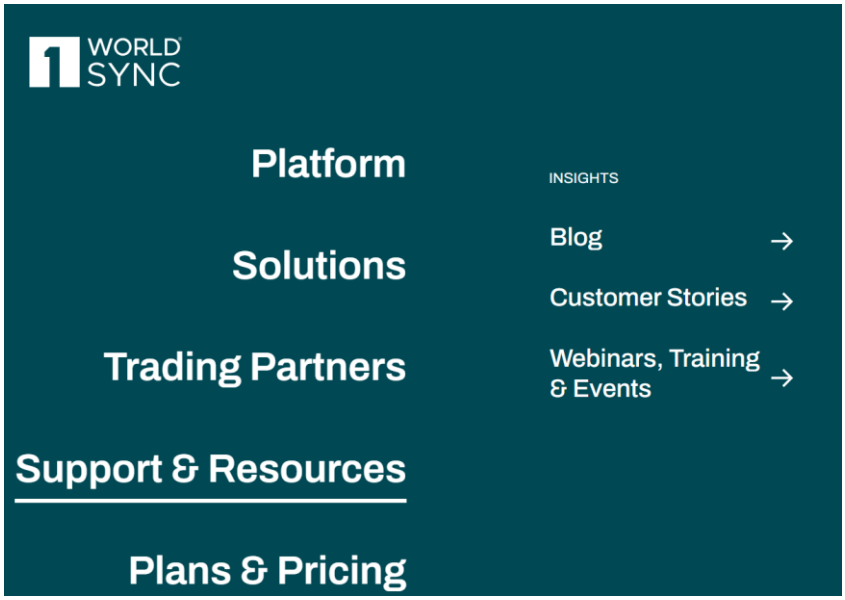


Figure 4: 1WorldSync FAQ-page

About

Technical Information about Software and Release Version.

System Requirements

Operating System	No restriction
Broadband internet connection	At least 1 MBit DSL
Browser (recommended)	Microsoft Edge Google Chrome
Browser (supported)	Microsoft Edge Mozilla Firefox IE11 (supported until August 2021)
JavaScript enabled	Required
Accept cookies	Required
Accept CSS	Required
Accept pop ups	Required
Allow images	Required
Screen resolution	Recommended: 1280*1024

Basic Handling - User Interface

This chapter explains the basic handling of 1WorldSync Publishing.
This refers to the login procedure, to the dashboard homepage with its menu and module structure, and to the screen structure of the item modules.
Also, some general control elements and widgets of the user interface, and standard functions like language and time zone setting, how to change the password, and the logout function are described here in detail.

Login - Logout

You access the application via your Web browser. Please enter your login data:



Figure 5: 1WorldSync Publishing Login Window

Username: Enter your username.
GLN: Enter your global location number (GLN).
Password: Enter your password.
The password is covered by asterisk characters and can be changed anytime. Click Login to start the process.

The password must meet the following requirements:

Minimum length: Twelve (12) characters
at least one upper and one lower case letter
at least one special character
at least one digit

Example: Welcome2023#

Below the login window you can get the latest information about the current release via several links (release notes, frequently asked questions and answers, support contact).

Logout
To exit the application, choose *Logout* from the menu bar.

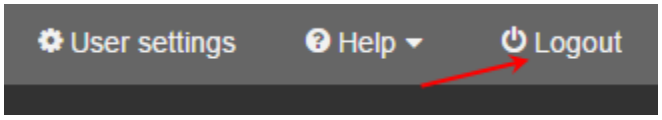


Figure 6: Logout function

Reset password

If you cannot remember your login data, the password can be reset.
Click the link *Password forgotten* in the login screen. You will then be taken to a new screen where you can enter your email address, username and GLN.

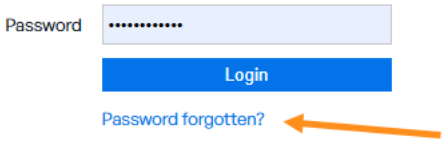


Figure 7: Reset Password function

Fill in the details and click *Reset password*. The new password will be sent to the email address entered.
Please note that the password must be changed when logging in for the first time.

Dashboard

After a successful login, the start tab with the Dashboard opens as your point of entry to the system. See screenshot below:

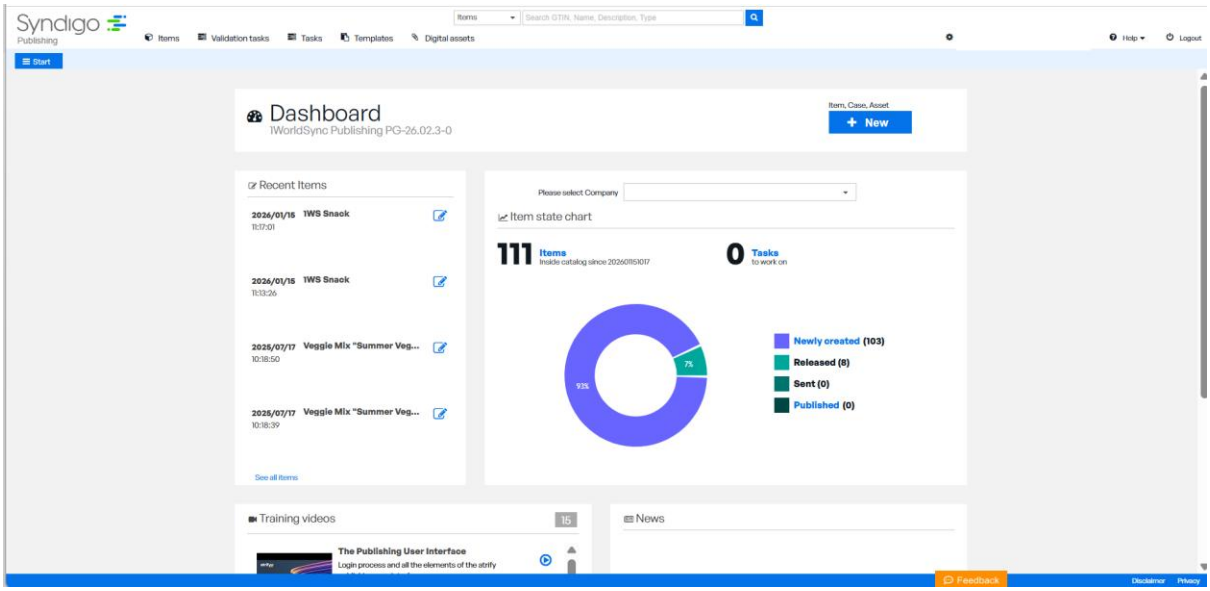


Figure 8: Publishing Dashboard

The dashboard provides a quick overview of the current status of your work. Here, on the one hand, the recently edited items, the number and the status regarding the publication of the items are displayed and on the other hand, the number of messages received by the data recipients, which require a revision of the published items.
The horizontal menu bar provides access to the following functions:



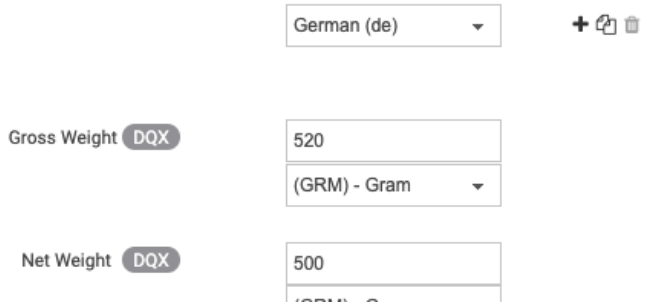
Figure 9: Dashboard, Menu bar

Dashboard - Item Summary on start page

The information displayed here provides you with a summary of the current status of your items. This tab remains open while editing your items.
Recent Items: Displays a view of the items last edited by the user. You can also edit these items from here.
Item State chart: displays an interactive graphical overview of the item states stored in the database. From here you can directly access the item list.
Training Videos: Find here several Training Videos with helpful demonstrations and information about working with 1WorldSync Publishing.
News: The Release Notes are displayed here. Find useful information about the latest Release versions.
Feedback: Feedback option to review our products.

DQX relevant attributes

A company that has registered for the GS1 DQX service GS1 Data Quality Excellence (DQX) can find details of the requirements on the GS1 Germany website:
https://www.gs1-germany.de/produkte-services/stammdaten/produktdatenmanagement/
DQX-relevant attributes are marked in the Publishing system. If an item is DQX-relevant, a label appears next to the attribute name.



Search function

On the upper part of the screen 1WorldSync Publishing offers a global search bar. By typing in search terms in this search bar, a search on items, tasks and templates can be started from anywhere inside the application, without switching tabs. It is possible to type in a GTIN or a text. The search is executed and gives the appropriate result.



Figure 10: Dashboard, Search Function

Item Creation Wizard

The "New" option contains a menu with the options Create Item, Upload Digital Assets (if included in your contract) or Start Mass Upload via Excel. If you click on the "NEW" button in the dashboard, a dialog will appear that guides you through the most important steps to create an item.



Figure 11: Dashboard, NEW-Option

The Item Creation Wizard appears at every point of the application where new versions of the item are created: Create item, create template, clone item, copy template, save as template, edit hierarchies, add packaging, and upload new Digital Assets.
The Item Creation Wizard is divided into three parts.

Enter Basic Information

The first step will ask you for the most necessary information on your new trade item. These are Global Trade Item Number, Global Location Number, Target Market and if the item is going to be a base item or a packaging item. The Item type can be classified with a Radio button.
The item creation wizard allows creating items based on an already saved template. In this case, the dialogue offers a checkbox "Use a template". If checked, an additional dropdown field "Template Name" appears to select the template. When selecting a template from this list, all remaining fields will be filled with values provided by this template. For further information go to section “Create an item using the template function” on page 102. The remaining item creation process can be continued.
Clicking on the *Select Recipients* link lets you preselect possible recipients for your item which will be considered in the publication dialogue later.

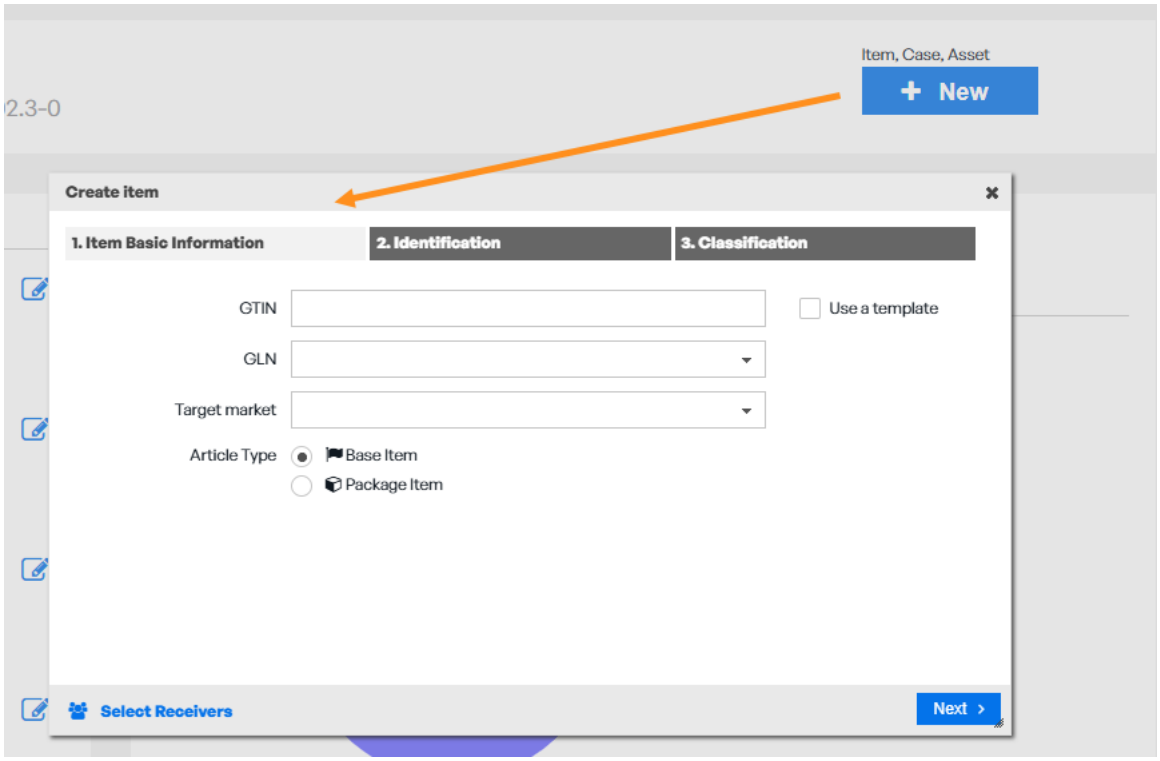


Figure 12: Creation Wizard, Item Basic Information

Often only EAN 13 codes are available instead of the GTIN. The system auto completes the field with the leading zero. A notification occurs, that the origin EAN 13 was enriched by an initial 0.

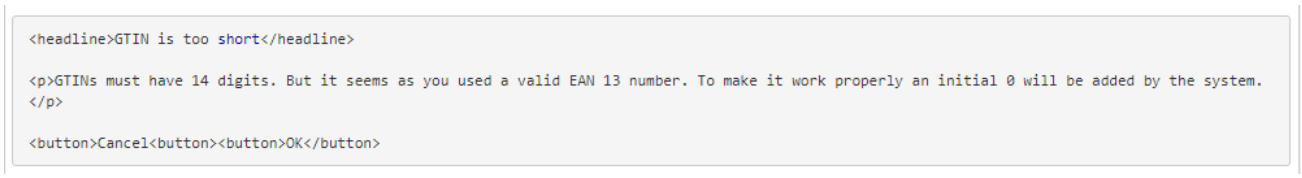


Figure 13: Creation Wizard, Notification EAN13

Item Identification

The second page offers the possibility to enter the most important information to identify the item. You can select a language offered in the dropdown box on the top and then fill in the attributes. As all these attributes are language dependent attributes, the selection of a language for the attributes is mandatory. Preselected language should be the language which will be used for the GPC prediction service. If more than one language is mandatory for the selected target market, the validation will highlight this.
The dialogue asks you about a short description of your item, a more detailed description, the brand name, and a functional name. For more information on the required entries, you can use the mouse and hover over the question mark, and you will get a help text in the form of a pop-up.

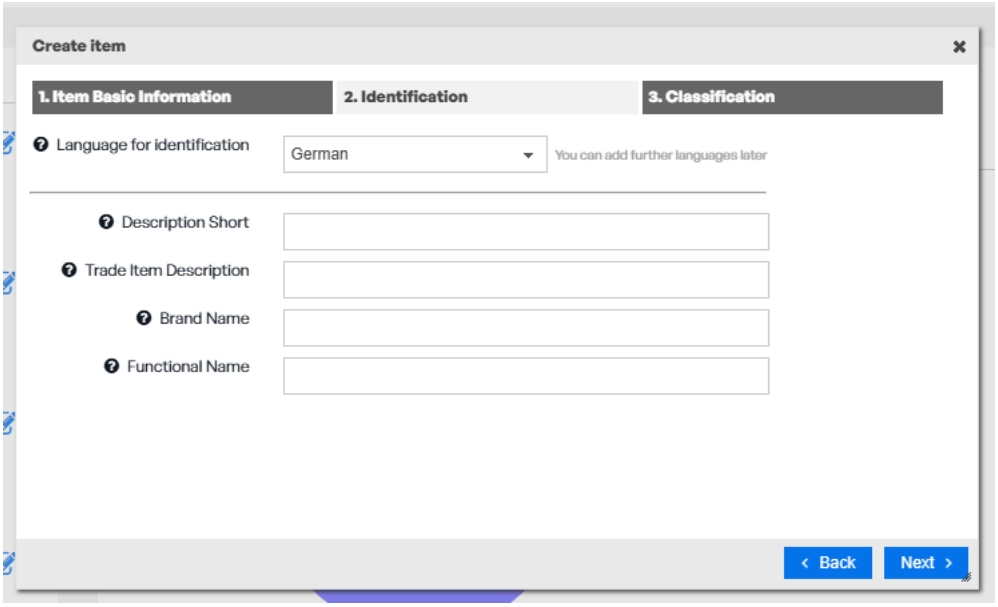


Figure 14: Creation Wizard, Identification

Entering information in these entry fields is not mandatory, but very helpful if you would like to get some suggestions for a matching GPC in the next step.

Select proper Classification

The third step is the selection of the Classification to classify the item. For each classification there is the possibility to make a manual selection by searching for a specific part of the classification. In general, you have two options here: Get predictions based on the item identification you have made in the previous step or manually select a GPC code. If the code is already known, it can be captured manually.
If you entered information in at least one input field of the previous step, you would get a list of suggestions on a matching GPC code including a percentage likelihood.
There is no global search field anymore, instead of that Segment, Family and Class are clearly arranged and can be searched individually. You can fill out one after another. By typing within the fields, you will do a search. Search results are always limited due to the selection made in the preceding field.
Filling out a field without its ancestor will result in showing more entries in the dropdown list. Selecting a value in this case will automatically fill out any empty ancestors.
The most important value, the GPC Brick code is visually separated and handled a little bit differently from the other fields. Initially the GPC Brick is limited due to the selections made in the preceding input fields, but if you do a search within the field by starting to type something you can search over the whole set of GPC Bricks. Selecting a brick code which has other parents (Segment, Family or Class) then selected will result in changing the preceding input fields properly.

Simply click the *Apply* button to select the suggested code and finish the wizard.

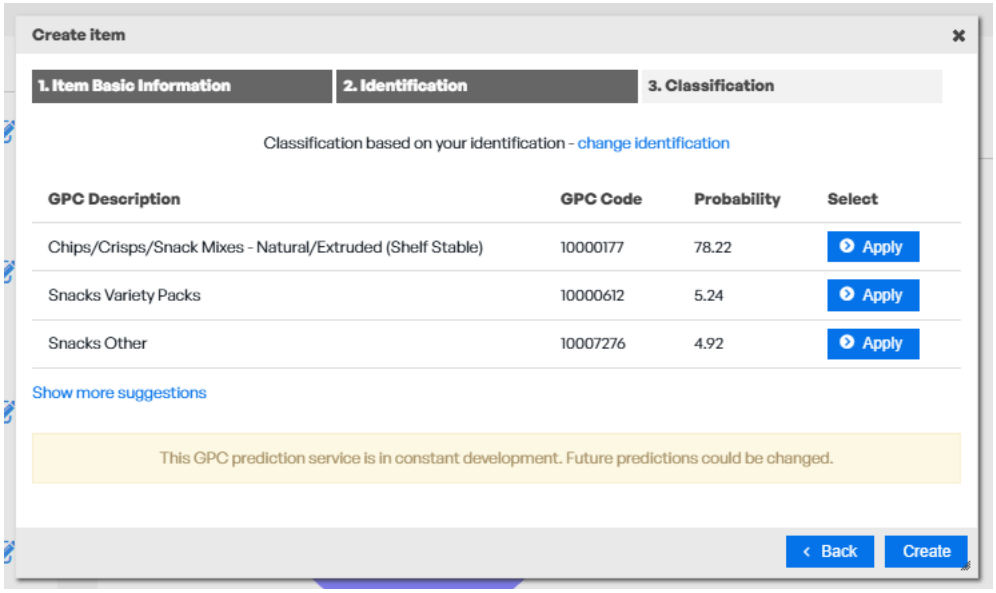


Figure 15: Creation Wizard, Classification

If you want to select a proper GPC code on your own or there is no matching code suggested, click on *show more suggestions*. With "Create" the item list created and the Code is taken over in the Item Editor.

Link Digital Assets

While items are being created with the Item Creation Wizard, existing digital assets can be linked to the item or new assets can be uploaded. To add the related Digital Assets to the item, click "Assets" in the widget on the right and upload an existing asset or add a new asset to the item.

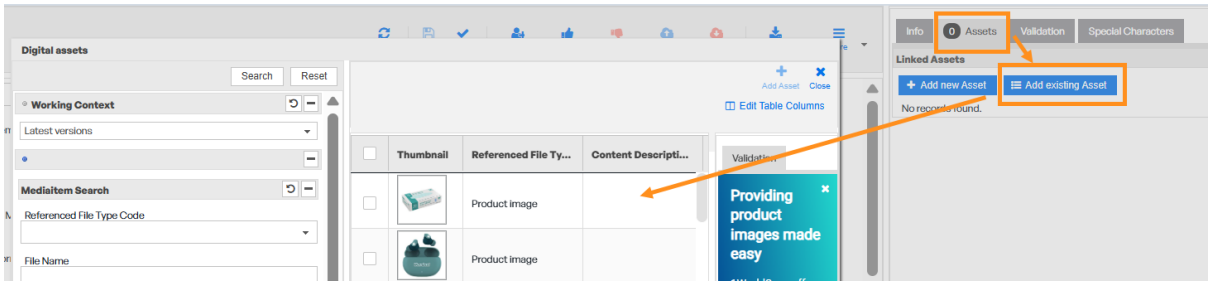


Figure 16: Creation Wizard, Link Digital Assets

Video Tutorials

Below the status information, various tutorial videos are offered for the application. These training materials provide you with clear insights and instructions on how to use this platform.

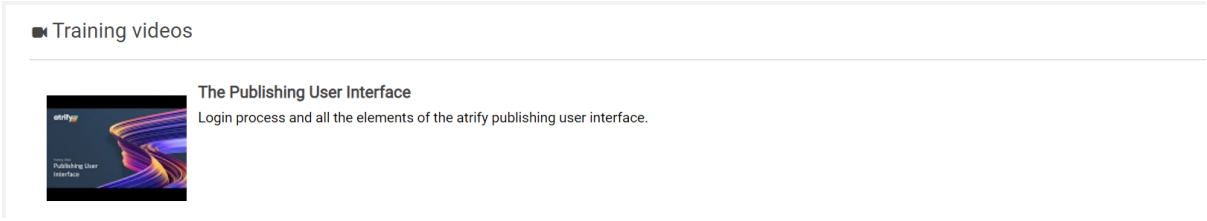


Figure 17: Dashboard, Video Tutorials

Menu Structure

From the menu bar you have access to all functions assigned to you by the administrator. The respective menu items will open in a separate tab when clicked.

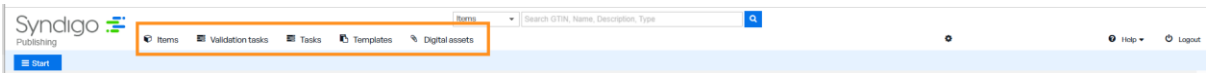


Figure 18: Menu bar

The standard functions, i.e., language or time zone setting, password change, and the logout function can be accessed from here as well.
The following functions are available to you for maintaining item data in the application:
Items: This is the main module of the application where new items are created or uploaded, and existing items are searched for and maintained (e.g., edited, deleted, validated, released, published, or downloaded etc.). The item list per default presents all items no matter which status they have.
Tasks: This list is restricted to published items for which a response with a 'To Do' status has been returned, e.g., a GS1 Response or a recipient confirmation (CIC = Catalogue Item Conformation) with status Review. This usually means a recipient retailer demands corrections or improvements to the received item data.
Templates: This is the area where new item templates can be created, and existing templates can be searched for and maintained. Templates contain item data that are common for many items. They are saved under a template name and the content defined as common in the template is then automatically populated when creating an item from a template. The templates listed can also include templates assigned to the supplier by the Community Admin.
Retailer Supplier ID/GLN: Define related retailer or supplier.
Digital Assets Management: Administrate Digital assets of your items.
User Management Module: Users of various participating companies can work with the same system while keeping their data protected from other users. What a user can do in the system is defined by the user himself and by his or her company.

User Settings: They include the Language Selection function, the Time Zone settings, Password administration as well as the timestamp of the last login of your user account.
Help: The Info menu provides access to several help topics as well as information on the product version. It explains elements and functions and describes typical work processes of the application.
Logout: Exiting the application.

Screen Structure of Module Area

Every function is opened in a separate tab. You can have several tabs open at the same time and switch between them. Several items or templates can be opened at the same time as well - each one displayed in its own tab. It is possible to switch between these items and templates.

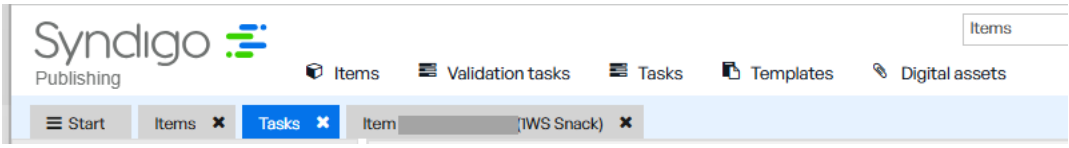


Figure 19: Tabs in the module area

Status line

The status line at the bottom of the screen provides information on Disclaimer and Privacy.

Display of functions

All available options are always visible as buttons on the function bar. Whether an option is active or not depends on the context (selection of items, status of items). Options that are not active are grayed out. See further information in section Hit List function Bar.
Buttons indicate the function in plain text in addition to the icon. The colors may differ depending on which profile is used. The buttons are grouped according to color:
Standard buttons: White background with borders
Workflow buttons: Solid background color
Warning buttons: Background in warning color, e.g., orange

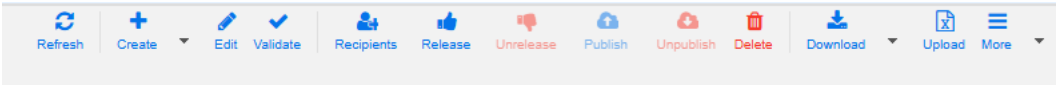


Figure 20: Function bar above the Hit List

General Control Elements and Widgets

You can change the size of the various areas of this screen. To do so, move the mouse pointer to the dividing line between the areas whose size you want to

change. When the mouse pointer changes, click, and hold the left mouse button down. Then pull the dividing line in the required direction.

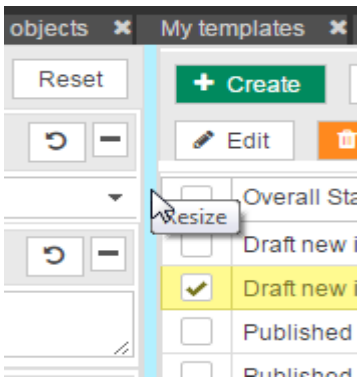


Figure 21: Separation line with mouse pointer icon

Widgets

The search section to the left of the item hit lists contains the search panel, that can be expanded and collapsed again by clicking the arrow icon. If not needed, you can hide the entire search with all widgets at once by clicking the double arrow icon in the function bar.

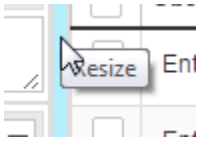


Figure 22: Arrow icon for expanding/collapsing widgets

If you click the arrow icon again, the area reopens.

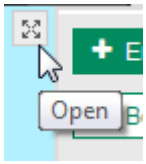


Figure 23: Arrow icon for expanding/collapsing widgets

Edit an Item without saving

An item that has not been saved after modification is marked with an asterisk in the tab title. Trying to close this item tab leads to a warning message shown below. Selecting 'Reject Changed' will revert the entry back to its original state.

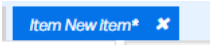


Figure 24: Unsaved item tab with asterisk in the tab title

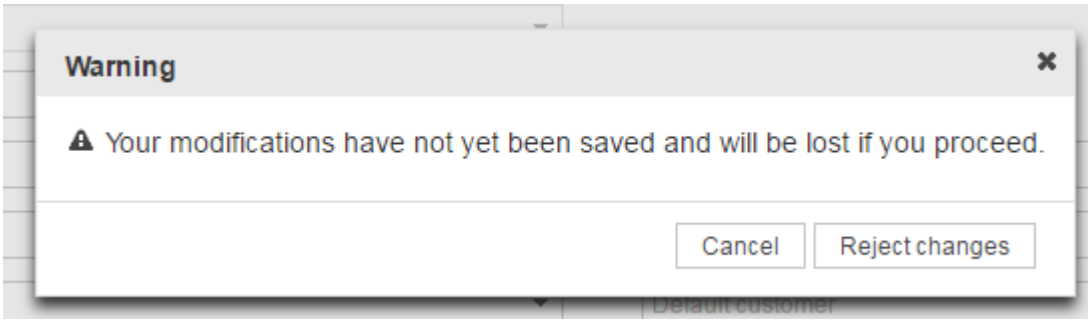


Figure 25: Warning message

Prevent closing the editor on unsaved changes

If changes or entries in the editor are not saved and the window is to be closed, a message appears.

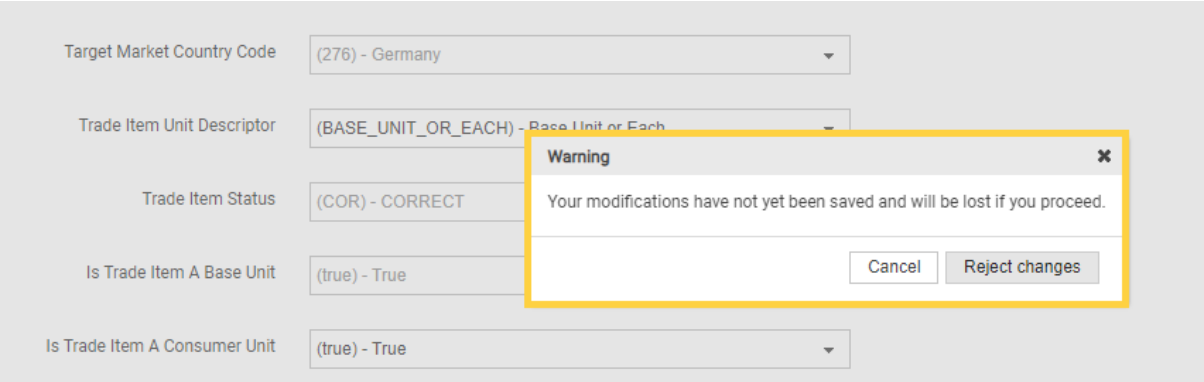


Figure 26: Warning message

User Settings

Set GUI Language

If your system supports more than one language, you can change the GUI language here.
Select the language you wish to switch to from the menu User Settings.

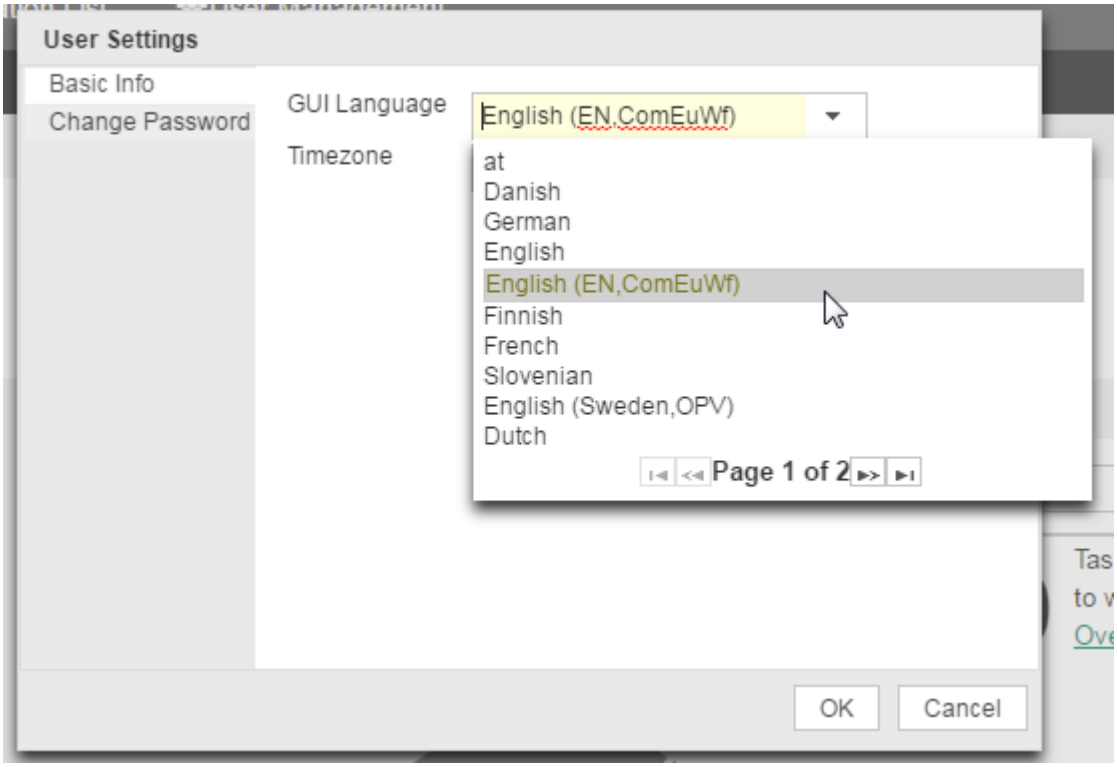


Figure 27: Set GUI language

Drop down for changing the language (example – available languages differ depending on customer requirements)
Please note that the language is switched with the next Login.

Set Time Zone

To change the time zone setting, select the User Settings Menu.



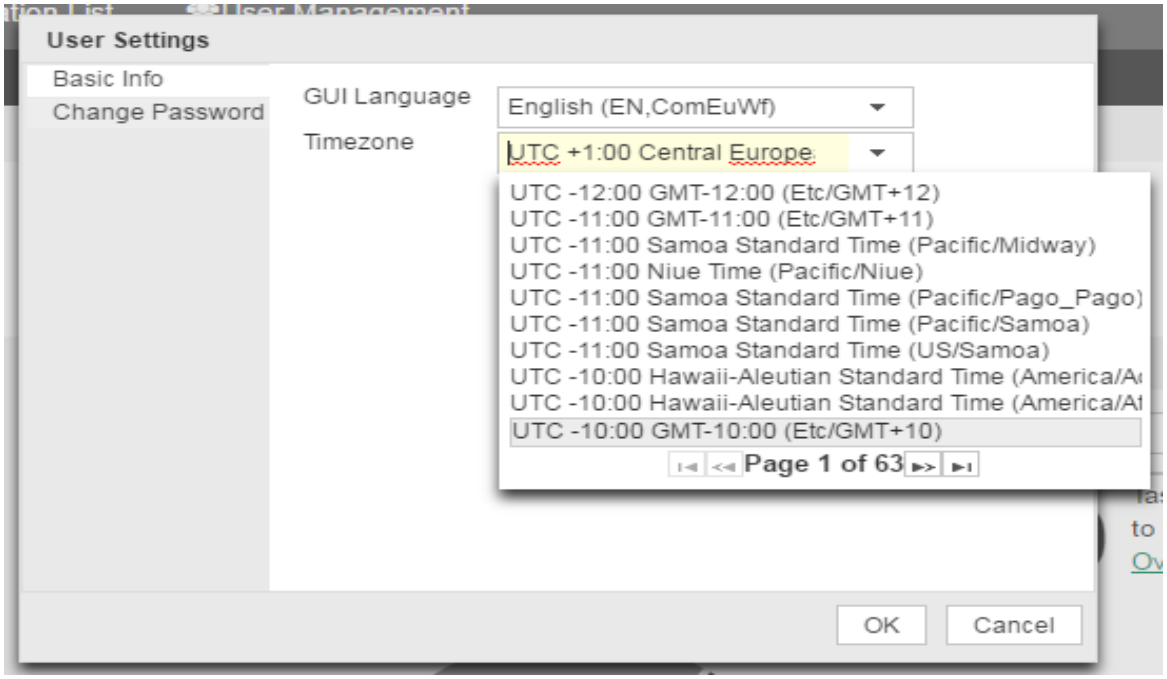


Figure 28: Time Zone Setting

Then open the drop-down list in the dialog shown below, select your time zone by clicking, and Save or Cancel.
Once the time zone is changed, all date and time information in the user interface will automatically be adjusted.

Dynamic User Interface (Dynamic UI)

A fruit/vegetable article does not need information for e.g., alcoholic products, cheese/milk, eggs, meat, fish, batteries, pharmaceuticals, cosmetics, healthcare, pet food, electrical and electronic waste (WEE), washing and hygiene articles and hazardous goods.
A clothes item or a refrigerator does not require information on e.g., nutritional values, ingredients, additives, and preparation.
With the Dynamic UI function, all attributes, attribute groups or entire GDSN modules that are not relevant for the product classification of the item can be hidden.
Advantage: Fewer flex bars, tabs, and fields, i.e., a tidy, clearer user interface.
Example for a FMCG Fruit and Vegetable Item before and after attribute reduction with reduced data for specific product groups.

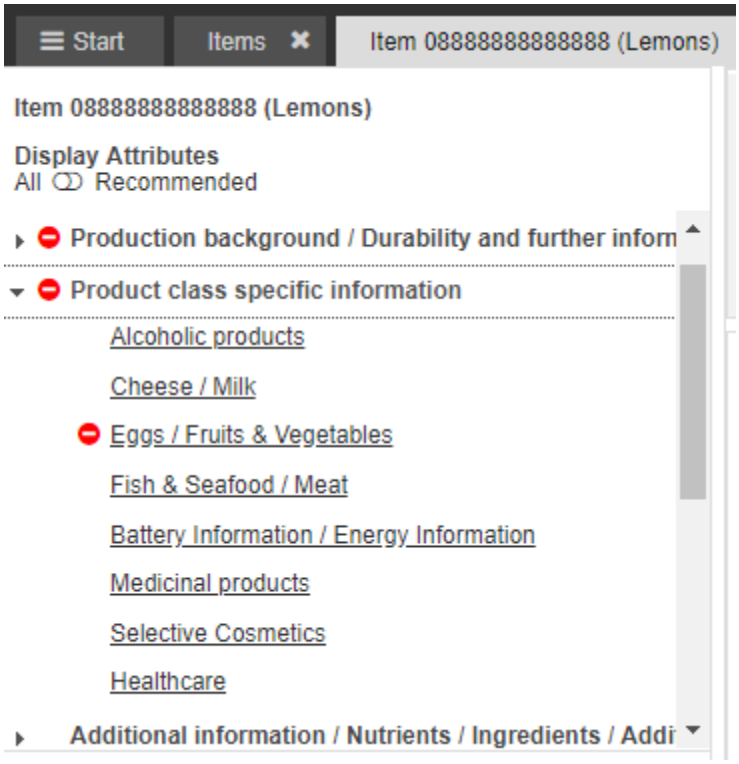


Figure 29: item before attribute reduction

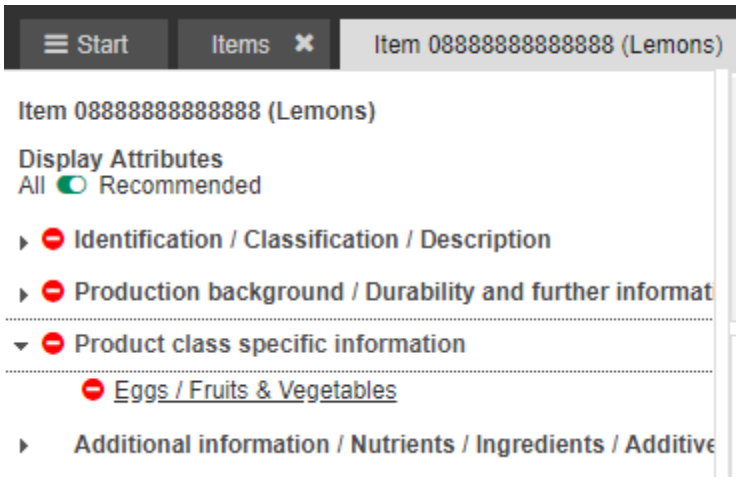


Figure 30: Item after attribute reduction

Dynamic UI enabled (yes/no)

Customers who want to take advantage of this need to activate attribute reduction (Dynamic UI) in the company administration Module for their GLN. The Dynamic UI switch then appears in the item display, with which you can switch the reduction on and off again at any time:

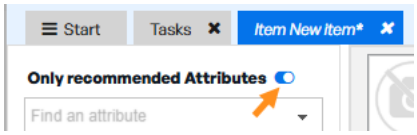


Figure 31: Switch Display Attributes

Above the navigation is a toggle key for selecting "Display Attributes (Recommended (Default) / All)". Switching to "Display Attributes All" displays complete navigation with all attributes.

Dynamic UI Configuration

Hiding attributes is based on the Global Product Classification (GPC) assigned to the item. It is structured hierarchically:

- Segment (total: 38 Segments)
  - Family-1
    - Class-1
      - Brick-1
      - Brick-2

Each element on each level has its own code. The brick code is specified for the product. This is a required entry, i.e., there cannot be an item in the pool that does not have a GPC brick code.
The delivered configuration of the Dynamic UI configuration defines which attributes are hidden for which bricks, classes, families, and segments in which target market.
1WorldSync Publishing provides a dynamic UI for default, which applies to all target markets and hides the GDSN modules not assigned to the respective context for all GPC codes of the GDSN business contexts according to GDSN specifications.
In addition, there is a Dynamic UI configuration for certain target markets, which contains many specially modulated attributes, which hides as many non-relevant attributes as possible for certain product groups.
For example, in the FMCG target markets DE and CH for food items (foodstuffs), the non-food information on pet food, batteries, pharmaceuticals, healthcare, hygiene, household detergents, cosmetics, caring products, pet food, waste electrical and electronic equipment (WEEE), non-food additives, etc. and, for the most part, hazardous goods and GHS are hidden. In addition, the attributes for alcoholic products, cheese/milk, eggs, meat, fish, fruit, and vegetables only appear for relevant product classifications. For non-food articles, all food information is hidden, and here, too, product group-relevant information only appears for the corresponding product classifications.
Notes regarding the Dynamic User Interface:

- Mandatory attributes are not hidden.
- Conditional mandatory attributes are not hidden or automatically redisplayed if the mandatory condition is fulfilled and saved.
- The fields that already have content are never hidden.
- Hidden attributes have not disappeared. They can be displayed again at any time with a single mouse click on the Dynamic UI button (see figure above).

- Hiding attributes by 1WorldSync does not mean that nothing should be specified there. This decision remains the responsibility of the data provider.
  It is possible that attributes are hidden because they are only used for a few items in the pool, or it is not clear from the description of the product classification whether these fields are relevant there (for example, for battery and dangerous goods specifications).
- If, for example, you are missing the dangerous goods attributes for a product classification, simply show them again by using the Dynamic UI switch.
- The Dynamic UI does not affect the Excel export.

Change Password

To change your password, simply access the Change Password option in the User Settings.

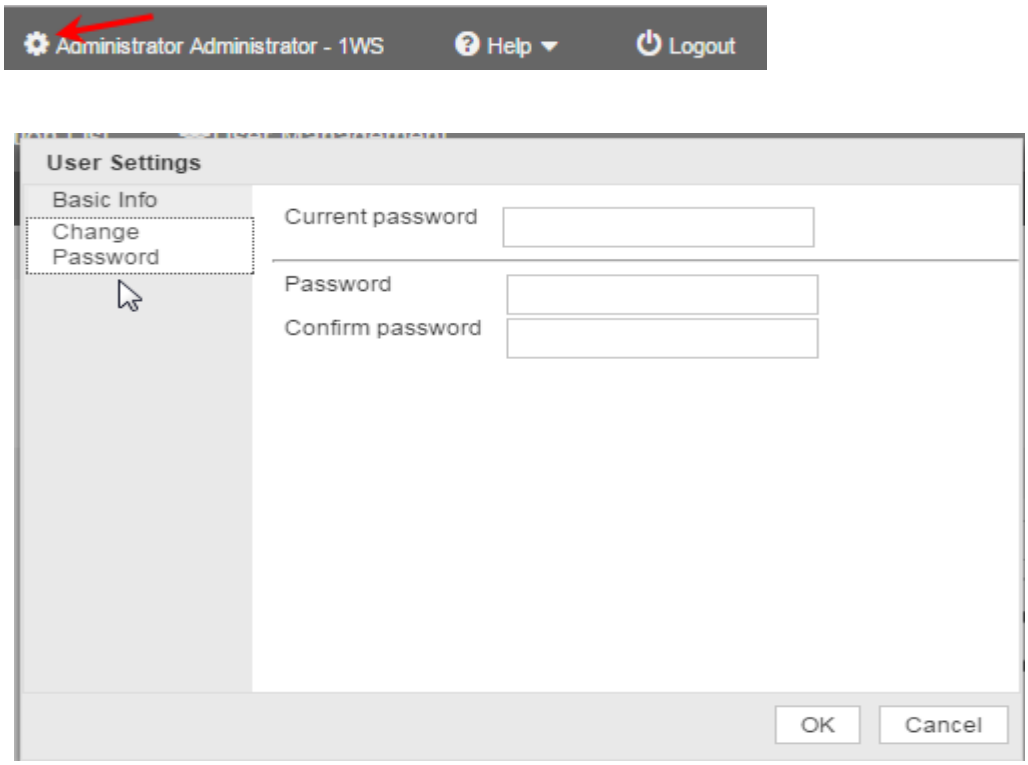


Figure 32: Option Change Password

In the respective fields enter your current password, then enter and confirm the new password.
Click OK to save the new password. It will be valid from the next log in.
Clicking Cancel closes the dialogue without changing the password.
The new password must meet the following requirements:

- It must have at least five characters.

- It can contain any alphanumeric characters. Passwords are case sensitive. You can use letters A to Z/a to z and the numbers 0 to 9.
- The following non-alphanumeric characters are allowed: ~!@#$%^&*_-+=` | \(){}[]:;'"<>,.?/
- The new password must be different to the previous password.

Items

When you access the application for the first time, all items are displayed. The latest versions of the items will be shown sorted by the 'Last versions' option by default. In order to reduce the number of displayed hits, you can carry out a search or use other selection options. Proceed as described in the section 'Search and find Items' to do this.
The entry screen of the item list consists of three areas (see Figure 35: Structure of the Items Module):

1) Area showing the various selection and search components.
2) Hit list area, showing the items found and a function bar above the list of items.
3) The key combination Ctrl + right arrow key toggles an info panel with various tabs containing tutorial videos, publications, validation reports, an article preview as well as a CIC summary and an exceptions overview.

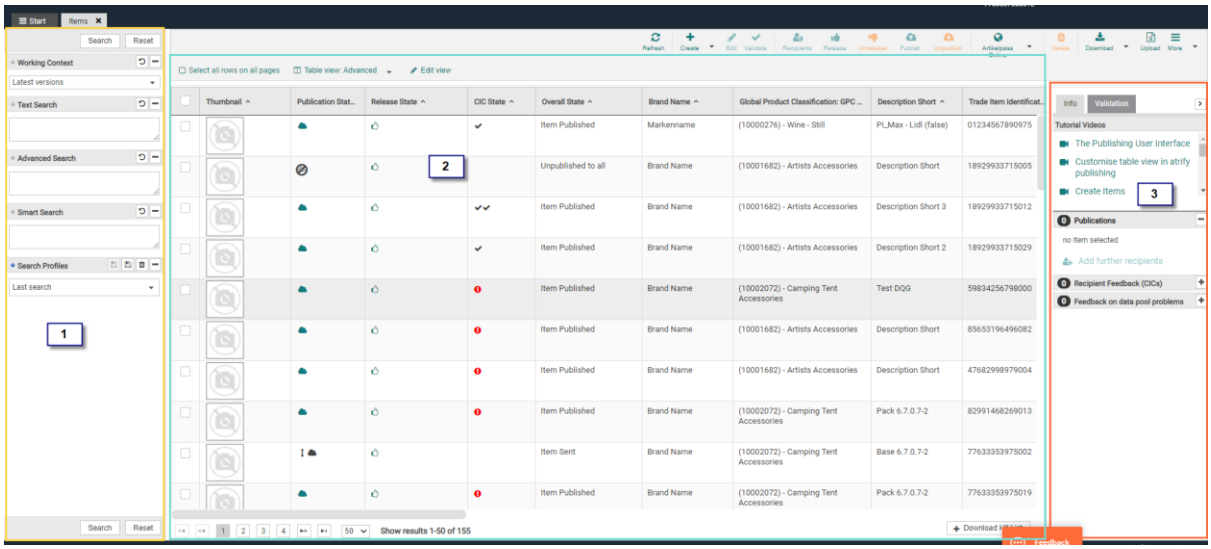


Figure 33: Structure of the Item Module

Selection and Search Components

The left-hand area of the module (see Figure 35: Structure of the Items Module) allows you to use search and filter criteria to affect the selection of items. The selected criteria take effect on the items displayed in the hit list and supplier item details as soon as you click *Search*.

- Search
  - The text search will be available in the top navigation to allow the users to perform searches from every module they are working on.
- Item list
  - An optimized column selector gives users a flexible approach on how to customize their item overview

This area gives you various options for finding items:

- You can restrict the item search to items with a specific release status.
- You can use the Text Search function.
- You can also carry out a structured search in attributes (Advanced Search function).
- You can restrict the item search using status filters in the Smart Search area.
- You can use an existing search profile.
- You can find an item starting from the task list.

Execute a search

Once you have defined all required restrictions and search criteria, click *Search* in the title bar or footer of the search and selection conditions area or press *Enter*.
The search is carried out with the selection conditions defined. This means that the results only show items that meet the defined criteria.
A blue icon in the title bar indicates whether a search restriction has been defined in a widget. This allows you to see where you have defined search criteria. If no selection conditions have been defined in a widget, the icon is grayed out.

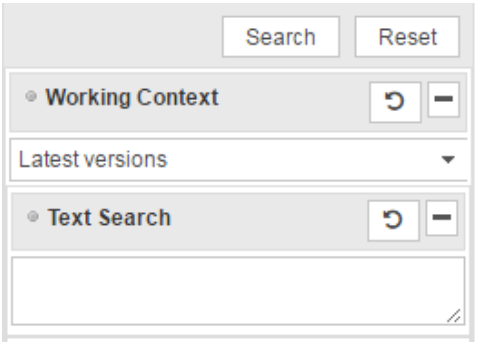


Figure 34: Widget with search restriction

You can reset the search restrictions made in each widget using the *Reset* option.

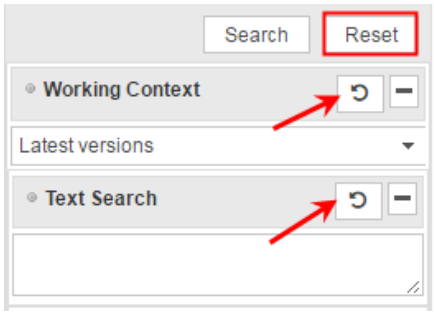


Figure 35: Reset option

You can also combine these widgets to one complex search profile, i.e. you could enter search/filter criteria in two, three or all four widgets, in order to search for items that match all these filter criteria at once.

Save search profiles

The last search executed here before leaving the hit list will automatically be used next time you enter it.
Search profiles can also be permanently saved and reused any time later on. This is the purpose of the fifth widget Search Profiles at the bottom of the search area. (See the respective sub section below.)

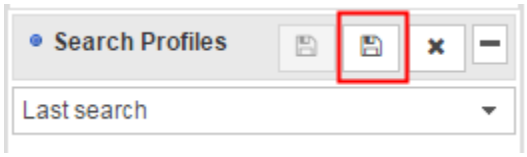


Figure 36: Save Search Profiles

Find Items in a specific Working Context

In 1WorldSync Publishing you can reduce the number of items that are displayed in the hit list via the release status of items.

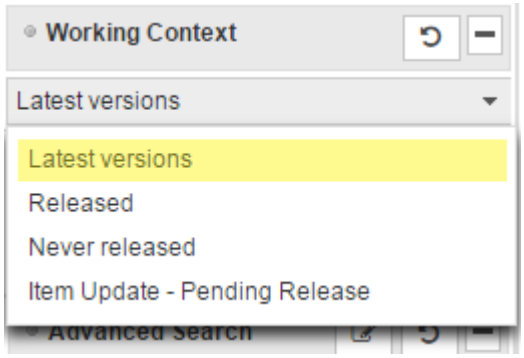


Figure 37: Working Context area in the area for search and selection components

The following possible selections are available in the Working Context widget:

Latest Versions: All items belonging to the GLN of the user are displayed. The hit list shows items of the most recent revision regardless of whether this revision is released, published or a working version.
Note: The hit list will be sorted in this Working Context by default. It is recommended to carry out all updates and data maintenance from the 'Latest Versions' Context to ensure only up-to-date items will be displayed for the user.
Released: Selecting this working context shows all items belonging to the user's GLN(s), where a released revision exists. The attribute values shown in the list are the released revision attribute values.
Note: For this working context, an item with a 'pending Release' has been released. Only the released version with its attribute values are available in this context.
Never Released: All items that belong to the GLN of the user and that do not yet have a released revision are displayed. The hit list shows the attribute values of the working version (most recent version).
Item Update – Pending Release: Selecting this working context shows all items belonging to the user's GLN(s), which do have a released version and a (latest) working revision. The attribute values shown in the list are the working (latest) revision attribute values.

Find Items with the Text Search Function

The text search is available in the top navigation to allow the users to perform searches from every module they are working on.
Within the hit list, you can search for items that you want to edit or copy. To do so, use the search function in the Text Search widget.

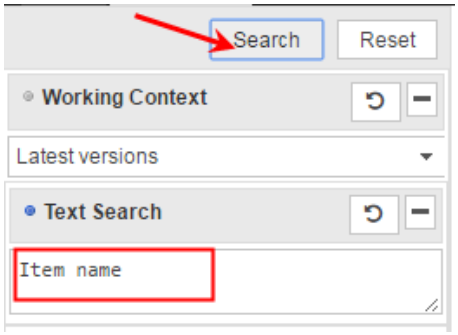


Figure 38: Search and selection components area – Text Search

In the Text Search input field, enter one or more search terms. Your search terms must consist of alphanumeric characters.
You can restrict the number of items displayed in the hit list by using wildcards and logical operators. The following table gives you an overview of ways in which you can restrict the search. The entered search terms are shown in square brackets ([]) in the examples.

Search for a word	If you enter a single word as a search term, the system finds all items that contain this word as an attribute value. A search for [shelf] finds all items that contain "wall shelf", "pine wall shelf", and "red wall shelf", for example.
Search for more than one word	If you enter more than one word (separated by spaces) as search terms, the system finds all items that contain at least one of the words you entered. A search for [pine wall shelf] finds items with the attribute value "wall shelf", "pine", "red wall shelf", and "pine wall shelf", for example.
[*]	You can use the wildcard [*] when entering search terms. The asterisk represents any string of characters. The search term [b*k] finds "book", "back", "bark", and "buck", for example. You can use a placeholder at the beginning, in the middle and at the end of a search term. [b*k] and [book*] are allowed.
[+]	The search connector [+] connects search terms using an AND relationship, thus specifying that all entered terms must occur in an attribute value in order for the item in question to be included in the search results. You can use wildcards and search connectors together. The search queries [wall shelf +pine] and [wal* +pine] find all items with the attribute value [pine wall shelf]. Note that you cannot use a [+] sign at the start of a search term. The search ignores this type of search term. Search terms restricted using [+] must always relate to a preceding search term.

If necessary, define further restrictions for the search. Then click Search.
The search is carried out using the defined search criteria. This means that the results only show items that meet the search criteria and the visibility conditions defined for the user.

Find items with the Advanced Search Function

In addition to the Quick Search function, 1WorldSync Publishing allows you to carry out a structured search with advanced search criteria.
When using the Advanced Search function, you can define which values certain attributes must have in order for items with those attributes to be included in the hit list. This allows you to form a set of search criteria. You can view the restrictions defined using the Advanced Search functions if necessary. You can carry out an ad-hoc structured search or save the selected search criteria as a search profile and make this profile accessible to other users.
Free Text Search now allows us to find partial text phrases and is not requesting the full text phrase for the search. Note: This search is not case sensitive.

Define search criteria for an Advanced search

The Advanced Search offers the possibility to select one or more attributes and limit the hit list result to match only the given values for these attributes. It is possible to combine desired attribute values for your search with both AND and OR operators. For this purpose, the search dialogue has been divided into two sections: The first section covers all criteria that must match in all cases (AND) and the second section collects some criteria where at least one must match (OR).
Proceed as follows to define the search criteria for an advanced search:
In the Advanced Search widget, click the *Edit* icon.

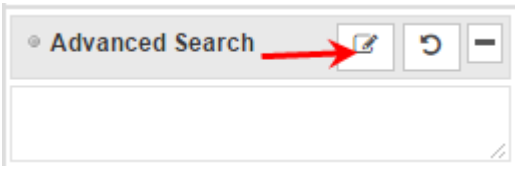


Figure 39: Edit option in Advanced Search Widget

The form for defining search criteria opens.

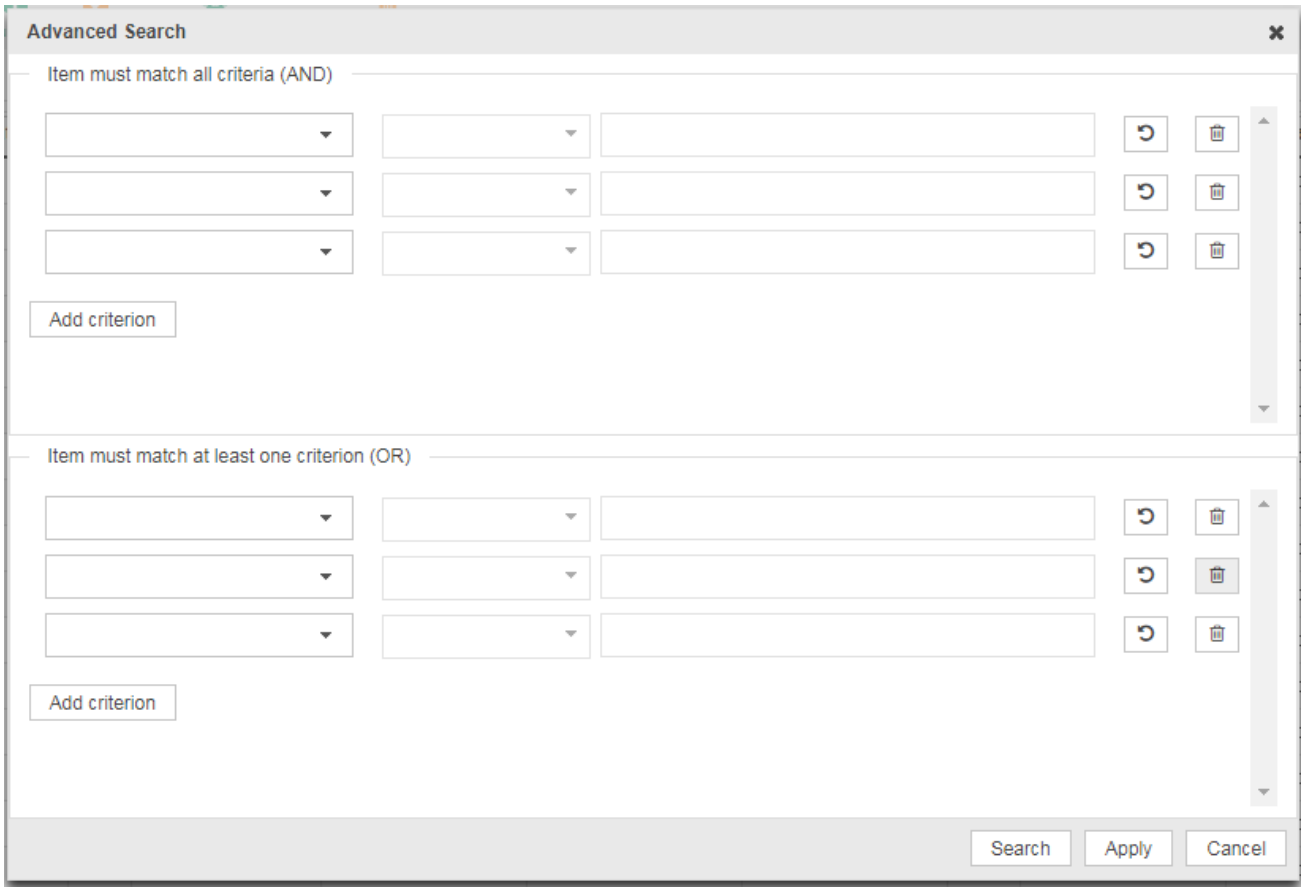


Figure 40: Defining Search Criteria

Define the search criteria for the attributes. To do so, select the required attribute from the dropdown boxes and then, in the input field, enter the value. You can restrict the list of attributes shown in the dropdown box by entering the name of the attribute or part of its name as a search term in the search field.
Button Search: A Query is performed
Button Apply: the search criteria are adopted but the search not yet performed
Button Cancel: the Advanced Search Dialog is cancelled
There are the following types of search criteria:

Search criterion	Description
Contains	The attribute contains the entered value.
Does Not Contain	The attribute can contain no value or any value other than the entered value.
Equals	The attribute value is exactly the entered value. Note that in the case of attributes of the type Boolean, the value "true" should be entered here. The value "false" should not be used for this search criterion, since in this case items for which the attribute is not set would not be found.
Does not equal	The attribute can have no value or any value other than the entered value. Note that in the case of attributes of the type Boolean, the value "true" should be entered here. The value "false" should not be used for this search criterion, since in this case items for which the attribute is not set would not be found.
Empty	The attribute has no value.
Not Empty	The attribute is not empty, i.e. it has a value.
From - To	The attribute value lies within the range defined by the two entered values. If the search criterion "From"-"To" is chosen, two input fields are shown where you can enter the values for the range. In the case of numerical attributes, the comparison is carried out on a numerical basis; in all other cases, the comparison is alphanumeric. Example for an attribute of the type Identifier: A search for "From" = "a" and "To" = "h" (or "A"-"H") finds all values between those that start with "a" and those that start with "h". Example for an attribute of the type GTIN: The search finds all values that are greater than or equal to the entered "From" value and smaller than or equal to the entered "To" value: The search criterion "From" = "10000000" and "To" = "20000000" would find all GTINs from 10000000 to 29999999; the search

	criterion "From" = "401234500000" and "To" ="4012345999999" would find all GTINs with the stem "4012345", e.g. "4012345000009".
Begins With	The attribute value begins with the entered value.
Does Not Begin With	The attribute has no value, or the attribute value does not begin with the entered value.
Ends With	The attribute value ends with the entered value.
Does Not End With	The attribute has no value, or the attribute value does not end with the entered value.

You can define multiple search criteria for an attribute: To do so, choose the required attribute (e.g. "Product Variant Description") in multiple dropdown boxes and give each one a value ("red", "green", and "blue"). The hit list then displays all items that have one of these values ("red", "green", or "blue") for the attribute in question. Make sure that the option Item must match at least one criterion (OR) is selected.
Make sure that you enter the attribute values in the correct format. This depends on the attribute type of the selected attribute:

Attribute Type	Search Criteria	Format
Number	Contains, Does Not Contain, Equals, Does Not Equal, Empty, Not Empty, From-To, Begins With, Does Not Begin With	Digits with a maximum of one decimal point
Date	Equals, Does Not Equal, Empty, Not Empty, From-To	YYYY-MM-DD
Date-Time	Equals, Does Not Equal, Empty, Not Empty, From-To	YYYY-MM-DD hhmm
GTIN	Contains, Does Not Contain, Equals, Does Not Equal, Empty, Not Empty, From-To, Begins With, Does Not Begin With, Ends With, Does Not End With	Digits
Text	Contains, Does Not Contain, Equals, Does Not Equal, Empty, Not Empty, Begins With, Does Not Begin With, Ends With, Does Not End With	Alphanumeric characters
Enumeration Type	Equals, Does Not Equal, Empty, Not Empty	System name

Add further search criteria and remove search criteria

The number of search criteria in the Advanced Search area can be defined freely:
You can use the Add criterion option to add further search criteria. Each time you click this option, a new line with selection and input fields is generated; you can use each new line to define search criteria for the attributes.
You can use the Remove option - provided for each line - to remove existing search criteria.

Combine search criteria

Define how you want the specified search criteria for the attributes to be evaluated. You can combine the search criteria with AND or OR. The selection applies to all criteria defined in the Advanced Search area.

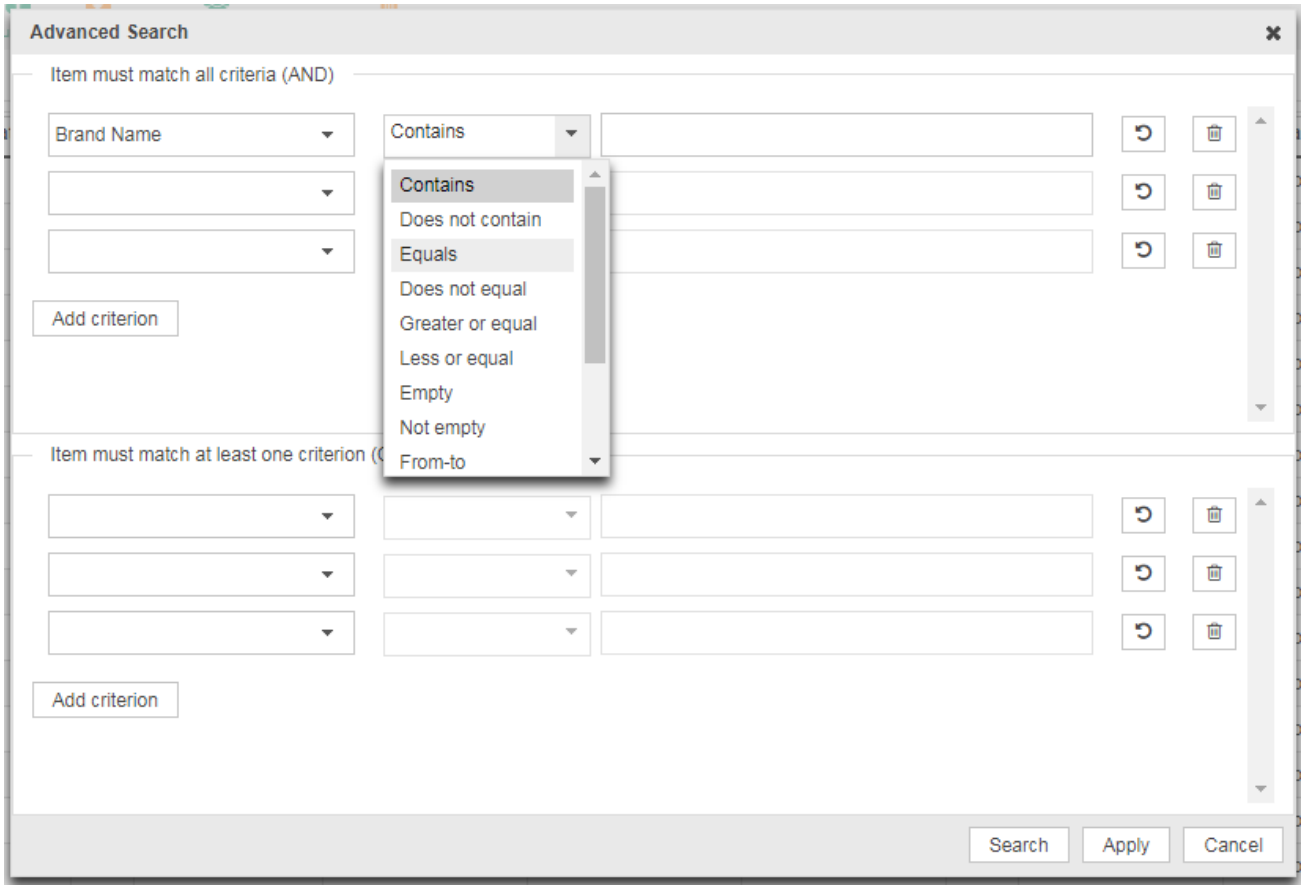


Figure 41: Combining search criteria

Exit the advanced search.
You now have the following options for completing the operation.
Click *Search* if you want to use the search criteria to restrict the hit list straight away and immediately obtain a search result.
Click *Apply* to return to the hit list without executing an immediate search and can add more search criteria using the Quick search or the Smart search.

The search criteria you defined are now displayed in the Advanced Search widget on the left side (read-only mode). Click Cancel to abort the advanced search and immediately get back to the hit list.
Delete all search criteria for the advanced search
To delete an advanced search along with all defined search criteria, proceed as follows:
In the Advanced Search widget, click the Reset icon. The search criteria are deleted and the field with the search criteria is now empty.

Find Items with the Smart Search Function

You can restrict the hit list by means of a predefined search (Smart Search Function).
To define the search criteria for a smart search, proceed as follows.
In the Smart Search widget, click the *Edit* icon.

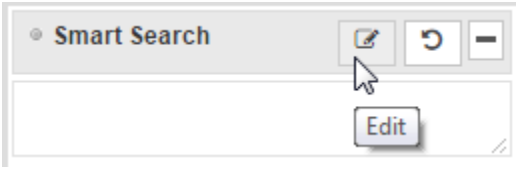


Figure 42: Edit option in Smart Search widget

The form for defining search criteria opens.

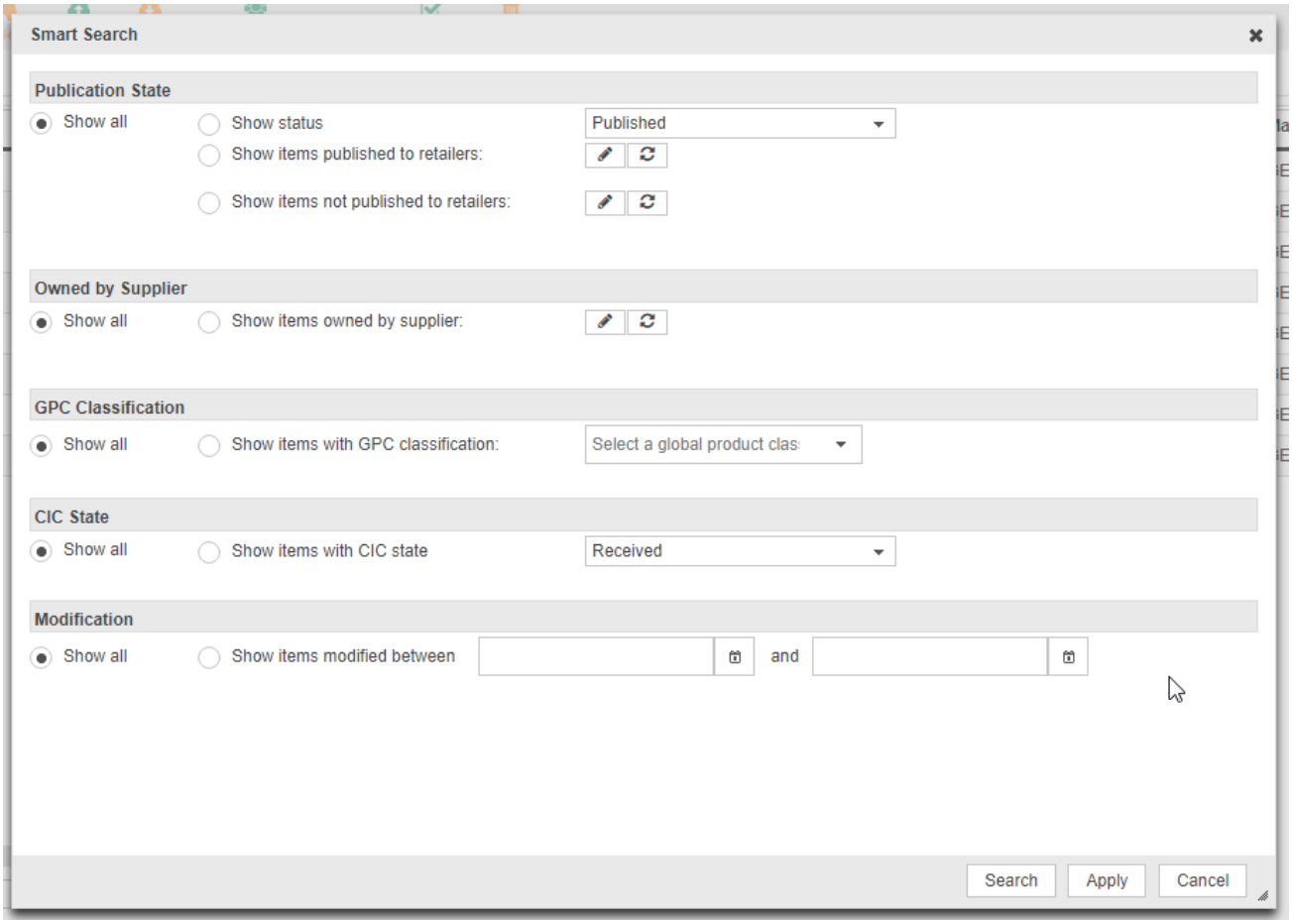


Figure 43: Smart Search

There are the following types of search criteria:

- You can display Items with or without prices
- You can display all items with a specific **publication status** (Published, Sent, Not Sent) by selecting the required entry in the dropdown box.
- You can display all published items for one or more **retailers** with the Edit function. A search dialogue opens where you can select the required retailers. You can use the Reset option to clear your selection.
- You can display all items not published to retailers.
- You can display items owned by a supplier.
- You can display all items with a specific **GPC** (global product classification)
- You can display all items with a specific **CIC status** (Received, Synchronized, Review, Rejected).
- You can display all items that were edited within a certain **period**. Type in the dates or use the calendar function to select the start and end dates of the period. If you do not enter an end date, all items changed since the entered start date are displayed.

- You can combine each search criteria with AND. Simply set your marks on the correct radio options and you are able to search e.g. for all published items to a specific retailer which have CIC state Received.

You now have the following options for completing the operation.
Use the *Apply* option to use the defined search criteria to restrict the hit list.
Click Cancel to return to the hit list without saving the changes.
The defined search restrictions are now displayed in the Smart Search widget (read-only mode).



Figure 44: Results of search restrictions for a smart search

To delete a smart search along with the defined search criteria, proceed as follows:

In the Smart Search widget, click the Reset icon.
The search criteria are deleted and the field with the search criteria is now empty.

Find Items with Search Profiles

You can use search profiles to save defined search settings in order to use them for future searches.

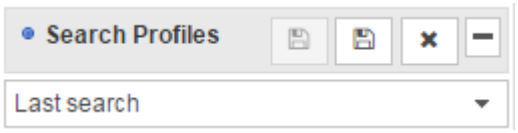


Figure 45: Search Profiles widget

Create a search profile

To create a new search profile, proceed as follows:
Define the required search settings in the selection and search components area. Click Save in the Search Profiles widget. In the dialogue box that is now open, enter a name for the new search profile. Complete the operation by clicking Save. Click Cancel if you want to return to the hit list without creating a new search profile.

Change a search profile

To change an existing search profile, proceed as follows:

From the dropdown list, select the required search profile. Change the search settings or create new search settings for the selected search profile. Then either click the Save or the Save as option within the function bar of the Search Profiles widget. This option is only active once you have changed the search settings for the search profile. The changes are saved in the search profile you selected previously.

Delete a search profile

To delete a search profile, proceed as follows:
From the dropdown list, select the required search profile. Click the *Remove* option.
Confirm the safety prompt that now appears. Click *Cancel* if you want to return to the hit list without deleting the search profile. The search profile is deleted from the list.

Apply an existing Search Profile

To apply an existing search profile, proceed as follows:
Select the required search profile from the dropdown box of existing search profiles. The search settings for this search profile are now loaded. Then execute the search by clicking the Search button.

Item List

The item list can be customized according to preferences. The item list shows a hit list of the item data contained.

Structure of the Item list

The item data belonging to the Supplier GLN is displayed by default providing you with a quick view of key and status information of the selected item including thumbnails of the linked Digital Assets.
The symbols in the columns: publication status, CIC status and release status have tooltips when you move the mouse over them.
Multiple images can be linked to an item (e.g., different views of the product) but only one image can be defined as the primary image. The image that is specified as the primary image is displayed as a thumbnail on the item list.

Several functions such as editing, or 1WorldSync Publishing items can be performed directly by selecting the icons from the function bar. This section describes how to work with the hit list. It deals with the structure of the module, its basic functions, and the control elements used in various use cases.

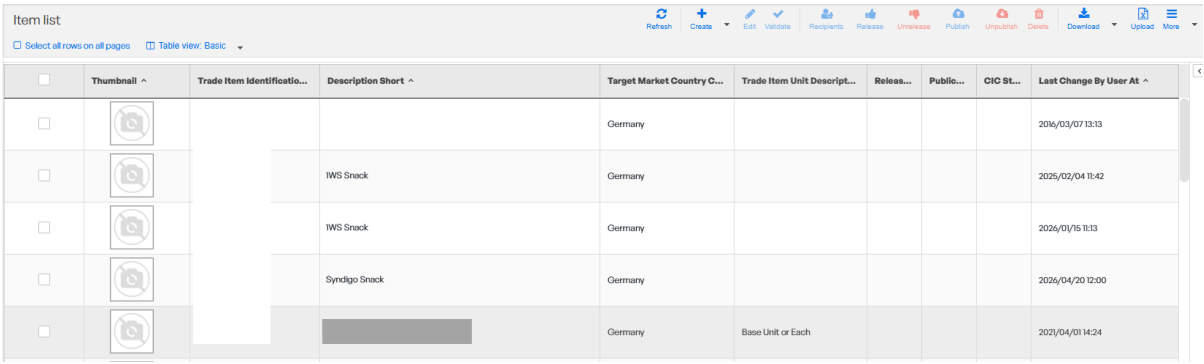


Figure 46: Hit List/Item List

Download Hit Lists

All hit lists in 1WorldSync Publishing can be downloaded as a CSV file. This means the content of a displayed hit list. To do so, press the button "Download Hit List"

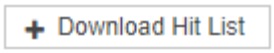


Figure 47: Hit List download function

The downloaded list will be saved as an Excel file.

Configurable CSV Reports

You can build your own list of attributes which you want to extract in the form of a CSV and then download it from the hit list.
But as a supplier you can also benefit from pre-defined reports which can be provided by e.g., a community administrator.
The functionality can be found within the export menu of the item hit list.

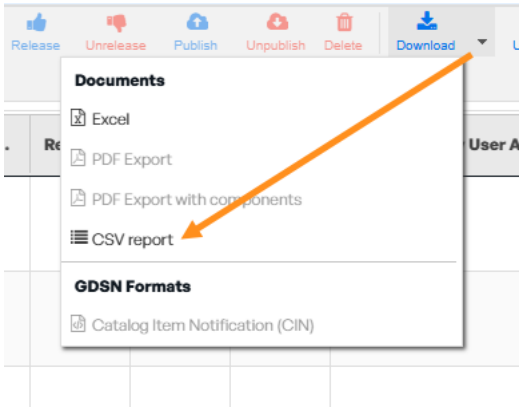


Figure 48: Download CSV-Report

When selecting the option *Download CSV Report* a dialogue will open providing a list of all reports which are available. These are your own reports plus any provided reports from a community admin.

You can add new reports by clicking the appropriate button. The workflow of configuring a custom report is the same as configuring table columns for the hit list, except the fact that you have a far bigger selection of attributes to choose from.
The attributes can be filtered in the search line.

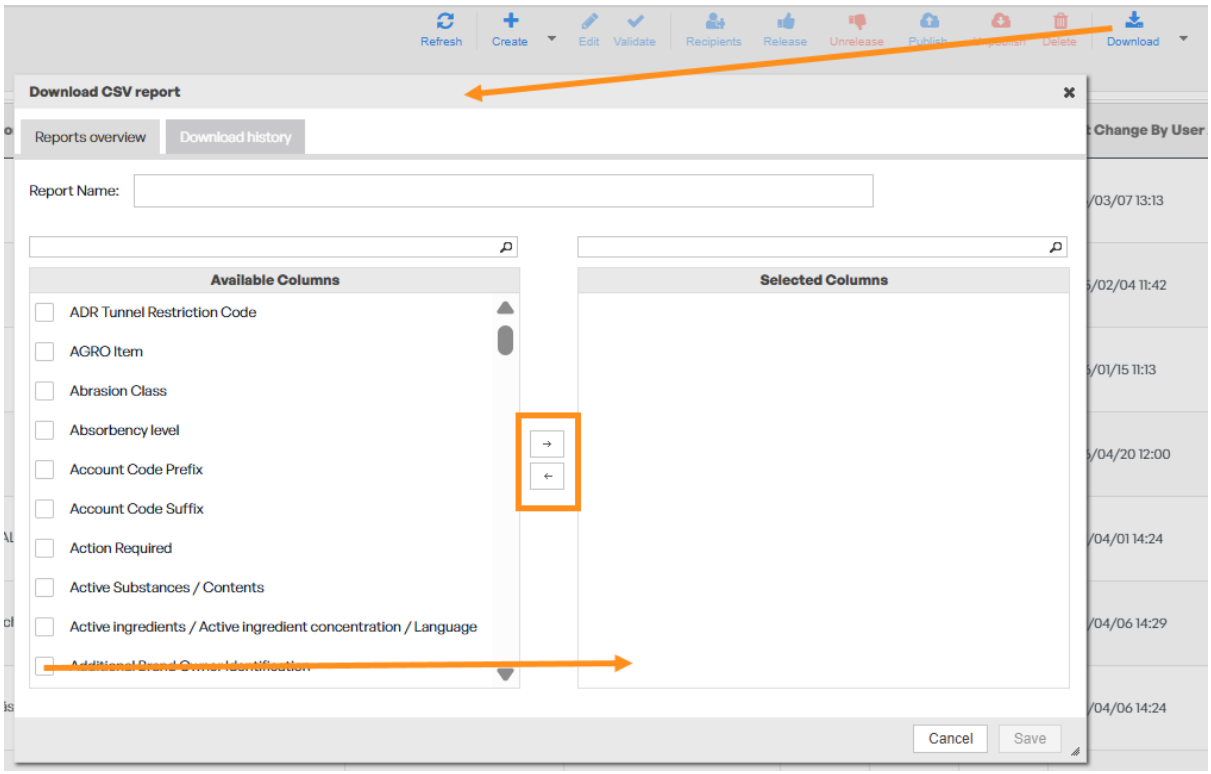


Figure 49: Configurable CSV Report

You can select all attributes available in the item editor to be displayed in the CSV download. Select the attributes that are to be displayed in the report.
- Output only the selected attributes
- Output all attributes

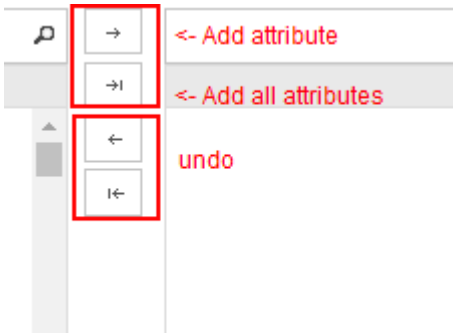


Figure 50: Select attributes for CSV-Report

Besides editing existing buttons, you have the options to delete a report (if you are its owner) or to download it. If you have some items selected in the hit list, the download option will get active in the report overview, and you can download these items with the attributes defined in the report.

Please be aware of some characteristics of the download to keep it simple and smooth:

- Language dependent attributes will be downloaded in the Target Market relevant language regardless of the set user language. For some attributes several, depending on the number of target markets.
- Structured (composite) attributes will be downloaded with the first repetition of each level only. The first repetition of the composite will be rendered with a fixed number (5) of repetitions. For all following levels of the composite only the first repetition will be considered.

Open CSV Report in Excel

To edit the CSV report configured in this way in Excel, open it with Excel. From the Excel Data menu, select Text to Columns and follow the wizard. Enter the Pipe character (|) as delimiter and finish the wizard. Format the columns as required.

Submit to Web (Artikelpass Online)

This Service has been discontinued.

Comparing GTINs

Publishing offers a comparison feature that allows you to compare two GTINs and identify the differences between them immediately. This feature expands upon the "Revision Comparison" (see page 113) by enabling you to compare individual GTINs rather than revisions of the same GTIN.

When two GTINs are selected and the "Compare" button is clicked, the "Compare" tab opens, displaying the latest or current revisions.

The differences are highlighted in color, and you can switch the view between "all data" and "only the changed / new / deleted" data.

Additional maintained attributes as well as attributes that are no longer maintained are displayed.
Clicking on an attribute in the two-column comparison table takes the user to the corresponding location in the element.

The comparison should focus on the current revision of each GTIN.

Customizing the Item List

The layout of the hit list can be modified according to the user's preferences in several ways. An optimized column selector gives users a flexible approach on how to customize their item overview. A default mode that offers a set of the basic attributes, such as Trade Item Identification. GTIN, Description short,

Target Market Country Code, Last Change by User at… and some more, and an expert view that is fully configurable. While the basic view aims to use the most important attributes to give a good overview of the items, the expert mode offers a configuration option: Column's ordering can be changed by dragging and dropping columns around, display size of the separate columns can be changed.
Use the switch Table view: Advanced view to customize the hit list for an appropriate overview on items. The number and order can be set up individually.

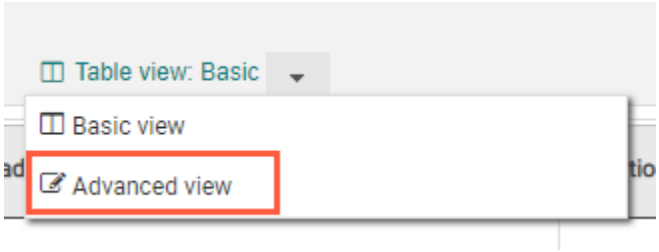


Figure 51: Customizing the Hit List

Edit Table View

To change the table view and customize it to your individual needs, select the "Edit view" function.

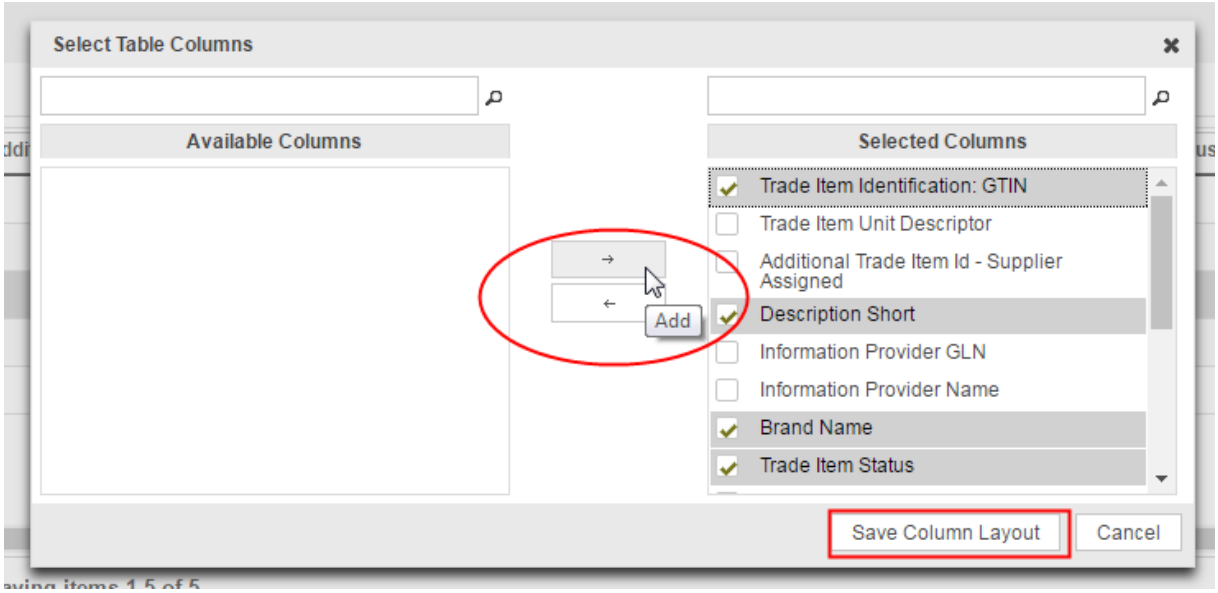


Figure 52: Select Table Columns

By clicking an appropriate button within the hit list, a dialogue will appear offering all available columns on the left-hand side and the currently displayed ones on the right side.
By moving columns from the left to the right or other way round and sorting them the layout of the hit list can be configured. The configuration will be saved for every user.

To save your settings choose the Save Column layout option. The next time you open the item list, your settings will be loaded.

Sorting the Results

By default, the results are sorted by processing date which means the items that were changed last are always displayed at the top.
You can sort the hit list in ascending or descending order by column. To do so, click the *arrow icon* in the header of the column you want to use for sorting. A drop-down menu opens, providing the options Sort Ascending and Sort Descending. Alternatively, you can simply click the column header.

Item List Function Bar

The function bar above the hit list contains actions that you can carry out on the selected items:

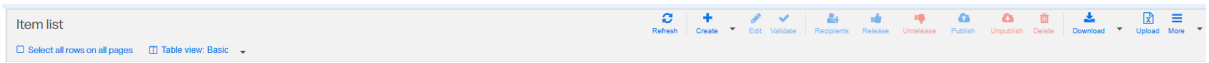
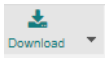
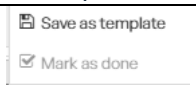


Figure 53: Function bar

Icon	Description and Definition
Refresh	Refresh: function to update the item hit list.
Create + New item + Aitem Duplicate item	Create: Use this option if you want to add a new item, AItem or duplicate an item based on an existing item.
Edit	Edit: You can use this option to make changes to an item.
Validate	Validate: From the Item list, you can check items for completeness, formatting, and consistency so that you can release them later.
Recipients	List the recipients of your data here.
Release	If the current version of an item has a quality level that is suitable for release, you can use the Release option.
Publish	Publish: Choose this option if you want to publish the selected item in the source data pool.
Unpublish	Unpublish: The publication of an item can be revoked with the 'Unpublish' button.
Unrelease	Unrelease: The release of an item can be revoked with this button.
Delete	Delete: Only saved draft items, which have not been released or published can be deleted.

	All options for downloading product data in documents, item records or GDSN formats are summarized under the item Download.
	Excel: Export of items in Excel format with and without components
	PDF export: Export of products in PDF format with components
	PDF export: Export of article data in pdf format.
	CSV report: Download item data as CSV report.
	GDSN formats: The Catalogue Item Notification (CIN) can be downloaded here.
	Upload: You can create items by importing them into the system from an Excel file.
	 More: Save as Template: An item can be saved as template, to use it as a basis for other new items.
	Mark as done
	Select all Rows on all pages: Use this button to select all rows or lines on all pages of the hit list at once.
	Edit table columns: change view and order of the hit list columns by selecting the favorite columns

Buttons indicate the function in plain text in addition to the icon. The colours may differ depending on which profile is used. The buttons are grouped according to colour:
Standard buttons: White background with borders
Workflow buttons: Solid background colour
Warning buttons: Background in warning colour, e.g. orange

Overall State, Release State and Publication State

The Overall State gives information about the current status of the items. The table should give an overview of the status as well as the matching icons displayed in the Release and Publication state.

Publication State	**Release State**	**Overall State - Definition**

		Draft new Item A newly created item which has been saved and perhaps edited several times Not released yet.
		Item update – pending release New item, which was already released, but not yet published. Has been edited again afterwards, and the latest version is not yet released.
		**Released - Ready to publish** Newly created item – possibly edited several times– latest version is already released and now ready to be published.
		**Sent item update – pending release** The Item which itself was already released and published but has been edited again. The latest version is not yet released. As soon as this is done, the item is automatically sent to the source pool again.
		**Item published** The Item which was already released and published. No changes took place on this item meanwhile. After 1WorldSync Publishing the item cannot be unreleased anymore.
		**Sent item update – pending release** Item which was already released and sent as part of a published hierarchy, but afterwards has been edited again. The latest version is not yet released. As soon as this version is released, it is automatically sent to the pool again.
		**Item sent**

		Item which was already released and sent as part of a published hierarchy. No changes took place on this item meanwhile.
		**Unpublished to all** Item which itself was unpublished from all recipients but has not been edited and is still released.
		**Unpublished to all – draft item** Item which was unpublished from all recipients and has been unreleased.
		**Unpublished to all – still sent** Item which was unpublished from all recipients but is still part of another published hierarchy and has not been edited again.
		**Item unpublished to all – still sent Update – pending release and re-publish** Item which itself was unpublished from all recipients but is still part of another published hierarchy and has been edited again.

CIC State Column

The CIC State column displays the cumulated confirmation status of each item, so only the last status will be displayed here. Besides a CIC, GS1 RESPONSE will be displayed here as well.
The table gives an overview of the icons displayed along with the CIC State in the hit list.

Cumulated CIC State	Comment
	Sent, no CIC feedback received yet. No feedback from recipients and no CIC Review as well as no GS1 RESPONSE Item is released again and there is no open CIC review and no GS1 RESPONSE.
	CICs from recipients have been received and have status RECEIVED.

✔✔	CICs from recipients have been received and have status SYNCHRONIZED.
❗	Retailer feedback available. Please check! "To do" state: At least one latest CIC has state REVIEW and there is no open GS1 RESPONSE.
✔✔	CICs from all recipients have been received and have the state REJECTED.
⊘	Transmission Error, please contact Support! "To do" state: At least one GS1 RESPONSE was received for that item and is still open.

Area for Item Preview, Overall State, Recipient feedback, linked Digital assets and further Information

A report area is provided to the right of the hit list. This area displays Publications, Video Tutorials, Item Preview, Recipient feedback, Overall State, and further Information. The Overall state of the called item is displayed in the info field on the right side of the page.

Publication Information

The Publication info provides the information if and to whom the item has been published as well as the publication date and delivery state.

Validation Report

The Validations section offers a data check according to the system's validation rules.
You will find filters that allow you to view warnings, errors, DQG warnings (if available) or Data Intelligence notices.
Validation messages are displayed in a box tile format. A clear color scheme separates the different types of messages, such as errors and warnings.

In addition, validation messages that are the result of a hierarchy validation, such as occurs when an element is released, are clearly divided into collapsible sections that indicate the GTIN, the hierarchy level and the number of messages that appear for them.

Each validation tile has a clearly labelled "Review" button which, when clicked, leads directly to the corresponding input field. Each tile can also be closed via the cross in the upper right corner. This allows you to work through the news list.

Select one or more items in the hit list and click the Validate button. The validation report is not loaded automatically but must be activated by the user. If the validated data contains errors, it cannot be saved or released, depending on the severity of the error. If more than one item is selected, the validation report displays the reports for the items one after the other.

The upper column shows symbols for the result, such as adding, saving, or releasing the items concerned.

Buttons in the report:

	*Action successful/ no validation errors*
	*Cannot be released due to validation errors*

Buttons for different error levels:

	*Error*	The data cannot be saved or released.
	*Warning*	The data can be saved and released.
	*Info*	The data can be saved and released.
	*Error*	The data can be saved but not released

The validation symbols used in the item editor and in the hit lists are displayed as follows: Green for no errors, Orange for warnings and Red for errors, each of which also has a different clear icon.

Recipient feedback (CIC Summary)

The Info tab displays the number of CICs received - Catalog Item Confirmations and an overview of the CICs. These Receiver Confirmations (CIC Overview) list the most recent CICs for each receiver with the respective status. The CIC List is only filled with CICs at the published level.
If this level is changed, saved, and released, the list empties completely and fills again after the CIC arrives based on the most current CIN or adjustment of the product information; changes to products that are not directly published do not trigger an emptying of the list.
The widget displays GLN and recipient names as well as status information. A click on the CIC line opens a window with further information. Please note that only the most recent CIC of a retailer is displayed. If you have received several CICs from one recipient and want to see them all, you can open a list by clicking on the CIC History button. This list contains the CIC status, the code, the GTIN of the item, the description, the long text, additional texts, corrective actions, and information about the correction as well as the date and time the

message was received by the system. For a list of the buttons displayed, see the CIC Status section.

The icon is displayed if at least one current CIC has the status REVIEW.
The icon is displayed if at least one GS1 RESPONSE has been received.
The icon is displayed if the CIC of this retailer has the status RECEIVED.
The icon is displayed if the CIC of this retailer has the status SYNCHRONIZED.
The icon is displayed if the CIC of this retailer has the status REJECTED.

Immediate feedback on items when major validation errors arise will be send by the source data pool.

Tip: The key combination Ctrl + Shift + arrow key right → can be used to hide the information panel on the right side. The same key combination can be used to undo the process.

Maintain and create item data

Item Detail Navigation

Open the hit list to access your items. All tasks relevant to item data maintenance can be performed from here.

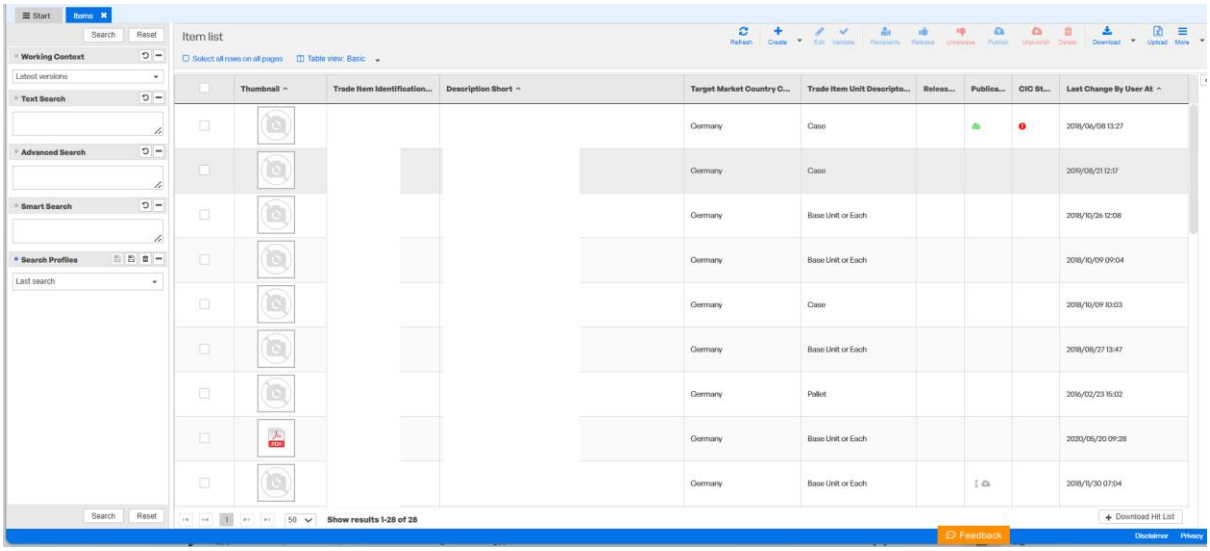


Figure 54: Hit List - Items

To access an item, simply double click on it in the hit list. The chosen item is displayed as follows:

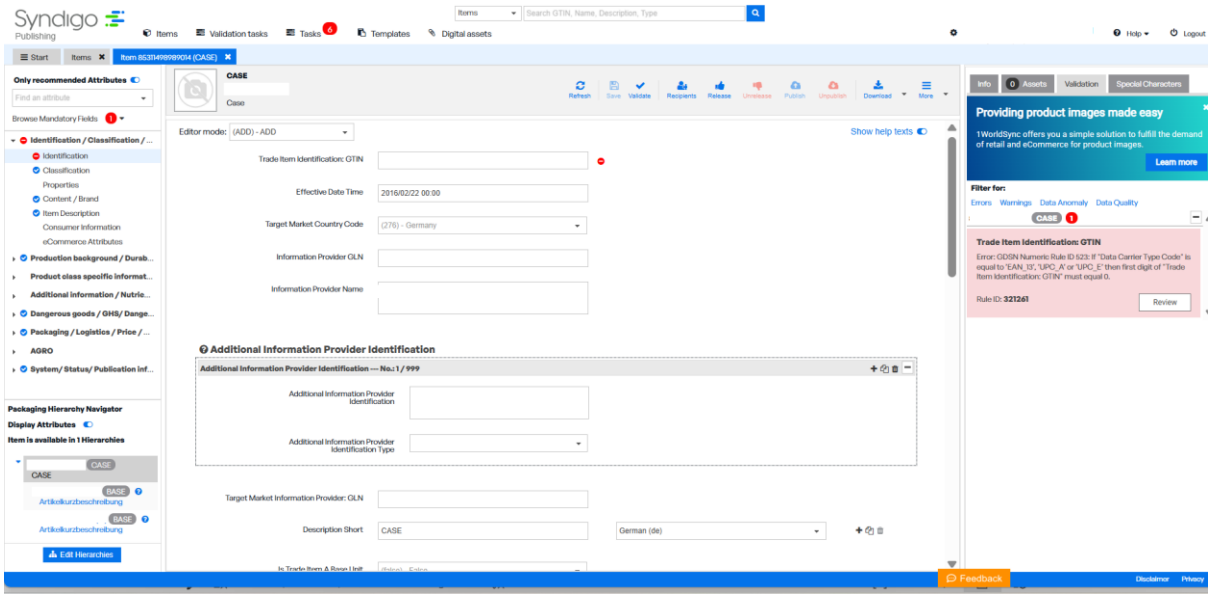


Figure 55: Supplier Item Details

Any item accessed in the hit list will open a new overview (Item Detail). The item is displayed with its item details in the center.
The supplier item detail area is split into three sub-areas:
The left-hand area shows the Navigation panel, the main part of the supplier item details area. By clicking the corresponding theme (Product Identification, Product Description Information, …) the Edit Form opens in the center of the screen, and you can make changes to the attributes here. The Red Dot-Icons mark the contained Mandatory attributes that must be filled in.



Figure 56: "Red Dot"-Icons

The Option "Mandatory fields" in the function bar enables the immediate editing of the mandatory field.

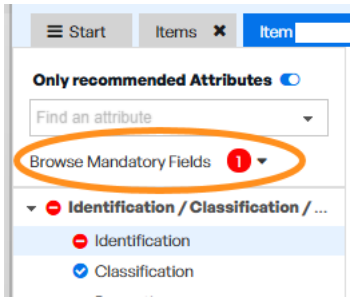


Figure 57: Option "Mandatory Fields"

The center of the Screen displays the item GTIN as well as the editor for the contained attributes of the chosen theme.

The right-hand area displays additional information to the item such as Publication Info, Exceptions, CIC Summary and Attached Digital Assets.

Tip: The key combination Ctrl + Shift + arrow key right → can be used to hide the information panel on the right side. The same key combination can be used to undo the process.

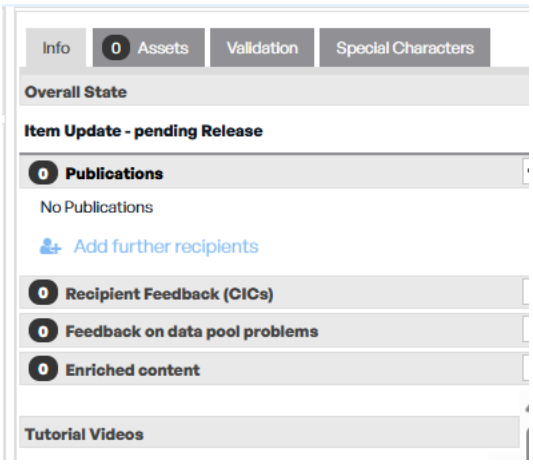
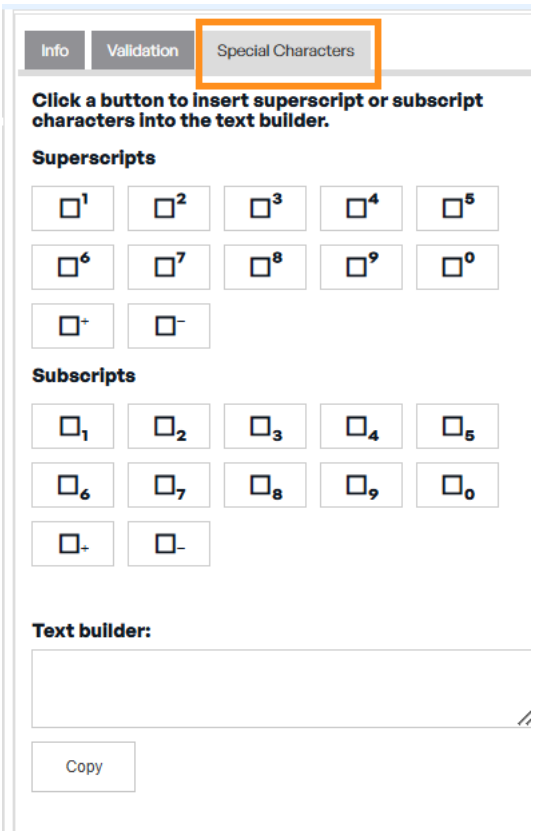


Figure 58: Supplier Item Details: additional information

You navigate through the item by clicking on the corresponding Menu on the left-hand side. With the arrow icon on the left-hand side the respective subtopics can be opened.

Special characters

Starting August 23, 2025, any chemical formulas entered in alphanumeric attributes must exactly match the product image, including the correct use of subscript and superscript characters. A mismatch will lead to a validation error and a "red seal"
To easily add special characters to relevant fields, such as the list of ingredients, you can select them from the help menu in the top right corner. Click on the characters to copy them to the clipboard, then paste them where required.



Structure and function of the Editor

The navigation shows progress with colored icons. Mandatory fields to be edited are displayed in red. As soon as all mandatory fields have been entered correctly, the icons will be green.
The buttons are grouped in:
Standard Buttons: Wide background with frame.
Workflow Buttons: Colored background.
Warning buttons: Background in warning color e.g., orange.
Mandatory fields Navigator leads through all Mandatory fields.
The Navigation area displays all attributes of the item grouped in headlines. You can switch between the various attribute groups by clicking the headlines.

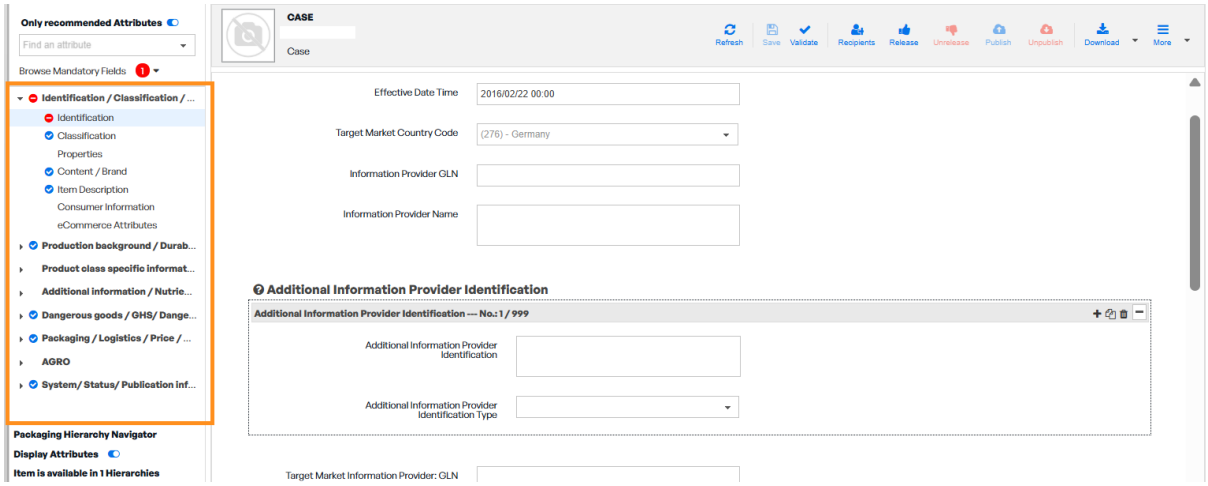
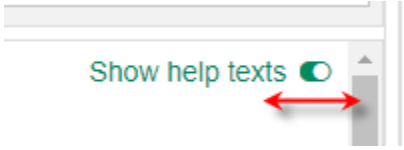


Figure 59: Structure of the editor – edit form with function bar

Show Help Texts

If the function *Show help texts* is activated in the editor,



An information text is displayed for each editing field.
Figure 60: Show Help Text of the editing field

These tooltips will immediately appear as soon as a user enters an input field in the item editor. Tooltips will stay if the field is focused. They can be enabled and disabled at any time by using a slider on top of the page.
The tooltips will give brief information on the attribute, what it means and what needs to be filled in. The level of Information varies on the attribute the user is working on.

Menu bar

You can use the options provided in the Menu bar to perform the necessary actions for the displayed item data record such as Validate, Save and Release. The greyed-out buttons are not available.

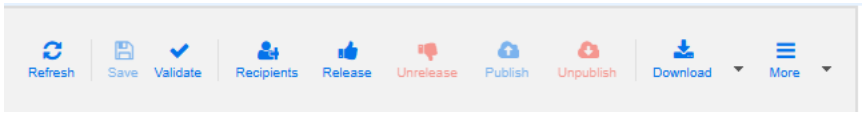


Figure 61: Menu bar

Save

You can use the Save function to save your changes. This will generate a new revision of the selected item.
At any time while making entries or changes, you can validate the item data to make sure that it is complete and correctly formatted. The item data check includes the validation of the entered attribute values based on the validation rules defined in the system.

Validate

After you have maintained the general information, you can validate the entries to check that they are correct. The validation process is started by clicking the validation button, even without saving the data beforehand. If warnings or error messages are displayed, you can make the correction.

Submit

The Submit-Menu contains all functions for transmitting data.

If you have saved the specified item data without errors, you can now release the item. To do so, click the Release icon.
If an item is released but not yet published, you can revoke the release and change the item state to a working version. Please note that if the item is already published, you need to revoke the publication before being able to select the undone release function.

Submit to web (ArtikelpassOnline) This service has been discontinued

ArtikelpassOnline.de is an online portal, which allows a supplier to present items in a clear way on the web. Artikelpass Online also allows users to browse all products of a certain supplier and acts as a catalogue for all participating GLNs.

The platform displays products with the most important attributes accompanied by the product image. As the platform is highly SEO optimized, you will increase the visibility of your products which can be found easily by anyone who is searching for them on the web.

Download

The Download-Menu contains all functions for downloading data from Publishing.

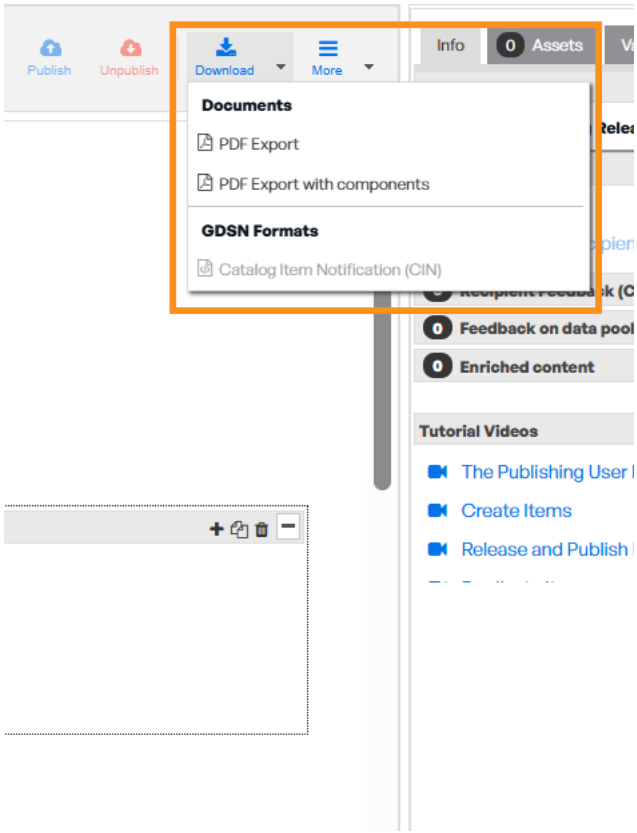


Figure 62: Menu bar, Download-Options

Save as a template

If an item is to be used as a basis for other items, it can be saved as a template. Saved templates can be selected from a drop-down menu then in the 'Create Item' dialogue. For detailed description of the template function, please refer to the separate chapter in the documentation.

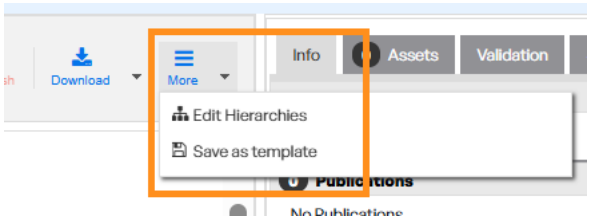


Figure 63: Menu bar, More Options

Maintain possible publication targets

To add potential recipients of your item you can click this button. A dialogue which allows you to select data recipient(s) will open. If there are retailer specific validations implemented, then they will be activated through this function. For more information, please see Select Publication Targets.

Attribute finder

Due to the large number of attributes visible in the UI it is not always easy for a user to locate an attribute quickly. The attribute finder enables a quick search for attributes from the editor list. To access the attribute finder simply open the drop-down menu above the item editor.

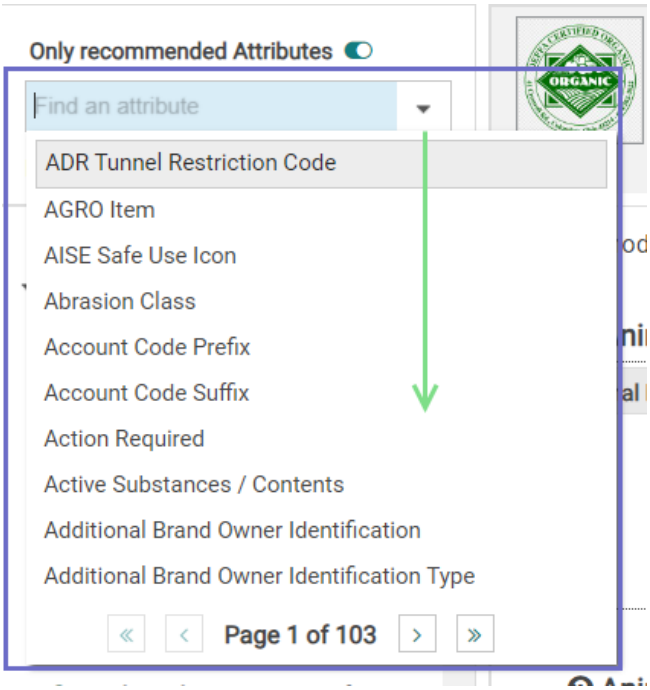


Figure 64: Attribute finder

To select an attribute either start typing the name of the attribute you are looking for or select it from the drop-down menu. If you are not sure of the exact attribute name, use * as a wildcard at the beginning or end of the word. Depending on the view you use, the number of attributes available and the number of pages will differ from the screenshot. To navigate between the pages, use the arrows. Click the attribute you are looking for and the cursor will jump to its position in the UI.
Please note that the attribute finder does not include attributes from attribute groups. It will only find the group header. The cursor does not go directly to these attributes; only the tab the attribute group is on is opened.

Item information and hierarchy information

The left-hand area shows Navigation with the Item Information containing the attributes that identify the trade item. This information is displayed regardless of which tab or flex bar is open. The open theme is displayed with a green background. The Overall state of the called item is displayed in the widget of the hierarchy navigator.
The current publication status of each hierarchy level is listed in the hierarchy navigator. So, you can see which level of the entire hierarchy is published.

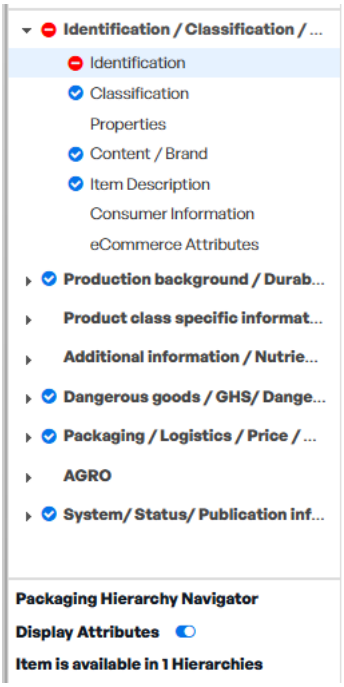


Figure 65: Left-hand widget, Navigation panel

Remove a packaging item

You can remove an item from a hierarchy if the hierarchy is not published and not released. Removing a packaging item is only possible for items with the processing status New or Not released. Packaging units with the status Released, Corrected or Changed cannot be removed. If the hierarchy has already been published, you can change it as follows:
First undo the publication of the hierarchy. Then reset the release for the entire hierarchy and check whether the reset of the release was successful for all hierarchy levels. In the 'Edit hierarchy' widget, activate the item you want to delete from the hierarchy and click the 'Remove item' button.
This option is deactivated if you have selected the root node of the hierarchy.

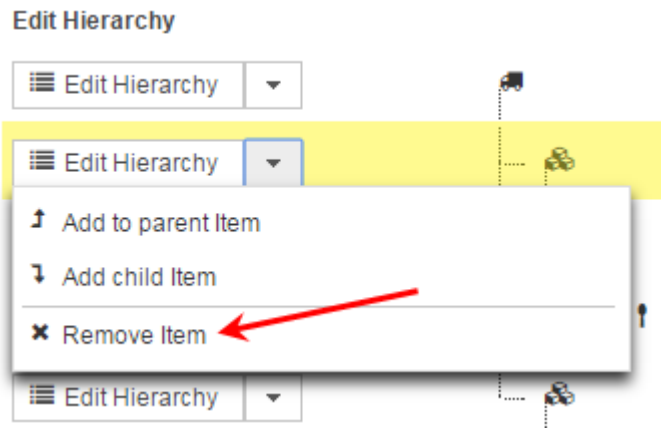


Figure 66: Remove packaging item

A safety prompt will appear confirming this action. If you click Cancel, you return to the supplier item details without removing the packaging. The packaging hierarchy is updated: The removed packing unit and any larger units below it is no longer displayed. The packaging item retains its processing status. The item to which the packaging was assigned remains unchanged. Release the hierarchy and publish the hierarchy again.

Change number of Items

The number of items contained can be easily changed in the hierarchy. To do this, select the Edit Option and change the amount.



Figure 67: Change amount of contained components

The dialogue that now opens allows you to simply enter the number of items contained and select *ok*. The hierarchy is then updated accordingly.

Support of eCl@ss Classification

eCl@ss is a global, cross-industry standard for classification and unambiguous description of products and services, which conforms to international and national standards. eCl@ss is developed by the association eCl@ss e.V., a non-profit organization, which is supported by ordinary and sponsoring members from companies, associations, and institutions.

1WorldSync Publishing contains an additional classification module in the item editor which supports the supplier with classifying his items by using the eCl@ss standard. With the introduction of a second classification standard beside GDSN's Global Product Classification Code the standard is clearly visualized.

If eCl@ss is enabled for your company (in the user administration/additional properties), you will see an additional classification tab on top of the item editor navigation. The usual classification section within the item is still available und remains unchanged, but the additional section organizes the management of multiple classifications for your trade items.

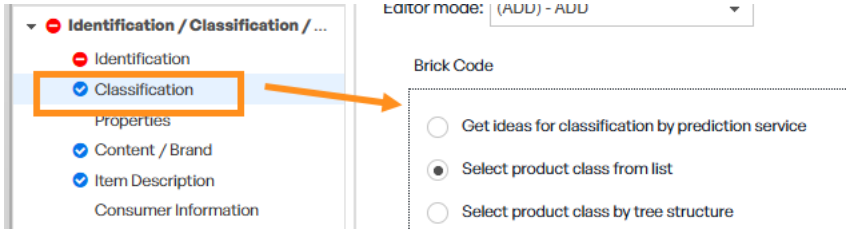


Figure 68: Item Editor, additional Classification module to capture eClass attributes

With opening the additional Classification module, a tab opens and offers the GPC to capture the Classification and the appropriate attributes.

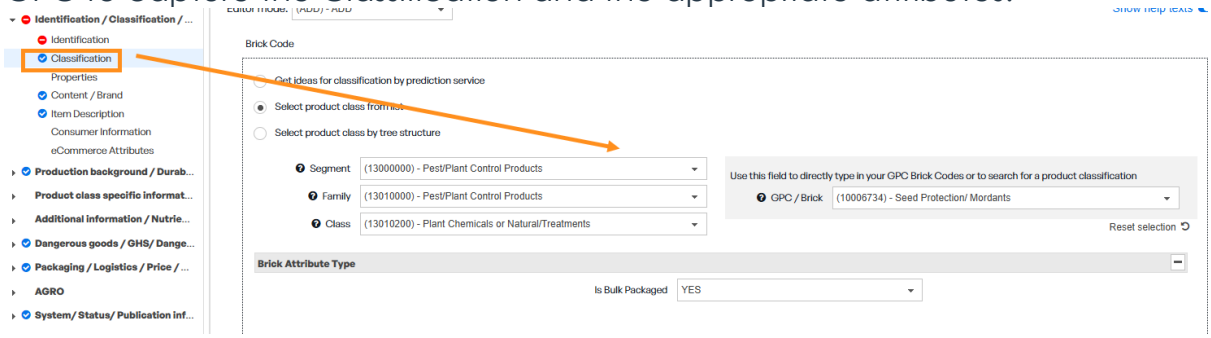


Figure 69: Additional Classification eClass tab

The classification module features a checkbox for each possible classification (as GPC is mandatory it is always selected). eCl@ss can be deactivated here if it is not required for this item. If data has already been entered here, a warning message appears.

If the eCl@ss module is enabled and displayed within the item editor, it is handled as the leading source of input for eCl@ss. The values displayed in the editor will overwrite any previous (invalid) values that may exist in first eCl@ss repetition of additionalClassification.

The general availability of eCl@ss support depends on the system. If eCl@ss is in general available on a system, it can be enabled on a supplier basis. For that purpose, there is a new setting in the company management within the Additional Properties tab. As Global Product Classification is mandatory it cannot be unchecked.

Details for the editor handling

When selecting eCl@ss, two radio options offer two different kinds of approach for finding your matching eCl@ss code: Direct search for entries or a browse of the classification tree. When using direct search, you will find four different dropdown boxes where you can search for Segment, Main Group, Group or Commodity class. Depending on which input field you use, the above input fields will fill automatically with the matching values from the eCl@ss tree.
The tree browser as its name suggests a hierarchical view on the eCl@ss classification. You can navigate through the tree by opening and closing

nodes and clicking the lower leaves of the tree. A probably currently selected eCl@ss code will be highlighted in the tree.
Finally selecting an eCl@ss code will result in the belonging eCl@ss property fields to be rendered. To fully use the eCl@ss classification these fields need to fill on top of any GDSN fields that may have also been filled.

Nutritional Information

Regulation (EU) No 1169/2011 regulates the labeling of food in the European Union (EU), and how the nutritional values must be labeled. According to EU Regulation 1169, the table form is mandatory in principle, in which the data refers to 100 grams or 100 milliliters of a food.
The Food Labeling Regulation of the European Union (LMIV) applies to food suppliers at all stages of the food chain, provided that their activities concern the provision of food information to consumers. It applies to all foodstuffs intended for the final consumer, including foodstuffs supplied by caterers. This regulation also applies to services rendered by transport companies catering services (catering) when the departure is within the territory of the Member States.
1WorldSync Publishing now offers a preview of a tabular presentation of nutrition information for an article.

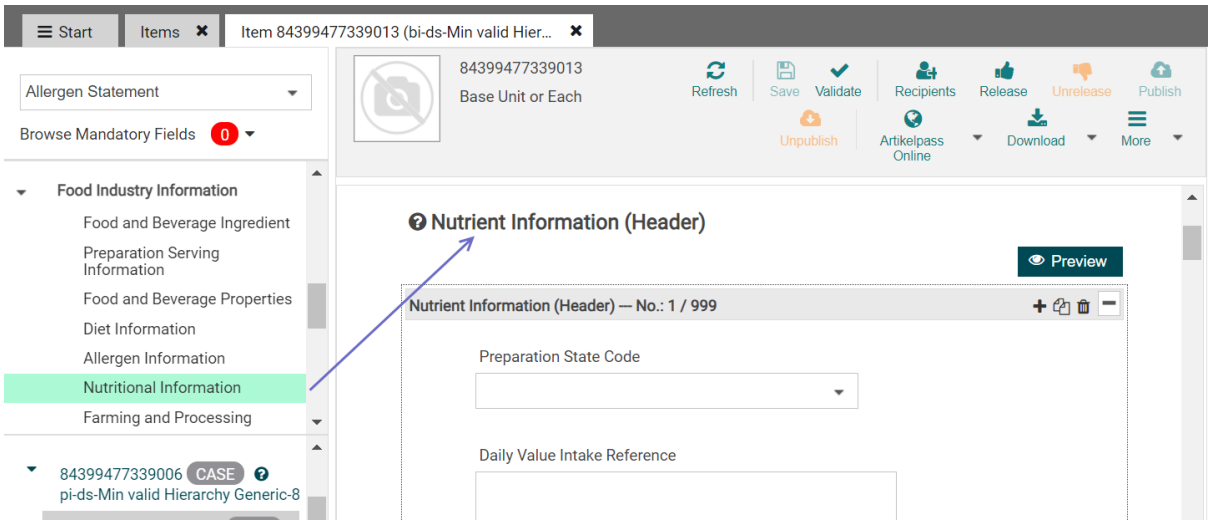


Figure 70: Nutrient Information

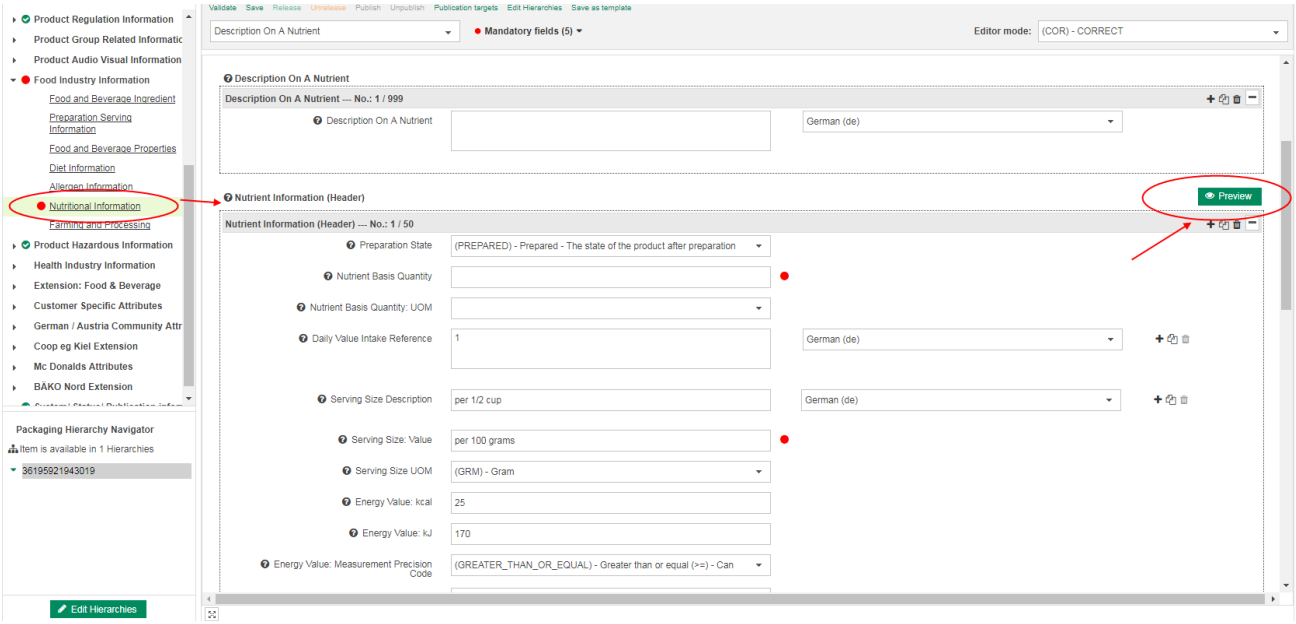


Figure 71: Nutrient Information, Calling the table

By clicking this button, a new window will pop-up displaying an exact preview, how the nutrients will be aligned within a table and can usually be found on the final product. It is also possible to print out this information.

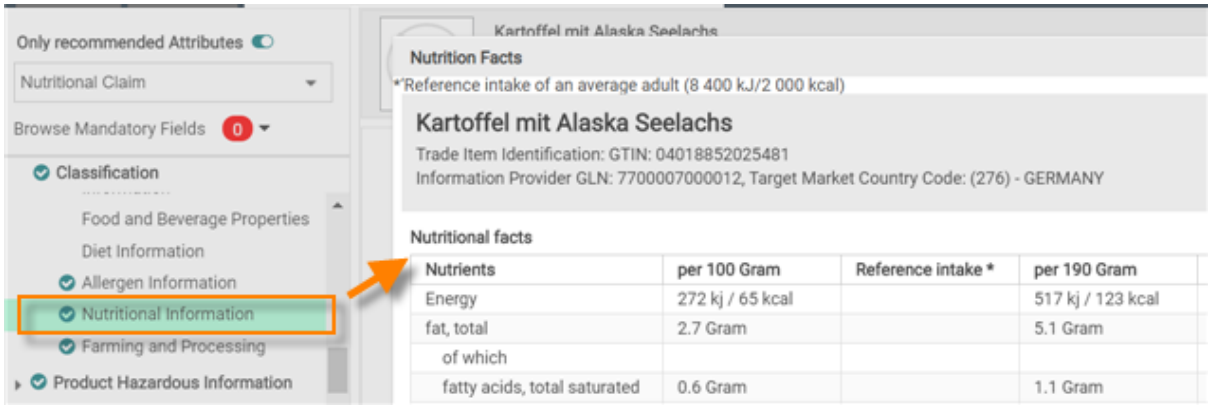


Figure 72: Nutrient Information, tabular presentation of nutritional information for an item

The nutritional value editor allows a clear and self-explanatory input of nutritional values exactly as they are shown on product packaging.
Trailing Zeros after the decimal point is not shortened.
To ensure the transfer of the accuracy of the numerical values in tenths or hundredths, record the values accordingly.
Example: The numerical value 100.00 is treated as 100.00 and exported as 100.00.

If you have entered nutritional values in the basic mode and would like to provide more comprehensive information, you can easily switch to the

advanced mode. All data that has been inserted so far will be transferred automatically.

If you send numeric values with trailing zeros, some validations will be triggered that were not triggered in the past. Please check your data to see if the trailing zeros are needed or not. If they are not needed, please remove them to avoid validation warnings or error messages for your items.
Example:
The numeric value 100.00 is treated as 100.00 and exported as 100.00.

Visualization of DQG score in 1WorldSync Publishing (This Service has been discontinued)

The Data Quality Gate (DQG) is a technical software system that automatically checks item data and sends test reports to the data providers.[2] The DQG serves the functional and technical support of the data providers during the data provision.
The DQG validation rules are integrated into the 1WorldSync Publishing system. Already during the data entry hints are given to incorrectly entered data and values (Warnings).
The item detail navigation for selected 1WorldSync Publishing instances contains a widget displaying the overall and the absolute DQG score for the supplier.

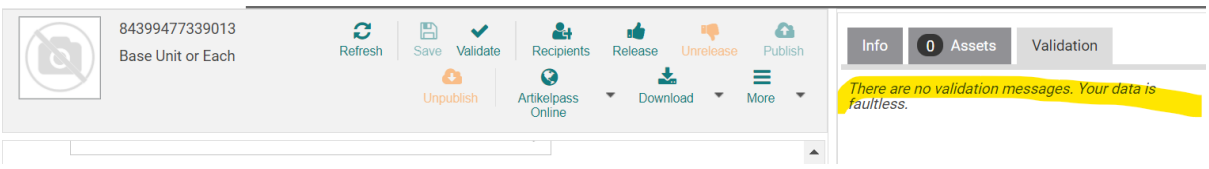


Figure 73: Right-hand widget, Data Quality Score

By clicking on the link below the score the user will be linked to a particular page of documentation. There he will get an explanation of what quality means and how to improve it.
Overall Data Quality Score: Horizontally measured data quality across the entire database for all published articles of the data supplier. This value gives an overview of the overall data quality of the supplier GLN in terms of attributes.
Absolute DQ Score: This key figure shows the proportion of the DQ standard error-free data records in the total data. This is the DQ index of items that contain no relevant warnings or errors. These items can be imported into the backend systems of the retailer without any adjustments or corrections. Items are free of errors on which validation rules have been executed, and no errors have been found.

[2] Data Quality Gate der GS1 Germany, DQG-Handbuch, Page 5

Products with errors are items on which validation rules have been executed and at least one rule has indicated an error.

Important: The scores will be calculated once a day, changes within your items made in 1WorldSync Publishing will not result in an immediate change of the Data Quality Scores.

You can find the manual for the Data Quality Gate of the GS1 Germany under the following Link: https://www.gs1-germany.de/gs1-solutions/stammdaten/data-quality-gate/

Visualization of DQ-Score on item level

The horizontal DQ score (the score calculated on item basis) will also be displayed in a widget inside the item editor.

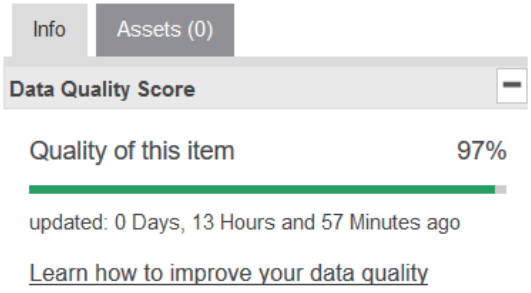


Figure 74: Right-hand widget, visualization on item level

The percentage of the item quality tells the supplier how many percent of the relevant validation rules for the item have been successfully executed without any error or warning. 100% means that all relevant validations have been passed and the item can be imported to the retailer's backend system without any further modifications or corrections.

Edit Hierarchies

There are two ways to edit hierarchies of an item. You can access the item's packaging hierarchy in the navigation panel at the bottom left of the screen. Click the "Edit Hierarchies" button to open the widget.
The Menu 'Edit Hierarchies' in the Menu bar as well as the Button in the hierarchy widget on the left allows you to navigate through the hierarchy of the selected item.
The navigator widget also features a small tooltip (just hover to question mark symbol), which shows a summary of the item included. When clicking on a link in the navigation widget a new tab will open with an item editor showing the selected component.

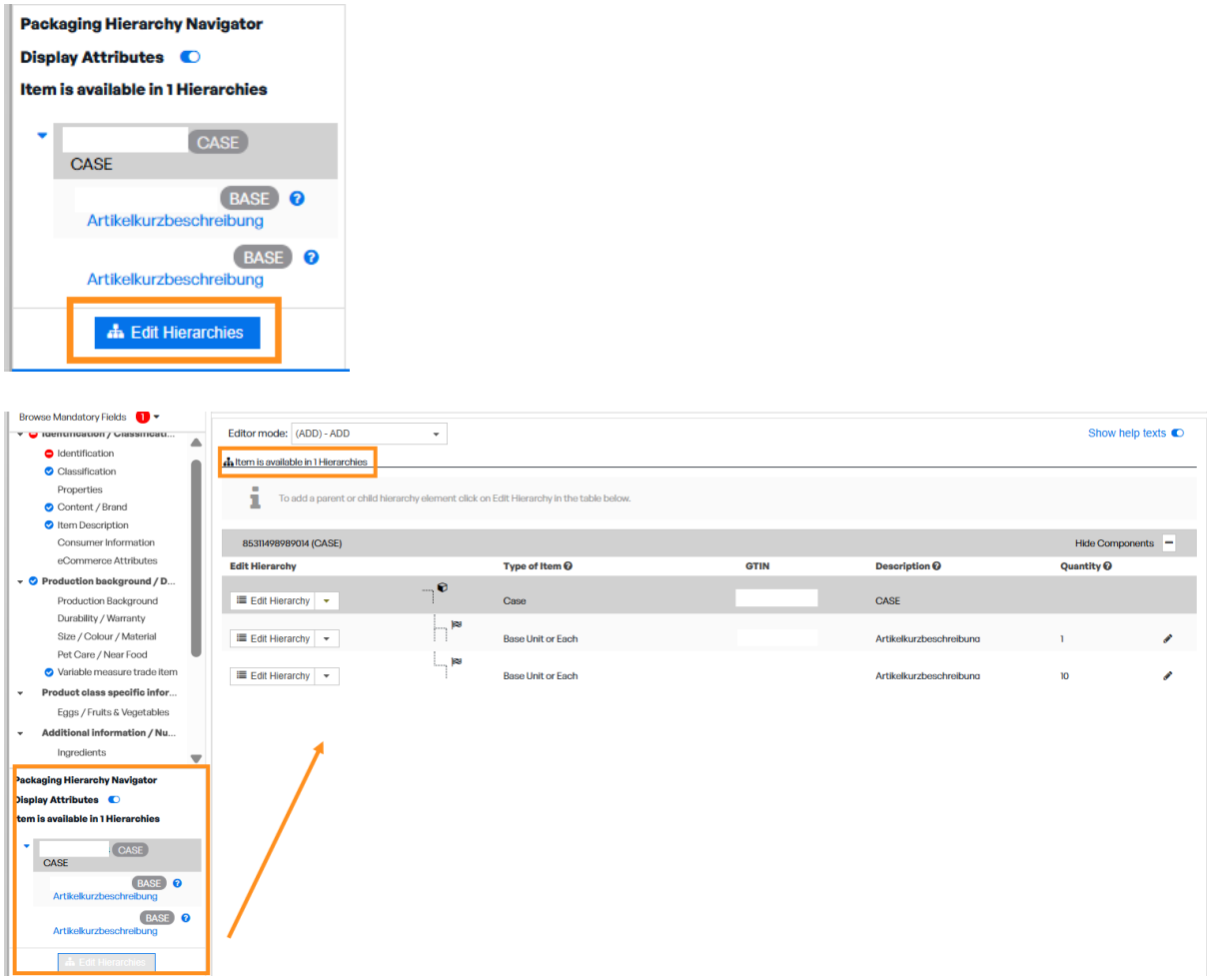


Figure 75: Item Hierarchy Information

The Menu item 'Edit Hierarchies' shows the placement of all GTINs belonging to the selected item. If an item is part of many different hierarchies (e.g. within displays), the hierarchy editor can get very confusing. To provide a clearer view on such cases, each hierarchy now can be toggled by clicking a (+)-Button.

The Packaging hierarchy area displays the packaging hierarchy to which the selected item belongs. The hierarchies can be opened or closed. This is useful for larger hierarchies.

Hierarchy Editor enables

- Toggle able view for large packaging hierarchies
- allows users to get a better overview on complex displays
- Multiple selection and quantification of existing items enable users to create big hierarchies even faster
- More self-descriptiveness on published hierarchies allows the user to better understand workflows
- Additional help text as Mouse over signed with
- Training video

The hierarchy overview displays the placement in the hierarchical context of the selected item.
Additional information is given above the hierarchy overview:

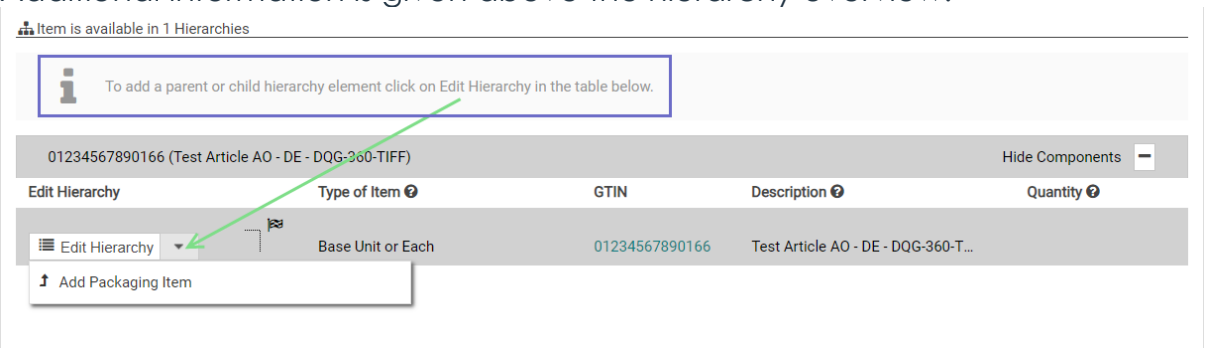


Figure 76: Item Hierarchies

The various packaging units are symbolized by different icons:

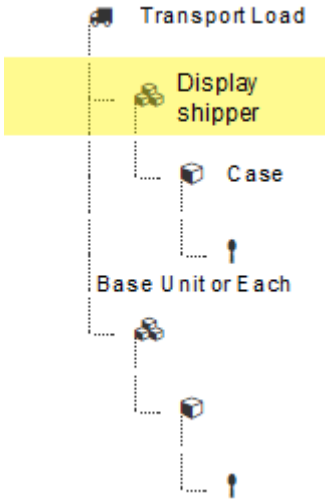


Figure 77: Icons for packaging units

You can change the quantity of content of the selected item with a klick on the Edit button .

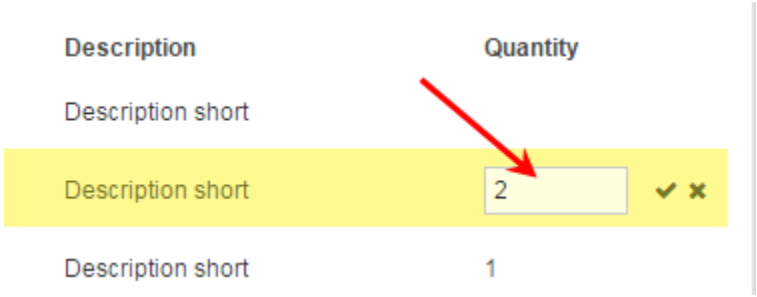


Figure 78: change quantity of content

Add a packaging item

There are several ways to add a packaging unit to a hierarchy, either by

- Create a new article and add it to a hierarchy, by
- Adding an existing item to a hierarchy, or by
- Clone an existing article.

Notice: Published hierarchical elements cannot be modified! Before you can modify you have to unpublish and unrelease all related items.

The Hierarchy Editor provides

- a pop-up view of large packaging units; it gives the user a better overview, e.g., of complex display structures
- a multiple selection and quantification of existing items; it enables the user to create larger hierarchies even more quickly
- a better auto-description capability of already published hierarchies for more transparency about the current workflow
- Additional help text as Mouse Over, marked with
- Training Video

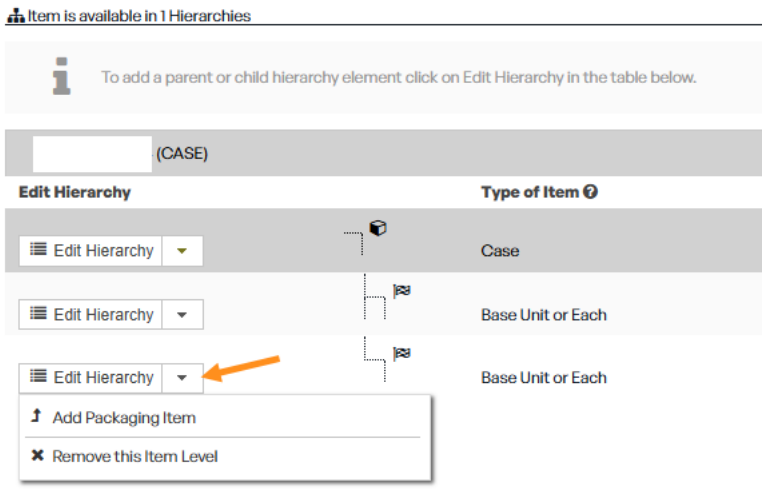


Figure 79: Edit hierarchies, add packaging item

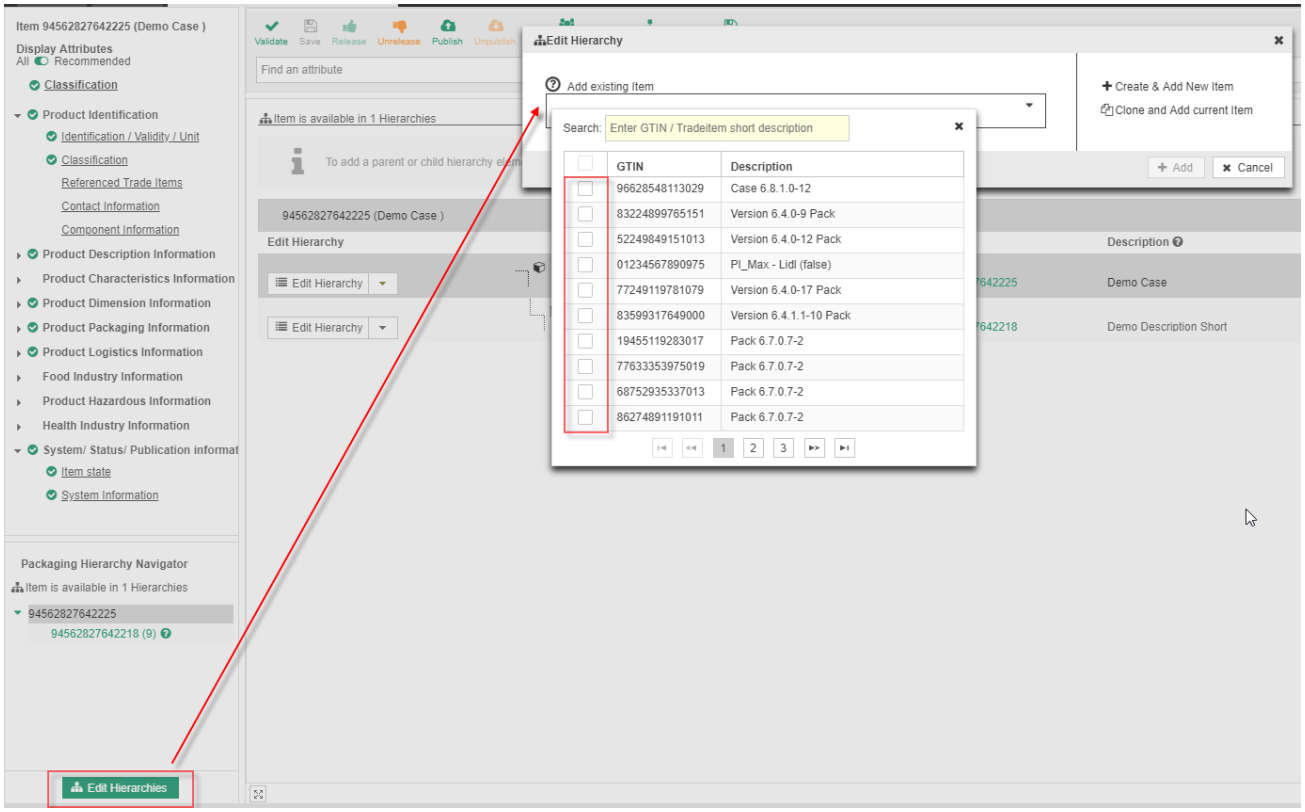


Figure 80: Edit hierarchies, add existing item

With the function "add existing item" you get a list of potential items.
Please note that this element cannot be a base item; only packaging items can be created from the hierarchy widget.
Please note: Published hierarchy elements cannot be changed! Before you can change them, all related items must be released and published.

Create new items and add as packaging

Please note that this item cannot be a base item; only packaging items can be created from the hierarchy widget.
Select "Edit Hierarchies" and insert the item at the appropriate position with a mouse click.
Select the "Create & Add New Item" option. The creation wizard opens.

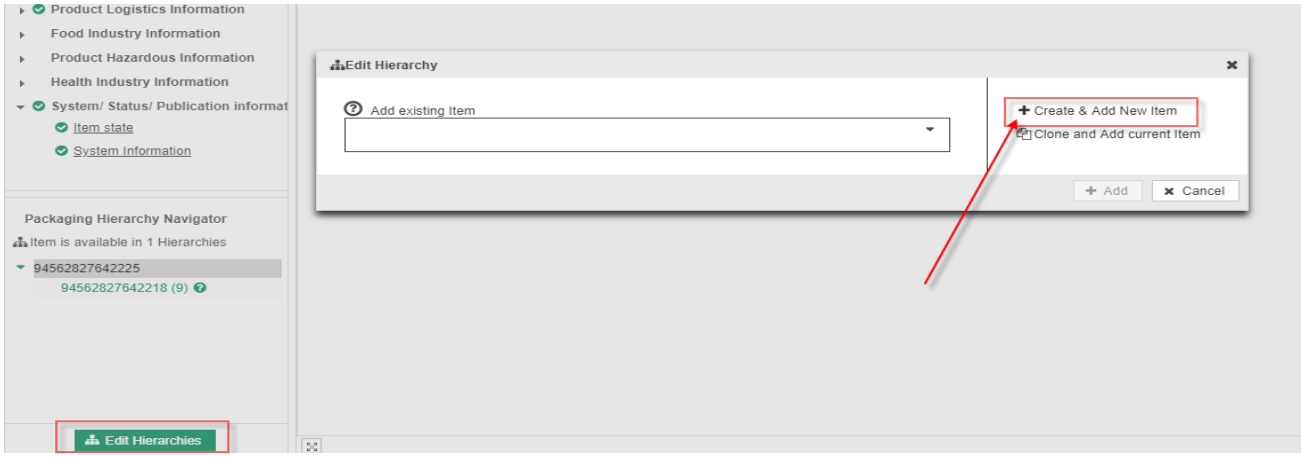


Figure 81: Create new item and add as packaging item

Enter the GTIN of the trade item. The GLN and target market cannot be edited. The article type is set to packaging item by default.

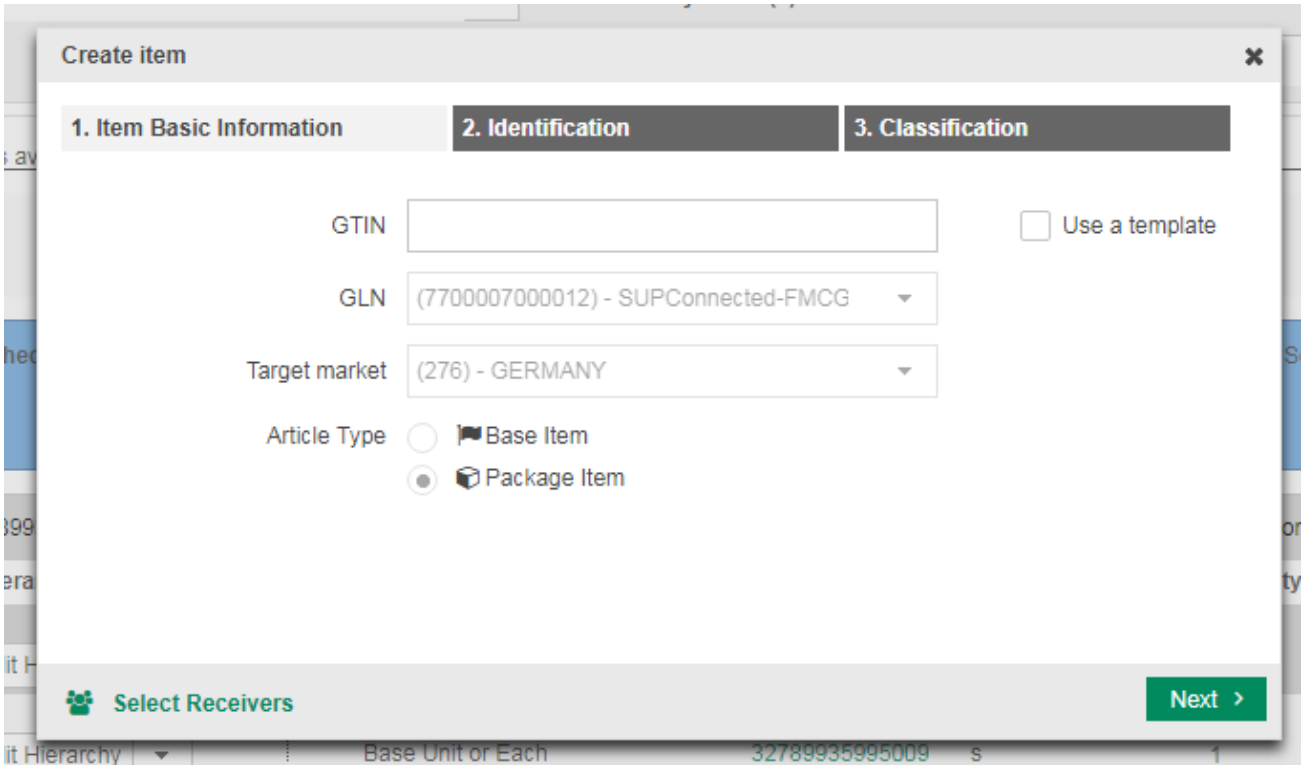


Figure 82: Creation Wizard to add a new item as packaging item

Follow the wizard in three steps by specifying the GTIN, identification and classification. If you want to create the item using a template, select the correct template from the dropdown menu. Once the minimum requirements are filled, click "Create" and the Item Editor opens. Now fill in all necessary attributes and save the item.

Add existing items as packaging

To add an existing item as a packaging unit, select the 'Edit Hierarchy' option in the Hierarchy widget and then the 'Add to Parent Item' option.

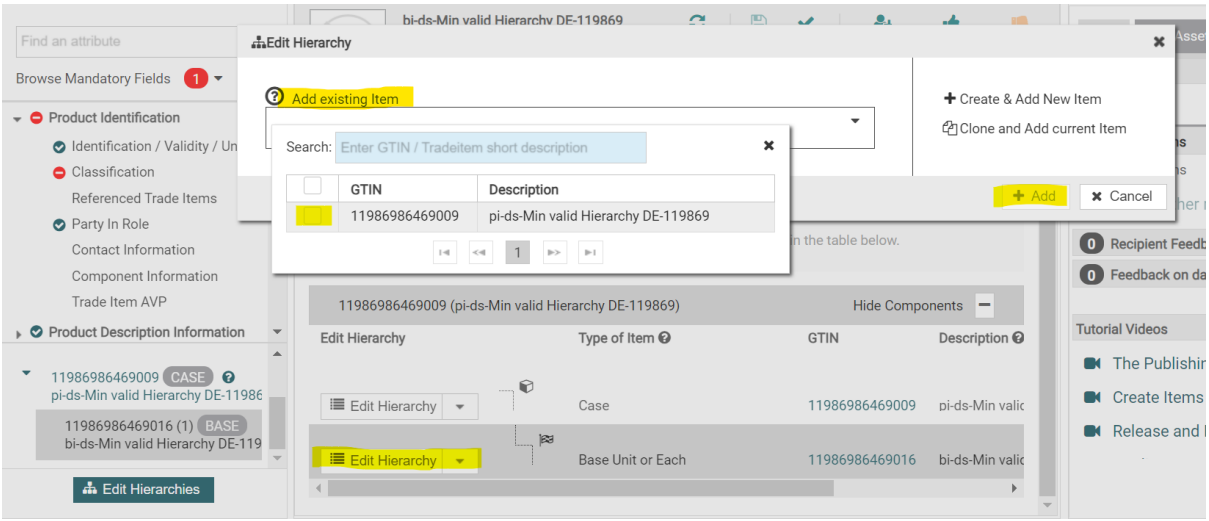


Figure 83: Edit Hierarchy, Hit list with items to add

A dialog box opens with a hit list in which the potential packing units are displayed. The items can be drafts, released or published items.
You can search for the items you want to add by GTIN or Short Description and set a check in front of the item. Selected items will be visualized in the search box above.
Changing the search term or entering a new one will not remove the checkmarks from previously selected items.
After you have finished your selection, you can add the selected components to the hierarchy by clicking (+) Add. Select the item that is to be added and click on "Add".

Clone and Add current Items to Hierarchy

It is often necessary to create items with identical data several times and to reproduce them in hierarchies. To avoid having to repeat the data for the items several times, there is the function "Clone & Add current item".

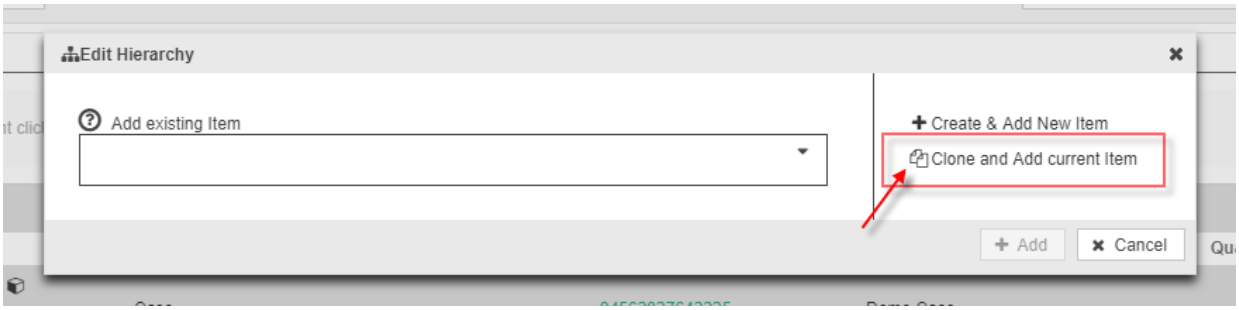


Figure 84: Edit Hierarchy, Hit list with items to add

The existing item is "cloned ", and the Creation wizard is opened. By entering the GTIN, the copied item is separated from its clone.
Follow the item creation wizard and complete the missing mandatory information resulting from the addition to a hierarchy. This information is indicated by red dots:

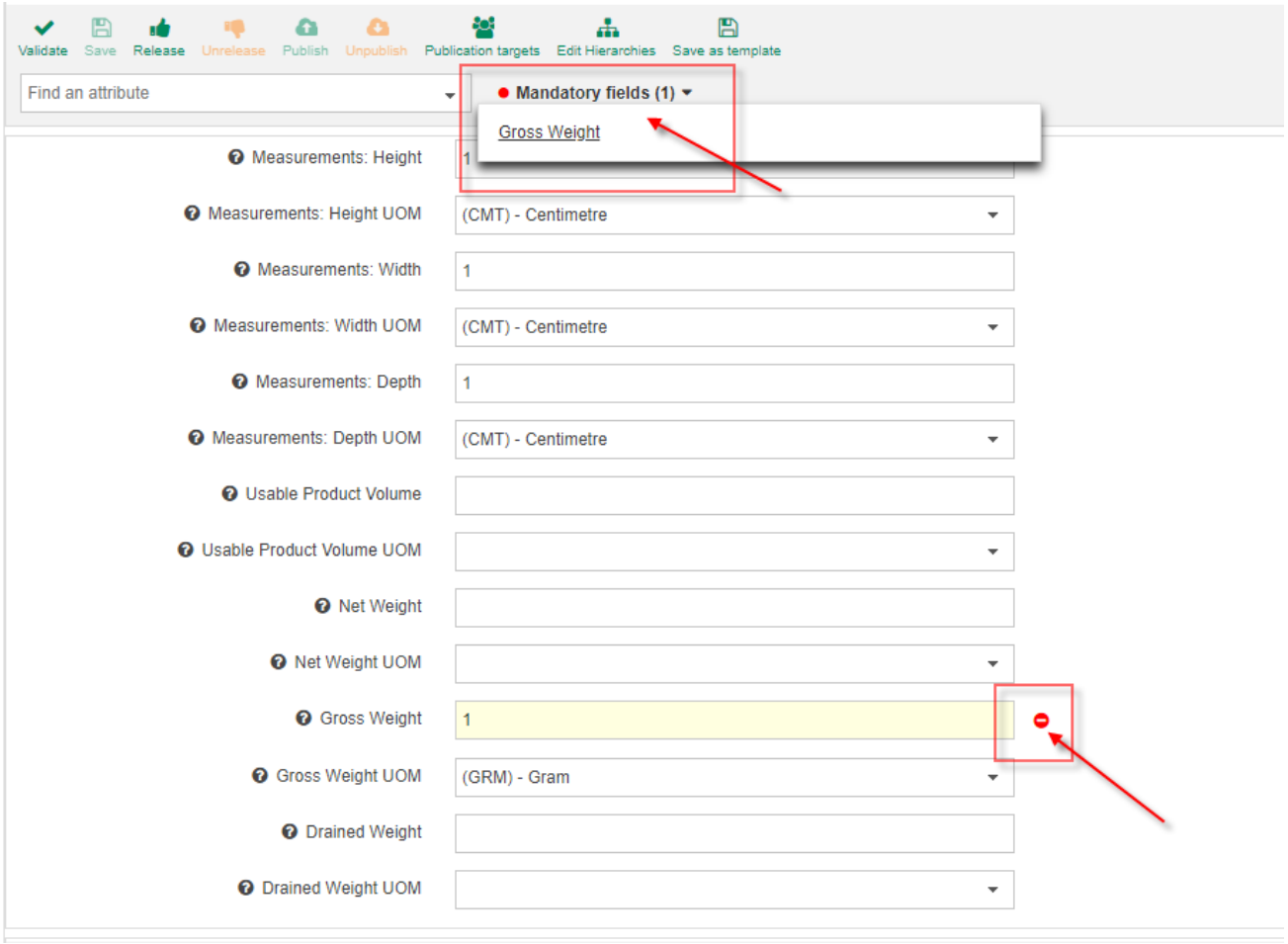


Figure 85: Copy and Add items to Hierarchy

Underneath the red dots next to the attribute fields there are tool tips. Move your mouse over the red dot and find out what information is required here. If no more red dots are visible, all mandatory information is filled in.
After saving the item, a window will open in which you have to specify the quantity of this item contained in this packaging. Finally, please check whether any red dots appear that require adjustments to logistics information.
In addition, it is also possible to adapt the cloned/copied data if necessary.

Add Components

You can add a component to a packaging item. Note that you can only add components for items with the processing status New and Not Released. Items with status Released and Published cannot be added as components.

There are two ways of adding a component to a packaging item – either by creating a new component (item) and adding it to the packaging item or by adding an existing item to the packaging item as a component.

Create a new component and add it to an item

To add a newly created component (package or base item) to an existing packaging item, click Create new item and add as component. The create item dialogue now opens. Enter the GTIN of the trade item and select the article type. If you want to create the item from a template, select the correct template from the drop-down menu. The GLN and target market cannot be edited. Once the necessary data is populated, click Create and the item editor will open. Now populate all necessary attributes and save the item. Once the newly created item is saved, the option *Add component* becomes active in the UI.

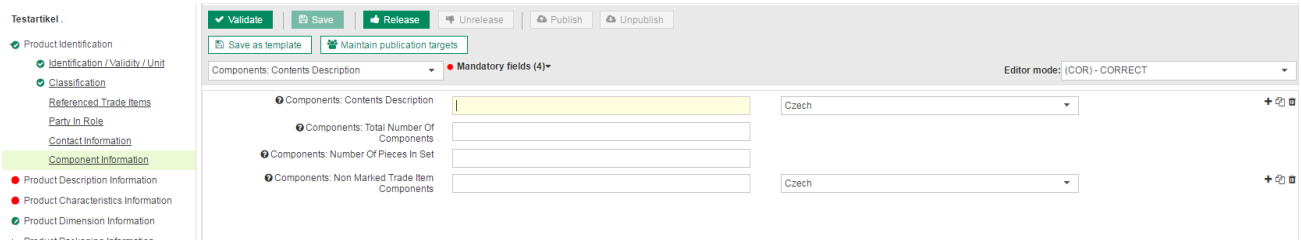


Figure 86: Item Editor with Component Information

The dialogue closes. The new item is displayed in the component hierarchy in the item details for the item initially selected. Click the Save option to save the initial item. The component is always saved in the packaging item that contains the component.

Add an item to an existing component

To add an existing component to a packaging item select *Add existing item as component*.
You can search for the components you want to add by GTIN or Short Description and set a check in front of the item. Selected items will be visualized in the search box above.
Changing the search term or entering a new one will not remove the checkmarks from previously selected items, after you have finished your selection, you can add the selected components to the hierarchy by clicking (+) Add.
Note that the hit list only displays items with the same GLN and Target Market of the selected item.

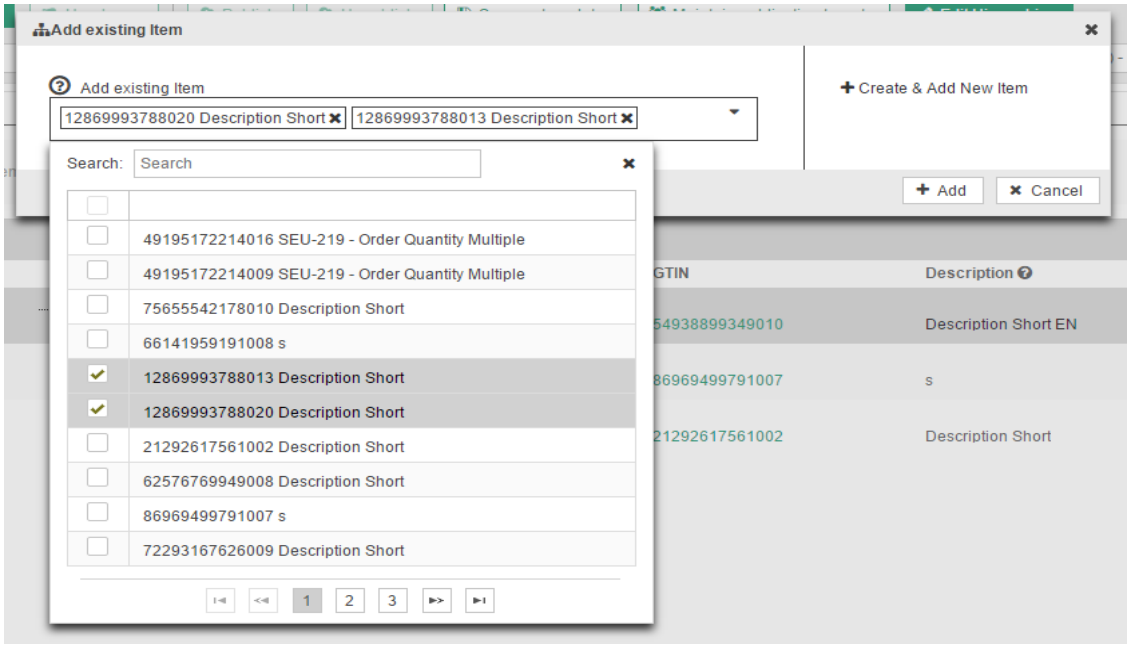


Figure 87: Dialogue for selecting an existing item - extract

Select an item from the hit list and click Add component. The dialogue closes. The new item is displayed in the component hierarchy for the initially selected item. Click the Save option to save the initial item. The component is always saved in the packaging item that contains the component.

Change number of components

The number of components contained can be easily changed in the component hierarchy. To do this, select the Edit Option and change the amount.

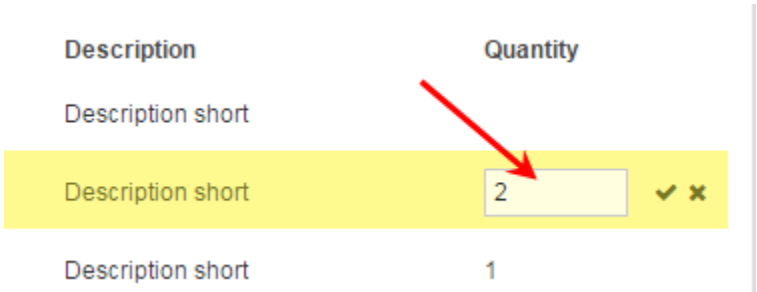


Figure 88: Change amount of contained Components

The dialogue that now opens allows you to simply enter the number of components contained and select *ok*. The hierarchy is then updated accordingly.

Remove Component

To remove a component from the hierarchy, select Remove packaging. Please note that this option is deactivated if you have selected the root node of the hierarchy. Confirm the operation in the safety prompt that now appears. The component hierarchy is updated: The removed packing unit and any larger units below it is no longer displayed. Only items with the processing status New or Not Released can be removed.

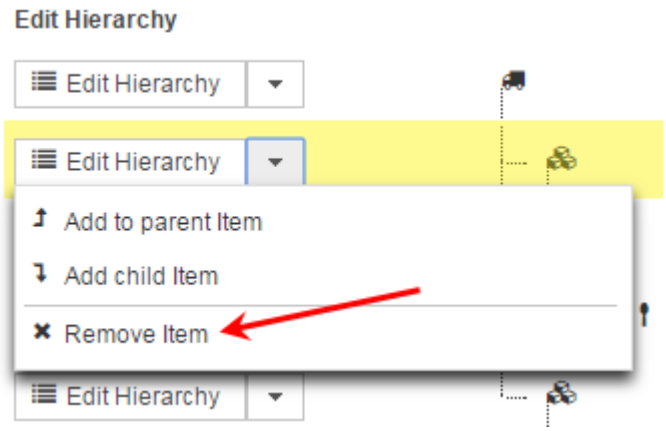


Figure 89: Remove Component

Recipient feedback (CIC's)

The Exceptions widget is located on the right-hand side. The widget can be opened by clicking on the Plus symbol or minimized by clicking on the Minus symbol. The number of contained exceptions is displayed in the tab title in a different color.

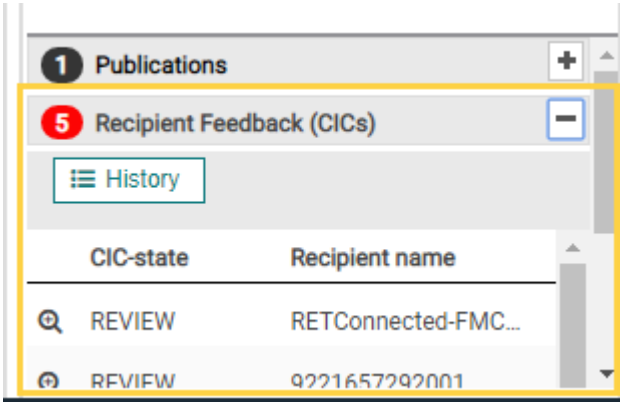


Figure 90: Exceptions Widget

The information on the GS1 RESPONSE received is displayed here. The Exception Widget clearly lists all exceptions with date and error code. The widget displays the first characters of the detailed message. Messages, date, exception numbers and exception texts form a unit. If you hover the mouse over this unit, a link cursor will appear, and a tooltip will open that starts again with error code and date and then displays the complete error message. Once

the error is corrected you can click on the icon mark as done. This will remove the error status.

Info Panel, Recipient Feedback (CIC's), Publication Info

On the right side of the editor there is an information panel which contains information on publications, CICs, and exceptions in addition to information on data quality. In addition, the widget has a list of context-related tutorial videos to support data editing.

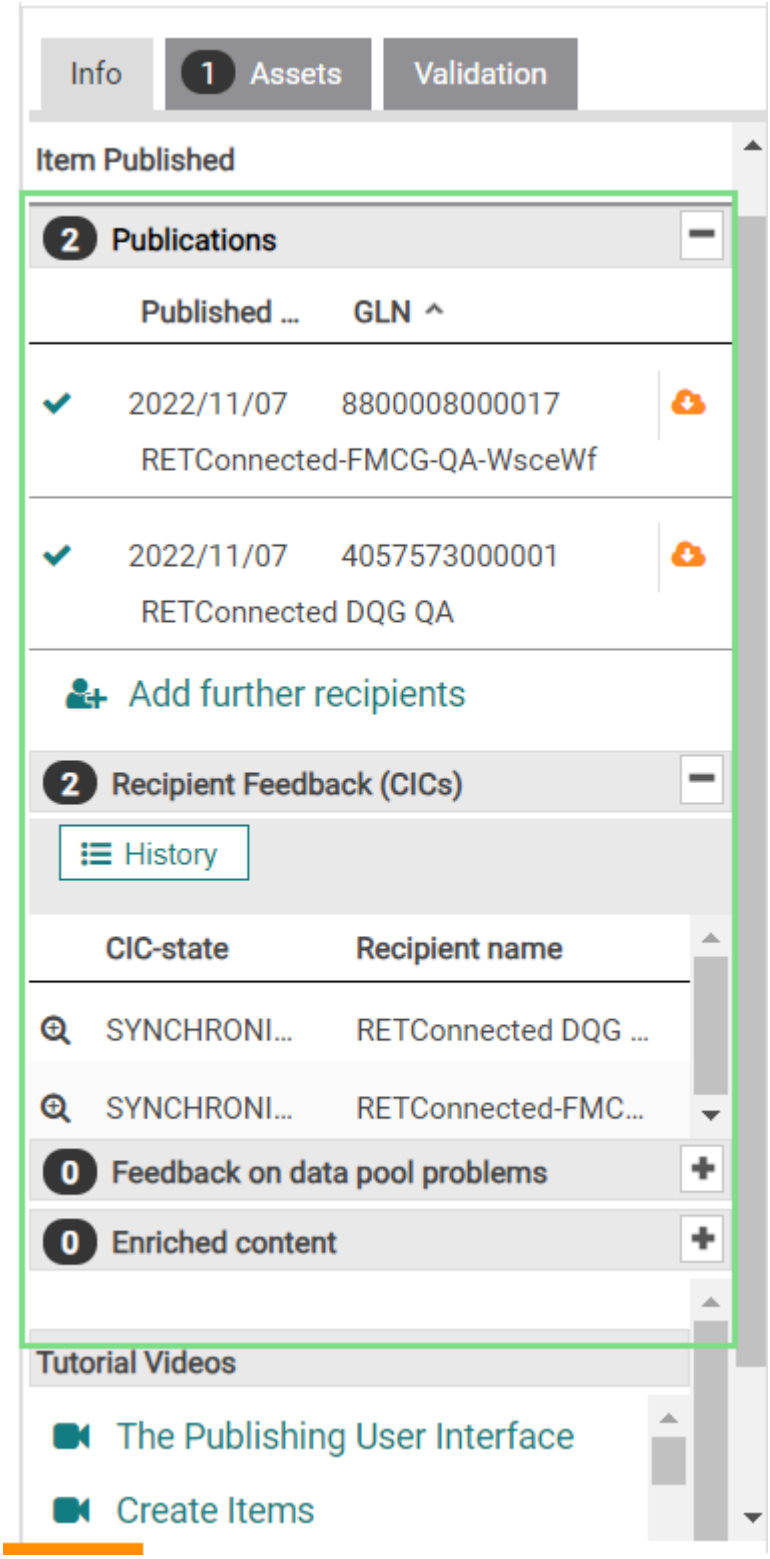


Figure 91: CIC Summary

Black number panels give information on how many publications are existing for an item, how many CIC messages have been received as feedback or also the number of exceptions.

If there are any open CICs with state review (that means your item recipient has detected that something may be wrong and advises you to check), the number bullet will turn over to a red color.

Recipient Feedback (CIC Summary)

The Recipient Feedback widget displays the number of received CICs and gives an overview of these responses. The most recent CIC for each retailer is displayed here.
The widget shows the CIC status icon, the to do state and the item recipient.

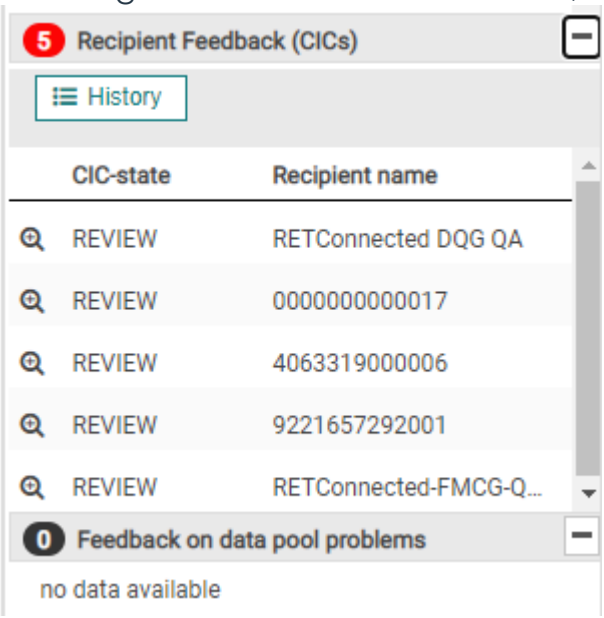


Figure 92: CIC Summary

Clicking on the status item will open a pop-up window with more information about the CIC if available. Once you have reviewed the CIC you can change the to do state to done by clicking the *mark as done* icon.
Please note that only the most recent CIC from each retailer is displayed here. If you have received several CIC from the same retailer and wish to view all CIC, you can open the entire list by clicking on the *History* icon. This list opens in a separate pop-up with more detailed information. For a list of the icons displayed please see chapter CIC state.
The CIC list is only filled with CICs in the published level.
If this level is changed, saved, and released, the list empties completely and fills up again after the CICs arrive based on the latest CIN or adjustments to the product information. Changes to products that are not directly published do not trigger an emptying of the list.

Publication Info

The Publication Info widget displays the number of publications. It indicates the publication target (retailer or target market) as well as the publication date and delivery state.

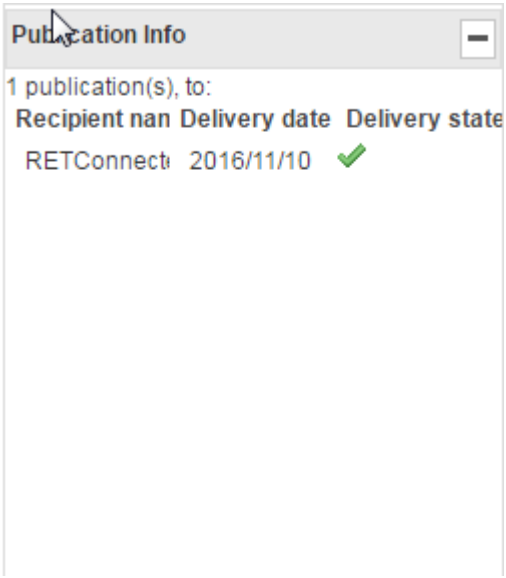


Figure 93: Publication Info Widget

You can carry out the following actions:
To publish the item, see chapter "Publish items" for details.
To unpublish the item, see chapter "Unpublish items" for details.

Assets Tab

On the Assets tab you will find the Digital Assets assigned to the item. Below each asset, you will find a link called " Make Primary " that makes the selected digital asset the primary asset. Please note that only one Digital Asset can be marked as Primary.
The primary Digital Asset is not only the one that is now displayed as a Thumbnail in the item hit list, but it is also marked as the primary digital asset within the CIN XML.

The assets can be edited, added, or changed from here. For example, the name of the linked asset can be modified via the "Edit" button.

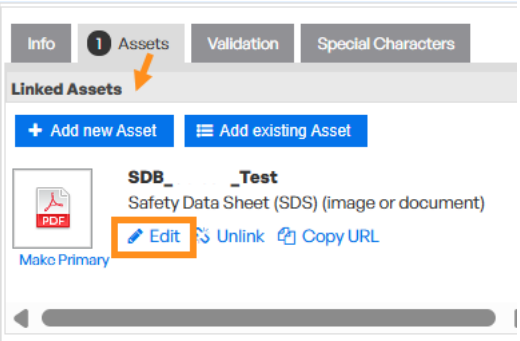


Figure 94: Editor: Edit function for linked Assets

Tip: The key combination Ctrl + Shift + arrow key right → can be used to hide the information panel on the right side. The same key combination can be used to undo the process.

Validation

The Validations section offers a data check according to the validation rules of the system.
You will find filters that allow you to view warnings, errors, DQG warnings (if available) or Data Intelligence notices.
Validation messages are displayed in a box tile format. A clear color scheme separates the different types of messages, such as errors and warnings.

In addition, validation messages that are the result of a hierarchy validation, such as occurs when an item is released, are clearly divided into collapsible sections that indicate the GTIN, hierarchy level and number of messages that appear for them.

Each validation tile has a clearly labelled "Review" button which, when clicked, leads directly to the corresponding input field. Each tile can also be closed via the cross in the upper right corner. This allows the message list to be worked through.

Validation must be activated manually via the Validate button in the toolbar or in the Info panel under Validation.

Input help in the editor

There are several input helps integrated into the editor. The following functions are explained in this chapter:

- Attribute validations
- Attribute definitions
- Attribute groups / repeatable attribute groups
- Usage of code lists
- Date selection via calendar function

Attribute validations

Some attributes will be highlighted in the UI during editing and saving. You will notice an information bubble next to the input field for the attribute that indicates data is missing or incorrect.
Mandatory and conditionally mandatory fields are indicated with a red dot which provides a mouse-over text where the error or the missing data is described.

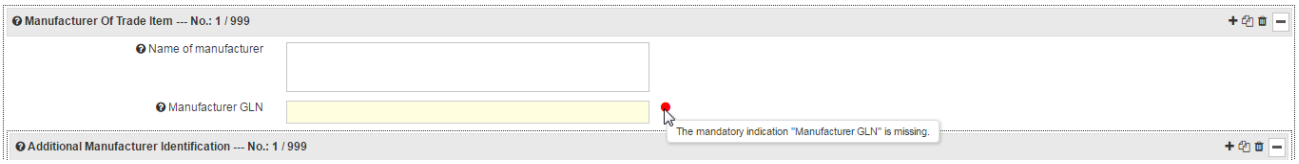


Figure 95: Example of a mandatory attribute field

Your data is checked while you are entering it. After saving your information a Message is displayed in the area below the Editor.

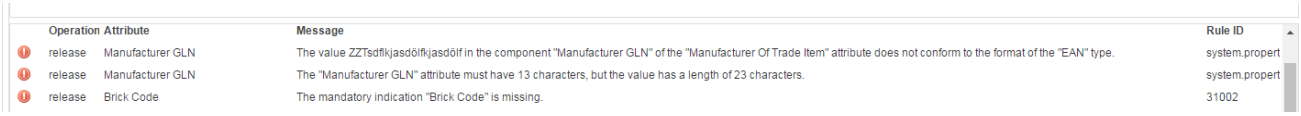


Figure 96: Example of a Message warning for an incorrect entry

The values for some attributes, for example the Target Market Country Code, are set by default and cannot be edited. These attributes are displayed in the item editor but are grayed out. The data entry fields for these attributes are not accessible.

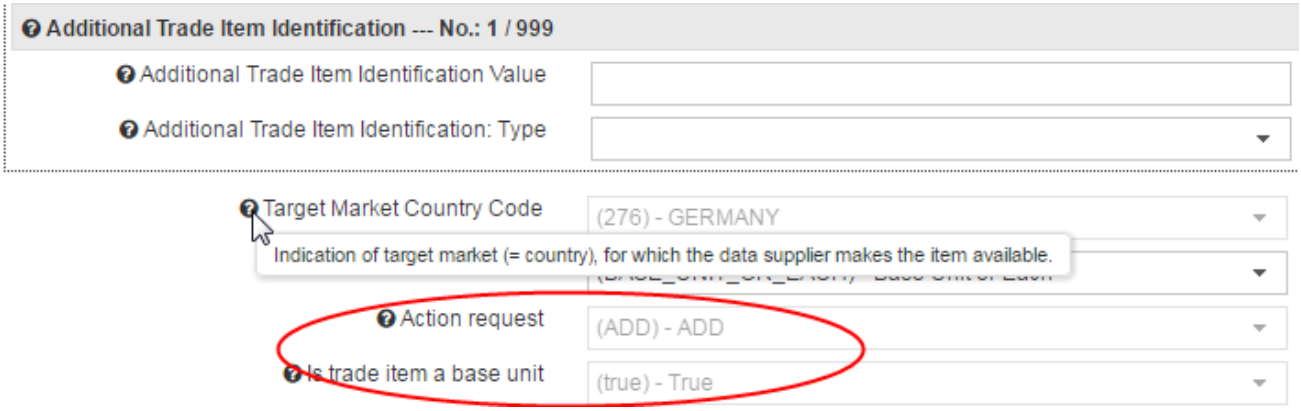
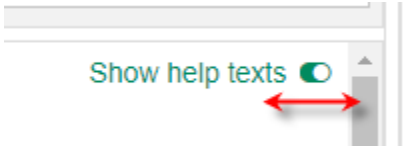


Figure 97: Example of a non-editable selection and input field

Attribute definitions

Each attribute has a definition which can be viewed as a tooltip in the UI.
If the function *Show help texts* is activated in the editor,



An information text is displayed for each editing field.

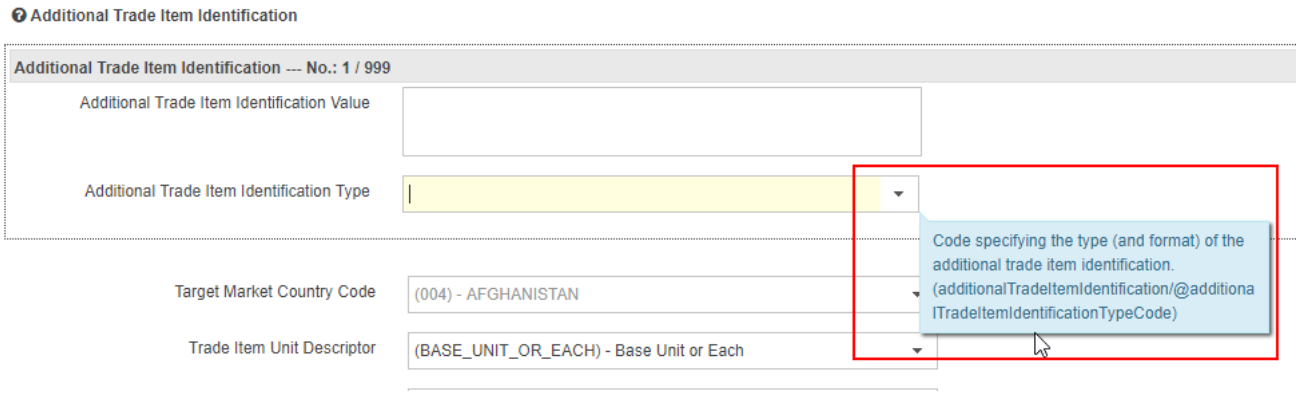


Figure 98: Show Help Text of the editing field

These tooltips will immediately appear as soon as a user enters an input field in the item editor. Tooltips will stay if the field is focused. They can be enabled and disabled at any time by using a slider on top of the page.
The tooltips will give brief information on the attribute, what it means and what needs to be filled in. The level of Information varies on the attribute the user is working on.

Attribute groups / repeatable attributes

Some attributes are part of attribute groups and are grouped together in the UI.

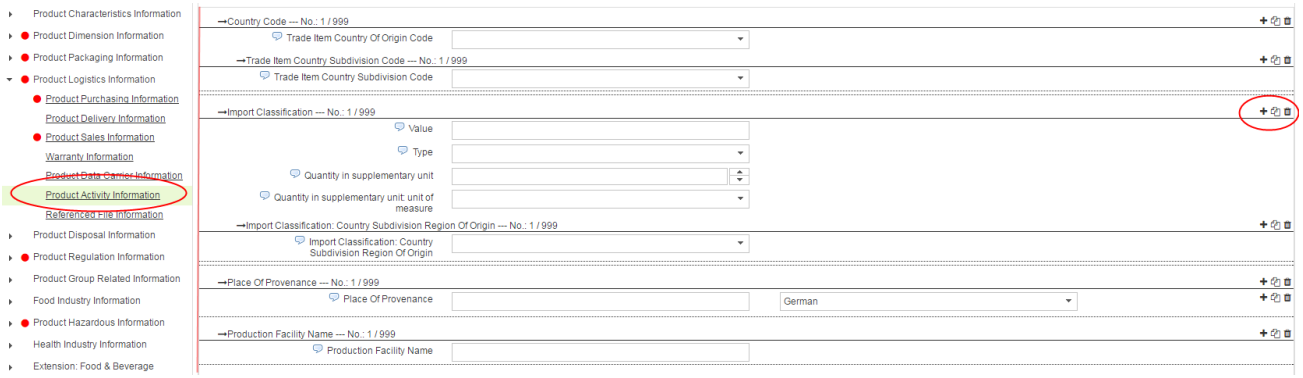
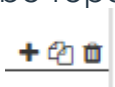


Figure 99: Example of the display of a structured attribute

These groups can be repeated, to add a repetition use the icons in the top right-hand corner.  The Plus button adds a new repetition. The Copy button copies the existing attribute, including all values entered. Use the bin button to delete an attribute.

Date selection via calendar function

All attributes that are defined as a date or date-time in the system have the calendar function displayed in the UI. Simply click the calendar icon next to the attribute to open the calendar. Use the arrow buttons to select year and

month and then click the required day. The calendar closes and the selected date is displayed in the input field.

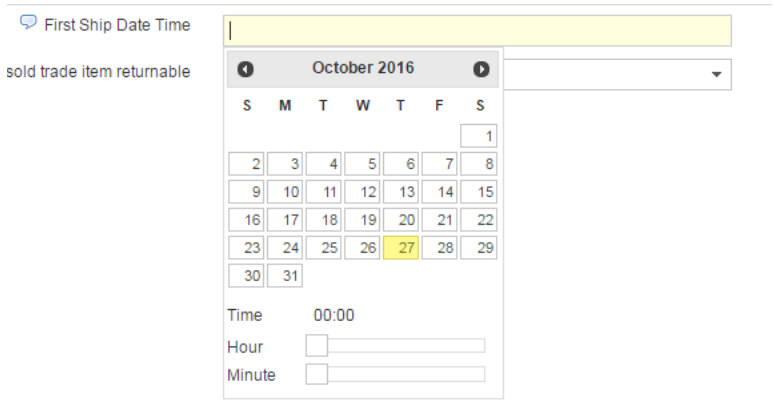


Figure 100: Option for calling a calendar

If the attribute is defined as date-time you are also able to specify the time at the bottom of the calendar. Please enter the time first and then select the date. If you enter the date without entering the time, the system will set the time to 00:00 by default. Note: The time zone is determined by the time zone setting of the application.

In addition, the current date can always be accessed and selected using the date picker.

GPC Browser and Prediction Service

GPC Browser

The GPC Browser provides an easy way of navigating through the Global Product Classification (GPC). The browser displays the complex hierarchy of the Segment, Family, Class and Brick codes.

Attribute Reduction based on GPC (Dynamic UI)

Important: The availability of this feature depends on the existence of configuration files for the selected target market.
If the Dynamic UI is available to you, attributes will be narrowed down by default. This process of creating items via the wizard is described in section Dashboard, Item Creation Wizard, p. which leads you from identifying your items and selecting a proper GPC in the last step leads finally leads you to your item in the item editor with only the necessary attributes in sense of the current GPC selected.

Important: You always have the possibility to show all items by turning the Dynamic UI filter off. This can be achieved by clicking the switch offered in the upper left corner of the item editor from *Recommended* to *All attributes*. When clicking the switch, the visible attributes in the item editor will change.

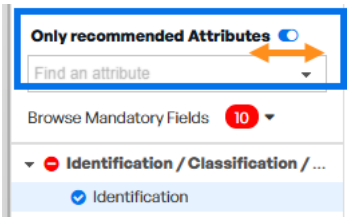


Figure 101: Option to display or reduce available attributes

There are several ways to fill in the correct GPC Brick:

1) Select classification manually from the list. Therefore, hit the green button Browse List to start the operation. Activating the Browse List button opens a list of all codes with the respective sub codes displayed. Click the relevant segment and open the tree beneath it, to specify your selection.
2) Select classification manually from the drop-down menu Segment, Family, Class. The system automatically populates all levels – Segment, Family, Class and Brick, of the GPC with the correct codes.
3) Type in classification directly. If you already know the correct code, you can enter it directly in the search field and click on the Search button. Depending on the level of the code, all fields below will be populated automatically. As shown in the screenshot, if you enter the code at class level the brick code will still have to be specified. The drop-down menu provides only the relevant codes.

Please note: The entry field on the top level only accepts complete codes. All other fields will automatically provide suggestions if you start typing the code.

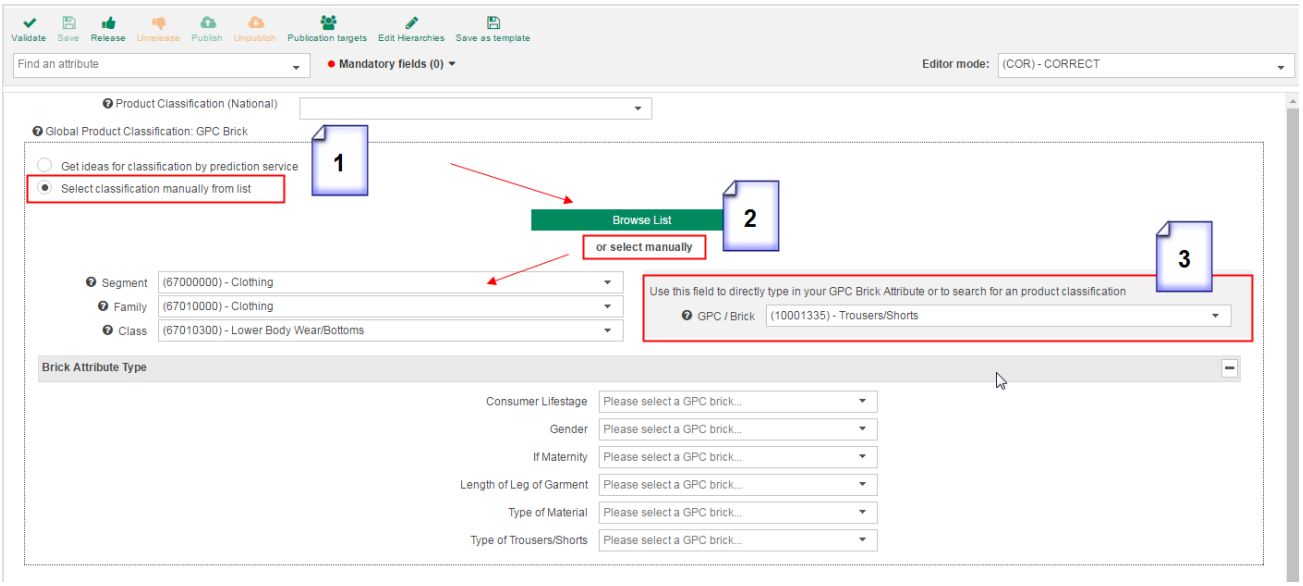


Figure 102: Classification and GPC Prediction Service

GPC Prediction Service

With the GPC Prediction Service, you will receive suggestions for the correct classification based on your product description. The proposals are obtained based on regular evaluations of the database. All items with similar product names are evaluated and the most likely classifications are suggested to you. To easily categorize items, the GPC Prediction Service recommends a list of GPC brick codes, while entering the item data. The functionality works as follows: Based on the input of Brand Name, Short Description, Description and Functional Name the software will propose a list of possible GPC codes including a percentage likelihood.

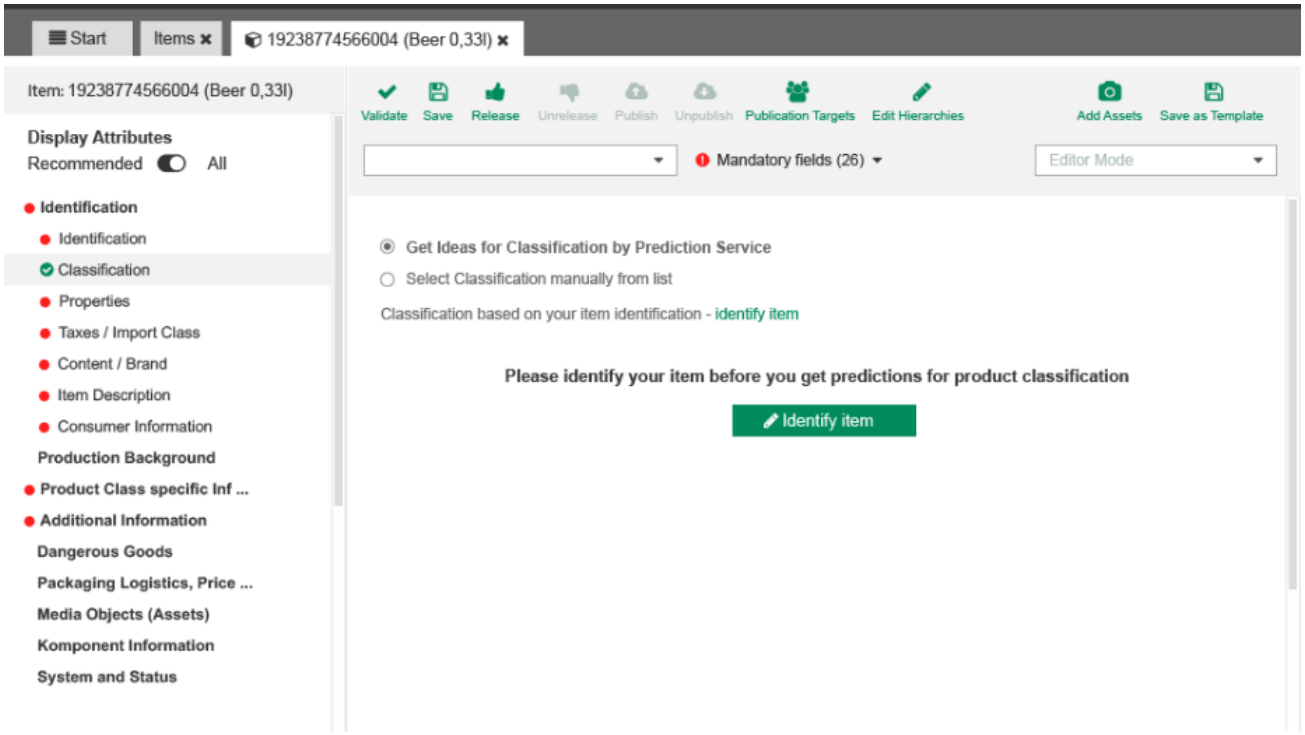


Figure 103: Identify Item for Classification and GPC Prediction Service

Once you have selected "classification" from the Menu you will get the above view. You have the option to get ideas for the classification by the Prediction Service or to select the classification manually from the list if it is known for instance. But first identify the item.

When browsing to the Item Classification within the ItemEditor, there will be the option Get ideas for classification by prediction service, which will bring up the proposed Codes. The proposed classification is based on your identification information.

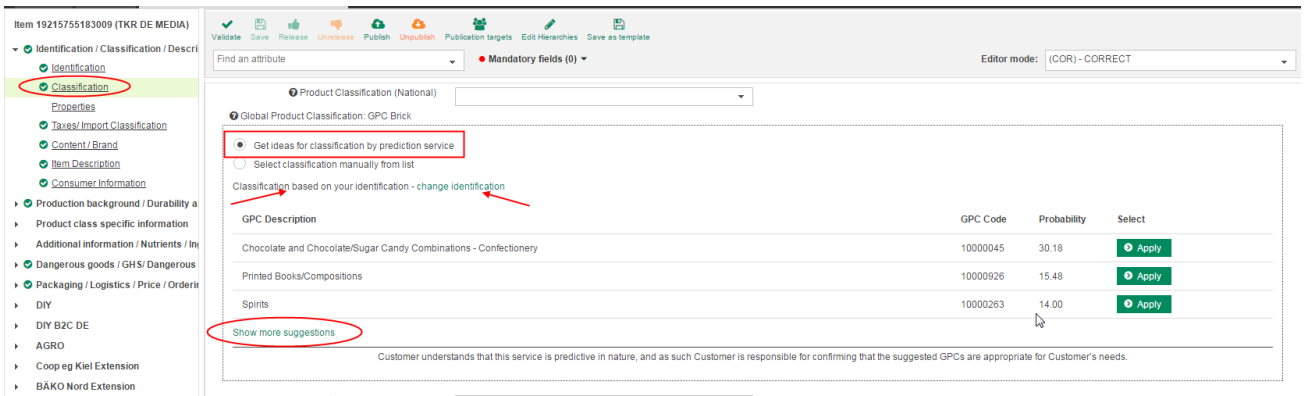


Figure 104: GPC Prediction Service

By clicking the **Apply** button the GPC code can be selected and applied to the item. If the content of the field above has been modified, a message box will ask the user if the modified identification should also be applied to the item.

If there are no corresponding codes, you can change the identification of the item by choosing change identification. With the now opened entry fields you can change the Description short, Trade item description, Brand name and Functional name of the item. This results in new proposed Brick codes.

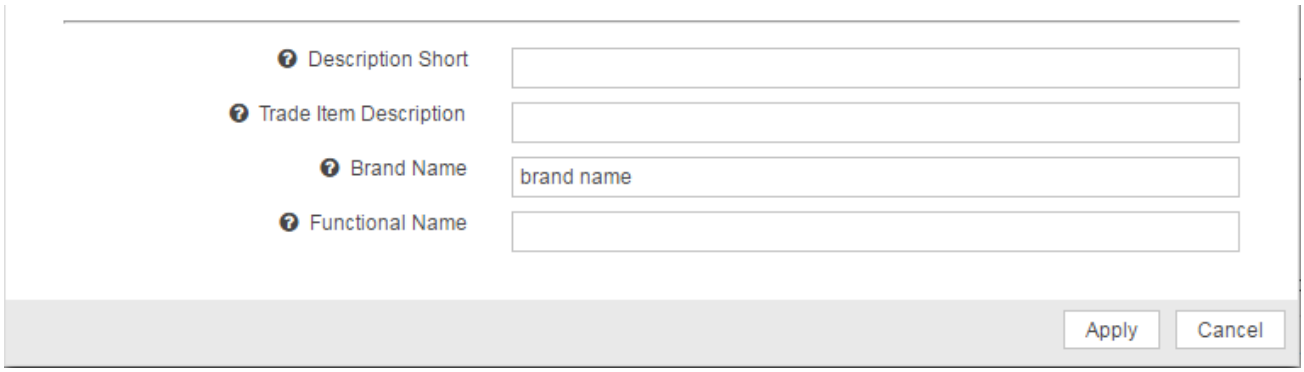


Figure 105: GPC Prediction Service, Change identification

For more results, click *Show more suggestions*.
However, the values can be changed and adjusted to get different results. At least one input field must be filled, but the more fields are filled the better the result of proposed codes will be.

Choose Classification

The radio selection has three options in case of GPC: "Use predicted classification", "Direct entry of product classes" or "Category Browser".

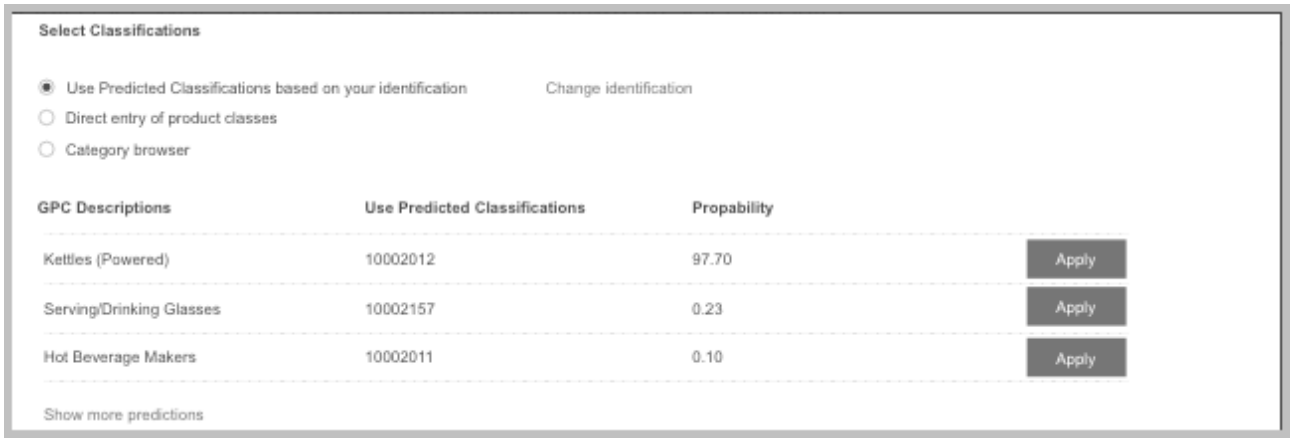


Figure 106: Choose Classification (1)

Default option is "Use predicted classification". Below each radio button there is a section where the details will be shown on selection.
The radio selection "use prediction service" is only available for classification GPC.



Figure 107: Choose Classification (2)

INTRASTAT Prediction Service

Intrastat is the abbreviation for the intra trade statistics of the European Union. The statistics serve to record the trade in goods between the 28 member states of the EU. In addition to goods that are bought and sold, Intrastat also covers the movement of goods that are moved between EU countries for other reasons.

Companies are obliged to submit a so-called Intrastat declaration. The system is based on EU Regulation No. 638/2004, supplemented by provisions of the Commission Regulation (EC) No. 1982/2004 implementing the EU regulation.

The Intrastat commodity code has a total of 8 digits. The 8-digit Intrastat number makes it possible to determine customs duties, textile categories, prohibitions, and restrictions or to establish authorization criteria. The 11-digit code number on the other hand is used for national purposes. It encodes national regulations or sales tax rates.

The export or Intrastat declaration requires the 8-digit Intrastat number, whereas the 11-digit number is used for the import declaration.

Intention of the service

1WorldSync Publishing will also display a validation error for a lot of base items addressing the German target market and that have assigned a certain GPC code.
For these items capturing an Intrastat number is mandatory. Especially for smaller suppliers, the identification of the correct number may be challenging, as the list of codes is large. The service should assist suppliers with finding the right code.

Function

The service is located within the tab *Item logistics → Item activity*.
The INTRASTAT code is required when creating a new item. As soon as INTRASTAT has been selected within the classification type drop down, a button appears, which can be used to show suggestions for the INTRASTAT-Number.



Figure 108: Choose INTRASTAT

If clicked, a list of possible matching intrastat codes will be shown. Intrastat number is organized as an eight-digit-number, the first list shows the top-level codes starting with six digits, for each top level there is a list of subcodes which can be opened by clicking the arrow button on the right-hand side of the list.

Each top-level code is displayed with a percentual likelihood. The best matching code is highlighted in bold font style. The list by default also shows only the top three values, up to ten proposals can be shown when clicking the *show more* button.



Figure 109: Choose INTRASTAT (2)

When clicking the arrow symbol on the top-level code, the sub codes will be shown in a separate list. The user can always decide to list the subcodes of another top-level code by clicking the appropriate arrow button within the top-level-code-list, which resides on the left.

By clicking the select link on one of the subcodes, the corresponding code can be applied to the import classification value field. The item just needs to be saved now and the code is selected.

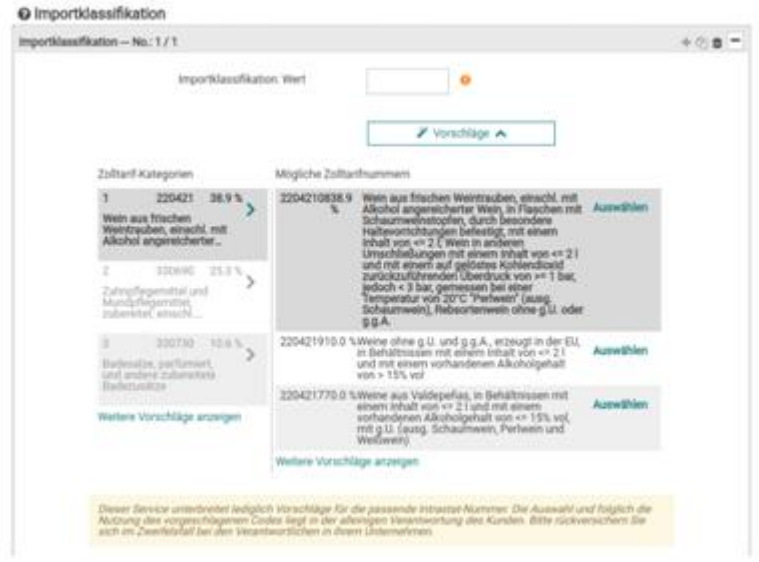


Figure 110: Choose INTRASTAT (3)

Specify the recommendation

The service utilizes the huge amount of data within the German data pool. This means several items are compared by their functional name, brand name,

short and long description, and their GPC brick. The service looks up the given intrastat numbers for these similar items and then provides the list of potentially matching codes.

Most of this information is usually filled out and maintained in the item, the more accurate information is maintained in these fields, the more accurate the suggested list results will be.

Using code lists

Code lists are handled via drop down boxes. To maintain these attributes, you can either navigate through the drop-down list or type in a search term. To open the drop-down list, click on the arrow . Depending on the number of codes contained in a code list, the drop-down list can be several pages long. Use the controls at the bottom of the list to navigate through the list.

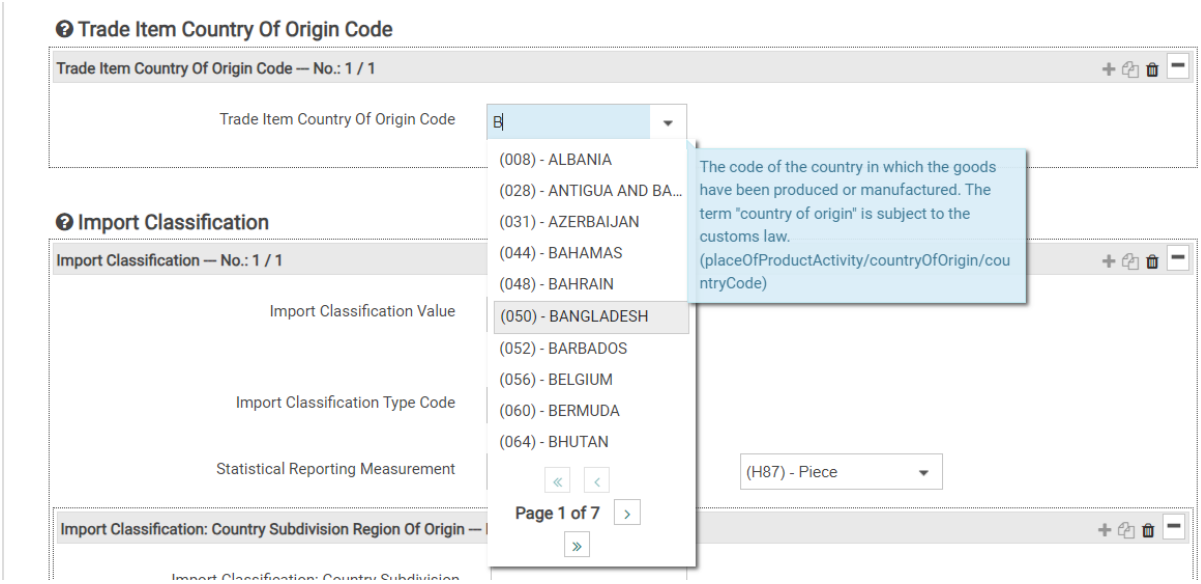


Figure 111: Using Code Lists – Drop down list

If you know either the code or the description it is easier to simply start typing in the input field. This will activate the search and you will notice the number of codes being reduced with every letter you type. It does matter whether you type the code or the description.

Trading Partner Dependent data

Depending on the system settings in the User Management, some attributes may be set to *trading partner dependent* which allows entering different values for individual customers. To populate customer specific values for non-repeatable attributes simply select the customer from the drop-down menu to the right of the attribute.

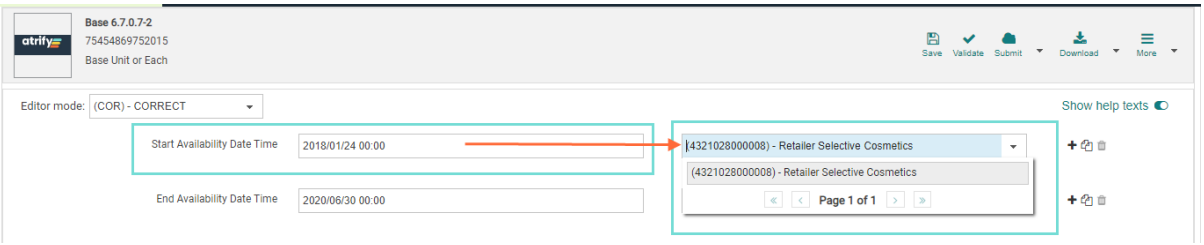


Figure 112: Trading Partner dependent Data

To add a value for a further customer, click ✚; to delete a value for a customer click 🗑; to copy the value, click ⧉.
To add customer specific values for repeatable attributes, please click ✚ on the right-hand side of the screen.
You will then be able to select the customer from the drop-down menu which opens in a separate window.
Select "Add" to add the customer. A new data record for the selected customer will be added and can now be populated.

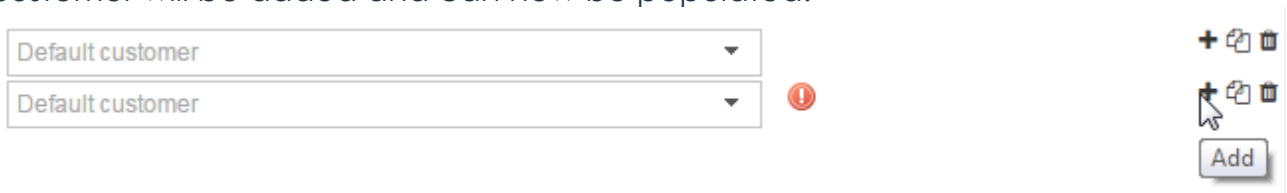


Figure 113: Trading Partner dependent Data, Add further customer

To add a value for a further customer, click ✚; to delete a value for a customer click 🗑; to copy the value, click ⧉.

Multilingual attributes

If your system is configured to include multilingual attributes you will see a language selection next to some attributes. The languages can be selected from the drop-down menu. Depending on your system settings, the number of available languages can be reduced.



Figure 114: Multilingual attributes

The languages can be selected from the drop-down menu. Depending on your system settings, the number of available languages can be reduced.

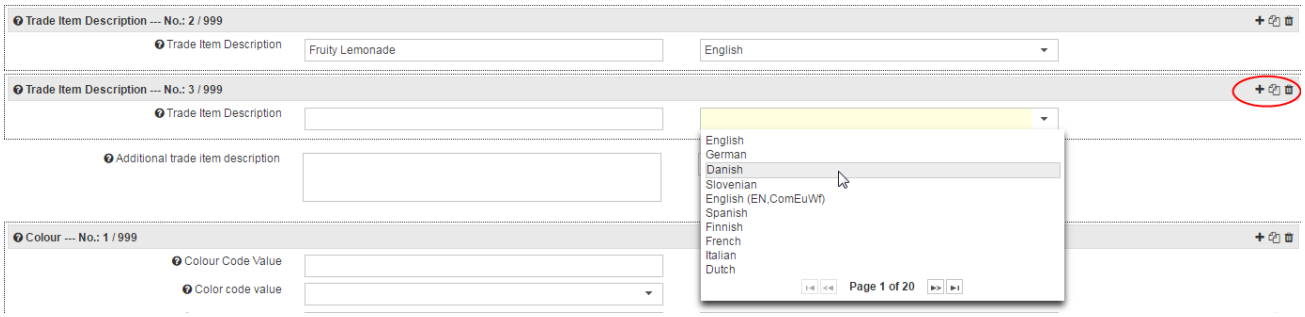


Figure 115: Add, copy, or delete values

Create Items

To create new items, open the item hit list. The application offers you the following possibilities.

- Using an Empty Form
- Copying an existing item
- Using a template

Create Items using an Empty Form

To create a new item, select the "Create" option from the Dashboard or the hit list function bar.



Figure 116: Create Option

The Create Item dialogue opens.

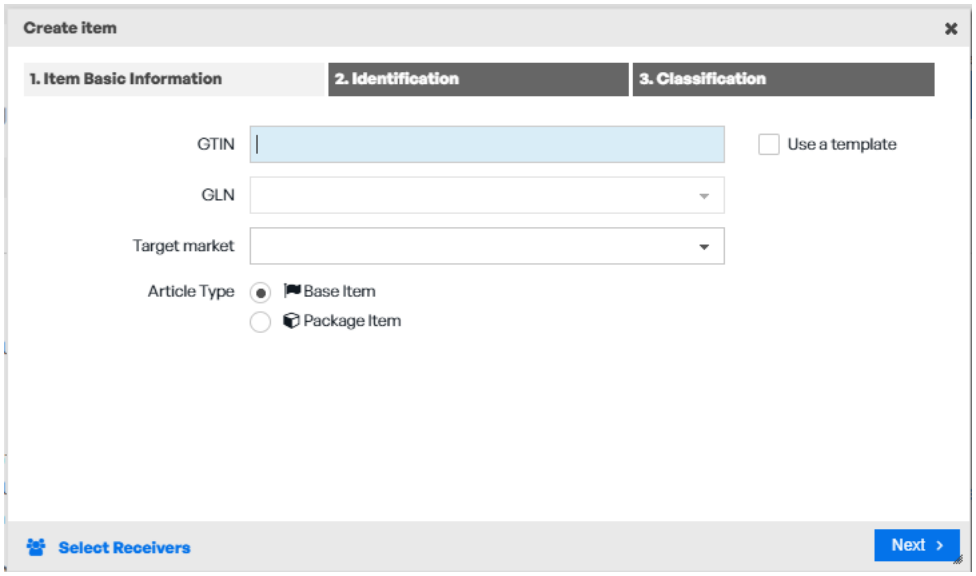


Figure 117: Create Item Dialogue

Leave the Template field empty here and populate the primary key data. The primary key uniquely identifies the new item. Please make sure you are entering the correct values for this data since it cannot be changed once saved. The primary key consists of three parts:

- the GTIN of the new item.
- the GLN of the item owner is already populated by the system.
- the Target market – needs to be selected from the drop-down list

Choose the correct Item Type, to define the new item as a Packaging item or a Base Item. The default setting is Base Item, which is the smallest unit of an item hierarchy.
Click Next to assign possible data recipients (retailers) the new item shall be published to. This is necessary if you wish to activate any retailer-specific validations.
Click on *Create* to open the item editor. You will then be able to save the item for the first time. Saving will add the item to the system. Clicking *Cancel* closes the dialogue without creating a new item.
To complete your item, you must at least populate the mandatory attributes. These attributes can be easily identified in the UI by checking for warning icons. Alternatively, click the symbol to generate a validation report with a list of attributes not populated correctly. Clicking on the attribute in the report will automatically take you to the attribute in the UI. Once the validation report states the item has no errors, it can be released and published.

Create Items by cloning an existing item

You can clone an item to create a new one and then make the necessary changes in the item details. Select the item you wish to clone from the hit list. Then select the *Clone option* in the hit list function bar.

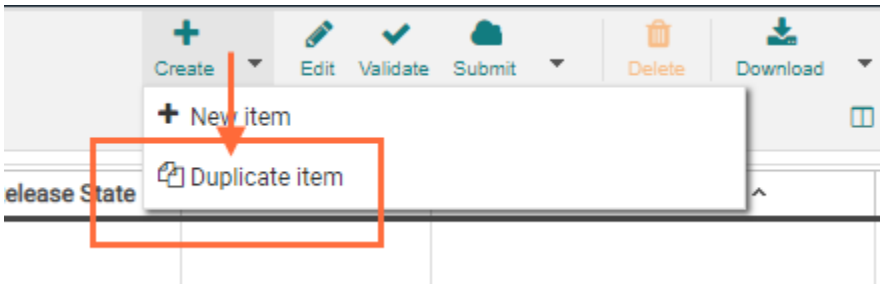


Figure 118: Duplicate option for existing items

The dialogue box for the primary key data of the new item now opens and must be populated. The primary key uniquely identifies the new item. Please make sure you are entering the correct values for this data since it cannot be changed once saved. The primary key consists of three parts:

- the GTIN of the new item.

- the GLN of the item owner is already populated
- the Target Market

Clicking Cancel closes the dialogue without creating a new item.
Click "Next", to assign possible data recipients (retailers) the new item shall be published to. This is necessary if you wish to activate any retailer-specific validations.

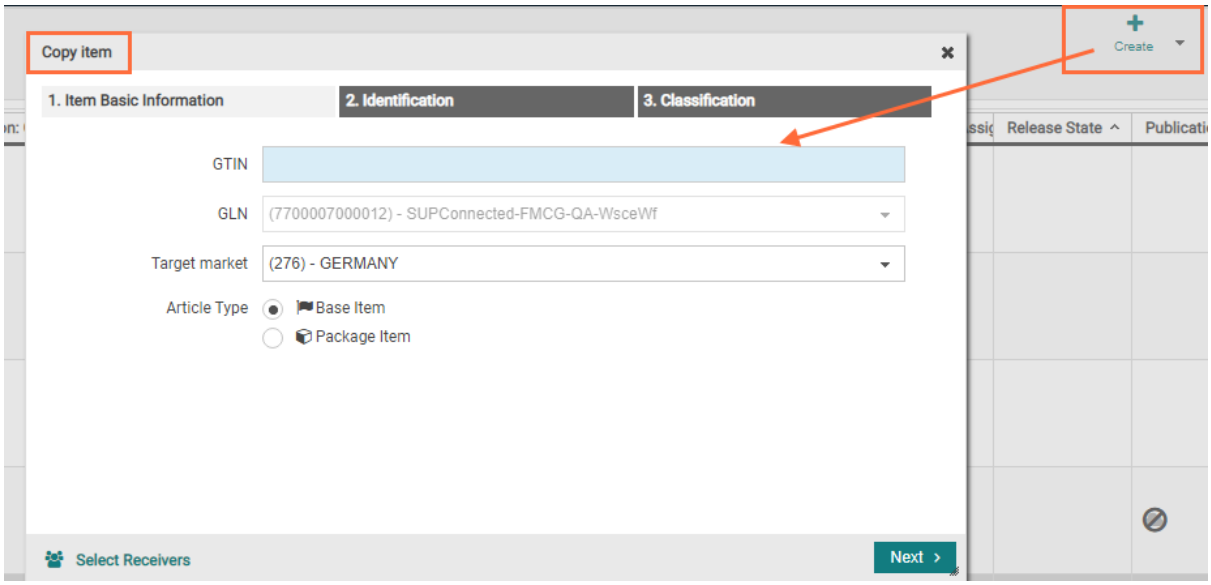


Figure 119: Dialogue box for cloning item

Clicking Create generates and opens the new item in the item editor on a new tab. Please note: Except for the primary key, the data contains the values of the copied item. If the copied item is part of a hierarchy, the hierarchy is not copied. Only the item itself is copied. The new item is not automatically released and published even if the copied item already has been released and/or published.
See the Training video to clone an existing item.

Note: Cloning items between DACH & other European countries is not possible.

Create an item using the template function

You can create and maintain templates (see 'Template List') that can easily be populated when creating a new item.
Templates can be opened and edited from the drop-down menu in the 'Create Item' dialogue.

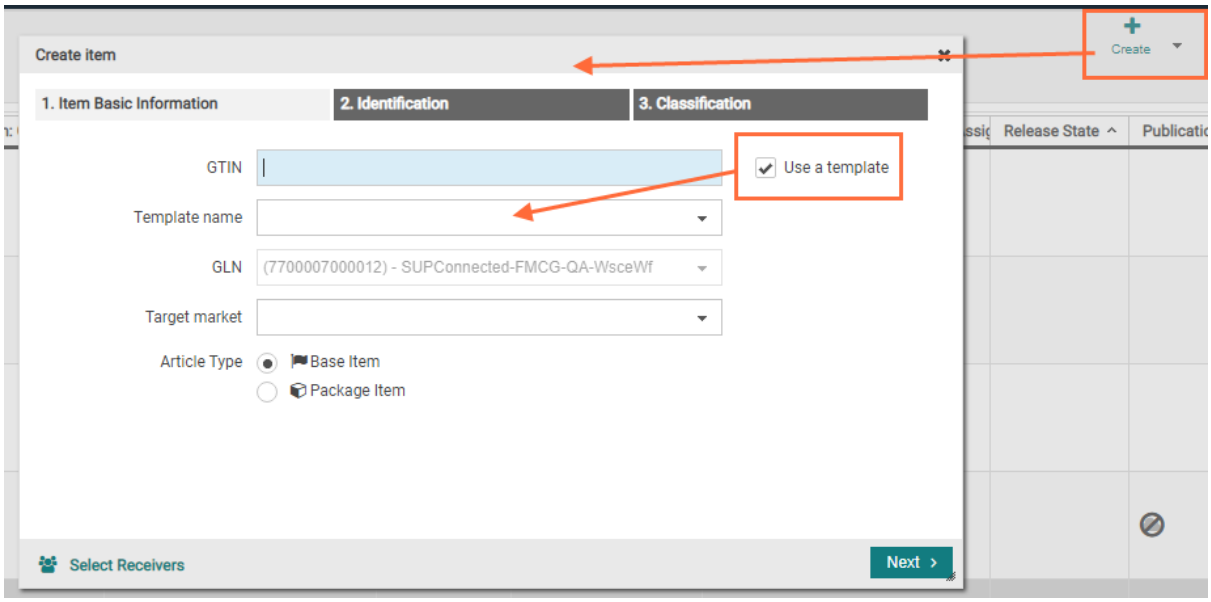


Figure 120: Create item using a template

All available templates appear in the template drop-down menu of the 'Create Item' dialogue.
Select the template you want to use as the basis for creating the new item. The unique primary key of the new item does not come from the template, and must be entered here additionally:

- the GTIN of the new item.
- the GLN of the item owner is already entered.
- the Target Market is to be selected from the dropdown list

Now select the Article Type of the new item to either Package or Base Item.
Clicking Cancel closes the dialogue without creating a new item.
Click Next to assign possible data recipients (retailers) the new item shall be published, too. This is necessary if you wish to activate any retailer-specific validations.
Finally, clicking Create generates and opens the new item in the item editor on a new tab. Please note: Except for the primary key data entered here it contains the values of the template.

AI-based item creation "AItem" (only for users of the DAM function)

An AI-based function as a user of the digital asset function is available to you. You will find this function under the familiar "+ New" or "+ Add" buttons.

"AItem" allows to create new basic items much faster. By uploading image material under the AItem assistant, our AI is activated, which extracts relevant product information from the visual data and automatically enters it in the designated attributes. In addition, the product images used are automatically linked to the item.

The function saves time when creating new items and increases the quality of the master data.
The function is only available for basic items, not for upper hierarchies.
The function is only available for new items and not for existing items.
The function is only available in conjunction with DAM. Users who have not activated the DAM module cannot use this function.

Available formats

TIFF, PNG, PDF, JPG

Available attributes (beginning of beta phase)

1. energy value: kcal (M052)
2. energy value: kJ (M053)
3 Compulsory additive label information / Language (M094)
4. consumer storage instructions / Language (M362)
5. ingredient statement / Language (M047)
6. local packaging marked label accreditation code reference (M310)
7. net content / UOM (M281)
8. packaging marked label accreditation code (M309)
9. regulated product name / Language (M261)
10. trade item identification: GTIN (M017)
11. contact address of distributor (M371)
12. contact information for consumers: link (M376)
13. contact name of distributor (M370)
14. health mark (M037)
15. organic certification body (M159)
16. nutrient basis quantity / UOM (M072)
17. nutritional content information: Component (M057)
18. nutritional content information: Value / UOM (M059)
19. communication channel: link (M376)
20 Brand marketing description / Language (M529)

Language Reference

Please note that the current AI model has only been trained and tested with German-language items. Therefore, when processing texts in other languages on your products, it may be difficult to read them correctly and assign them to the corresponding GDSN attributes.

The function described is subject to a charge after the end of the test phase.

Retailer specific validations

Before clicking Create in the Create Item or Copy Item dialogue, possible data recipients (retailers) can be assigned. This activates retailer-specific validations

right at the beginning of data maintenance. The items will be validated against the rules of the selected retailers. The retailer-specific validations will be included in the validation report.
A list of possible publication targets set up here will be offered in the publication dialogue when 1WorldSync publishes the item. You will be able to choose individual recipients from this list.
To assign possible publication targets, click the button "Next" and choose your recipient.

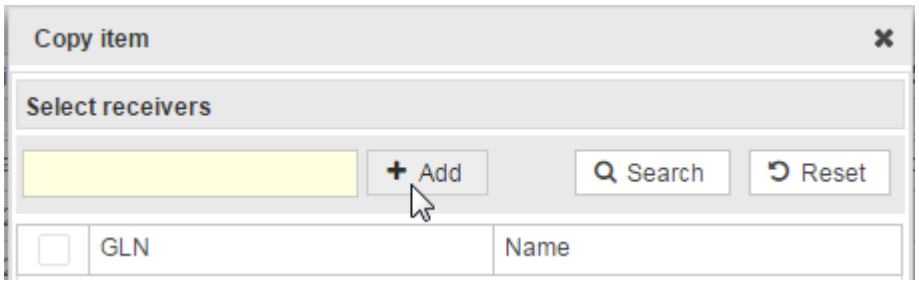


Figure 121: Select recipients' dialogue

Click create to enter the item editor.
Add possible recipients to existing items.
You can add possible recipients to existing items as well. This can be done either from the hit list or from the item editor. Click on the *Maintain possible publication targets* button and proceed as described above.

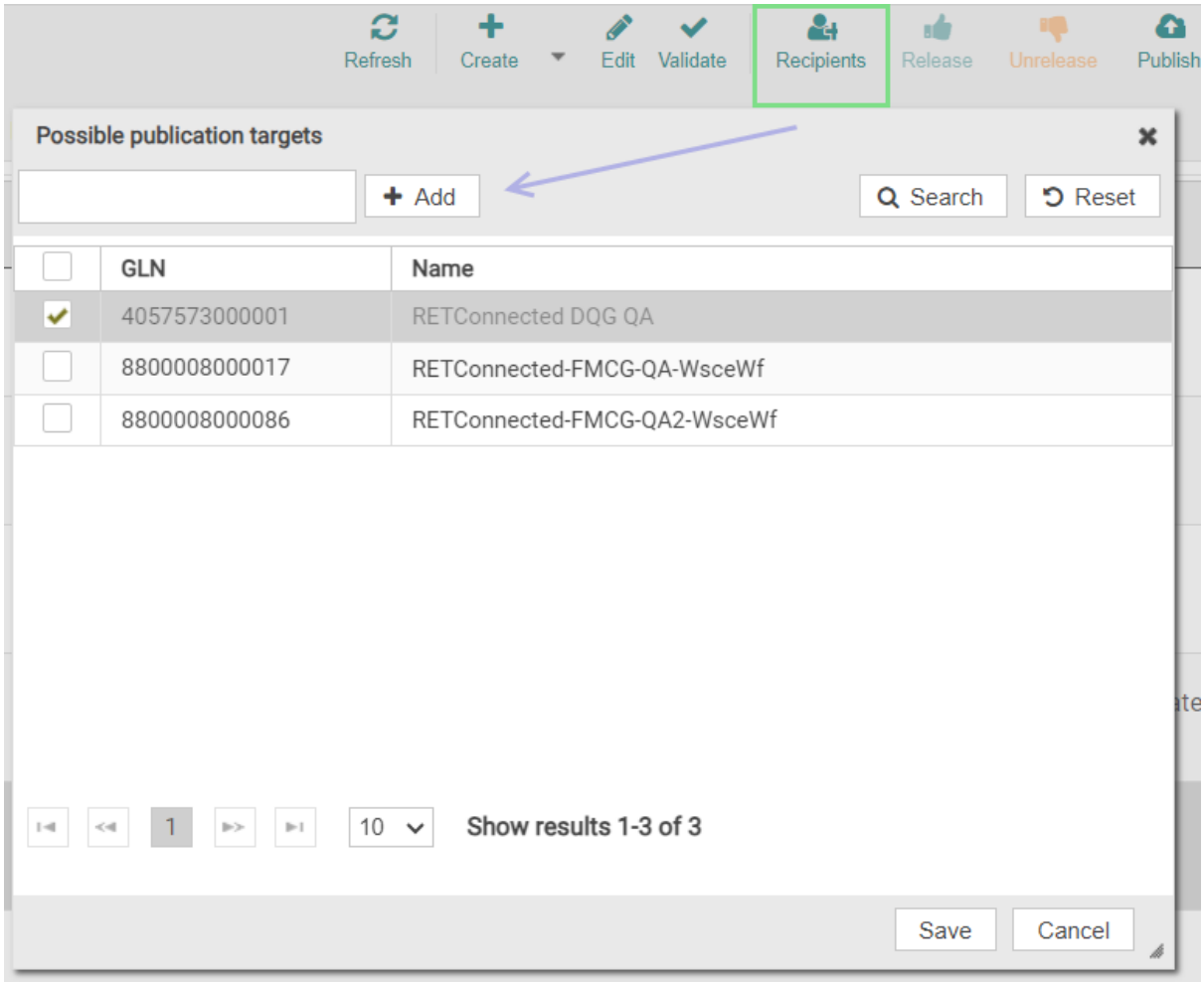


Figure 122: Add possible recipients from hit list

Edit Items

You can open the item from the hit list and make the necessary changes to the item.
Items can be edited regardless of their state (Draft, Released or Published) but please note that items might have to be released again manually depending on their status prior to editing.

Edit Item in the Item Editor

The following applies to new, released, published or unpublished items:
Select the item(s) you want to edit by flagging them in the list. Then click the Edit option in the function bar to open the item editor.
Alternatively, an item can be opened by double-clicking on it.
The item editor of every item opens in a separate tab while the hit list remains open in its own tab. This allows you to easily switch between the various items and the hit list.

When entering the item editor in 1WorldSync Publishing and browsing to the classification by using the navigation in the upper left, there is the possibility to choose multiple classifications for the trade item
Now make the necessary changes to the item.
Save the item after you have made all necessary changes. Validate, release, and publish the item.



Figure 123: Edit option in the Item Editor

Refresh Option

Without having to open the items again, you can, for example, display the current publication status.

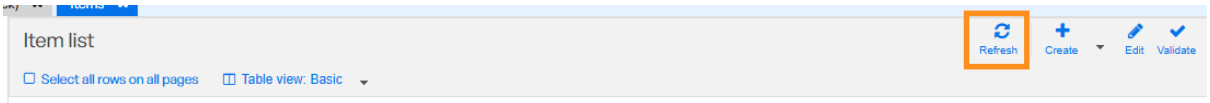
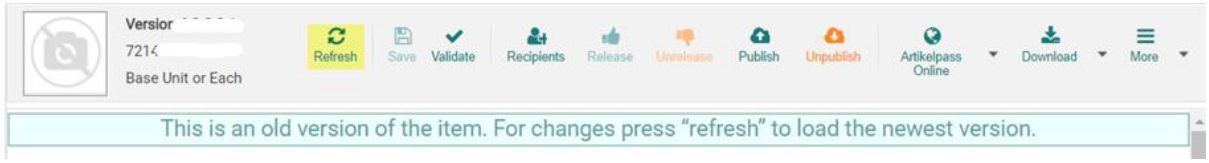


Figure 124: Refresh option in the item hit list



Another advantage is the new indication that a user is working on an old item version. Clicking the refresh button will bring it to the latest version.

Edit a Released Item

Select the item(s) you want to edit by flagging them in the list. Then click the Edit option in the function bar to open the item editor.
Now make the changes to the item(s).
An already released item, which has been modified, will be automatically set to status Pending Release. The item must then be released again manually by the user. See section 'Release Items'.

Edit a Published Item

Select the item(s) you want to edit by flagging them in the list. Then click the Edit option in the function bar to open the item editor

If the item has the processing status Published, the default mode for the edit form is the *Change*. You can switch the edit form between Change mode and Correction mode in the editor.

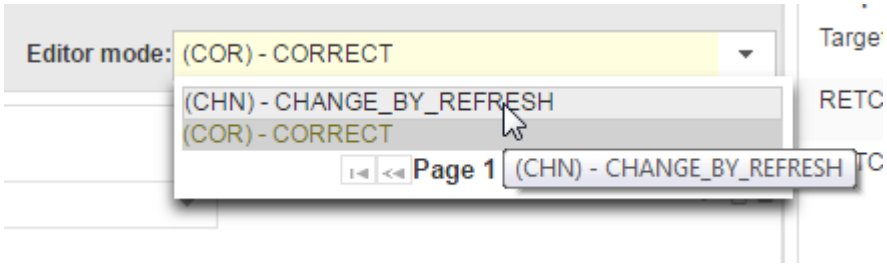


Figure 125: Change mode option

Correct is intended to fix erroneous data whereas *Change by refresh* is intended as a modification of actual values. Selecting *Change by refresh* means new version and you must select a new start validity date.
Now make the required changes.
Once you have made your changes, save them by clicking the *Save* icon. A validation report appears.
The processing status changes depending on the initial status of the item before it was edited.
Published items have the trade item status Changed or Corrected depending on the editing mode you used.
The publication status is *not changed*. An already published item, which has been modified, will automatically be set to *Pending Release*. The item must be released again manually by the user. See section 'Release Items'.
A validation report is displayed in the Report section of the item details area.

Add a Digital Asset

To add a Digital asset and to link it to an item choose the tab "assets" on the right-hand side of the item Editor. Then choose one of the options "Add new Asset" "Add existing Asset".
"Add existing Asset" opens a list of almost existing and linked assets you can choose from.
"Add new Asset" offers the possibility to upload a new digital asset and link it to the current item. Follow the Creation Wizard that is opened. For further details see section Creation Wizard for Digital Assets, page 170 in the DAM Description.

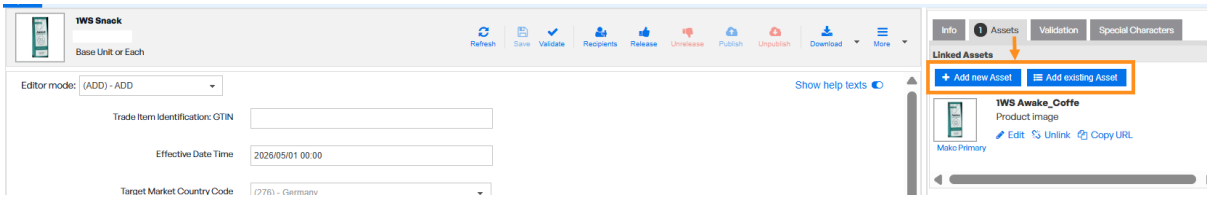


Figure 126: Add a digital asset

Image obligation (from February 2023)

From February 2023, the provision of images via the Global Data Synchronization Network (GDSN®) will be mandatory according to the Community Decision. This will affect all data providers who supply new consumer units in the food and near-food product groups to retailers.
There must be at least one product image per GTIN for each new consumer unit in the data set. The product image shall comply with the image size, format, clipping path, color profile and file name specifications set out in the image standard.
All relevant specifications and standards to produce product images as well as for the naming of media files can be found in the GS1 Germany application recommendation "Product Images and Media Assets for Strategic Brand Management and Successful Content Marketing". Among other things, it contains important information for the exchange of image data via the Global Data Synchronization Network (GDSN) for the German target market.

Comparing Item Revisions

To compare revisions (Draft versus Released) with one another, Publishing offers a “Compare Item Revisions” feature.
In the item's detail view, there is a “Compare Revisions” button. When you click the button, a new
tab opens and compares the latest revision with the current revision of the same GTIN. The button is disabled if fewer than 1 or more than 2 GTINs are selected.

Note the “Pagination” if one GTIN is selected on page x and a second GTIN is selected on page y.

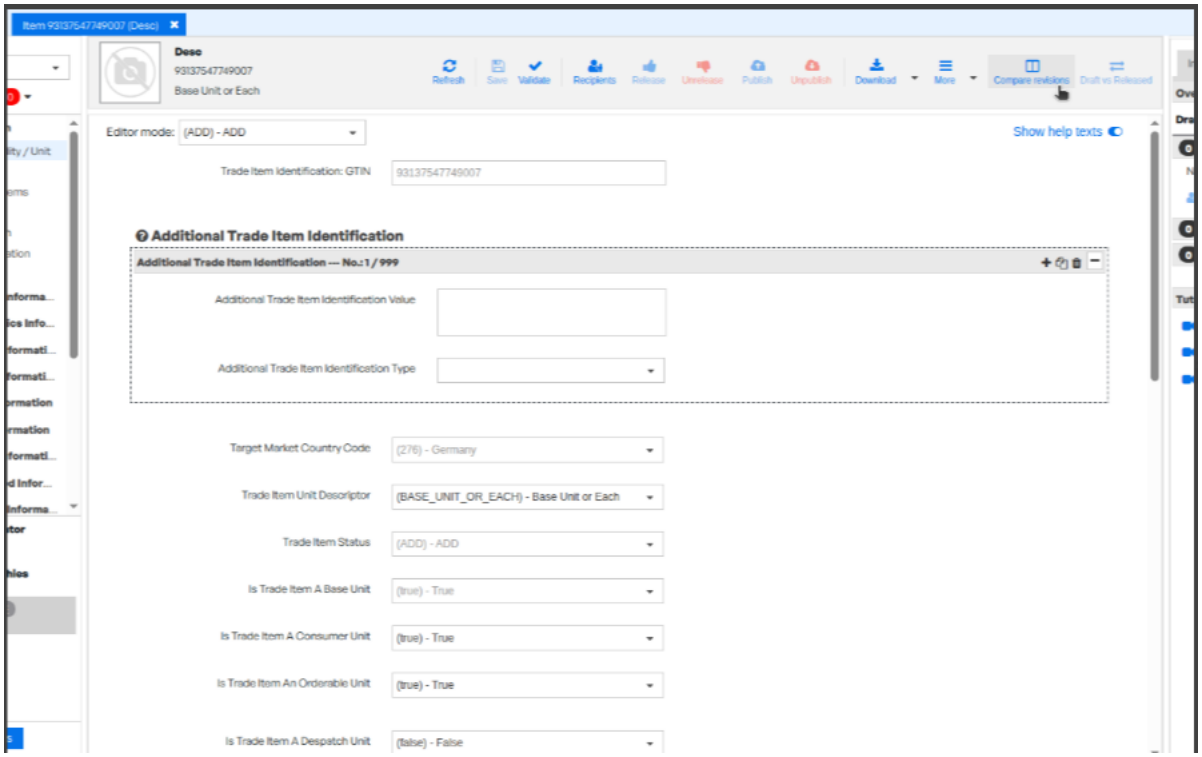


Figure 127: Compare revisions

If two GTINs are selected and the "Compare" button is clicked, the "Compare Revisions" tab opens, displaying the latest and current revisions.

Working with Revisions

The revision selection is set to "current revision" by default.

The differences are highlighted in color, and you can switch the view between "all data" and "only the changed / new / deleted" data.

Additional maintained attributes as well as attributes that are no longer maintained are displayed.
Users can click on an attribute in the two-column comparison table.

Clicking on the attribute takes the user to the corresponding location in the element.

Release Items

An item must have the Released state (Released ready to Publish) in order to be finally published to the data pool and to the business partner(s) (see p. 'Publish items').

The release state indicates that the item data has been validated successfully and has reached a good quality state, i.e., mandatory data is complete, all data contents have the right format, and content interdependencies are observed and consistent throughout all hierarchies the item belongs to.
Before this minimum data quality has been achieved you are editing the working version of the item which is still incomplete. This also applies to hierarchy inconsistencies. If an item is part of a component hierarchy, it can only be released if all the contained (smaller) components are released already. All its relations to other items in this hierarchy are validated, as well, i.e., all items of every hierarchy the item is a part of are validated together.
Please note: Every hierarchy must contain at least one orderable unit. Since a base item is often not an orderable unit, a packaging item then needs to be added before releasing the hierarchy. A hierarchy without an orderable unit will not be sent out by the system.
Items can be released from either the hit list or the item editor.
The release state can be revoked from the hit list, which may have to be necessary for physical deletion of an item (see Revoke the Release of an item, p. 112).
Every time you save the item after creating or editing, the system adds a new version storing the current contents in addition to the released version. To view different versions, use the working context search.

Release Items from the Hit List

You can release one or more items from the hit list.
First, select the item(s) from the hit list. Note that selected non-related items may be released separately. If an error occurs that prevents releasing one of the items, the other items may still be released, if free of errors.
Click the Release option on the Menu.

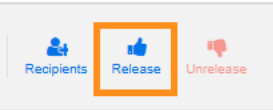


Figure 128: Release option

If an item is part of one or more hierarchies, then the user can decide whether only this article or the hierarchy should be released from this item downwards.
Selecting 'Release Hierarchy' will release all items in the related hierarchies; the related items do not need to be selected separately. If an error occurs in any of the items, the entire hierarchy will not be released.
Selecting 'Release Single Item' will release only the items you have selected. Please note that the items of all related hierarchies are validated together. An error in any of those items will also prevent releasing the single item. Additionally, the selected item will not be able to be released if there is a validation rule that prevents the release of individual items in a hierarchy.

The data is validated to make sure that it is complete, correctly formatted, and consistent. Errors will be displayed in the validation report.
If everything is correct, the most recent version of every selected item is released.
The items are given the processing status Released – Ready to publish.
If an item was already published and later changed, releasing it will change the status from Item update-pending release back to item published.
Please note the following:
We recommend saving base items first and releasing them in a later stage e. g. when the whole item hierarchy has been created and saved. According to the GDSN standard, at least one of the components or the item itself must be an orderable unit. Releasing solely the base item leads to an error as far as this item is not an orderable unit.

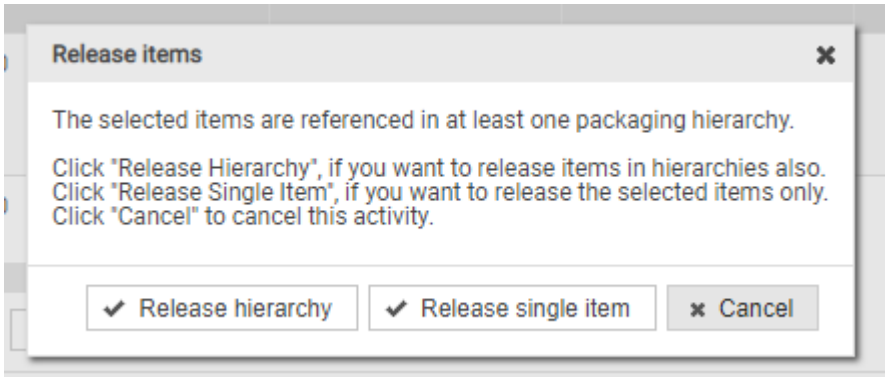


Figure 129: Release items from the item list

Release an Item from the Item Editor

You can release an item from the item editor.
Select the item from the hit list. Click the Edit option in the function bar or double click the item in the hit list.
The item now opens in a separate tab.
Click the Release option in the hit list function bar.



Figure 130: Release an Item from the Item Editor

Now select whether you wish to select only the item or the entire hierarchy. The item is released.

Revoke the Release of an Item

An item can be unreleased from the hit list or the item editor. Only items that are released but not published can be unreleased.



Figure 131: Unrelease an Item

To undo the release via the hit list, select the item(s) and click on the undo release button.
To undo the release from the item editor, choose the item and either click the edit button or double click the item. The item editor opens.
Unreleasing will always happen from the upper packaging items in direction to the base units to prevent single packaging without content from being released. The unrelease dialogue exactly shows the hierarchy items that will be unreleased. If this item has parent items, the parent packaging items will also be unreleased. If you only want to unrelease a single item, please click on cancel and then select the top-level packaging item:

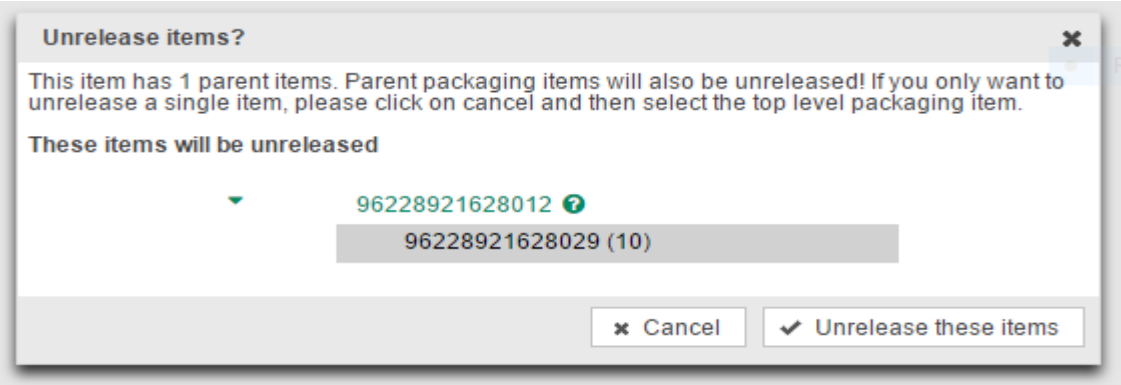
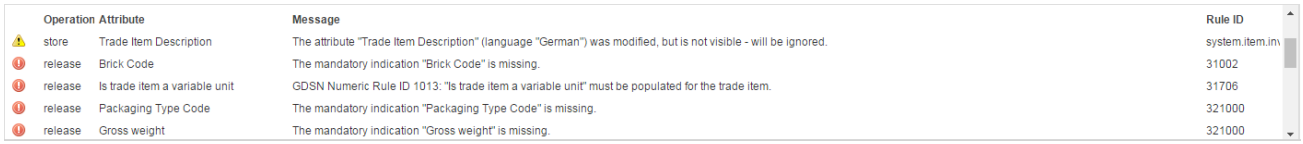


Figure 132: Unrelease Dialogue

The current item will be marked with a grey bar and all items in the hierarchy which are parents of it will be displayed in the dialogue to provide the user a clear understanding of which items will be affected by the unrelease option.
You will be asked whether you really want to proceed. If an item was released but not published, it will receive the status "Draft new item" after the unreleasing. If you wish to unrelease an item that is already published, you must revoke the publication first (see Unpublish items, p. 124). Once the publication is revoked, it can be unreleased. The item will now receive the status Unpublished to all- Draft item.

Publish Items

Item data must be published to be sent out to the Source Data Pool. Only from there is it available to the retailers who have subscribed to this data. Data that is not published cannot be transmitted to trading partners.
To ensure quality, item data can only be published with Status Released. But for publication, data is validated again to make sure that it is consistent throughout the hierarchy, and that a publication is not done to non-permitted recipients.
Errors are shown in the Validation Report underneath the hit list or item details and must be corrected before 1WorldSync Publishing can finally take place.



	Operation	Attribute	Message	Rule ID
⚠	store	Trade Item Description	The attribute "Trade Item Description" (language "German") was modified, but is not visible - will be ignored.	system.item.inv
!	release	Brick Code	The mandatory indication "Brick Code" is missing.	31002
!	release	Is trade item a variable unit	GDSN Numeric Rule ID 1013: "Is trade item a variable unit" must be populated for the trade item.	31706
!	release	Packaging Type Code	The mandatory indication "Packaging Type Code" is missing.	321000
!	release	Gross weight	The mandatory indication "Gross weight" is missing.	321000

Figure 133: Validation Report

An item successfully published receives the overall item state Item Published. (Also see: Overall State, Release State and Publication State'). It is marked with the green icon:

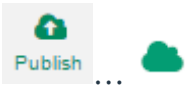


Figure 134: Publish Option and icon to mark published items

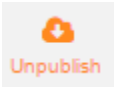
In general, an item should be published only once. For changes or corrections to be sent later, the new working version needs just to be released, but not published again.

Publish hierarchies

The item publication (and delivery) must always be made at the highest level of the hierarchy branch, which the data provider would like to make available to the data recipient to which he is 1WorldSync Publishing. Provided there is a suitable subscription, all the hierarchical levels contained in it are also synchronized. This means, these items must and should not be published separately.
Publication will then include all lower item levels contained. If the highest hierarchy level deviates for different retailers, the publication must be done on all these levels, i.e. more than once (see publish an item as part of a hierarchy, p. 123).
Note: A hierarchy in the GDSN means a hierarchy branch from the top down to the base of the branch, this means to the base article. Each branch contains all its 'children', meaning all lower items or packaging units.

Unpublish items as part of a hierarchy

A published item can be unpublished to stop data delivery to the data pool and the respective recipients (see 'Unpublish Items').



If unpublished to all, the item receives the overall item state Item Unpublished to all, and is marked with the icon:



If the unpublished item is still part of another published hierarchy, it receives the overall item state Item unpublished to all – still sent, and is it is marked with the cloud icon:



Use Case: Deleting an Item

If you want to delete an item because it no longer exists, you must "delist" the item before the deletion process. This logical deletion is important because this process tells the recipient that the item no longer exists. The physical deletion process only takes place in 1WorldSync Publishing. In the recipient system, the item remains with the appropriate status. (Exception: When creating a hierarchy, the GTIN of packaging and base are mixed up -> immediate physical deletion is possible).

Preparation:

1. items that are or used to be published must be in a released and published state or be part of a published hierarchy. Invalid items must first be put in order and released. This must be done separately from the logical deletion process.
2. If a publication has already been revoked, reactivate it and only then proceed with the deletion process.
3. Analyze exactly what is to be deleted regarding your hierarchies. Does the base item continue to exist? Perhaps only the packaging variant is no longer needed?

Logical deletion process ("Deregister item")
1. you set "movement indicator / item status" to "change (CHN)".
2. you set a current "valid-from" date
3. you set an expiration date
4. save and release
5. it is recommended to wait at least a CIC-synchronized arrives after deregistration, so that you can be sure that the deregistration information has arrived.
6. undo publication.
7. the delete/delete function remains inactive until this task has been processed in the background. A mouse-over information is displayed. This process takes approximately 3-10 seconds.
8. refreshing the hit list will show the function as active again.

Notes:
If a base item is to be deleted, the single-variety packaging/pallet must also be deleted. Enter the deregistration data in all levels (save) and release the hierarchy via the highest level.

If the base item is a component of an assortment (display), consider whether the assortment must also be deleted. The exchange of components is usually not allowed. Please deal with the GTIN assignment rules (https://www.gs1.org/1/gtinrules/index.php//de/) and/or discuss this with the recipient(s) of the data.
If only one package is deleted, the data must only be entered for the GTIN concerned.
If you had maintained the expiry date a long time ago but had not released the item with CHN and are now requested by the retailer to deregister the item, set the "valid-from date" so far in the past that it is no more than 6 months from the expiry date already entered. Leave the expiry date untouched.

Delete (physically delete) from 1WorldSync Publishing:
As indicated above, the physical deletion process only deletes the items from 1WorldSync Publishing. On the server (1WorldSync data pool) and in the retailer catalogs, the items remain with last status. If you delete an item, you lose control over it. So, you should be sure that you have performed the logical deletion process correctly. Support will also not be able to move or restore the item. You may have to recreate the item.

Deletion process:
1. undo publication, if not already done. Wait until the entries in the publication window disappear.
2. Switch to the base item and undo the release (for hierarchy). If the base item is still active in another hierarchy, the undo is carried out via the package to be deleted. 3.
Mark the corresponding item in the "Items" overview. The "delete" button will now become active.

Notes:
To delete an item that is part of several hierarchies, all publications of these hierarchies must be taken back. Do not separate the hierarchies. The item will separate itself from the hierarchy when it is deleted.

Select recipients

Publication can be done either from the hit list (see ‘Publish Items from Hit List’), or from the item editor (see ‘Publish an item from Item Details’).
Both approaches use the same publication dialogue to either choose or add the retailer(s) or recipient(s) (see Select Publication Targets, p. 117).
Item data can be published here to a list of chosen retailers. Of course, it can still be published to additional retailers afterwards.
A list of business partners (= possible recipients or publication targets) is defined for the supplier by administration and is then offered in the publication

dialogue. This list could also have been accessed during item creation (see 'Possible Item Recipients'), to activate possible retailer-specific validations right at the beginning as template of data maintenance. Possible recipients could have been added or deactivated, and this selection can now even further be adjusted here.

Publish Items from the Hit List

Select the items you want to publish in the item hit list and click the green Publish option in the hit list function bar.

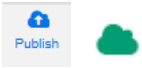


Figure 135: Publish Option in the hit list function bar and icon to mark published items

This opens the 1WorldSync Publishing dialogue to choose or add publication targets. See Select Publication Targets, p. 117 for detailed instructions. Please note: Only items that are already released can be published.

Publish an Item from the Item Editor

Select the item from the hit list and open it by either double clicking on the entry or clicking the edit button.
Klick the Publish option in the Menu Bar and publish the item.

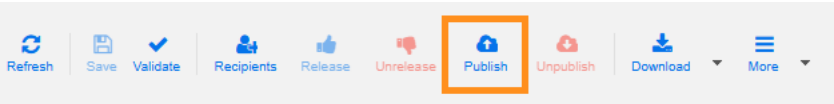


Figure 136: Item Editor with Publish Option

This opens the 1WorldSync Publishing dialogue Select publication targets. See Select Publication Targets, p. 117 for detailed instructions.

Select Publication Targets

Clicking on Publish 

either in the hit list or item editor opens the publication dialogue Select Publication Targets, where you either choose and/or add the recipient(s) of the item as well as to publish your data to the Data Quality Gate. Publication targets can be added here for already published items:

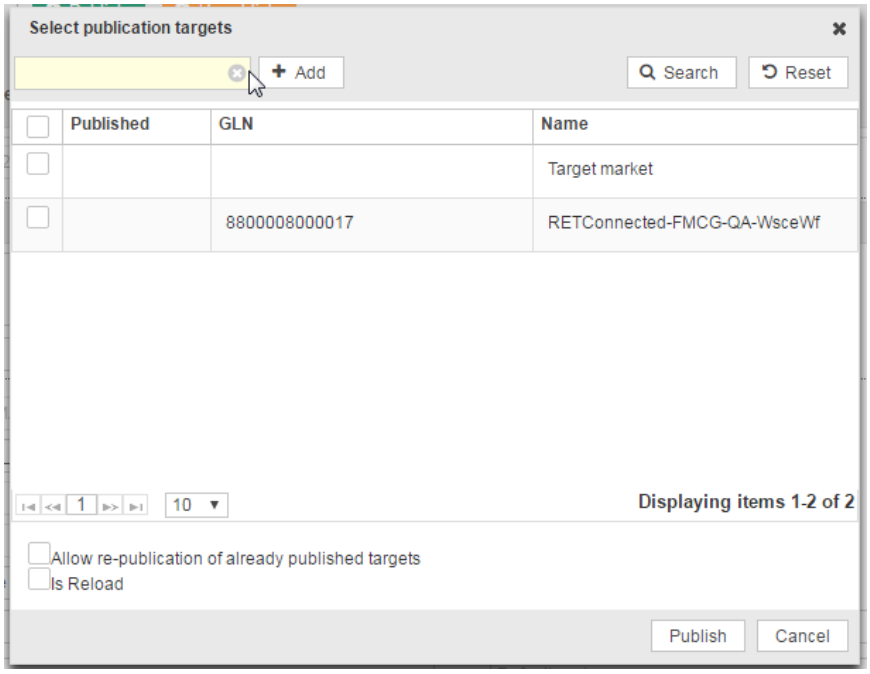
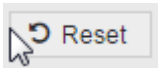


Figure 137: Selection list with Retailers

In case there is a list of possible data recipients pre-defined for your user account at item creation (in order to activate retailer-specific validations) (see 'Assign possible Recipients'), this list is offered in the dialogue:
Select the publication targets here by flagging the check boxes in front.

Clicking Reset 

here will remove the selected targets. Recipients not in the list yet can be added or searched for. To add recipients not yet known to the application, enter the GLN's in the entry field New recipient and click Add. You can only add one GLN at a time. The GLN's will then be added to the list below.
In order to select recipients from a long list of GLN use the Search button to open this list. You can change the sorting here and navigate through this list using the options in the bottom line. We recommend restricting the list using a filter- or search criteria entered in the search field on top. Select the recipients by flagging the check boxes in front.

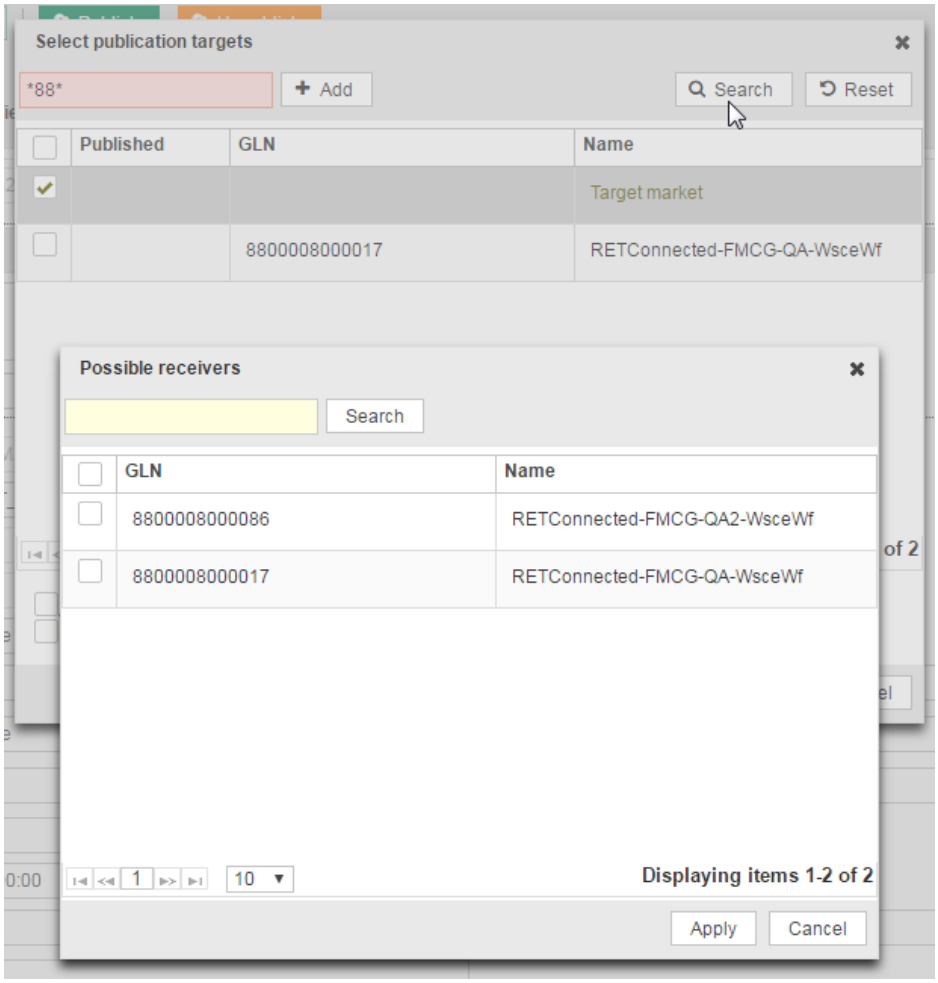


Figure 138: Selection of Possible Receivers

Clicking Reset selection will remove all selections at once.
Clicking OK closes, the search list and adds the selected publication targets - already flagged - to the list in the previous dialogue.
Back on the first page of the publication dialogue you must now click the Publish button to initiate the publication process. If successful, the item receives the publication status Item Published ' '.

Verified Recipients

To enable the improvement of publication target maintenance, for FMCG a list of verified recipients is offered by default. This option offers the data sender more transparency about who is requesting the data. Clicking on "Show list" opens the list of recommended recipients contained, i.e., all recipients of the data delivery can be viewed here.

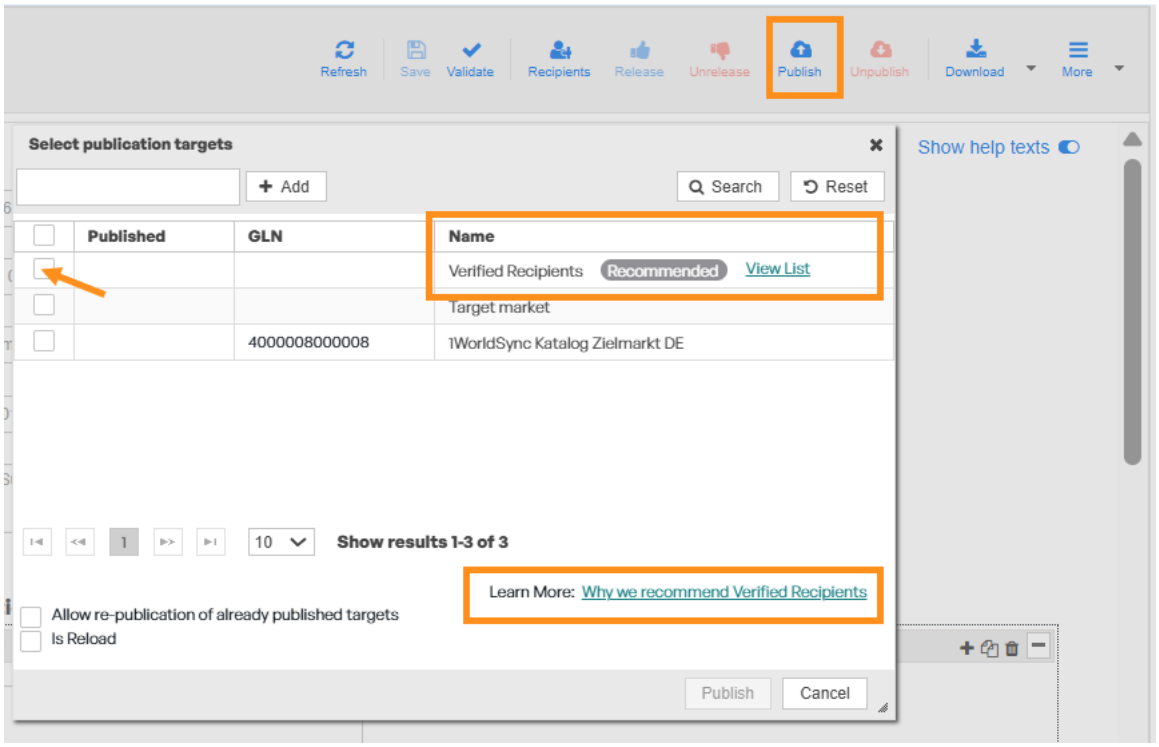


Figure 139: verified recipients/ 1WorldSync community

Users are enabled to select their recipients in a more targeted way, or data providers are better informed about to whom they publish their data and can reduce the number of items published for the target market. Recipients in other data pools can still be reached through targeted publication. Advantage: Targeted Publishing gives the provider full control of who receives their data.

The configuration is done in the administration.

Allow Re-Publication of already published Targets

Sometimes it is necessary to re-publish an item to the same recipient (publication target) once more regardless of whether the previous publication was successful or not. 1WorldSync Publishing an item to another target is always possible and has nothing to do with the respective option explained here.
To enable re-publication to the same recipient, flag the checkbox Allow re-publication of already published targets in the dialogue Select publication targets.
This flag will force the re-sending of item data to the Source Data Pool.
Notice: the flag „Allow re-publication“is selectable if a Publication Target (retailer, target Market) to which the item has already been published is chosen. Only flagging the Check box won`t generate a CIN / CIP message.

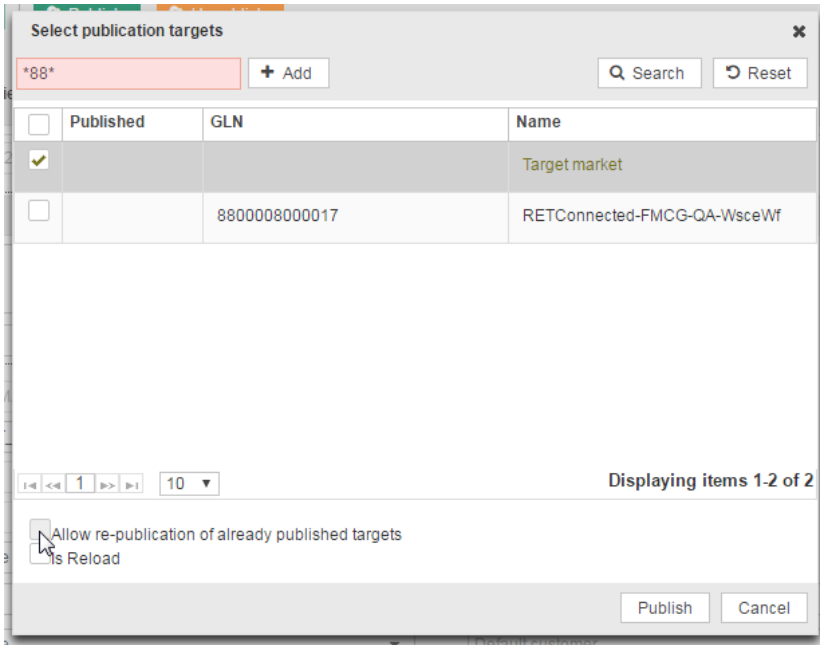


Figure 140: Publication Dialogue

Is Reload Flag

This version offers the opportunity for 1WorldSync Publishing suppliers to set the isReload flag within the 1WorldSync Publishing dialogue (see Figure 140: Publication Dialogue).

Several retailers in the USA have separate internal workflows for dealing with totally new products (New Item or New Line introduction) in contrast with products that are not new but are being sent to the retailer for the first time via GDSN. This is typically required when a new supplier joins GDSN and needs to synchronize all their existing products with the retailer. It is also required when a supplier is swapping data pools. Data has already been published/subscribed/synchronized via GDSN on the Data Pool and now the supplier moves to data pool 1WorldSync Publishing/1WorldSync data pool.

The supplier needs to update an existing hierarchy and so has to load the hierarchy into 1WorldSync Publishing/1WorldSync data pool and then publish to the retailer to send the updates. The publish from 1WorldSync Publishing must be "**isReload = TRUE**" as the data is already synchronized from the 1WorldSync data pool. The retailer wants to be able to process the CIN-ADD messages containing brand new items through a different internal workflow to the CIN-ADD messages that contain items that already exist.

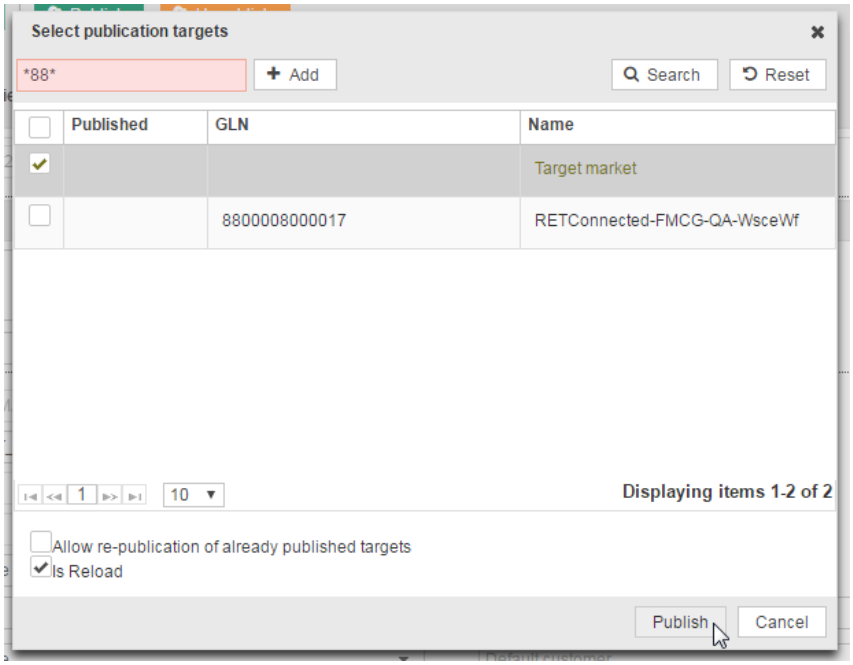


Figure 141: Is Reload-Flag

When a supplier using 1WorldSync Publishing creates a publication for a specific recipient GLN (or multiple GLN's) they now have the option in the Publication Dialog box to select a checkbox Is Reload = TRUE
If the Is Reload flag is set (ticked), then all items including those previously rejected (CIC REJECT) are sent.

If the supplier puts a checkmark in the checkbox "Is Reload = True" then the CIP that is sent will contain the "isReload" extension with a value of TRUE and this value will be saved in the 1WorldSync data pool Sync list if a pub/sub match has happened.
If the Is Reload flag is not set (unticked), then only items that were not previously rejected are sent.

If the supplier does NOT put a checkmark in the checkbox "Is Reload = True?" then the CIP that is sent will NOT contain the "isReload" extension and no value will be saved in the 1WorldSync data pool Sync list.
If the supplier using 1WorldSync Publishing realizes that they have incorrectly selected the "isReload" flag in 1WorldSync Publishing and there has been no Pub/sub match, then the "isReload" flag can be altered using the re-publication option from 1WorldSync Publishing Dialog box.
However, if a Pub/Sub match has happened then the only way the 1WorldSync Publishing supplier can change the isReload Value is to delete the publication and publish it again.
If a Hierarchy is changed in any way after it has been published, then it cannot be considered a "reload" as it has been changed. When the supplier makes any kind of modification to a hierarchy that is currently published the 1WorldSync data pool will automatically change the "isReload" value stored in

the 1WorldSync data pool Sync list to FALSE and all subsequent CIN messages from 1WorldSync data pool to the network will have "isReload" = FALSE.

1WorldSync Publishing an Item as Part of a Hierarchy

When a released item is part of a packaging hierarchy, it must not necessarily be published separately to be sent to the source data pool and from there to the retailers.
In most cases it is not published itself but sent out as a part of the hierarchy. The examples below clarify the status changes applied to items which are part of a hierarchy in which an item is published or unpublished.

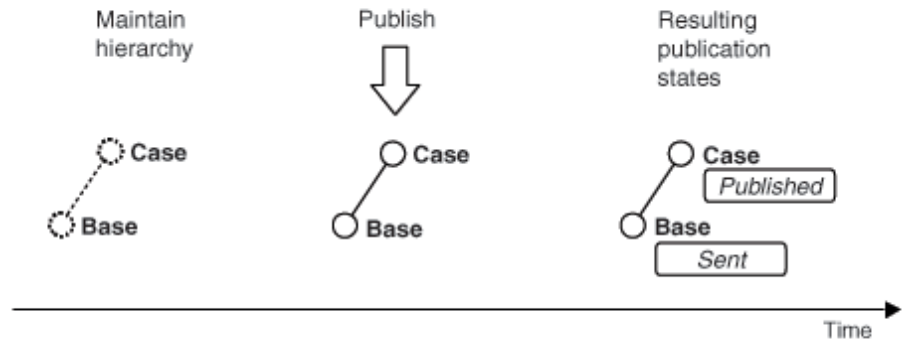


Figure 142: Editing an item in 1WorldSync Publishing as part of a simple hierarchy

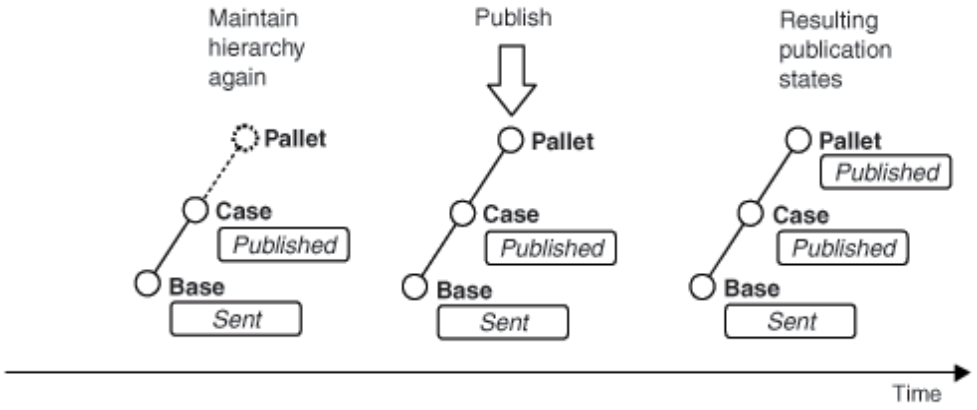


Figure 143: Enhancement of subsequent of the simple hierarchy

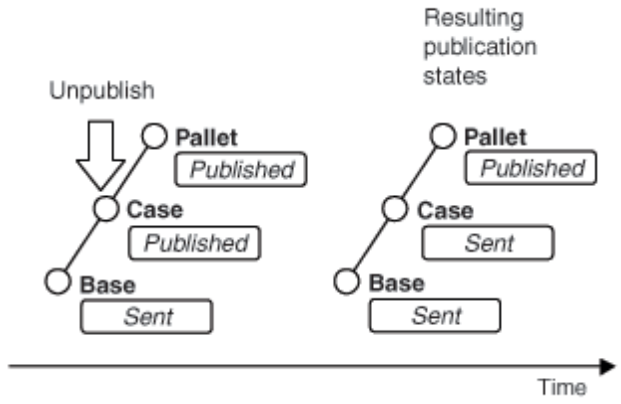


Figure 144: Revocation of publication of a part of the hierarchy

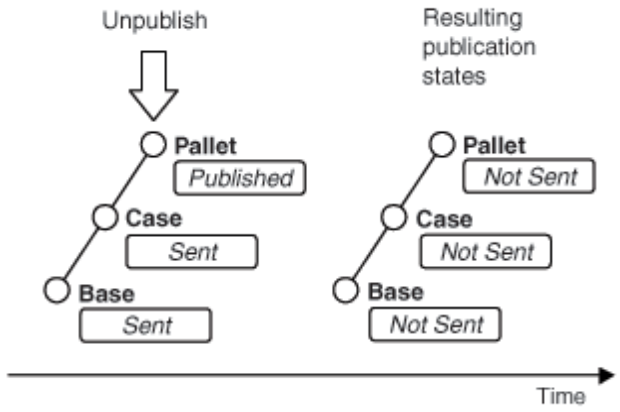


Figure 145: Revocation of publication of the entire hierarchy

Unpublish Items

If you want to revoke the publication of a published item - e.g., for a specific retailer - you can 'unpublish' it.
If an item has been unpublished to all, it receives the overall item state 'Item Unpublished to all'.
You can *unpublish* items from the hit list or the item editor.

From the hit list

Select the required items from the hit list.
Click the *Unpublish* option in the function bar.

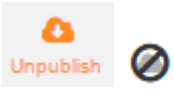


Figure 146: Unpublish option and icon for unpublished items

The Publication Info widget will then display the number and list of publications indicating the recipient GLN, the name, the publication date, and the CIC status of every publication. From here you can revoke the publication of the item.
Click the Unpublish option in the Publication Info widget function bar to open a dialogue box that lists all publication targets the item has been published to.



Figure 146: Publication Info Widget

Select all publication targets for which you wish to revoke the publication of the selected items. The list contains a list of the publication targets for all selected items. In the case of items that are selected but not published, this operation will simply be ignored.
Click OK to complete the operation. Click Cancel to return to the hit list without revoking the publication.
The previously selected publication targets for the items are removed from the corresponding recipient lists.
The items - which no longer have the status Published - are given the processing status Released again.

From the item editor

To unpublish items from the item editor, select the item from the hit list. Click on the edit button or double click the item in the hit list. The item editor now opens. With the help of the Depublish button (on the right in the Info Panel under Publications), publications for certain publication targets can be specifically and easily undone.
The undo buttons are listed behind the individual retailers and are directly and clearly accessible.

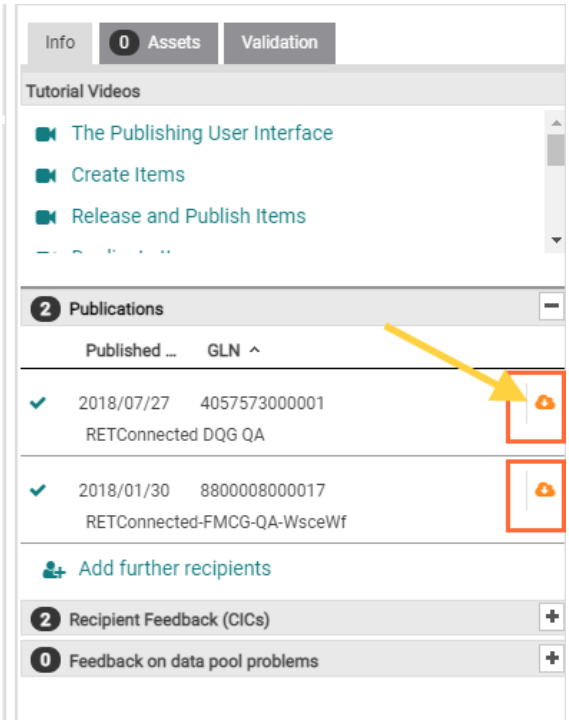


Figure 147: De-publish items on the Info-Panel

The previously selected publication target for the item is removed from the corresponding recipient list.
The item, which now no longer has the status Item is published, is now given the status Item is no longer published again.

Import and Export Items

The application allows you to carry out mass uploads and mass downloads of trade item data using Excel files. You can download item data, change it and then upload the data again. This is especially recommended for mass updates.
The system supports Excel format from Excel 2007 (xlsx) upwards.
The data can be released and published during the upload process. The file can contain single items or hierarchies.

Hybrid Client: Load via M2M

This Version offers the opportunity for 1WorldSync Publishing to support routing and special party administration for Hybrid Client. This allows M2M suppliers to load their initial items via 1WorldSync data pool (XML) into 1WorldSync Publishing and further maintain additional data here via the application.
The table below shows the configuration needs in the 1WorldSync Publishing and the 1WorldSync data pool party administration to enable the Hybrid Client feature for M2M suppliers:

System	Configuration	Purpose

1WORLDSYNC DATA POOL	Set Party Attribute "hybrid" = "Y"	Triggers hybrid process.
1WORLDSYNC DATA POOL	Set Party Attribute "providerGLN" = "technical GLN of the Hybrid 1WorldSync Publishing"	Needed for granting permission to any further GLNs other than specified in the 1WorldSync data pool Group GLN to send data on behalf of the supplier!
1WORLDSYNC DATA POOL	Set Party Attribute "1WorldSync PublishingGLN" = "technical GLN of the Hybrid 1WorldSync Publishing"	For connecting the right Hybrid 1WorldSync Publishing with the 1WorldSync data pool.
1WorldSync Publishing	Set in company administration "Is Hybrid Supplier" = "true".	This makes sure that hybrid M2M supplier will not unrelease items imported via hybrid client into the 1WorldSync Publishing UI to prevent inconsistencies between 1WorldSync data pool and 1WorldSync Publishing.

Special impacts for Hybrid Client M2M suppliers

If suppliers further maintain their data in 1WorldSync Publishing all further updates to that hierarchy must happen in 1WorldSync Publishing. If a supplier sends updates via M2M all changes in 1WorldSync Publishing will be overwritten.
Data will be immediately released in 1WorldSync Publishing if the CIN message is valid.
So far 1WorldSync Publishing generated CIN messages and sent to the 1WorldSync data pool the first time when items were published. Now items will be sent right after being released.
Any invalid item data will be set to working state in 1WorldSync Publishing if the data caused an exception in the 1WorldSync data pool. For corrupt data (e.g., missing primary key information GTIN/GLN/TM) the data will not even have been imported into working state. Invalid price data will never be imported into the hybrid 1WorldSync Publishing.
Note: 1WorldSync Publishing supports the possibility to import a CIHW Publication Delete message via Hybrid Client.

Hybrid Client: M2M for Digital Asset Management

When providing trade item information as a hybrid supplier you can enrich these M2M items within 1WorldSync Publishing with Digital Asset information. This means that you can add assets in the message with assets in Publishing and they will not be lost when you update.
The workflow is as follows:

1. Send your items via M2M
2. Log into 1WorldSync Publishing, upload and link your Digital Assets to the item and send it out.
1. Linked Digital Assets will be kept with your trade items, independent of the Digital Asset information contained in the M2M CIN.

Download your Data in Excel

To export item data, proceed as follows:
First, select the item(s) from the hit list.
Click the "Download as" option in the hit list function bar.
The download menu offers different options.

- Item Download in Excel
- Customized Excel Download
- Item Download in Excel including linked Digital Assets
- PDF-Export with Components
- PDF-Export

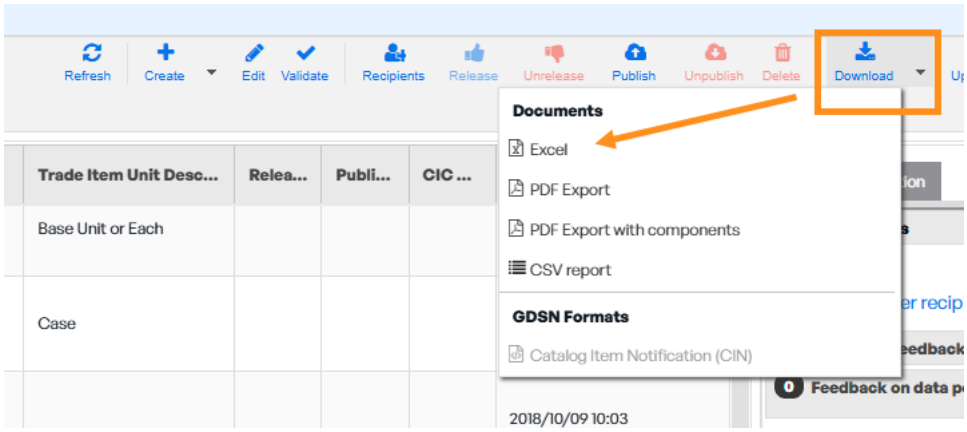


Figure 148: Download Options

To download items in Excel, flag the items in the hit list and select "Item download in Excel".
The download dialogue opens which allows you to select the export format. Please note that the appearance of the dialogue may differ depending on which browser you use.

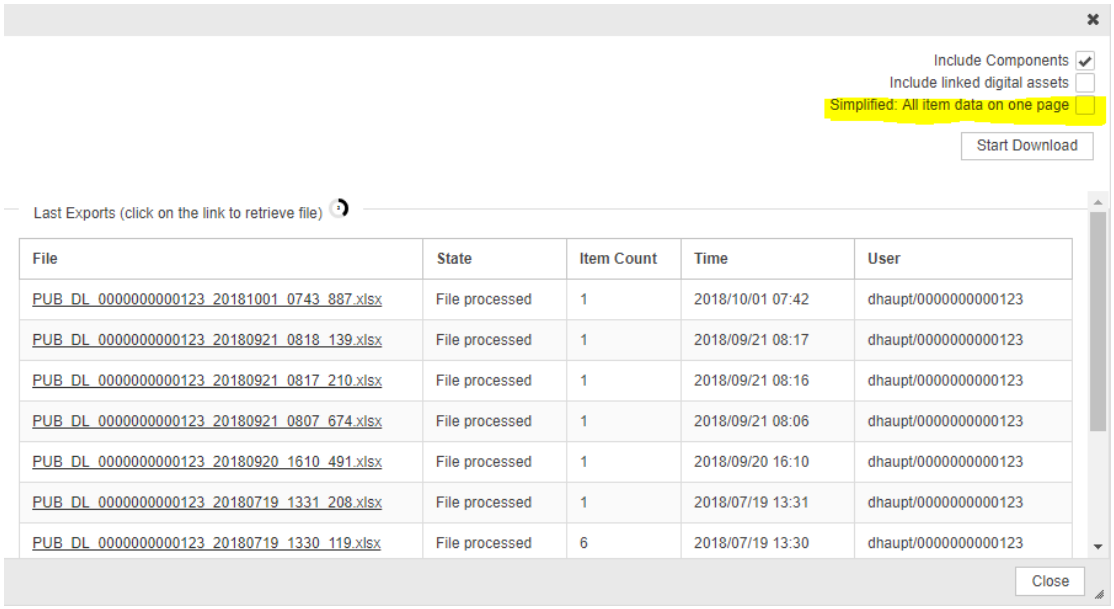


Figure 149: Download Dialogue

Specify whether you wish to export just the selected item or its components as well. Then click the option Start download.
There is a checkbox in place within the item download dialogue which allows you to by-pass the tab-separation and have all item relevant data in place on only one single tab within the download.
The excel file will appear in the Last download area at the bottom. When the Column State shows 'Initialized' the exports are still in progress. Depending on the number of selected items, it may take some time to process the Excel file. The download is prepared in the background. You can close the download window and continue with other tasks. If you open the download menu later, you will notice that the Excel file has been created and has now the status "success" and can now be downloaded by clicking on the file name.
The Excel file contains all selected items and - depending on the specifications you made previously - may also contain the corresponding components linked with the items and their components, including historical price items.
The Excel Download functionality recognizes the item types contained in the download. The item type is a modelled item class, which contains the essential attributes for a common target market. The item download recognizes the item type and offers only the attributes the contained items also have in the UI.
Please be aware that the item types for each target market are additionally divided to a base item type and a packaging item type and you will only receive the attributes for both when downloading a base item as well as a packaging item. The excel file download -which will ask you for a target market before the download starts - will always consider base item attributes as well as packaging item attributes.

Customized Excel-Export

In addition to the extensive Excel export, an option is provided to download only relevant attributes for individual continued use. Therefore the 'Custom Excel Export' must be enabled in the company settings by the Administrator.

In the dialog box a report can be created by:
Selecting the attributes in the "Available columns" to "Selected columns" fields. Then the report can be downloaded/edited/deleted from the table in the "Custom Excel export" template list.

If you wish to export many items, please use the Excel version up from 2007.
Notice: A new release and a possible change to the data model can lead to the need for a new Excel download to modify or create data via an Excel upload in the system.
Note: Decimal places, especially in the range of nutritional information, are significant. In this way, reference can be made to the precision of rounding. Zero values after the decimal point are not shortened. To ensure the transfer of the accuracy of numerical values in tenths or hundredths, e.g., for nutritional information, adjust the values in Publishing appropriately.

Excel Download Support of Digital Assets

If Digital Asset Management is enabled for you as a supplier, it is possible to download the URLs and all the digital assets' metadata within the Excel Download Functionality.
When triggering an excel download, the supplier can simply set a check at the checkbox "Include digital assets" and all assets which are linked to the selected trade items will be included in the excel download file.

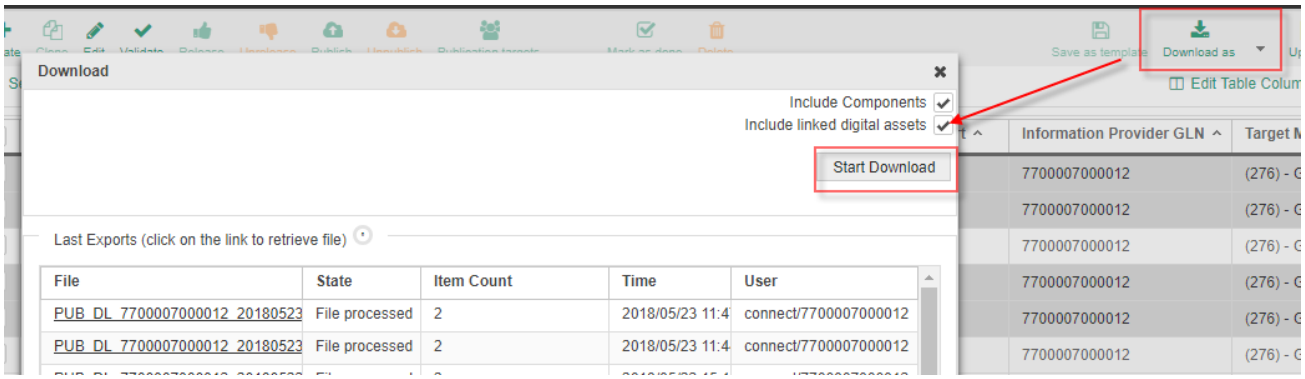
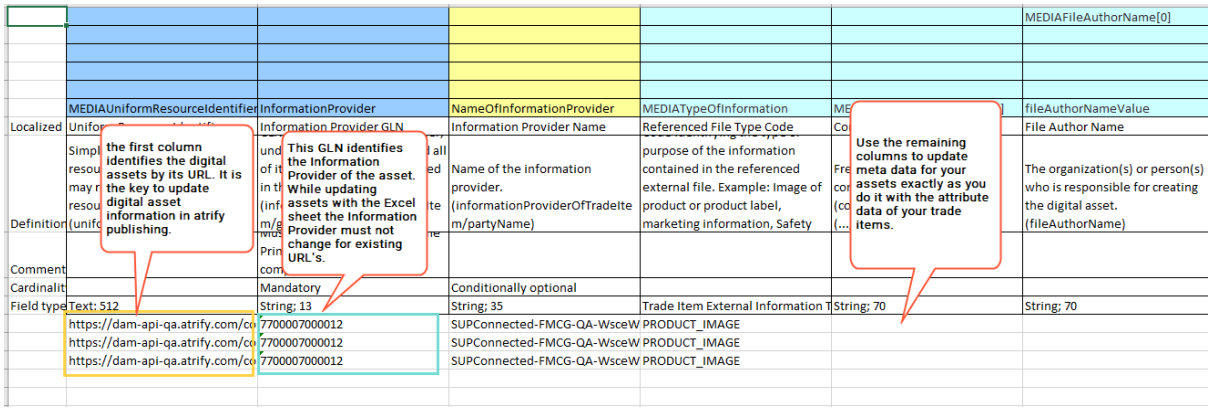
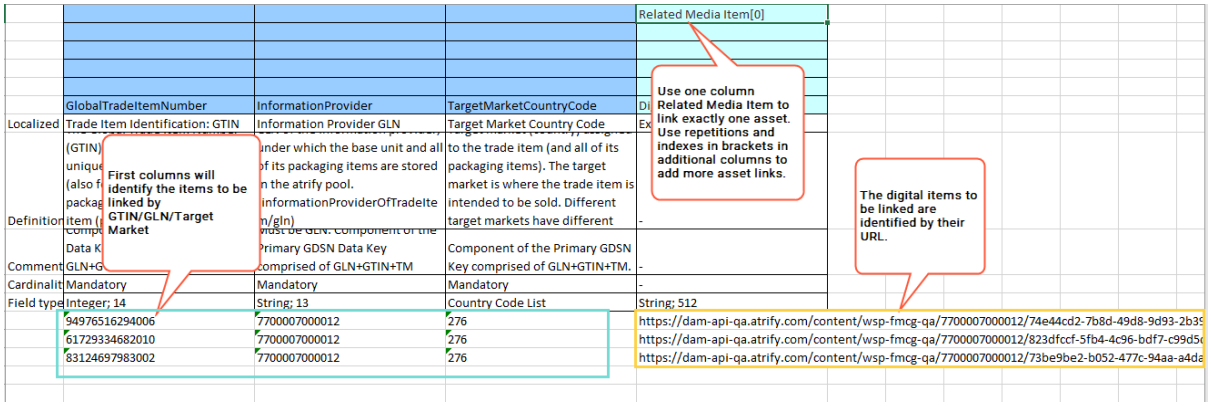


Figure 150: Excel Download option "include linked Digital Assets"

Use the remaining columns to edit and update your digital asset's metadata. It can be used exactly the way you work in an excel sheet to update trade item data, including repetitions and language dependent attributes.



You can also link your digital assets with items which are contained in the excel (or not, but at least available in 1WorldSync Publishing). Simply browse to the Sheet Digital Asset Links and define your digital asset links. The mechanism works very similar to the mechanism of linking items to each other inside a hierarchy.



The sheet also offers the view from the items to the digital assets, that means you define your items you want to link assets to by providing a GTIN, a GLN and a target market. In addition to that you add columns Related Media Items (each with an index in squared brackets) and provide the URL for each asset you want to link.

Uploading your data back to the system

To upload the items back to the system simply use the upload functionality as available in the item hit list as you've done it before. The system automatically detects if any digital asset data is included and will process it correctly. You can upload any combination of excel sheets: Trade items only, trade items and media objects, also combined with links, or just media items or even only the digital asset links sheet if you only want to combine digital assets with items. Content will be automatically detected and processed.
A precheck mechanism will inform you about potential problems related to your digital asset sheets and missing mandatory data upfront to the upload

processing. If you encounter these messages, correct your sheet by following the messages and upload them again.

Limitation of functionality

Please be aware that the functionality is limited to suppliers which have activated the digital assets module.

Download History (Last Downloads)

The bottom part of the Download dialogue displays a list of the last downloads to be carried out. In addition to the file name and number of exported items, this area displays the time of the export and the user who triggered it as well as the amount of the items included in the download file. The State column tells you whether the export was successful.
The most recent download is always displayed at the top of the list. If the maximum number of entries for the list is reached, the oldest entry is removed.
To download a copy of an Excel file generated during a previous download, proceed as follows:
Open the Download dialogue.
Click the required file name in the download history.
A dialogue box opens; it allows you to either open the file or save it to your computer. Please note that this dialogue may differ depending on your browser settings.

Download Excel file

The use of empty Excel tables is supported. A blank Excel template is not offered. The focus of using Excel is usually as a bulk update functionality for existing trade item data, but new items can of course also be created by downloading existing data and modifying the GTINs / GLNs.
1WorldSync Publishing enables "intelligent" Excel download and item downloads from the hit list. Excel considers the target market related attributes when downloading an item. The details are described in the section on downloading Excel files and items.

Importing (Upload) Items from an Excel File

When entering data for the Excel upload, it is of crucial importance to have the correct format in the excel cells. Please see detailed information in chapter Restrictions and Format Regulations, p. 136. It is strongly recommended that you familiarize yourself with these rules before working with the Excel Interface.
You can remove columns whose values you do not want to update. This means that you can use Excel files that only contain the mandatory columns.
How the Excel Upload works:
- If a column with a value exists, the corresponding attribute is updated with this value.

- If a column with an empty cell exists, the corresponding attribute on the item is emptied.
- If a column does not exist, the corresponding attribute of the item is completely ignored.

Note: Composite attributes consist of the combination of several attributes that belong together in terms of content. These attributes are marked by a surrounding frame. Packaging information for example is a composite consisting of the composites Packaging information, Packaging feature code, Packaging function code, Packaging material information, and the simple attributes Packaging shape code as well as "Does the packaging have wheels". If one of these attributes is present in the Excel file, belonging to an attribute group, the importer will update the information only with the updated value and delete the rest. That is, if the attributes are composite, all columns included in that composite must be removed.

If an attribute column is not specified in the Excel import file, this attribute will not be changed.

Please note that the dialogue window can differ slightly depending on the browser used and its language settings.
To import items using an Excel file, proceed as follows:
Click the Upload option in the hit list function bar.

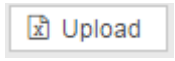


Figure 151: Upload Option

A dialogue opens; you can select the prepared Excel file. To do so, click Choose file. This will open the browser.

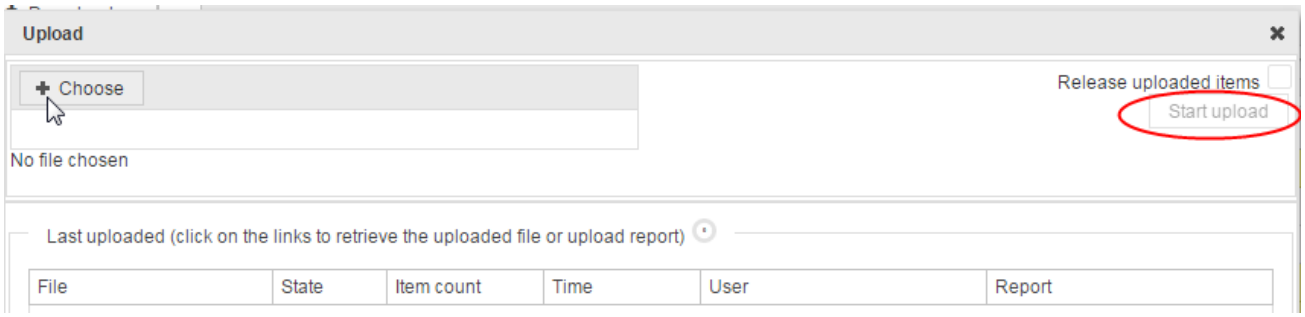
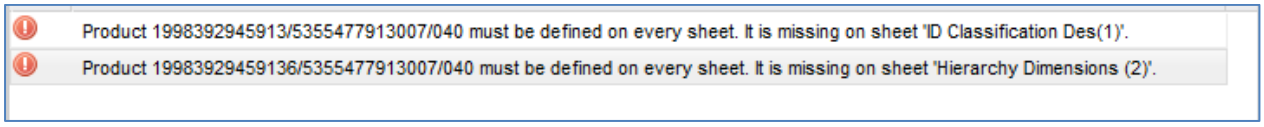


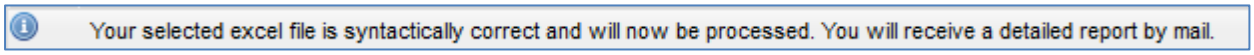
Figure 152: Upload Dialogue

Specify whether you want the uploaded items to be released automatically following the import. To do so, activate the relevant checkbox. If you populated the worksheet 1WorldSync Publishing, the items will automatically be published once you flag this option.
Click Start upload.

Before importing the items into the system, the system carries out a preliminary check to make sure that the format of the Excel file is correct.
Any errors in the file - such as wrong file format or incorrect format for data- will be listed under pre-check messages.



If the file is correct, you will see the following message:



Several pre-checks are performed upon upload that check:

- whether the primary keys are included on each sheet
- whether the item is included on each sheet
- whether each attribute is defined only once in the document
- whether attributes unknown to the system are included in the file
- whether all required attributes are populated
- whether there are major hierarchy consistency violations

Upload report

Following the import, a report is generated.
To access the upload report, please click on the link in the column report and you will be able to open or save the report directly.

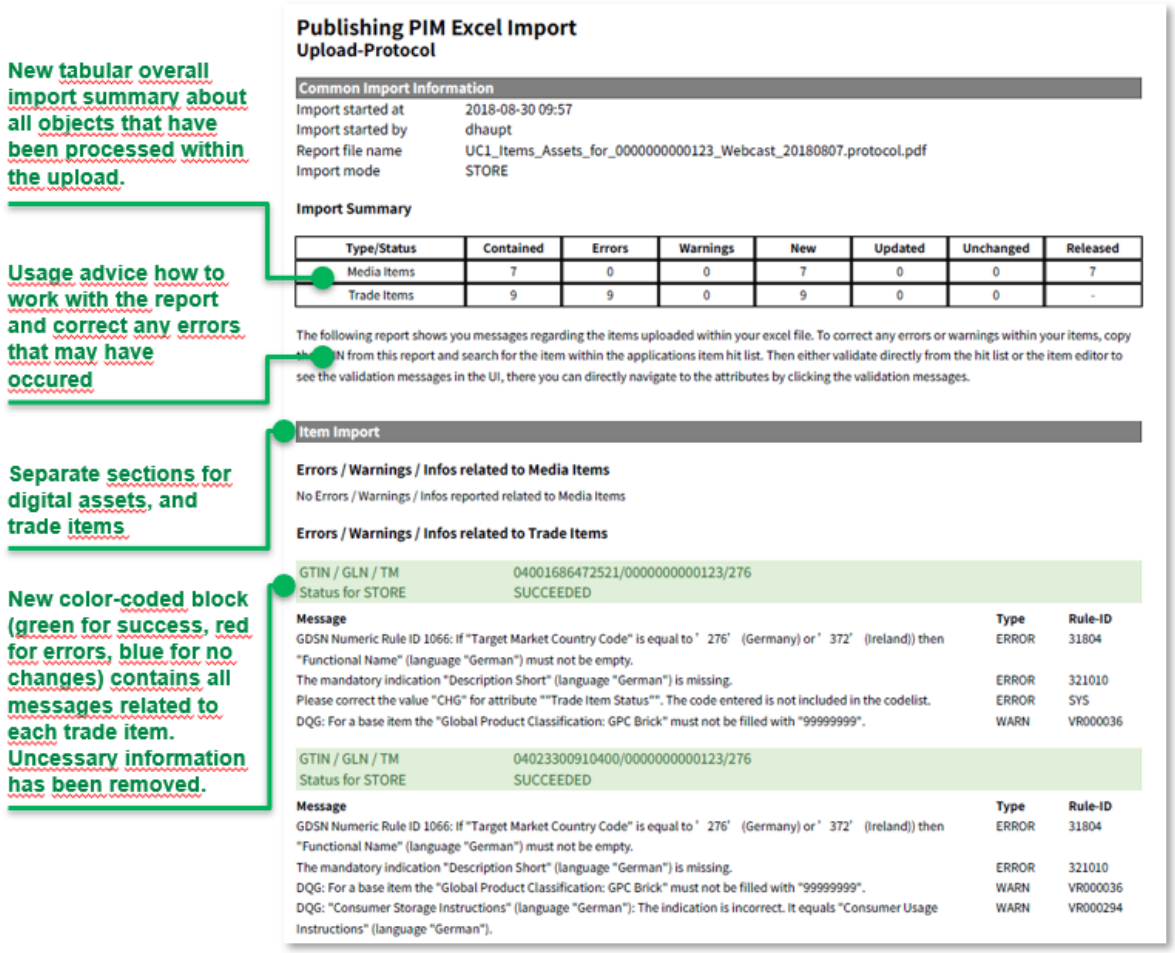


Figure 153: Upload Report

The top part of the report lists the general data for the upload such as when it was started and the file name.
The second part lists details about the item, i.e., whether it was stored, released, and lists the exact number of items contained in the file, the number of items that were updated with the upload or if errors and/or warnings occurred.
The last part of the report gives more detailed information about possible errors and/or warnings and indicates whether the trade item was stored in the system. The column Type indicates whether there is an error or a warning. Please refer to the error message for possible steps that need to be taken to correct your data.

Upload History (Last uploaded)

The bottom part of the Upload dialogue shows the uploaded Excel files and corresponding upload reports for the last imports as links in a list. In addition to the file name and number of imported items for each upload, the import time and user who triggered the import are displayed. The State column tells you whether the import was successful.

The most recently imported file is always displayed at the top of the list. If the maximum number of entries for the list is reached, the oldest entry is removed.

Restrictions and Format Regulations

It is crucial that any file uploaded to the application complies with certain format rules; otherwise, they will not be processed. The application will always create Excel files which fully comply with these rules (e.g., Excel template and Excel download file).

Excel Versions

The Microsoft Excel formats from MS Excel 2007 (XLSX) upwards are supported:

Rows and Columns

All excel file formats prior to 2007 have a maximum of 65536 rows and 256 columns (A to IV) that can be transmitted.
Excel 2007 upwards: No restrictions regarding rows and columns.

Format

When entering data for upload it is of crucial importance to ensure the correct format is selected for the excel cells.
Zero values after the decimal point are not shortened.
To ensure the transfer of the accuracy of numerical values in tenths or hundredths, e.g., for nutritional values, first adjust the values in Publishing accordingly (e.g., 9.00 grams).
To transfer the accuracy of the values with decimal places into Excel, it is necessary to adjust the Excel format of the corresponding cells into two (or N) decimal places. When re-importing the data into Publishing, the decimal places are taken over.

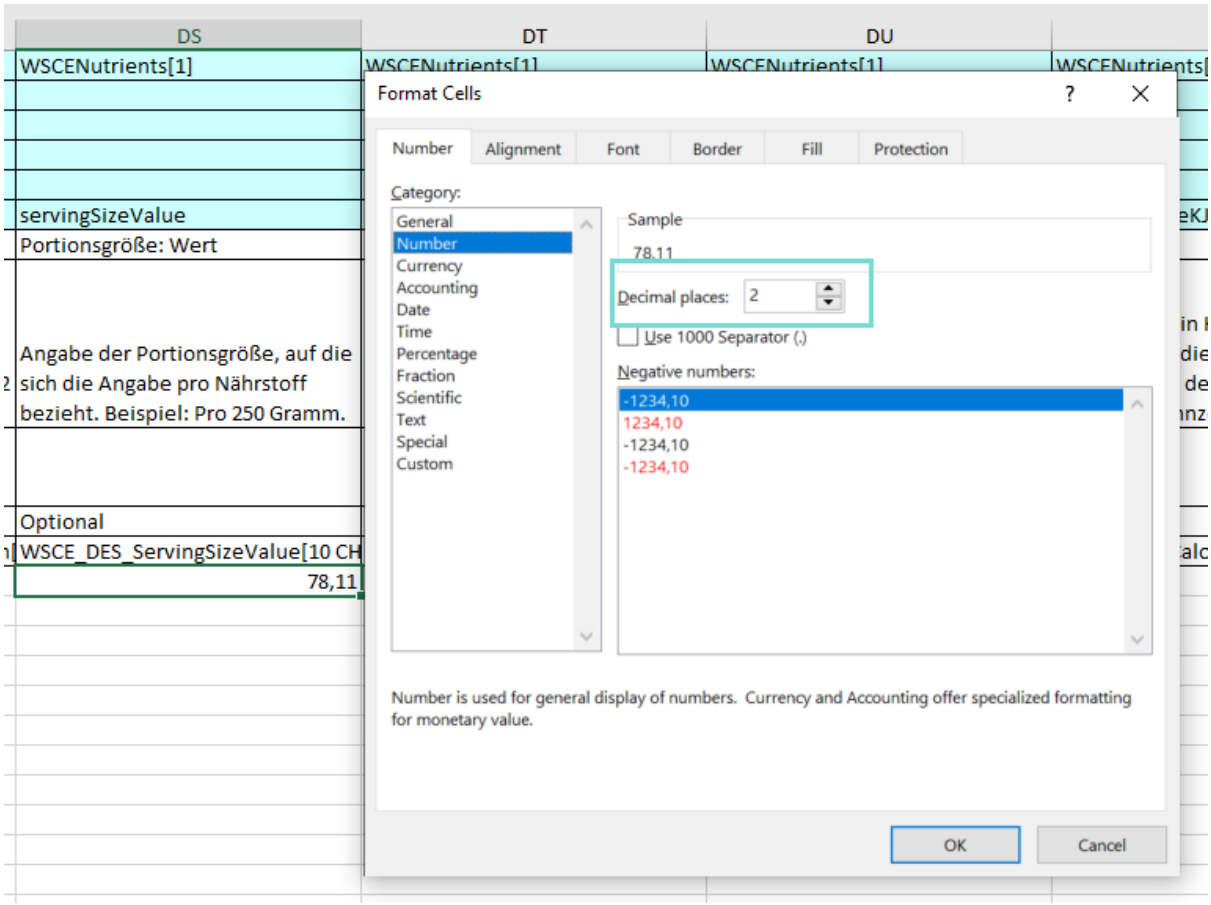
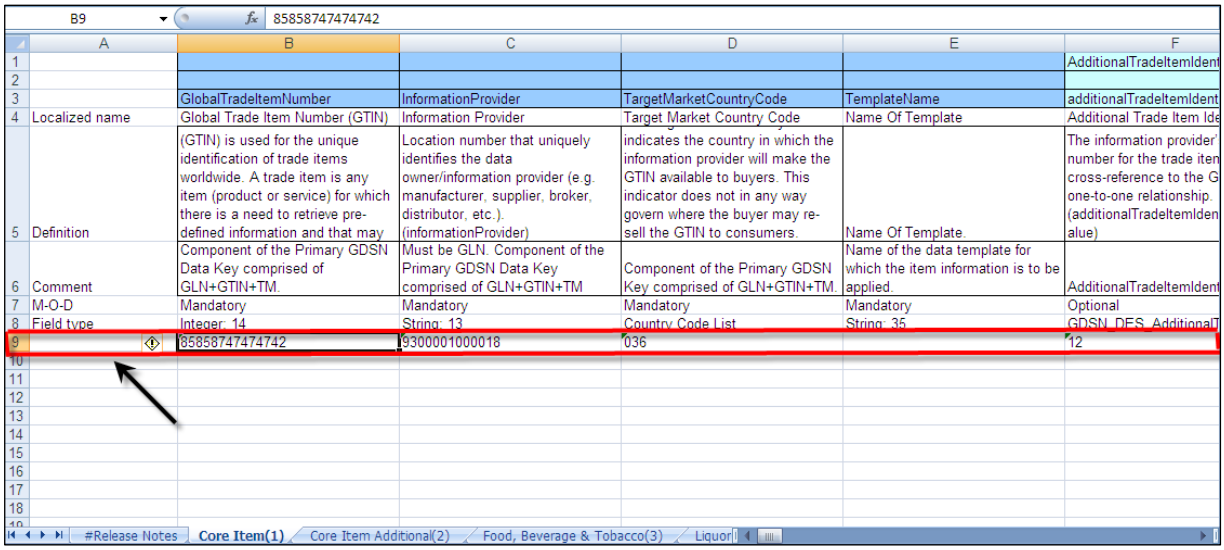


Figure 154: Adjustment of formatting to maintain the accuracy of numerical values with decimal places

Please do not split or merge cells within the Excel file.
The use of Excel formulas is not supported.
Please use the format given in the self-downloaded Excel file in the first row filled with data (due to technical limitations in Excel, only the first row is formatted correctly). You can copy the row to keep the correct formatting. This is line 10.
If you export an Excel file, all filled-in rows will also be formatted correctly. You can also use this file to ensure an error-free format.



	A	B	C	D	E	F
1						AdditionalTradeItemIdent
2						
3		GlobalTradeItemNumber	InformationProvider	TargetMarketCountryCode	TemplateName	additionalTradeItemIdent
4	Localized name	Global Trade Item Number (GTIN)	Information Provider	Target Market Country Code	Name Of Template	Additional Trade Item Ide
5	Definition	(GTIN) is used for the unique identification of trade items worldwide. A trade item is any item (product or service) for which there is a need to retrieve pre-defined information and that may	Location number that uniquely identifies the data owner/information provider (e.g. manufacturer, supplier, broker, distributor, etc.). (informationProvider)	indicates the country in which the information provider will make the GTIN available to buyers. This indicator does not in any way govern where the buyer may re-sell the GTIN to consumers.	Name Of Template.	The information provider' number for the trade iten cross-reference to the G one-to-one relationship. (additionalTradeItemIden alue)
6	Comment	Component of the Primary GDSN Data Key comprised of GLN+GTIN+TM.	Must be GLN. Component of the Primary GDSN Data Key comprised of GLN+GTIN+TM	Component of the Primary GDSN Key comprised of GLN+GTIN+TM.	Name of the data template for which the item information is to be applied.	AdditionalTradeItemIdent
7	M-O-D	Mandatory	Mandatory	Mandatory	Mandatory	Optional
8	Field type	Integer; 14	String; 13	Country Code List	String; 35	GDSN_DES_AdditionalT
9		85858747474742	9300001000018	036		12
10						
11						
12						
13						
14						
15						
16						
17						
18						

Figure 155: First or populated rows formatted correctly

Customizations

You can remove columns whose values you do not want to update. This means that you can use Excel files that only contain the mandatory columns.
How the Excel Upload works:
- If a column with a value exists, the corresponding attribute is updated with this value.
- If a column with an empty cell exists, the corresponding attribute on the item is emptied.
- If a column does not exist, the corresponding attribute of the article is completely ignored.

Rules for upload file

Please only use the empty original Excel file made from a downloaded item itself to upload items. Uploading data using another file will result in a failure of the upload process.
The following basic rules apply to all Excel files.

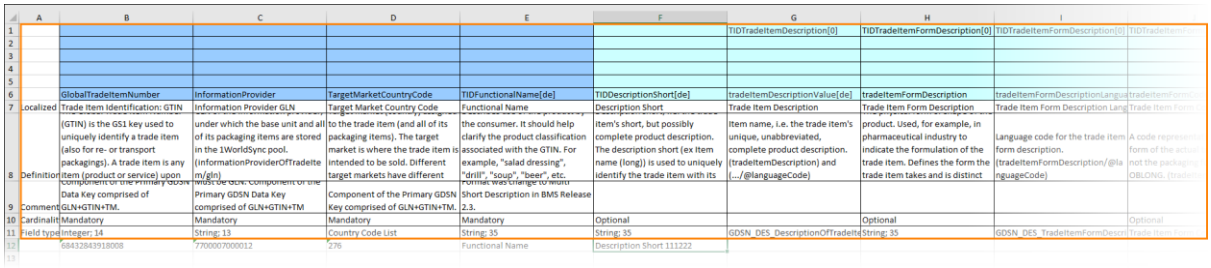
- The primary keys (GTIN, GLN, Target Market) must be repeated on EACH worksheet in columns B, C and D respectively.
- The values that are to be transmitted must be entered in row 11 and lower. There must be one row per GTIN. Due to size constraints in an empty template only row 11 is formatted correctly. Please make sure to format all following cells correctly. In an Excel download of data stored in the data pool only the rows containing values are formatted correctly for the same reason.
- The first column of the uploaded file must always remain empty. Any data entered in this column will interfere with the correct processing of the file.

- The uploaded values always overwrite the content already stored in the data pool. Transmitting an attribute with no value will result in the stored values being deleted from the data pool. A deletion of a column with an attribute which was populated before means that the values in the new version in the data pool will remain unchanged

The worksheets correspond to the flex bars in the UI. Columns and/or worksheets that are not needed can be deleted if they do not contain mandatory or system and/or process relevant data, e.g., the worksheet Components. However, it is absolutely mandatory that the structure of the data remains intact. E.g., a value and corresponding unit of measure must both be transmitted together. Any change to the structure of the file will result in an error.

Structure of an Excel File

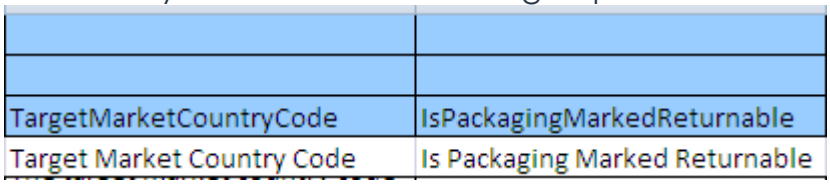
A worksheet with trade item data has 11 fixed rows containing attribute information.



	A	B	C	D	E	F	G	H	I	
1							TIDTradeItemDescription[0]	TIDTradeItemFormDescription[0]	TIDTradeItemFormDescription[0]	TIDTradeItemFormD
2										
3										
4										
5										
6		GlobalTradeItemNumber	InformationProvider	TargetMarketCountryCode	TIDFunctionalName[de]	TIDDescriptionShort[de]	tradeItemDescriptionValue[de]	tradeItemFormDescription	tradeItemFormDescriptionLangua	tradeItemFormD
7	Localized	Trade Item Identification: GTIN	Information Provider GLN	Target Market Country Code	Functional Name	Description Short	Trade Item Description	Trade Item Form Description	Trade Item Form Description Lang	Trade Item Form D
8	Definition	(GTIN) is the GS1 key used to uniquely identify a trade item (also for re- or transport packagings). A trade item is any item (product or service) upon	under which the base unit and all of its packaging items are stored in the 1WorldSync pool. (informationProviderOfTradeIte m/gln)	to the trade item (and all of its packaging items). The target market is where the trade item is intended to be sold. Different target markets have different	the consumer. It should help clarify the product classification associated with the GTIN. For example, "salad dressing", "drill", "soup", "beer", etc.	item's short, but possibly complete product description. The description short (ex Item name (long)) is used to uniquely identify the trade item with its	Item name, i.e. the trade item's unique, unabbreviated, complete product description. (tradeItemDescription) and (.../@languageCode)	product. Used, for example, in pharmaceutical industry to indicate the formulation of the trade item. Defines the form the trade item takes and is distinct	Language code for the trade item form description. (tradeItemFormDescription/@la nguageCode)	A code represent form of the actual not the packaging OBLONG. (tradeIt
9	Comment	Data Key comprised of GLN+GTIN+TM.	Primary GDSN Data Key comprised of GLN+GTIN+TM	Component of the Primary GDSN Key comprised of GLN+GTIN+TM.	2.3.					
10	Cardinality	Mandatory	Mandatory	Mandatory	Mandatory	Optional		Optional		Optional
11	Field type	Integer; 14	String; 13	Country Code List	String; 35	String; 35	GDSN_DES_DescriptionOfTradeIte	String; 35	GDSN_DES_TradeItemFormDescri	Trade Item Form D
12		08432843918008	7700007000012	276	Functional Name	Description Short 111222				
13										

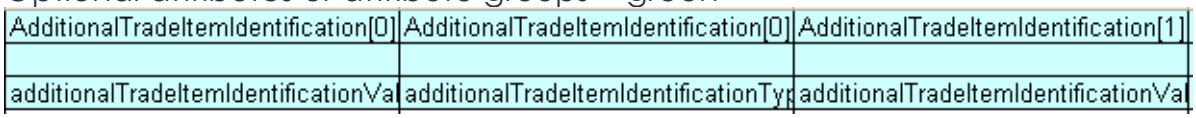
Do not make any changes to the data in the first eleven rows.
The first six lines are color coded according to the cardinality of the respective attributes:

Mandatory attributes or attribute groups = blue



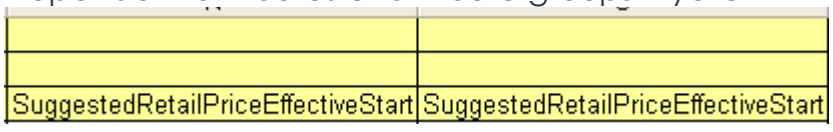
TargetMarketCountryCode	IsPackagingMarkedReturnable
Target Market Country Code	Is Packaging Marked Returnable

Optional attributes or attribute groups = green



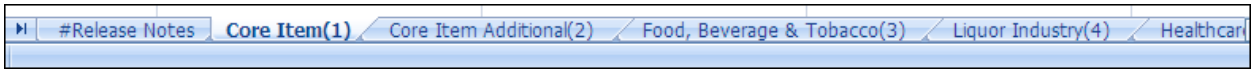
AdditionalTradeItemIdentification[0]	AdditionalTradeItemIdentification[0]	AdditionalTradeItemIdentification[1]
additionalTradeItemIdentificationVal	additionalTradeItemIdentificationTyp	additionalTradeItemIdentificationVal

Dependent attributes or attribute groups = yellow



SuggestedRetailPriceEffectiveStart	SuggestedRetailPriceEffectiveStart

The Excel template and the Excel download files contain different kinds of sheets.



Trade Item Sheets

These sheets contain the actual trade item data. The data in the Excel file is organized in a few worksheets. The structure corresponds to the GUI.
A trade item is uniquely identified by the combination of the GDSN attributes GlobalTradeItemNumber, InformationProvider and TargetMarketCountryCode. These three attributes must be included and populated on every sheet. There is one row per item in the sheet.

1WorldSync Publishing sheet

Populating this sheet allows you to publish data via Excel upload. Please see Publish Items via Excel Upload, p. 145 for details.

Types of Attributes

Repeatable attributes

To upload repetitions of an attribute, please copy the entire column for the attribute and enter the next highest number in the square brackets []. The default value is "[0]" for the attribute. To create a repetition, enter [1], [2] for the second repetition etc. The maximum number of repetitions is defined in the data structure. Please note that repetitions must always be transmitted together and in the correct order. Any change to the order of the repetitions or splitting them up in the Excel file will lead to an upload failure.
Example: Two repetitions of Trade Item Feature Code

TradeItemFeatureCode[0]	TradeItemFeatureCode[1]
tradeItemFeatureCode	tradeItemFeatureCode
Trade Item Feature Code	Trade Item Feature Code
A code depicting a distinctive functionality offered as a special attraction to the trade item for example built-in alarm clock. (tradeItemFeatureCode)	A code depicting a distinctive functionality offered as a special attraction to the trade item for example built-in alarm clock. (tradeItemFeatureCode)
Optional	Optional
String; 70	String; 70
AUTO_CHANNEL_SETUP	FLICKER_FREE

Figure 156: Repeatable attributes

The same applies to entire attribute groups – here the entire group must be repeated, and the numbers must be consistent within a group. Example – Season – last attribute from the attribute group and the first three attributes of the first repetition.

BR	BS	BT	BU
Season[0]	Season[1]	Season[1]	Season[1]
		SeasonName[1]	SeasonParameter[1]
seasonalAvailabilityEndDate	isTradeItemSeasonal	seasonName[de]	seasonParameter
Saisonale Verfügbarkeit gültig bi	Saisonartikel	Saisonbezeichnung	Saison: Parameter
Dieses Feld gibt das Enddatum der saisonalen Verfügbarkeit für diesen Artikel an. (seasonalAvailabilityEndDate)	Information, ob dieser Artikel nur zu bestimmten Jahreszeiten angeboten wird oder zu bestimmten Anlässen. (isTradeItemSeasonal)	Dieses Feld gibt die Saison für die Verfügbarkeit des Artikels an. (seasonName)	der Artikel verfügbar ist, bzw. Zuordnung zu einem der folgenden Zeiträume: Frühjahr/Sommer, Herbst/Winter oder das ganze

If the season name is to be repeated within the first repetition of the entire group, it would look like this:

BS	BT	BU
Season[1]	Season[1]	Season[1]
	SeasonName[1]	SeasonName[2]
isTradeItemSeasonal	seasonName[de]	seasonName[en]
Saisonartikel	Saisonbezeichnung	Saisonbezeichnung
Information, ob dieser Artikel nur zu bestimmten Jahreszeiten angeboten wird oder zu bestimmten Anlässen. (isTradeItemSeasonal)	Dieses Feld gibt die Saison für die Verfügbarkeit des Artikels an. (seasonName)	Dieses Feld gibt die Saison fü die Verfügbarkeit des Artikel an. (seasonName)
GDSN_DES_IsTradeItemSeasonal	GDSN_DES_SeasonName[70 CHA	GDSN_DES_SeasonName[70 (
true	Herbst/Winter	Autumn/Winter

Multilingual attributes

The language code is transmitted in square brackets [] after the name of the attribute. There must be one column per language. The code must be entered in lower case letters.
Example: Ingredient statement for English and French

H	I
IngredientStatement[en]	IngredientStatement[fr]
Ingredient Statement	Ingredient Statement
Information on the constituent ingredient make up of the product specified as one string. (ingredientStatement)	Information on the constituent ingredient make up of the product specified as one string. (ingredientStatement)
Optional	Optional
String; 5000	String; 5000

Figure 157: Multilingual attributes

Trading partner dependent values

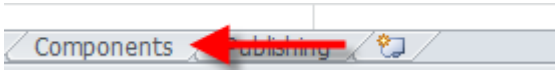
It is necessary to copy the column of the attribute in question and add the GLN of the trading partner to the header. There must be one column per trading partner. The neutral value is entered in the column with no GLN specified.
Example: a neutral Start Availability Date and a TPD value

StartAvailabilityDateTime	StartAvailabilityDateTime[4049111006040]
Start Availability Date Time	Start Availability Date Time
The date from which the trade item becomes available from the supplier, including seasonal or temporary trade items. (startAvailabilityDateTime)	The date from which the trade item becomes available from the supplier, including seasonal or temporary trade items. (startAvailabilityDateTime)
These fields are optional, but if one field is invoked than "Publication Date","Effective Date"	These fields are optional, but if one field is invoked than "Publication Date","Effective Date" and "Start Availability Date Time"
Mandatory	Mandatory
Date Time	Date Time
2011118	20111215

Figure 158: Start Availability Date and a TPD value

Upload components

It is possible to add components via Excel Upload in one step.
To upload components, the worksheet "Components" must be populated.



The columns headed RelatedItem[0] need to be populated to indicate the hierarchy connection.

Related Item[0]	Related Item[0]
gtin	amount
GTIN of next lower item	Amount of next lower level items
-	-
-	-
Mandatory optional	Mandatory optional
String; 13	Number
19983929459136	2

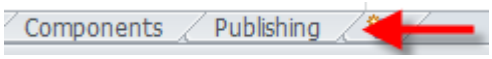
For gtin enter the GTIN of the related item, i.e., the next lower-level item. For amount enter the number of times this item is contained in the next higher item of the hierarchy. Please ensure that the data is entered in the correct row.
To add more than one relation for the same item, copy the columns and adjust the number in the brackets, i.e., for a second related item Related Item [1] etc.

Related Item[0]	Related Item[0]	Related Item[1]	Related Item[1]
gtin	amount	gtin	amount
GTIN of next lower item	Amount of next lower level item	GTIN of next lower item	Amount of next lower level item
-	-	-	-
-	-	-	-
-	-	-	-
Integer; 14	Number	Integer; 14	Number
24317711157009	1	24317711157016	5

Once the data is uploaded, the system is updated with the new trade items and components.

Publish items via Excel Upload

It is possible to add, release and publish newly created items via Excel Upload in one step. Additionally, already released items can be published, published items can be unpublished.
To publish items, the worksheet 1WorldSync Publishing must be populated.



When uploading the item(s), the option *Release uploaded items* must be flagged if you wish to release the item(s) with the upload. Once the item is uploaded and has no errors, it will automatically be released and then published if this option is set.
The worksheet needs to have the primary keys – GTIN, GLN and Target Market – populated. They must be identical on all worksheets. In addition, the Action Code is mandatory for publication as well as the publication target. Only the following values are allowed for the action code – ADD (for publication), DEL (for unpublish).
Please note that both the column Publish to Target market and the column Publish to GLN must be included in the file. Deleting one of the columns will lead to an error in the upload process.

Publish released items

The worksheet 1WorldSync Publishing must be populated with the primary key, publication target(s) and action code ADD. The item is published to the target entered after upload. It is not necessary to flag the option Release Uploaded Items in the upload dialogue.

Publish to Target Market

To publish to the target market, enter the target market code in the column headed PublishToTargetMarket. Do not enter the name of the target market, only the three-digit country code. Note that the column PublishToGLN must be empty.

ActionCode	PublishToTargetMarket	PublishToGLN[0]
-	-	-
-	-	-
-	-	-
-	-	-
String; 3	String; 3	String; 13
ADD	276	

Figure 159: Publish to Target Market

Publish to GLN

To publish to a GLN enter the GLN in the column PublishToGLN[0]. Note that the column PublishToTargetMarket must be empty.

E	F	G
ActionCode	PublishToTargetMarket	PublishToGLN[0]
-	-	-
-	-	-
-	-	-
Mandatory	Mandatory optional	Mandatory optional
String; 3	String; 3	String; 13
ADD		5355477913007

Figure 160: Publish to GLN

To publish to more than one GLN, enter a different GLN in each column with the header and the number in brackets. By default, the 1WorldSync Publishing worksheet has three columns for 1WorldSync Publishing to GLN. If you wish to publish to more than three GLN copy the column and enter a higher number

in the brackets, i.e. PublishToGLN[3] for a futher GLN, PublishToGLN[4] for the next one etc.

ActionCode	PublishToTargetMarket	PublishToGLN[0]	PublishToGLN[1]
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
String; 3	String; 3	String; 13	String; 13
ADD		4055555000001	4000004000002

Unpublish items via Excel

To unpublish items via Excel populate the 1WorldSync Publishing sheet with the primary key and the publication target. The column ActionCode must be populated with the code DEL. After the successful upload, the item will have the status Unpublished.

ActionCode	PublishToTargetMarket
-	-
-	-
-	-
-	-
String; 3	String; 3
DEL	276

Task List and Validation Task List

The task list offers the user a separate area to manage Catalogue Item Confirmations (CICs) as incoming tasks. Already on the horizontal menu bar, the number of existing tasks is displayed without opening the task list. In

general, most pending tasks are based on confirmations from internal data pools/community validations.
The validation task list provides a quick overview of the items that need to be processed timely (by displaying the texts in the selected language, jumping to the attribute, displaying the relevant columns).

Tip: in the first step, edit the items in the validation task list so that the urgent errors are eliminated. In the second step, edit the task list to also handle the feedback from external data pools or manually generated messages.

Task List

The Task List shows all items that have errors or warnings from individual retailers. In the Simple View task list, only those attributes are displayed that are necessary to understand the item and its condition. The simple view contains only the relevant information.
Select one or more items and follow the instructions in the right panel.

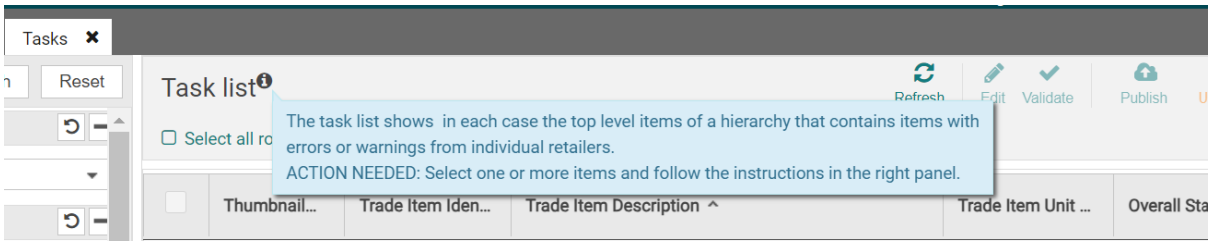


Figure 161: Tasks on the Menu Bar

Items with a To Do state because of CICs with state REVIEW or GDSNExceptions are listed here. CIC review messages or GDSN exceptions put items in a To Do status. These items are displayed in the hit list under Menu Tasks. When an item is selected in the task list that has a CIC, the CIC menu is automatically opened in the info area. This leads directly to the potential task that needs to be done.

The handling of the Task List as well as the available functions is consistent with the Supplier Item List. The search section on the left-hand side and the function bar are identical. Please refer to the respective sections for further information.

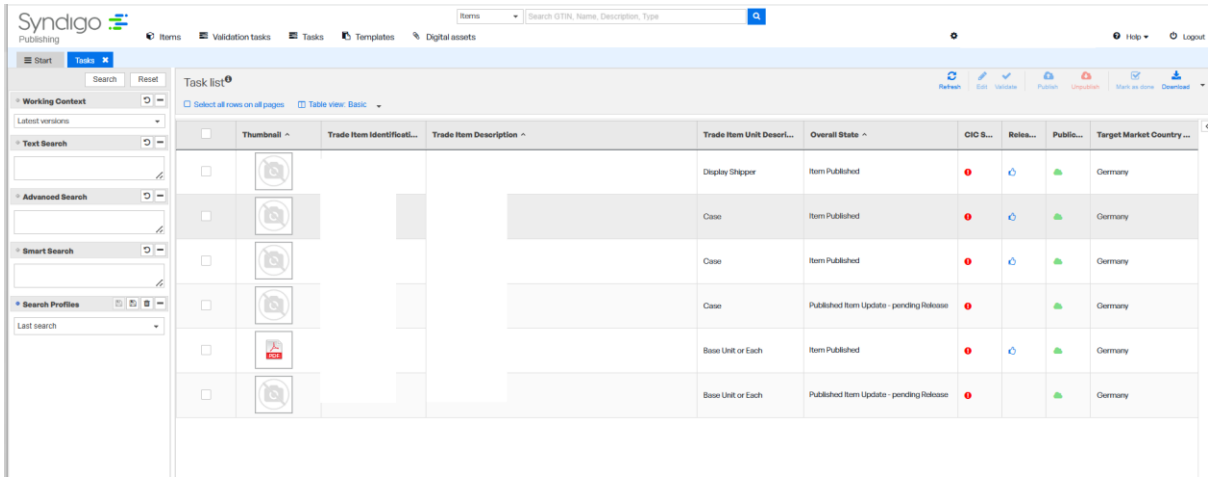


Figure 162: Task List

Working on items with To Do status

There are two different reasons why items appear in the Task List:
A retailer's request for the review of a certain item. The feedback from the retailer will be handled through a CIC Review message which references an item and contains review details.
Existing CIC reviews (recipient feedback) will not be kept as a task in the task list when an item is released again.
A GDSNException sent by the source data pool is immediate feedback if the publication failed.

The CIC Review is indicated with a sign. For more information on the CatalogueItemConfirmation in general and its status please refer to section 'CIC State'.
The GDSNException, displayed with a sign is displayed in the CIC Summary tab as well. Please note that only items with either the To Do state CIC review or GDSNEXception are displayed here.
Further information on the nature of the data that needs to be revised can be viewed in the CIC Summary tab beneath the hit list.

Processing to close warnings or error messages

Mark the item you want to rework. As soon as an item is tagged, an info panel appears on the right-hand side. Klick "Validate" to get the latest information on the item and see the errors or warnings listed below each other. Warnings are marked in yellow, Errors are marked in red. You can filter for: Errors, Warnings, Data Anomaly and Data Quality.

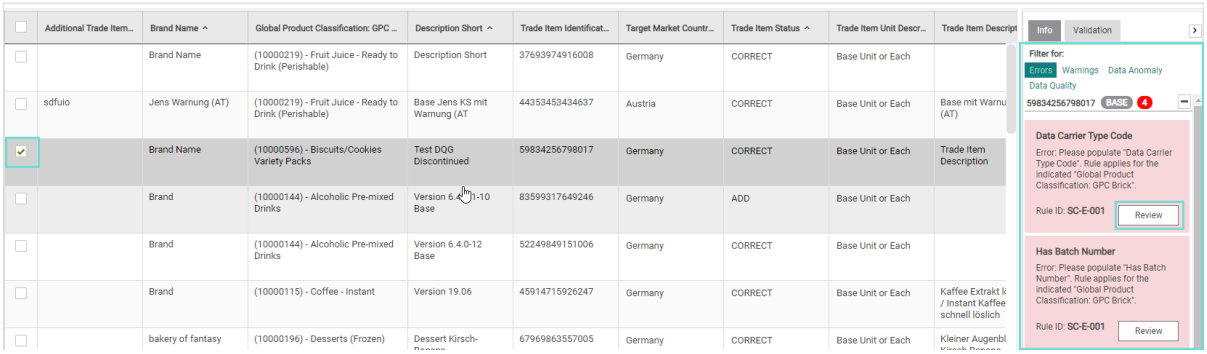


Figure 163: Task List with Info Panel

With the "Review"-Button for instance in the Error you can go directly to the position of the error in your attributes. The help text offers you support in finding a solution. Correct or add the information and click "Validate" again. The Error or Warning is now deleted from the List on the right panel. Proceed in this way with all Errors or Warnings.

Refresh Option

After saving the item, the message appears that a new version of the item is available. Click the "Refresh" function to show it.
The "Release"-Option is then active, and you must release the Item again.

Complete tasks

As soon as CIC review messages or GDSN exceptions are processed and resent, the entries are removed from the task list. See also section Exceptions Widget.
For community administrators, the "Mark as Done" button is visible because the support team needs this functionality.

Tip: The key combination Ctrl + Shift + arrow key right → can be used to hide the information panel on the right side. The same key combination can be used to undo the process.

Validation Task List

The validation task list is a (validation-based) task list that includes all topics automatically created by 1WorldSync approval and triggered by community validations. The validation task list can be activated or deactivated by the user (toggle function).

The CIC task list described previously shows the top items in each hierarchy that have received a CIC (Catalogue Item Confirmation) from individual retailers. Each hierarchy listed contains items with errors or warnings that need

to be corrected. The CIC always refers to the published item, but the error can also be in the base item sent with the item.

The list of validation tasks directly shows all the elements with errors. It allows you to read the problems in the language you have selected and jump directly to the corresponding attribute to correct it.

To do this, select one or more elements and follow the instructions in the panel on the right.

Only the buttons needed to perform the corresponding actions in this list are active.
The buttons have the same functionality as in the task list.
Several tasks can be selected and released at once.

Once a CIC check with corrective action "ACTION_NEEDED" from approval is received for at least one item in the hierarchy, a validation within Publishing is triggered for each item in that hierarchy:

When a CIC check with error (from approval) is returned for an element, the hierarchy is validated and any element with a validation error is added to the list of validation tasks.

When a task is solved in the element editor and one returns to the task list, the updated number of errors is displayed there.

Elements leave the validation task list when they are released again.

This function must be added by the administrator in the preferences.

Template List

The Template List allows you to perform all functions related to template maintenance in one central area of the application. Templates can be very useful if your items have a lot of data in common. New items can be easily added using a template that contains predefined data that is already populated. The Template List has the same structure as the item hit list.
The following functions are available:

- Creating, copying, and editing templates.
- A hit list displaying all templates with a template preview similar to the item hit list
- A validation report that validates the data filled in the template
- A Quick Search and an Advanced Search

Structure of the Template List

The structure of the Template List is divided into 3 Areas:

- The hit list, where all saved templates are displayed
- A search section, where the templates can be retrieved via a Quick and an Advanced search with the option of saving search profiles
- A preview of the data populated in the template, where validation errors are displayed and beside this a validation report field

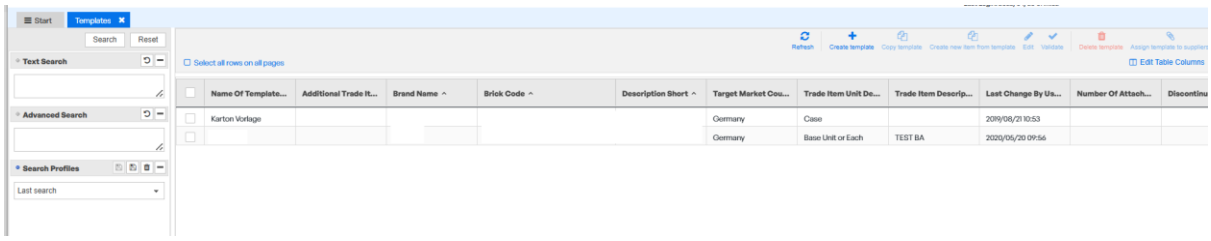


Figure 164: Template List

Templates which are assigned to you by the community owner are marked with a lock symbol . Those templates can be used for new items, however the template itself cannot be altered.

	...	Supplier Assigned Item Id	Trade Item Hierarchy Level
☐	🔒	OTRS 0299796 KG	Each (Piece) / Base Unit (BASE_UN...
☐	🔒	001	Case (CASE)
☐	🔒	001	Each (Piece) / Base Unit (BASE_UN...
☐	🔒		
☐		123	Case (CASE)
☐		123	Each (Piece) / Base Unit (BASE_UN...

Figure 165: assigned Templates

Create a Template

To add a new template, click the Create Template button

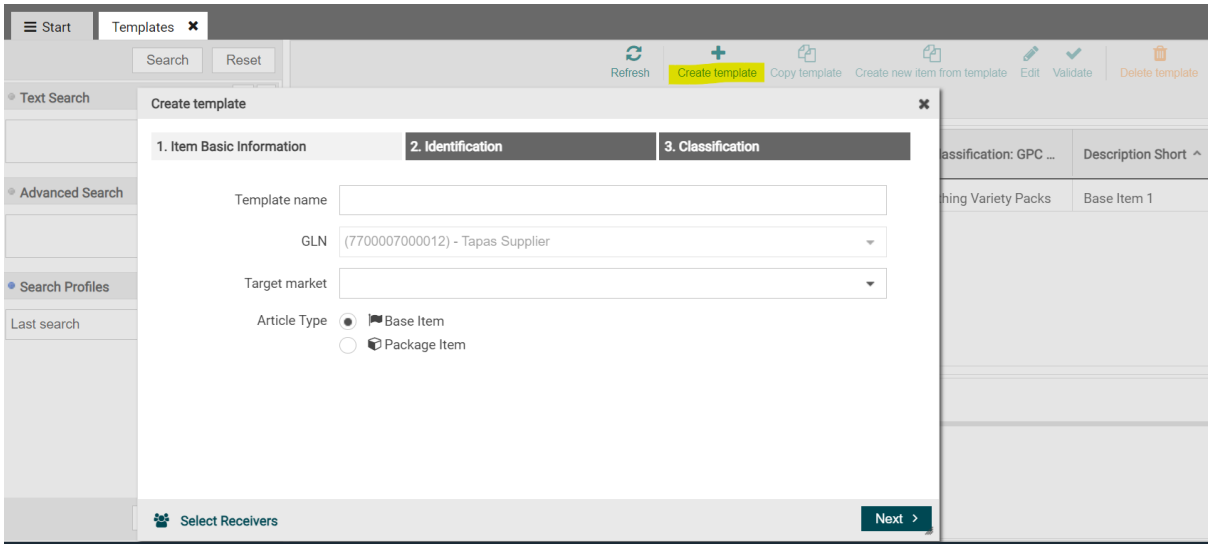


Figure 166: Create Template- Option

Enter a template name. The Article Type allows you to specify the nature of the item that the template will be used for. Like the creation of an item, indicates whether this is a template for packaging or for base items.
By clicking on Create the editor will open. When the template is saved for the first time, the data entered will be validated. Any further validation must be initiated manually.
The template name must be populated to be able to save the template. All other missing data does not prevent the template from being saved. Stored templates are available for selection from the drop-down menu; the user can correct the item data at a later stage.

Copying a Template

To copy a template, select a template in the hit list and click the Copy option in the function bar. Please note that when highlighting more than one template, the Copy button is inactive. Select the recipient of this item from the list. You can use the search function. Click 'Next' to continue the copy.

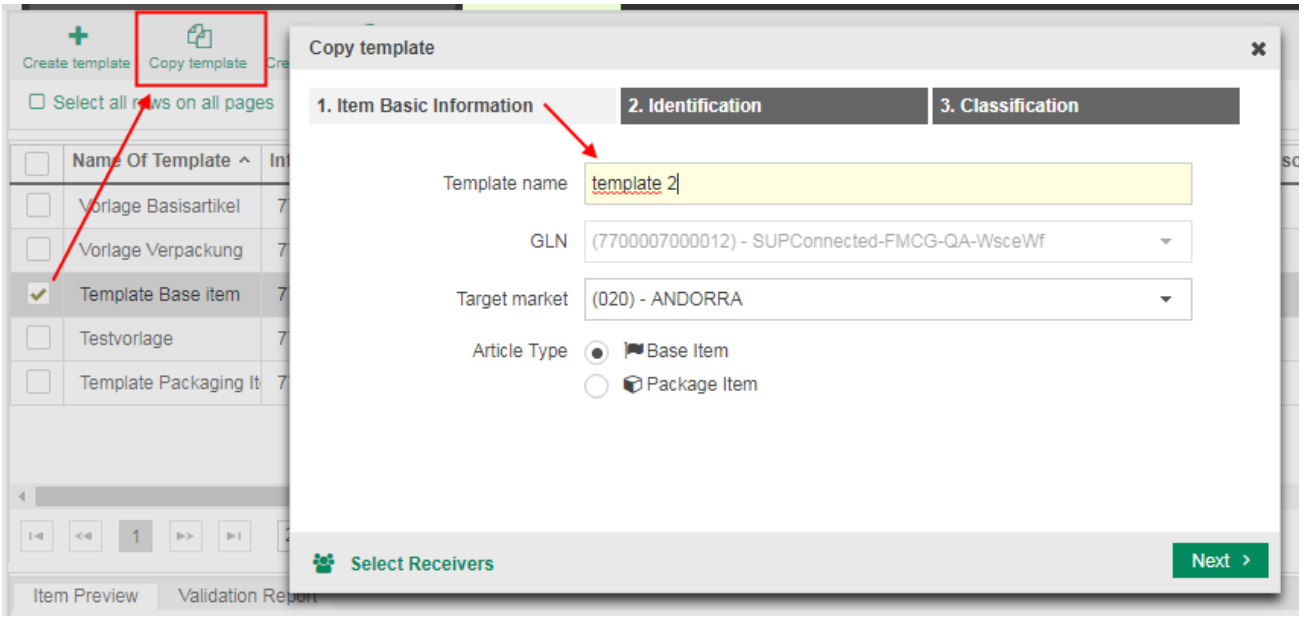


Figure 167: Copy Template - Dialogue

The filled data in the copied template can now be modified in the Editor before saving the template.

Edit Template

Mark the template you want to edit. Click the Edit option in the function bar to edit one or more templates.

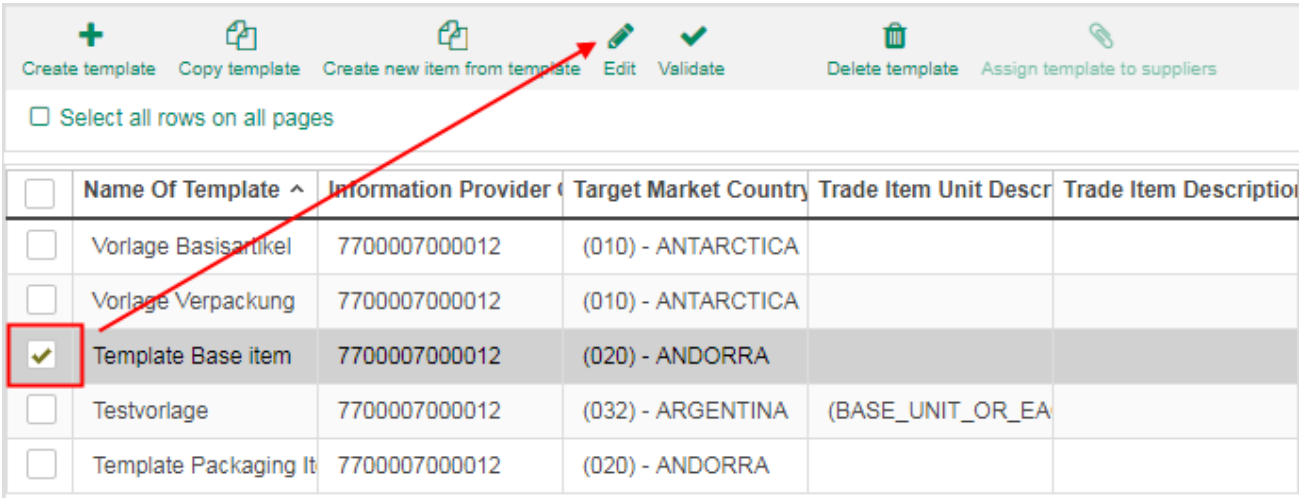


Figure 168: Edit Template

Clicking the button directly leads to the Editor with the template.
Edit the template and click save. The template will be validated automatically, and an error report will be generated.

Save an existing item as a Template

There are two ways of saving an existing item as a Template.

If the item is already opened in the editor, simply click the *Save as template* button. The template creation dialogue now opens, enter a template name and choose the item type.

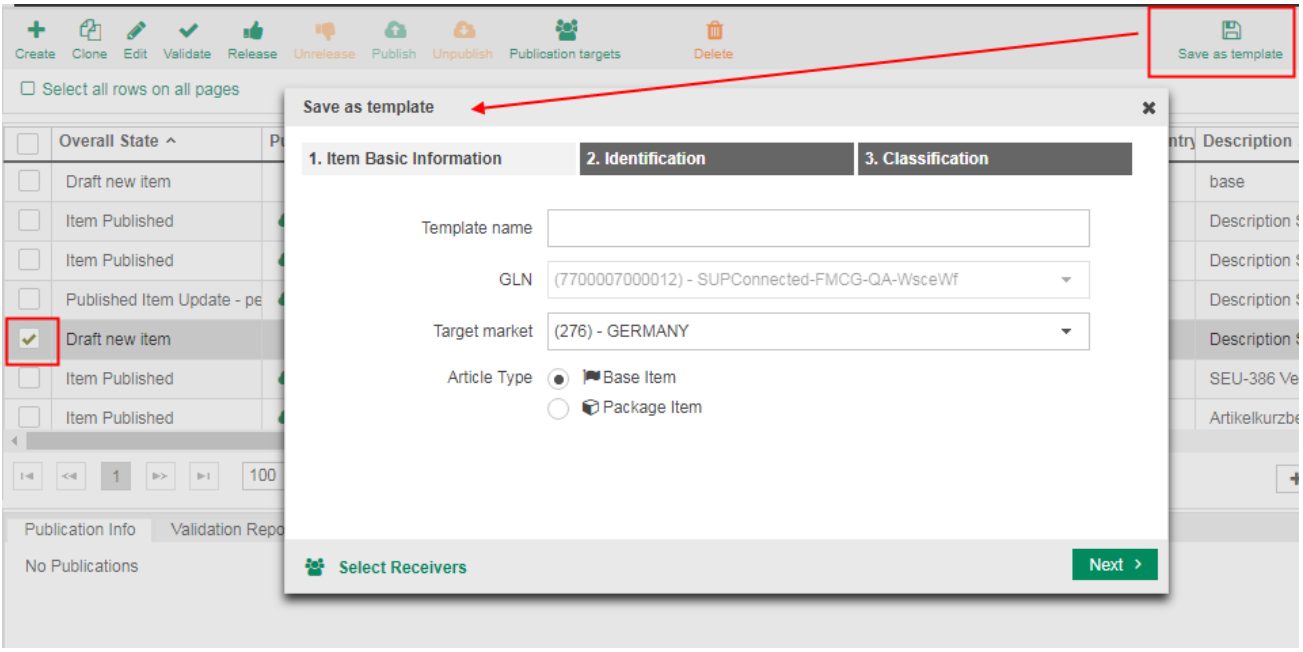


Figure 169: Save as Template - Function

To save an item as template from the hit list flag the item and click the Save as template button in the function bar. Please note that only a single item can be saved as a template at a time.

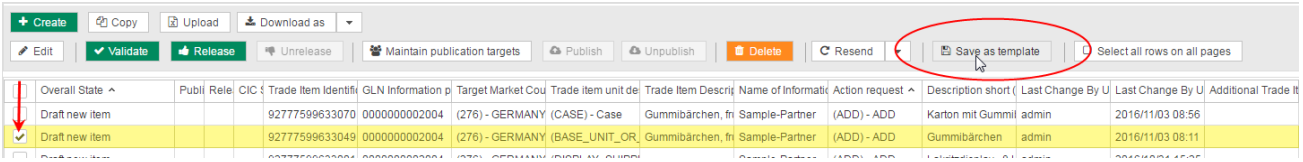


Figure 170: Save Template from hit list

Template Preview and Validation Report

The preview is meant to provide a quick overview and displays only a limited set of attributes. It is provided in a read-only mode. The data cannot be modified but validation errors are displayed.

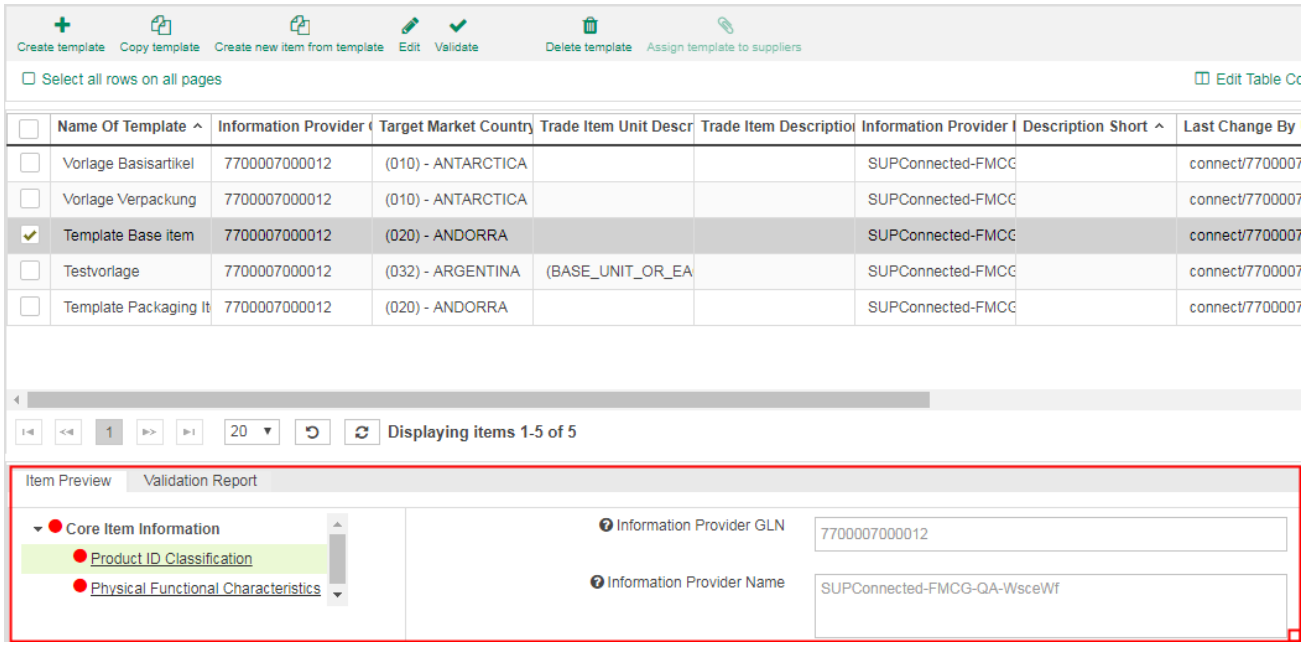


Figure 171: Preview with validation error in read-only mode

The Validation Report is displayed in a separate tab. The validation must be activated manually through the 'Validate' button in the function bar. You can validate more than one template; the validation reports for all templates will be displayed together. The validation report is not saved. When clicking another item or another tab the report will disappear.

Searching for and finding Templates

The search section of the 'Template List' is located in the widget on the left-hand side. A Text Search and an Advanced Search is provided here to retrieve the templates. Searching and navigating with both search options is done the same way as the search works for items in the Supplier Item List. For details see section 'Find Items with the Text Search function' and 'Find Items with the Advanced Search Function'.
A Search Profile can be saved. The Search profile works the same way as in the item list.

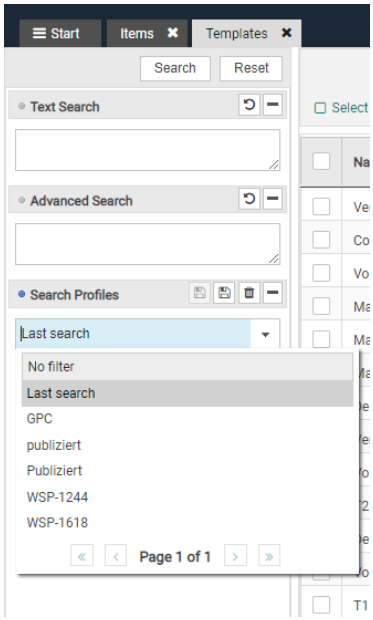


Figure 172: Search option widget for templates

Create new Item from Template

The template list function bar provides a functionality to create an item directly from a template.
Click the 'Create item from template' button and the 'Create Item' dialogue will open with the corresponding template selected.

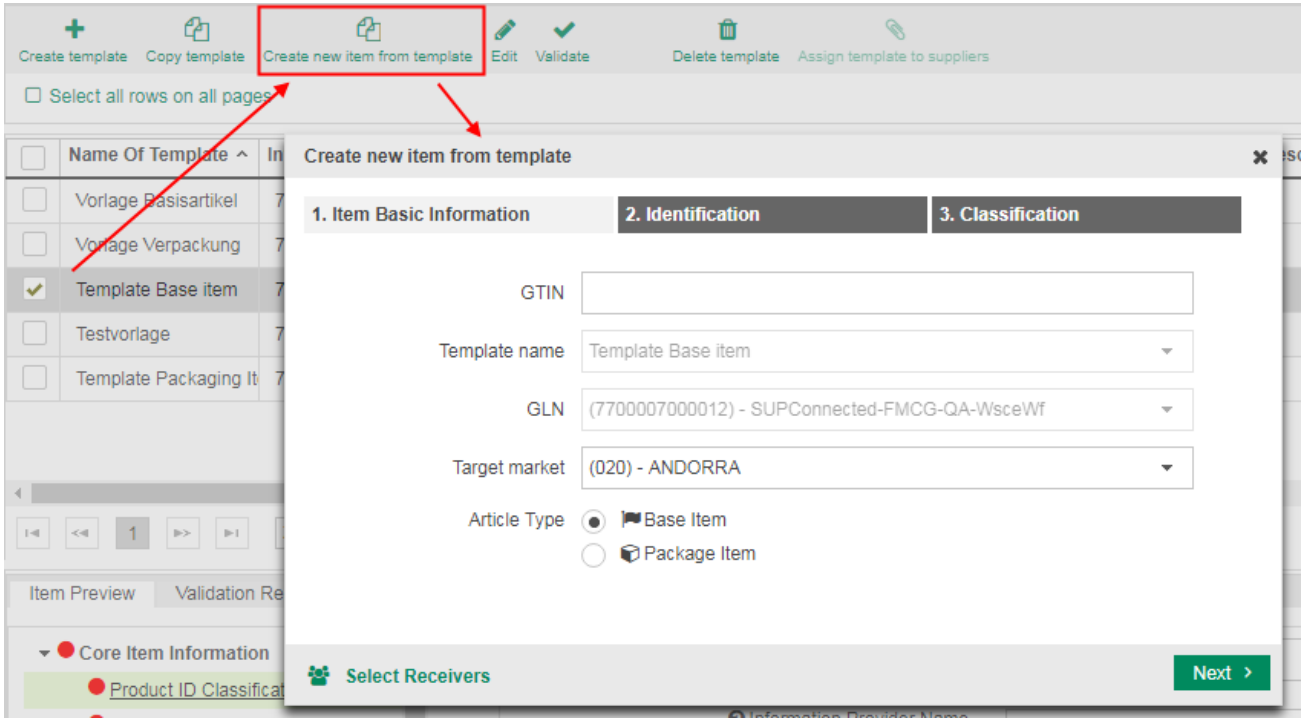


Figure 173: Create new item from template

For further information on creating an item from a template, please refer to 'Create Items using the Template Function'.

You can also create items from templates if you click on the Create button in the item list. Choose the template from the drop-down list. Templates assigned by the community owner are bold.

Digital Asset Management

Retailers have a high interest in getting high quality product images together with the item data, so they can use the product images without further re-processing or further inquiries within their web shops or print catalogues. The informative value of trade item data will be improved if business to consumer data aspects would be considered as well. Suppliers want to attach images or documents to trade items such as product images, instructions of use or organic certificates and want to make them available to retailers.

The 1WorldSync Publishing application supports the supplier Digital Asset handling. The Digital Asset Management (DAM) component enables the supplier to create and attach, detach, update, and search Digital Assets. To maintain Digital Assets, the administrator must have assigned the role to the supplier.
This section describes the functionalities of the user interface and the process of maintaining Digital Assets.

We recommend uploading at least one image with the following criteria:

- Resolution: 300 ppi
- File format: jpg format recommended.
- Perspective: depending on the nature of the product (flat or deep)

Notice: Due to different color spaces for a digital asset, the thumbnail in the application appears in black and white. The extraction of the metadata is not affected.

System Context

The supplier uploads Digital Assets by means of the 1WorldSync Publishing application. The 1WorldSync Publishing application stores the Digital Asset in an external *Media object cloud*. The cloud returns the reference to the stored object. The returned reference and all Meta data are stored in 1WorldSync Publishing. Digital assets that are not linked to an item can be removed from the 1WorldSync Publishing System. As soon as a trade item with Digital Assets is sent to the data pool, a reference is transferred to the *external file link information* of the trade item. This ensures that the Digital Asset reference and its Meta data is synchronized with the retailer according to the GDSN choreography. The retailer can access the Digital Asset via the delivered reference to the Media object within the cloud.

Image obligation (from February 2023)

From February 2023, the provision of images via the Global Data Synchronisation Network (GDSN®) will be mandatory according to the Community Decision. This will affect all data providers who supply new consumer units in the food and near-food product groups to retailers.
There must be at least one product image per GTIN for each new consumer unit in the data set. The product image shall comply with the image size, format, clipping path, colour profile and file name specifications set out in the image standard.
All relevant specifications and standards to produce product images as well as for the naming of media files can be found in the GS1 Germany application recommendation "Product Images and Media Assets for Strategic Brand Management and Successful Content Marketing". Among other things, it contains important information for the exchange of image data via the Global Data Synchronization Network (GDSN) for the German target market.

Adding a SEO product description to the file name

The GS1 Application Recommendation for Product Images and Assets specifies that SEO descriptions (e. g. "katjas-fruitgums") must not be part of the attribute "File: Name" [M416].
Ex: 04001754011317_C1RA_s01_v01-katjas-fruitgums. The underlined part is the SEO part, this does not belong in the attribute [M416].

Since 1WorldSync Publishing automatically extracts the filenames when using the 1WorldSync DAM (Digital Asset Management) service and writes them to attribute [M416], from now on it will look for an SEO description and automatically remove it for the attribute.
The 1WorldSync DAM service detects this SEO part from now on and deletes it from the attribute File: Name and writes only the relevant part in there. Furthermore, the field of the attribute File: Name [M416] but remains writable and can be adjusted if needed.
The file name (save path URL) uploaded to DAM is not changed.

GDSN representation of Digital Assets

The following GDSN attributes will be used to exchange Digital Asset information as the object reference to the external Media object cloud as well as the object Metadata.

GDSN attribute	Description	M/O/D[3]	Dependencies
Type of Information	Code identifying the purpose of the information contained	M	

[3] M – Mandatory, O – Optional, D - Dependent

	in the external file. Example: Image of product label, Marketing-Information, planogram.		
File Name	The name of the file contains the external information. Full file name.	O	
Content Description	Free form description of the content of the file.	O	
Content Description Language	Language in which the content description is expressed	D	If "Content Description" is populated, this attribute is required
File Format Name	The name of the file format. Examples: PDF; JPEG; BMP. Should be the extension of the file (substring from last dot).	O	
Uniform Resource Identifier URI	Simple text string that refers to a resource on the internet; URIs may refer to documents; resources; people; etc. The URL leads to the image in the Digital Asset Management.	O	
File Effective Start Date Time	The date upon which the target of this external link begins to be effective for use.	O	If the file is an image, the "File Effective Start Date Time" must be populated if the "Uniform Resource Identifier" is populated
File Effective End Date Time	The date upon which the target of this external link ceases to be effective for use.	O	
File Version	A description of the terms used by the manufacturer to denote the version of the Digital Asset.	O	
File Size	The size of the file as it is stored in an uncompressed format. The size of the file in bytes.	D	If "File Size" is populated, this attribute is required
File Size UOM	The unit of measure is associated with the file size. Should be byte by default.	O	
File Pixel Height	The number of pixels along the vertical axis of the image. The height of the image in pixels (for images only).	O	
File Pixel Width	The number of pixels along the horizontal axis of the image. The width of the image in pixels (for images only).	O	
File Print Height	The maximum measurement along the vertical axis of a printed representation of the file.	O	
File Print Height UOM	The unit of measure associated with the file print height	D	If "File Print Height" is populated, this attribute is required
File Print Width	The maximum measurement along the horizontal axis of a printed representation of the file.	O	
File Print Width UOM	The unit of measure associated with the file print width	D	If "File Print Width" is populated, this attribute is required
File Aspect Ratio	A description of the aspect ratio used to determine how a Digital Asset fits on a page or monitor. Automatically calculated.	O	

File Color Scheme	The type of color scheme used in the Digital Asset.	O	
File Camera Perspective	A description of the angle of perspective used by the camera in the capture of the Digital Asset.	O	
File Camera Perspective Language	The language associated with the file camera perspective	D	If "File Camera Perspective" is populated, this attribute is required
Is File Background Transparent	An indicator of whether the background used in the file is transparent. Having a transparent background would allow a recipient to place the file into any setting necessary.	O	
Is File for Internal Use Only	An indicator whether the file is intended for internal use only and not for general publication.	O	
Can Files Be Edited	An indicator of whether the user or recipient of the Digital Asset can edit it prior to use or as a function of using the asset. Some Digital Assets are designed such that the recipient can edit the asset to meet the needs of a final output.	O	
Is Talent Release on File	An indicator whether the owner of the asset has a talent release on file. This applies to files where talent or a model is used.	O	
File Usage Restriction	A description of any restrictions on the ability of the recipients to use the asset.	O	
File Usage Restriction Language	The language associated with the file usage restriction	D	If "File Usage Restriction" is populated, this attribute is required
Intended Publication Country	The country/countries in which the Digital Asset is designed to be used.	O	
File Copyright Description	A description of any Copyright notice which pertains to the Digital Asset.	O	
File Copyright Description Language	The language associated with the file copyright description	D	If "File Copyright Description" is populated, this attribute is required
File Disclaimer Information	A description expressing any disclaimers which pertain to the Digital Asset. (e.g. Item may be smaller than appears)	O	
File Disclaimer Information Language	The language associated with the file disclaimer Information	D	If "File Disclaimer Information" is populated, this attribute is required

Digital Asset Editor

The supplier opens the Digital Asset management component by clicking the tab "Digital Assets" in the main menu bar on the top. On this tab *Digital Assets*, all stored Digital Assets of the supplier are listed.
Both user and community admin are authorized to upload digital attachments in the DAM hit list as well as in the detail view and to release them with the item.

If an item is released with digital attachments, the file properties of the digital attachment are also transmitted in the CIN.
1WorldSync Publishing provides suppliers with the ability to store Digital Assets on their products and to exchange trade item data with attachments as images or documents. These Digital Assets should be made available to retailers. To maintain Digital Assets, the administrator must have assigned the role to the supplier.

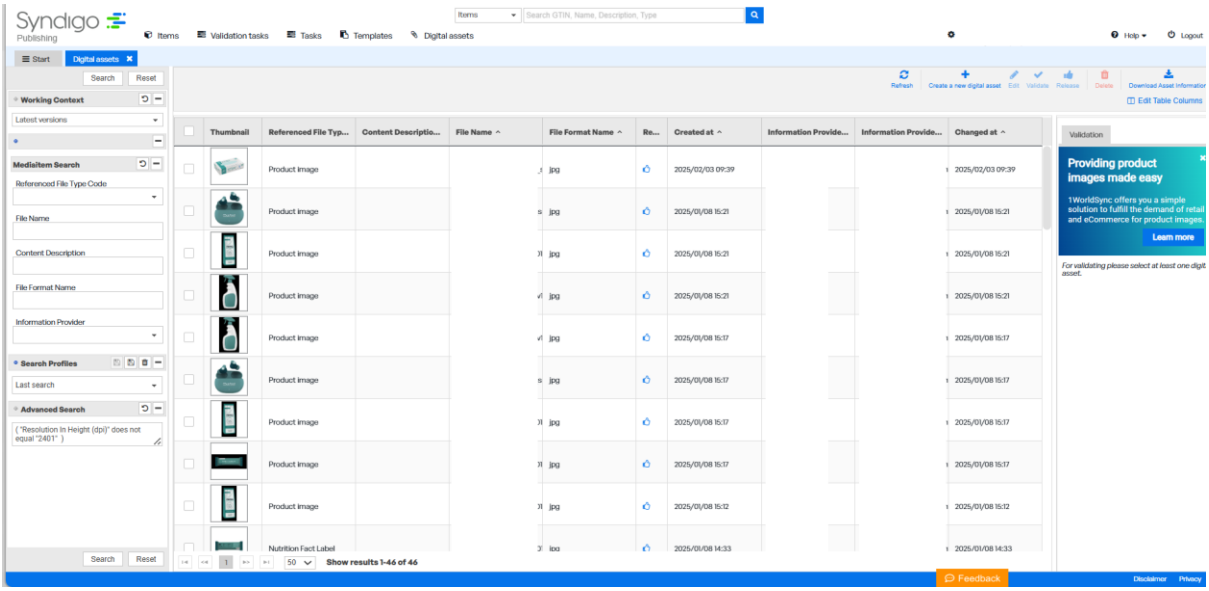


Figure 174: Tab Digital Assets

Double clicking an existing Media object will result in opening the Asset Editor.

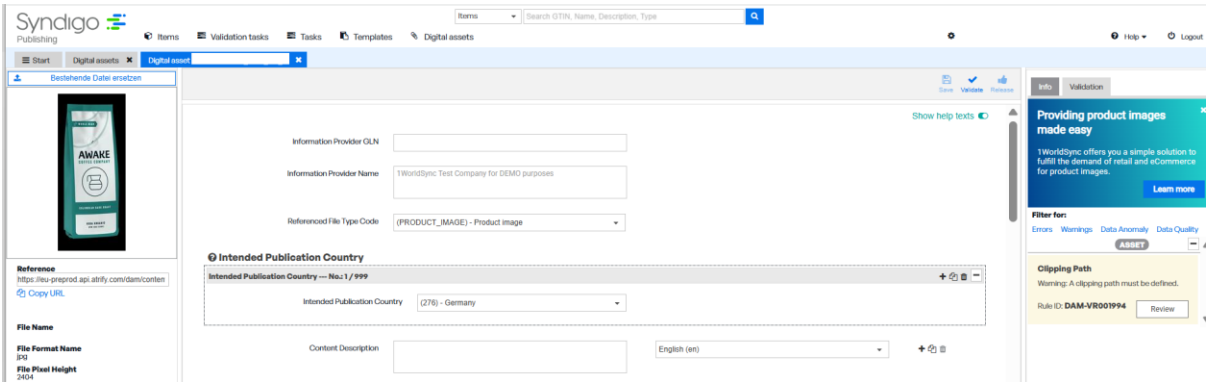


Figure 175: Digital Asset Editor

The Digital Asset Editor enables the supplier to link assets with items, to update, save and release Digital Assets.
The Digital Asset file widget on the left upper side displays the thumbnail or icon of the asset file and the reference to it in the Media object cloud. The reference is not editable. Uploading a new file is possible with the button "Upload a new file and replacing the current one". When uploading a digital asset within the application, a lot of available metadata (pixel height, pixel

width, file name) will be extracted automatically and filled into the corresponding fields of the Digital Assets Editor. The file aspect ratio will be automatically calculated using pixel height and pixel width. All this data will be automatically put into the corresponding fields of the digital asset and there is no further need to take care of them. The 1WorldSync Publishing application stores the Digital Asset in an external Media object cloud; therefore, it is not possible to delete an Asset.

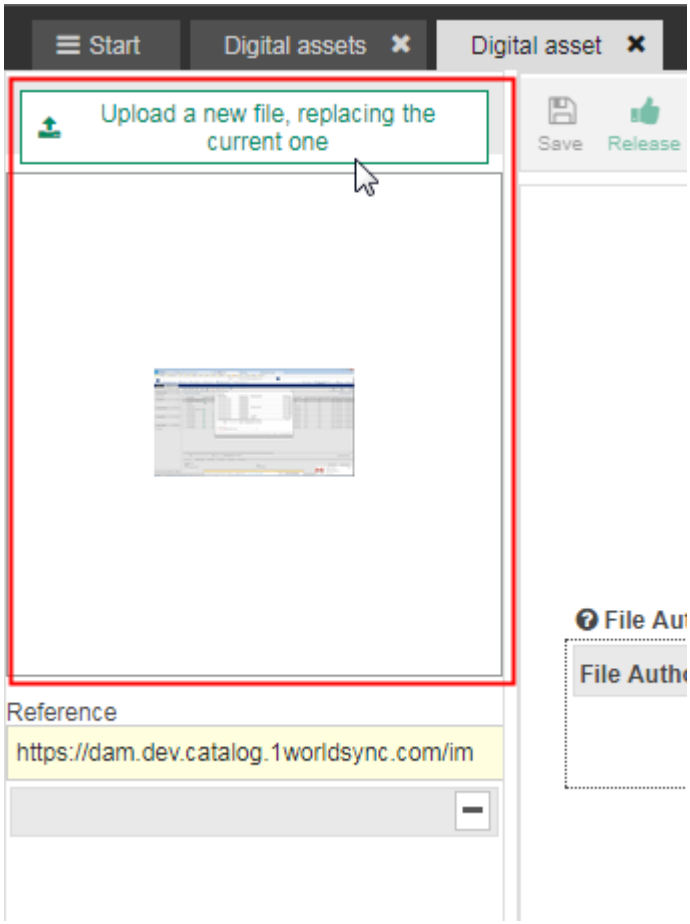


Figure 176: Upload function

Press this button to replace the current existing digital asset with another one. Select the appropriate image from the files and confirm your selection. The previous one will be replaced by the new image.

The image is automatically validated during this process. If, for example, one of the product images has insufficient resolution, you will be advised of this by the corresponding validation message and the Asset Replace dialog will guide you through the next steps. Follow the dialog's instructions.

Supported File Types

This section lists the supported file types along with the MIME type that should be used:

Name	MIME-Type	File Extension
JPEG images	image/jpeg	.jpeg, .jpg
Graphics Interchange Format	image/gif	.gif
Bitmap Image File	image/bmp	.bmp
Icon Image	image/vnd.microsoft.icon	.ico
Portable Network Graphics (PNG)	image/png	.png
Tagged Image File Format	image/tiff	.tiff
Photoshop Image	image/vnd.adobe.photoshop	.psd
Waveform Audio File Format (WAV)	audio/x-wav	.wav
Microsoft Windows Media Audio	audio/x-ms-wma	.wma
MIDI - Musical Instrument Digital Interface	audio/midi	.midi
MPEG-Audio	audio/mpeg	.mpga
MPEG-4 audio	audio/mp4	.m4a
Real Audio Sound	audio/x-pn-realaudio	.ram
RealMedia	application/vnd.rn-realmedia	.rm
Flash Video	video/x-flv	.flv
3GP/3GP2	video/3gpp; video/3gpp2	.3gp, 3g2
Audio Video Interleave (AVI)	video/x-msvideo	.avi

Microsoft Windows Media Video	video/x-ms-wmv	.wmv
MPEG-Video	video/mpeg	.mpeg
MPEG4 Video	video/mp4	.mp4
Adobe Portable Document Format	application/pdf	.pdf
Digital multimedia file	video/webm	.webm
Zip Archive	application/zip	.zip

Figure 177: Supported File Types

- Color formats are not validated.
- Pdf format is supported.

1WorldSync Publishing Item Editor – Detail View Digital Assets

To open the corresponding item in 1WorldSync Publishing in *the detail view*, click "edit" on the right side in the widget *Assets* with the related item.

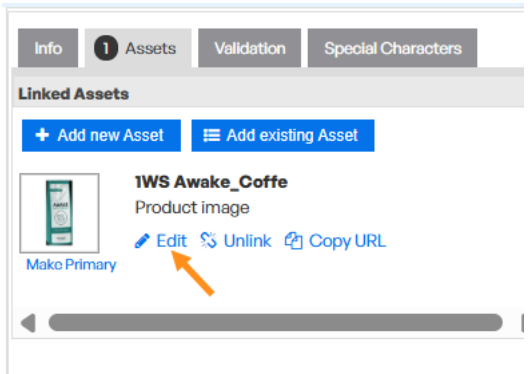


Figure 178: Related Item

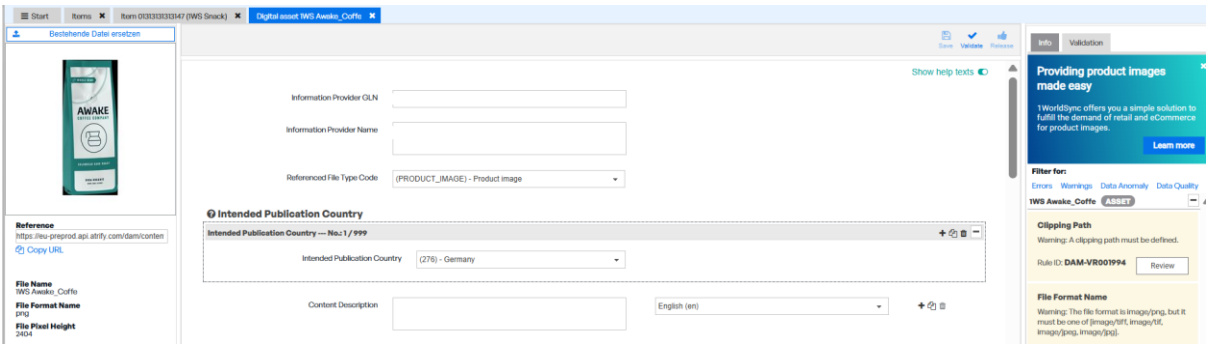


Figure 179: Detail view of Media assets with linked item

The assets can be edited, added, or changed from here. For example, the name of the linked asset can be modified via the "Edit" button.

Link a Digital Asset to items

To link an asset to an item, open the Digital asset in the Digital Assets Editor.

Figure 180: Item Detail view with linked Media Assets

A modal opens where the items to be linked can be selected. A modal opens to choosing the items that can be linked to the digital asset. After clicking the Save & Release Button the appropriate links will be created on the selected items. The modal closes and the linked item section of the digital asset editor refreshes. A tooltip over the Save & Release button reminds one to later send out the items again.

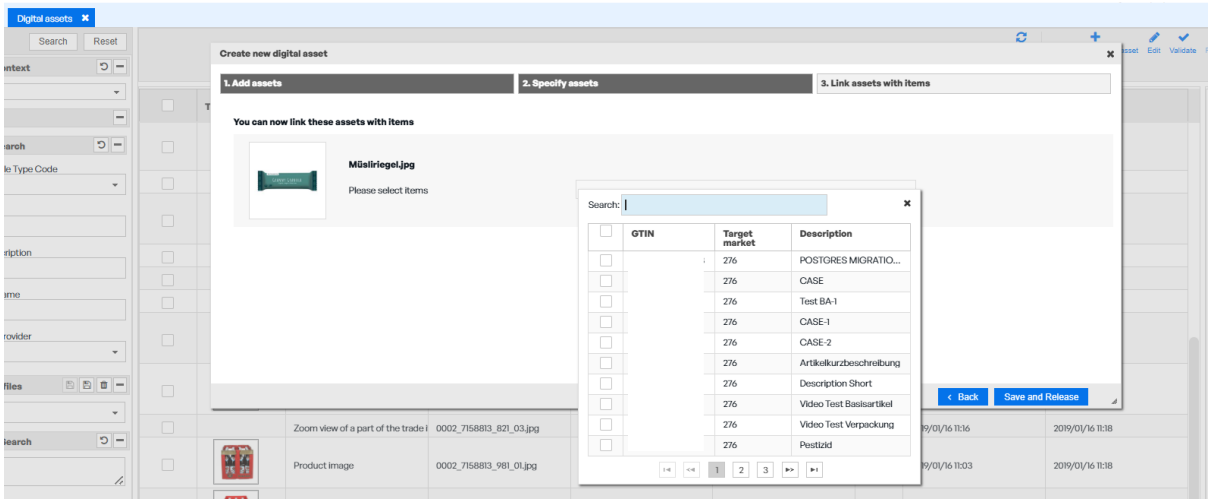


Figure 181: Link Assets to an item

Unlinking a Digital Asset from Items

To detach a Digital Asset from an item, click "unlink" to disconnect the linkage between item and Digital Asset.

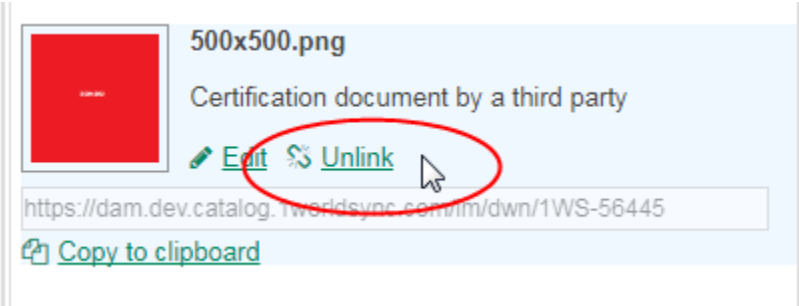


Figure 182: Unlink Digital Asset from item

Attaching Digital Assets to an item

Attaching a Media object to a trade item will create a relation between both. This relation can be seen as similar to hierarchy relations. It will not be possible to release a trade item if a Digital Asset is attached which has no released version. A released trade item revision will always refer to the released revision of the attached Digital Asset.
To assign a digital asset to an item first open „Item-List“ with all stored Digital Assets on the Dashboard Menu bar. Now open the item in the hit list by double-clicking on the checkbox in front of the line. The detailed view is opened. Next, to attach an existing digital asset to the item, click the following button “Info” in the widget on the right side of the screen:

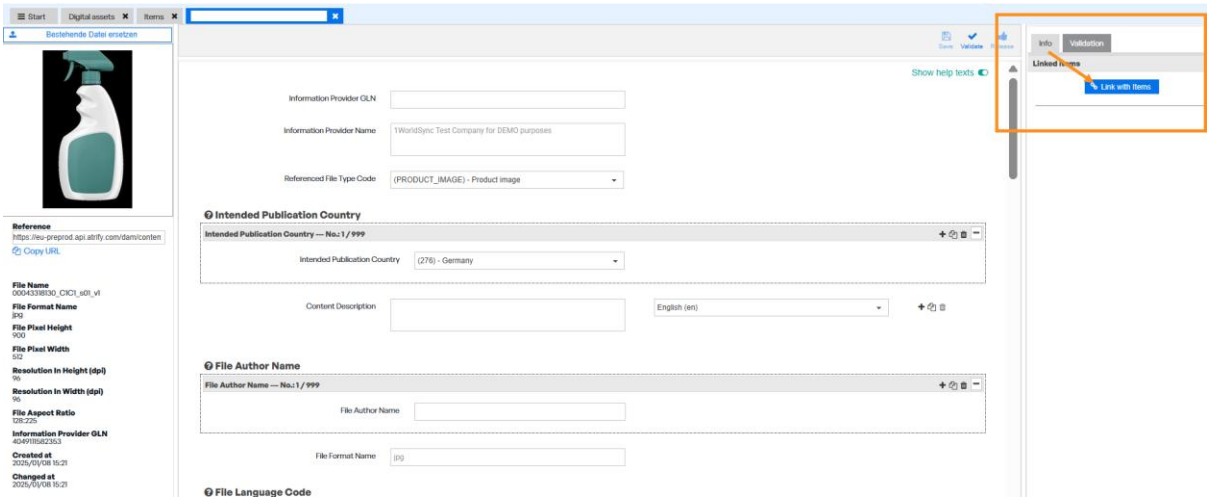
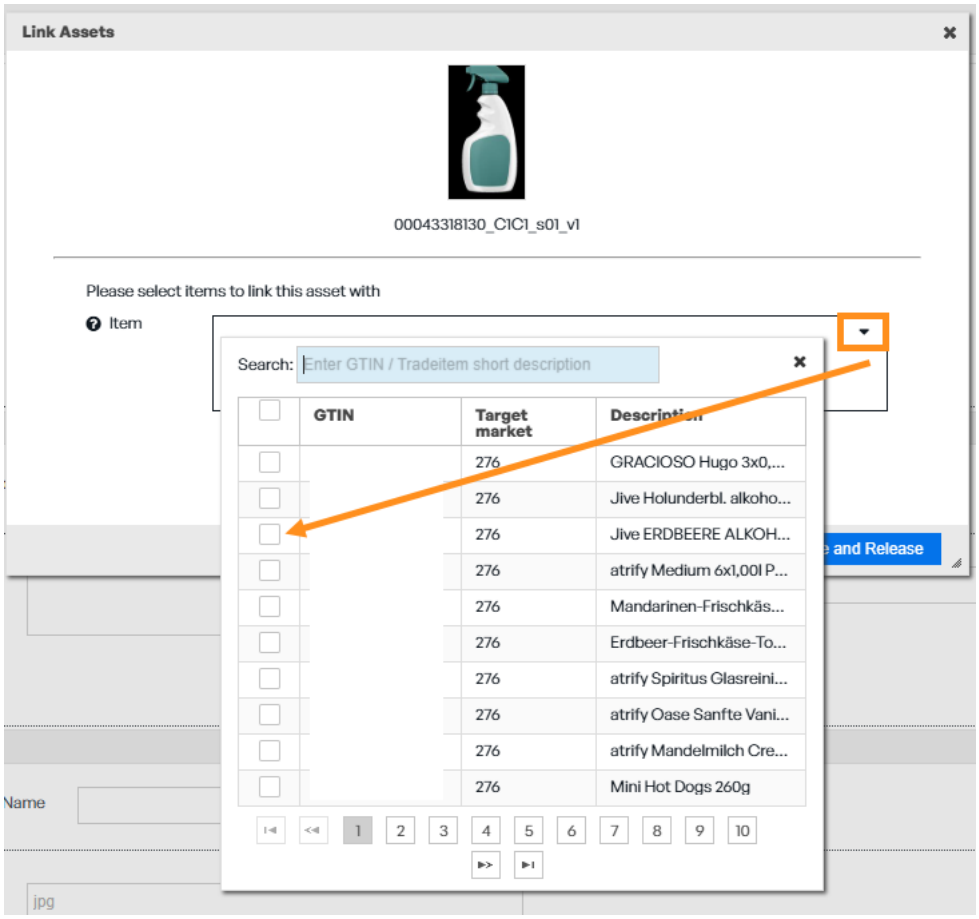


Figure 183: Assign an existing digital asset

On the now appearing overview all existing items are listed. Choosing an item on the list will assign it to the corresponding Asset.



As a result of this process the assigned digital asset is listed in the widget on the right-hand side of the screen.
As an asset can be assigned to several items, the linked items are extended by the corresponding target market information, e.g.
GTIN: 0123456789101 (276) - Germany
GTIN: 0123456789101 (040) - Austria
Especially for publications in the DACH region, assets for German-language items are used several times. The information on the respective target market in the DAM sidebar saves you time in selecting the right item straight away.

Detaching Digital Assets

During a product cycle, it is sometimes required to upgrade or replace a Digital Asset. For this the Digital Asset must be detached from the item. Otherwise, the deletion of the digital asset is not possible.
The delete button for digital assets in the hit list and in the digital asset editor is enabled if there is no relation to any trade item.
A click on the delete button will remove the media object from 1WorldSync Publishing (no change to the original image in the asset cloud).
To unlink a Digital Asset first open the item in the detailed view. In the *Attached Digital Assets* on the right side all Digital Assets which relate to the item are

listed. To detach the connection, highlight the Digital Asset and use the detach button to *detach the selected Digital Asset*. Unlink
1WorldSync Publishing detaches the Digital Asset from this trade item.
Note: This feature is only enabled in the Item Editor.

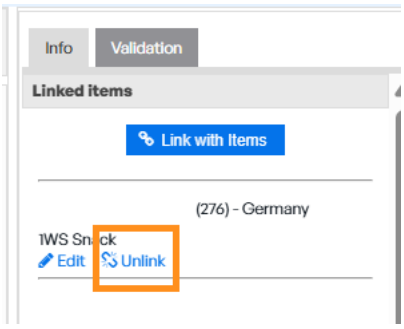


Figure 184: Detach the selected Digital Asset

Deleting a Digital Asset

Deleting digital assets from the system is possible unless they are linked to a trade item. If you want to delete a digital asset which is still linked, you need to unlink the digital asset from the item (and maybe unpublish and unrelease the item) before.
The delete button for digital assets in the hit list and in the digital asset editor is enabled if there is no relation to any trade item.
A click on the delete button will remove the media object from 1WorldSync Publishing (no change to the original image in the asset cloud).

Creating Digital Assets

To create a Digital Asset, open the Tab *Digital Assets*. The Hit list is displayed. Different actions can be carried out via the buttons on the function bar. The available options are always visible. Options that are not active are grayed out. All created Digital Assets are initially stored and can later be assigned to the respective items. (See Attaching Digital Assets, p. 167).

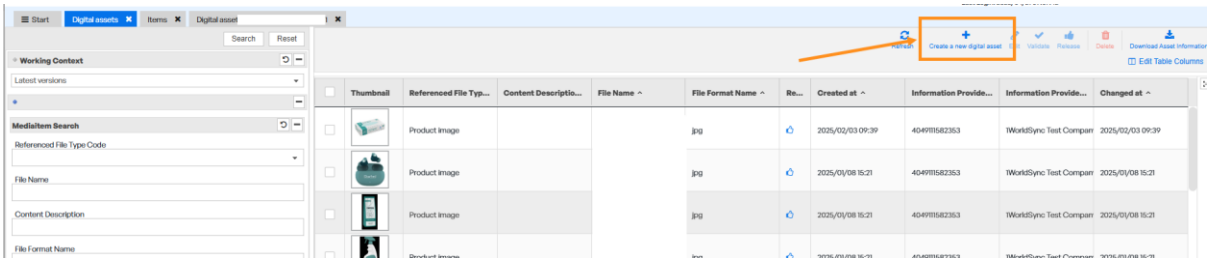


Figure 185: Open Digital Assets Module

Creation Wizard for Digital Assets

Similar to the Item-Creation-Wizard the wizard for Digital Assets lets you upload, define and link digital assets in three simple steps. The first step of the wizard will provide the possibility to select a file to be uploaded as a digital asset. When a file has been selected and chosen for upload, progress bars will visually indicate the progress of the upload. A green status message will confirm the successful upload of your assets, while a red error message will tell you about any problems that have occurred.
Authorizations are defined in the administration module. If the user is an admin, community admin or enterprise admin an additional combo box to select an owner for this digital asset is visible above the file chooser. The combo box only contains suitable companies, and the user cannot enter another company, which is not suitable.
To create a new digital asset and assign it to an item, select the Create New Digital Asset option.

The Creation Wizard is opened.

Step 1: Upload item

With step 1 the user can select a digital asset from the local hard disc and upload it to the DAM system. Select up to 25 digital assets from your filesystem and put it to the first wizard screen by drag and drop. The object's existing metadata is also uploaded by default.
Note: The upload does not accept files with a file name of only one-character length. Uploaded files must be at least three characters long in the file name.
While uploading the progress is shown as a green status bar.

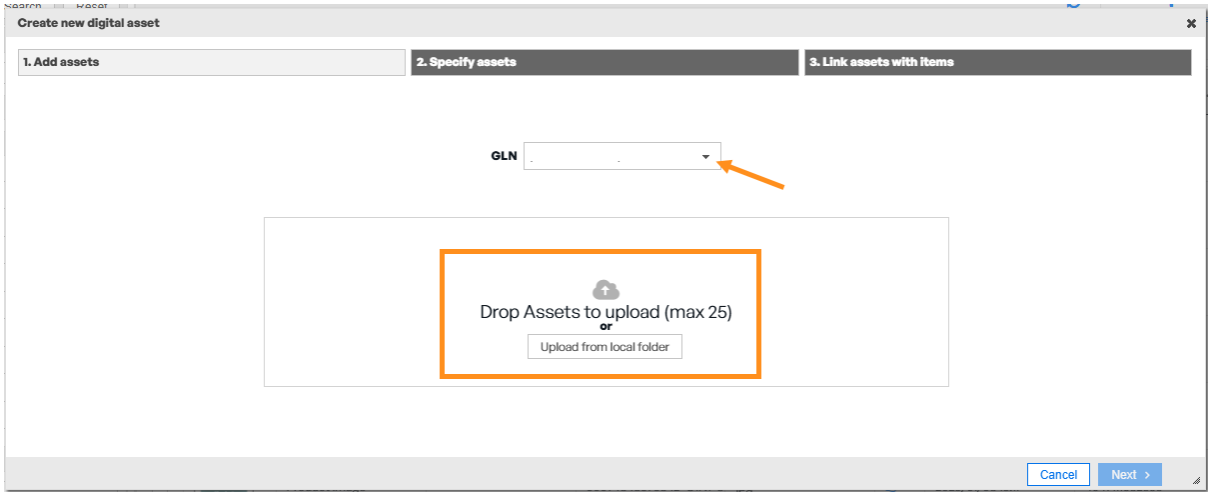


Figure 186: Step 1, successful upload

After uploading the asset in the first step, move forward to step 2.

Wizard Step 2: Specify item

In step 2, the asset type that specifies the digital asset is assigned. You have the choice to define the type of each asset separately or once put the type on the first asset and apply it to all other files you have uploaded in the preceding wizard step. All further information on the digital asset has been saved with the upload and can later be added and maintained separately in the editor.
The attribute "File: Effective Start Date Time" can already be specified when creating new assets, can be set individually for individual assets, and can also be transferred to all assets (in the case of a multiple creation of new assets). Specify the validity date of your asset in the dialogue box "Specify assets". After creation, you do not have to call up the asset to fill the attribute there.

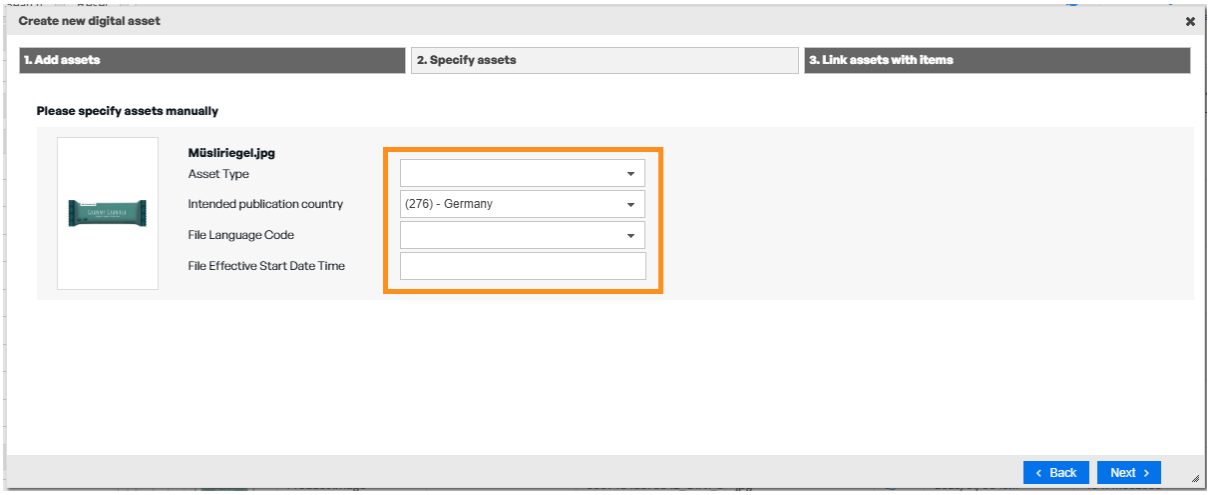


Figure 187: Step 2, specify asset

Wizard Step 3: Link item

Step 3 of the wizard is the possibility to link your uploaded assets directly to any existing trade item. For this purpose, you can also choose to select a specific item for each asset or for the case all uploaded assets belong to one item, you simply define the link for the first asset of the list and apply your selection to all remaining assets. Select the corresponding item/s from the combo box.

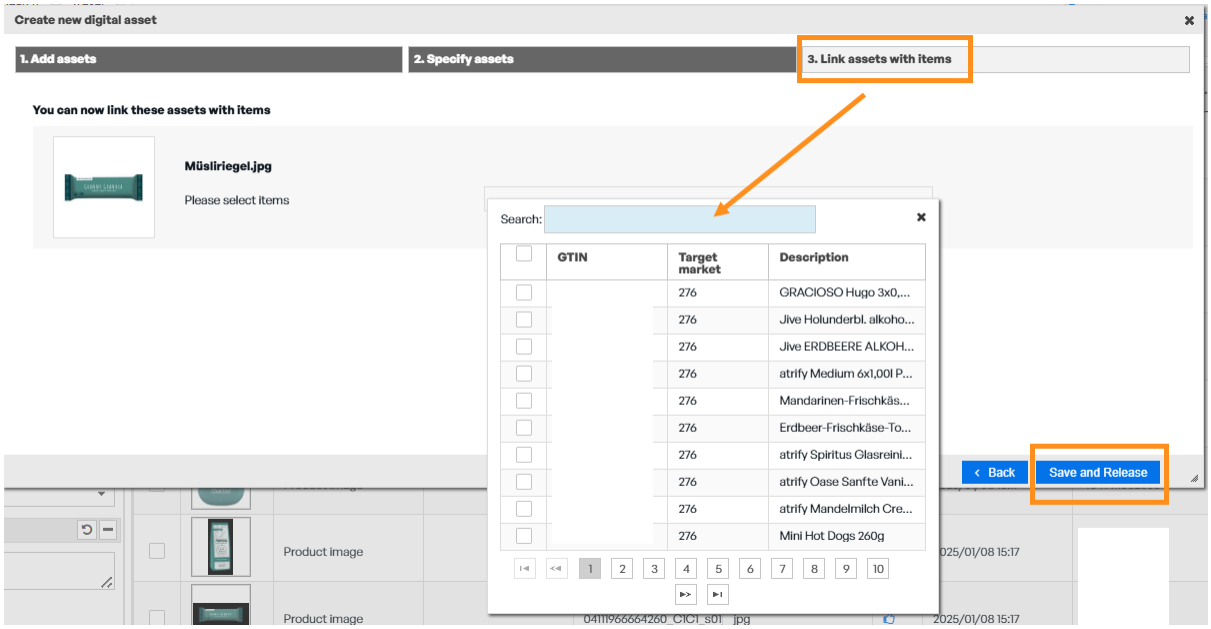


Figure 188: Step 3, Link Item

Then save and release the process and exit the wizard. The digital asset is now linked to an item. A new digital asset is now available in 1WorldSync Publishing. This media item is linked to the items selected in step 3.
As soon as a digital asset is attached to an item and this item is released and published for the data pool, all changes to this digital asset must be sent to all affected data recipients / resellers. Digital assets are not transmitted individually but only with the items they are attached to.
With the confirmation to save and release, you receive the notice to resend the newly linked item.

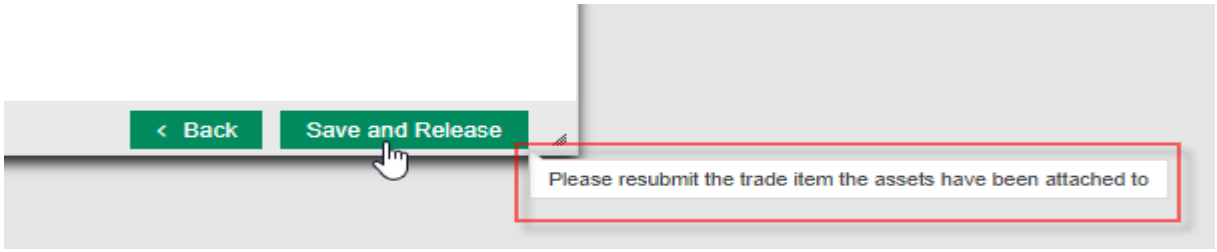


Figure 189: notice to resubmit trade item

1WorldSync Publishing now saves the digital asset as a working revision. The digital asset is created.

Searching for Digital Assets

If the supplier wants to get an overview of existing Digital Assets, the Digital Assets can be filtered by using the Search option Media Item Search.
Proceed as follows: open the tab Digital Assets in the main menu bar on the top.

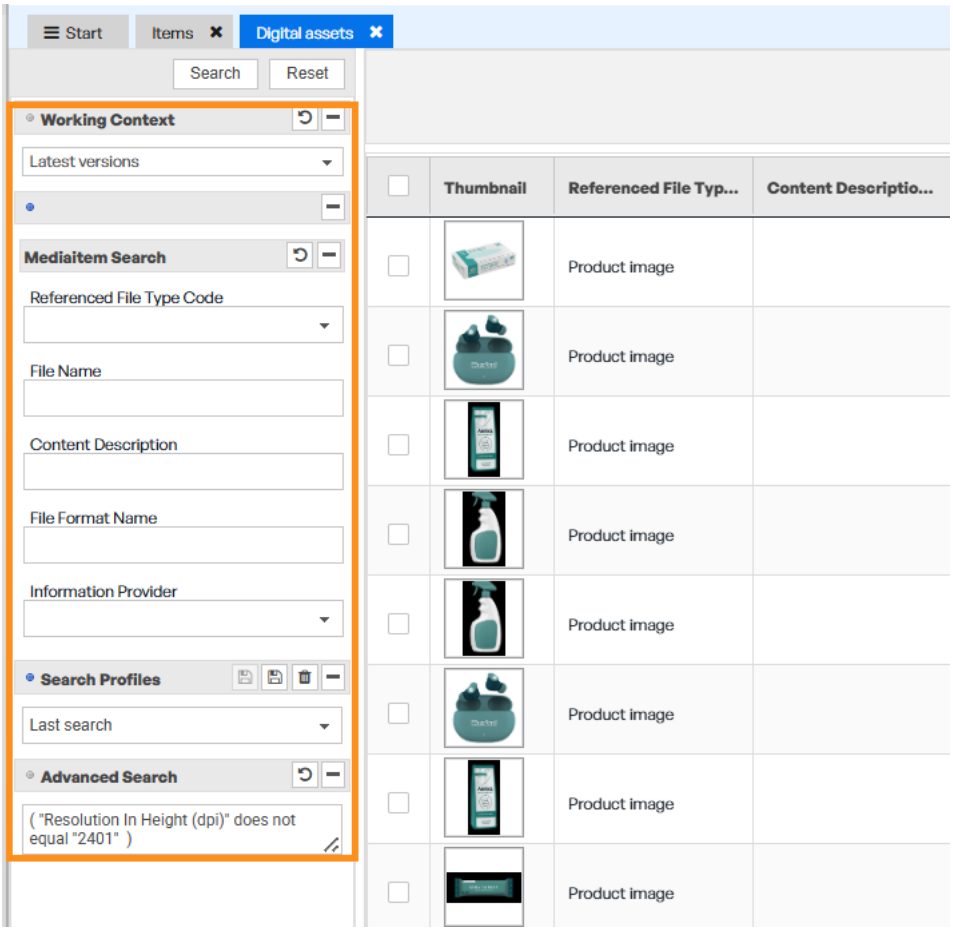


Figure 190: Hit List of stored Digital Assets with Media Item Search

The hit list in the center displays all stored Digital Assets – attached or unattached -, the widget on the left side contains the Search parameters.

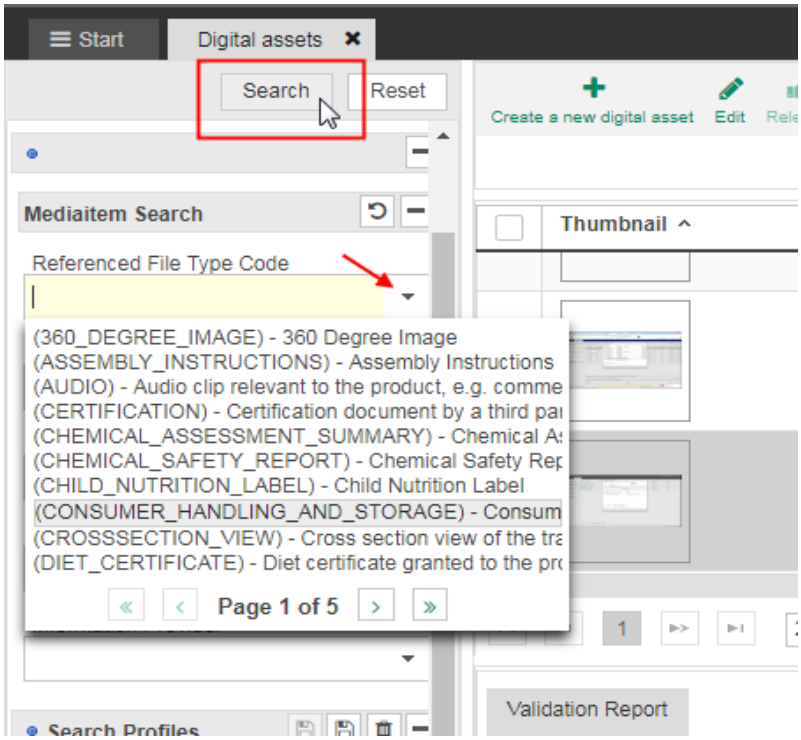


Figure 191: Referenced File Type Code

Via the widget on the left-hand side, you can narrow the search results. Select the

- Referenced File Type Code or
- File Name or
- Content Description or
- File Format Name or
- Information Provider.

The Working context is set by default to "Last Search". Clicking Reset will clear the entry fields. Proceed to the Search function by clicking the "Search" button.

1WorldSync Publishing determines the matching Digital Assets. The Digital Asset hit list is displayed.

Extended Filter Criteria

To better filter Digital Asset Information, the following filter criteria can be applied. For example, this becomes necessary when searching for a list of assets created after a specific date:

Intended Publication Country	The Country/countries in which the asset is designed to be used.
File Effective Start Date Time	The date on which the target of this external link begins to be effective for use.
File Effective End Date Time	The Date and time upon which the target of this external link ceases to be effective for use.

Created at	Date on which the Digital Asset was created.
Changed at	Date on which the Digital Asset was changed.

Search Parameter

Parameter	Type	Mandatory/ Optional	Description
Working context	Combo box with "Latest", "Released", "Never Released" and "Pending Release", default = "Latest"	Optional	The working context determines which Digital Asset revision should be displayed. If the user opens the released revision of a Digital Asset which has as well a working revision, the Digital Asset editor shows the revision in read-only mode.
Referenced File Type Code	Combo box with all possible types	Optional	Code identifying the purpose of the information contained in the external file.
File name	Text field, default = empty	Optional	The user may narrow the result set by specifying the file name of the Digital Asset file.
Content description	Text field, default = empty	Optional	The user may narrow the result set by specifying the description of the Digital Asset file.
File format name	Text field, default = empty	Optional	The user may narrow the result set by specifying the file format name of the Digital Asset file.
Information Provider (GLN)	Combo box with all possible types	Optional	The user may narrow the result set by specifying a trade item GLN.

Maintaining Digital Assets

With the filtered search results, you can maintain the information on each Digital Asset.
Open the detailed view of the selected Digital Asset by double-click on the asset or mark the corresponding combo box and using the Edit-button.

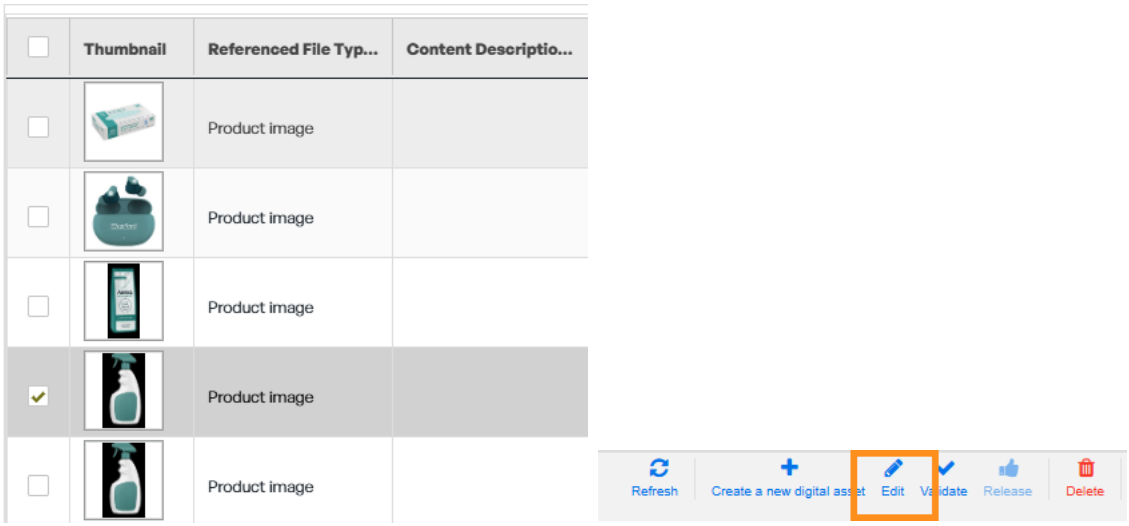


Figure 192: Maintaining Digital Assets – select an edit a Digital Asset

After editing the General information and the Image Information, it is possible to Save and Release the Digital Asset to test it for correctness. Correct the errors, and if possible, also the contents that cause warnings.

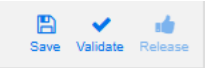


Figure 193: save and release Digital Assets

After correction, the object must be saved to secure the changes and additions. With the Saving process 1WorldSync Publishing creates a working revision. Again, the Digital Asset must be released. The released revision of the trade item having the digital asset attached must be resubmitted to the data pool and the retailer.
The Meta data and the URL of the released Digital Asset revision will be included in the submitted CIN.

Distributing Digital Assets

Once a Digital Asset is created, released, and assigned to an item, it will be delivered as a part of a CIN to the retailer. The Digital Asset is stored in the Digital Asset cloud and only the reference is sent to the retailer within the CIN message.
A trade item may have attached several Digital Assets. After finalizing the edit process, the trade item will be released. In the case the trade item has been published to at least one retailer or is part of a published hierarchy, the trade item data will be sent to the data pool as well and synchronized with the retailers having subscribed to the trade item.

The Meta data and the URL of the released digital asset revision will be included in the submitted CIN. If one of the attached Digital Assets has only a working revision, the trade item will not be releasable.
Always the trade item data of the released revision will be sent. If a trade item has only a working revision no CIN will be transmitted.

Automatic Validation of Digital Assets

It is possible to validate product images against the specifications of certain target markets. Retailers have a high interest in getting high quality product images together with the item data, so they can use the product images without further re-processing or further inquiries within their web shops or print catalogues.
By validating the product images, the supplier gets direct feedback on problems related to his images and has the possibility to do it right the first time. The validation will happen automatically on all digital assets uploaded within the Digital Asset Management solution which have the Referenced File Type Code PRODUCT_IMAGE.

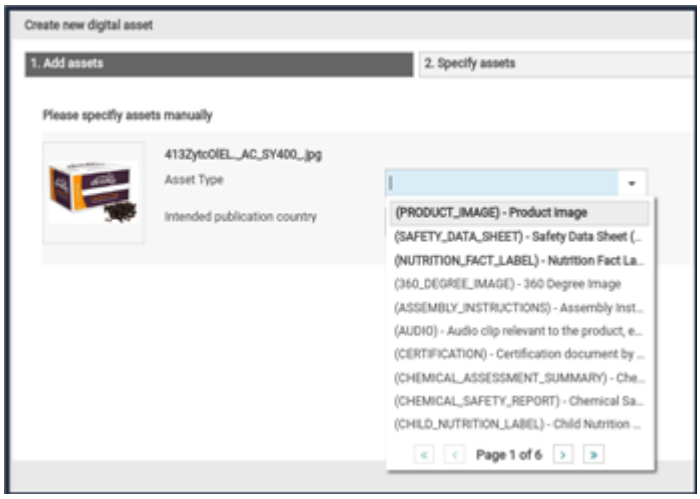


Figure 194: Upload as Referenced File Type Code PRODUCT_IMAGE

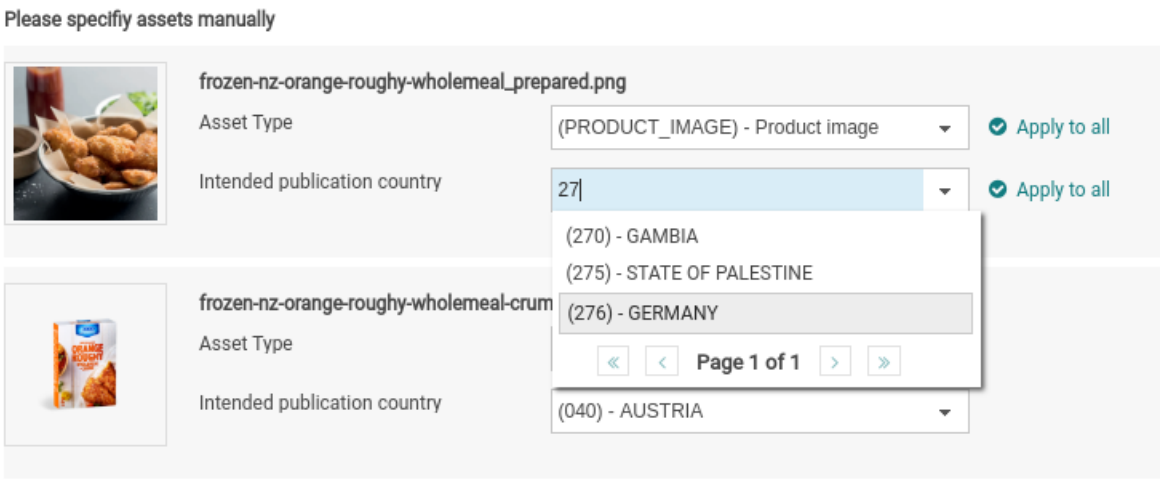


Figure 195: Validation profile for corresponding target market

- if a validation profile is available for the relevant target market.
- from the installation wizard: The product image has already been uploaded and the "intended publication country" has been defined. However, the image has not yet been linked to a commercial article (see Figure 2). If you subsequently link the article to the product images, both the target market of the article and the target market of all linked installations will be used to determine the validation profile.

Validated aspects of images

Images have a lot of aspects that have influence on the quality of the image and how it can be used on the side of the data recipients.
The following aspects get read out from each digital asset and persisted beside the product image url:

Attribute	Test Files / Comment
File Size	The size of the file in Megabytes.
File Format	The format of the file (e.g. JPG, TIFF, etc)
Image Size	Height and width of the image in pixels
Resolution in DPI	Resolution of the image in dpi. This is an important information especially for use in print catalogues
Color Space (RGB, YCBCR, CMYK, ...)	Color space of the image. Usually, RGB is used as this is a commonly used standard. Additional data transformation: case "CMY": return "CMY"; case "CMYK": return "CMYK"; case "GRAY": return "MONOCHROME"; case "HSV": return "HSV"; case "RGB": return "RGB"; case "YCbCr": return "YCBCR"; default: return "";
Color Depth	Color depth in bits, e.g. 8bit, 16bit or 24bit.
Clipping Path available	Indicates if at least one clipping path is available. A clipping path is used to separate objects from the background.
Name of Clipping Path	The name of the clipping path as it has been defined in the picture processing software
Clipping Path closed	The clipping path should always be a solid and closed path around the object which should be exempted.
Number of points in clipping path	The number of single points within the clipping paths. Manually created clipping paths are preferred and usually have less than 10.000 points.

Against which of these attributes a validation will be triggered depends on the target market the product image should be used in. Different communities

have different rules to ensure appropriate image quality for usage in their target markets.

Metadata Extraction of external file links

To decrease the time to send a valid image from the supplier to the recipient, metadata is extracted from the images.
The system checks the extracted metadata against new validation rules (which reflect the GS1 Image Commitment guidelines). Metadata is already validated at the time of Publishing, both for DAM uploaded assets and external file links. The metadata for file: Type code: Product image, safety data sheet, nutritional information and organic, eco-certificate are automatically extracted.

If the metadata conforms to the GS1 Image Commitment, the system displays a green check mark in the left sidebar and displays the message "Validation has been performed. The message "The data is valid." indicates that the image meets the requirements.

If the metadata is not compliant with the GS1 image obligation, the system displays in the validation tab of the right sidebar an error/warning message indicating which aspect of the image is not compliant and what needs to be done to make it compliant.

Validation result for a product image

As told above, image validation will be limited to all digital assets of type PRODUCT_IMAGE, so the first step will be to set the ReferencdeFileTypeCode to this value.
Step two is that there must be a validation profile available for the target market you are validating your digital assets to. For the beginning there will be validation rules for the target market 276 (Germany) and 040 (Austria).
Validations for images can be achieved in two ways: Very early, just after uploading the asset and if it is still not connected to a trade item and in a later stage when the asset has been connected to a trade item.
Which type of validations are triggered depends on where the validation is being called up:

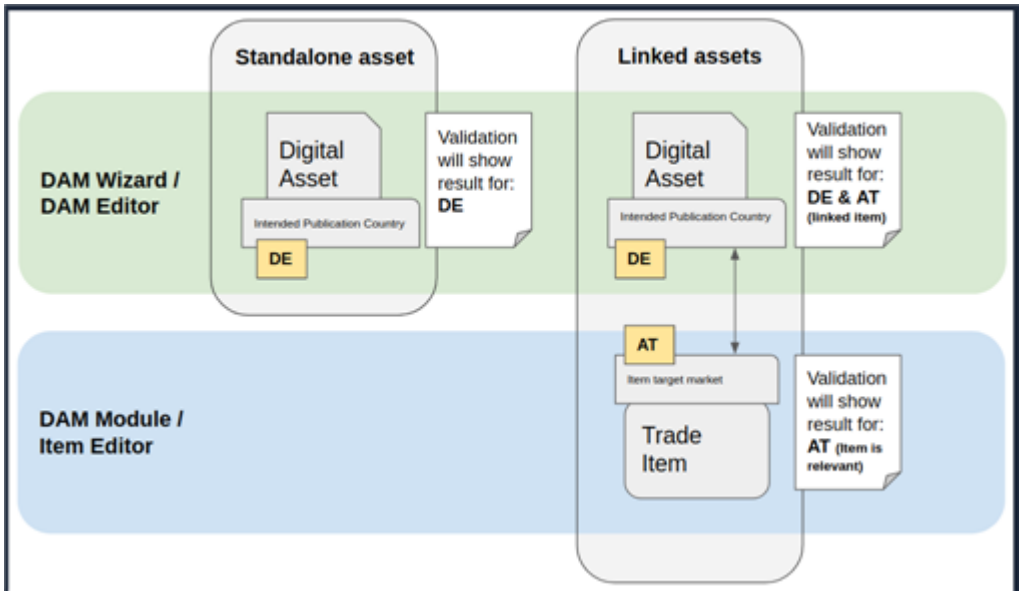
From the digital asset module / digital asset editor

When first uploading a digital asset, you can define the “Intended country of publication”. This information then is used to determine the correct set of validations for the corresponding target market. The information will be persisted with the asset and used later when opening digital assets from the asset hit list.

An item is linked to a digital asset; the target market of the item will also be used to determine the validation profile. Within the digital asset module then both target markets of all linked items as well as the intended country of publication are used.

From the item editor

When validating a trade item with attached digital assets from the DAM module, the only validations that get triggered will be the validations for the target market of the item. So, for a trade item for target market Germany you will receive validation messages for all attached product images and the validations will be those from the German community. The following diagram shows which validations will be displayed in which constellation depending on where the validation functionality is called: Direct feedback within digital asset wizard.
When uploading digital assets with release you will receive direct feedback from the software right within the asset wizard.



Validations will be triggered as soon as both the referenced file type has been set and an intended publication country has been selected. The field may also be pre-defaulted with a senseful target market (will e.g., be the case for Austria and FMCG).
There is a system using three different icons to indicate whether the assets have not been validated, if they have passed all validations or if there is a problem indicated.

Icon	Meaning

	The digital asset has passed all validations and completely fulfills the requirements for the target market that has been selected as intended publication country within the wizard.
	There are one or more problems with the product image regarding the target market that has been selected. The problems that have been discovered by the validation can be seen in detail when clicking the "Show details" toggle right beside the icon. Please note: Digital Assets not fulfilling the quality requirements will still be accepted and kept by the system. You can either cancel the wizard, if you do not want to keep these images or delete them afterwards. Or even keep them to go into discussions with image agencies or stakeholders based on the validation rule that can be triggered again in the editor.
	No validation has been applied to the digital asset. This can be the case due to one of the following reasons: The digital asset has not been declared as PRODUCT_IMAGE. Validation is limited to these types. There are no validation rules available for the target market that has been selected as Intended Publication Country.

Display Validations

Validation messages when triggered from the editors will be shown in the validation panel on the right-hand side of the digital asset editor. When clicking a validation message's review button, the browser highlights the corresponding field within the digital asset which contains the information.

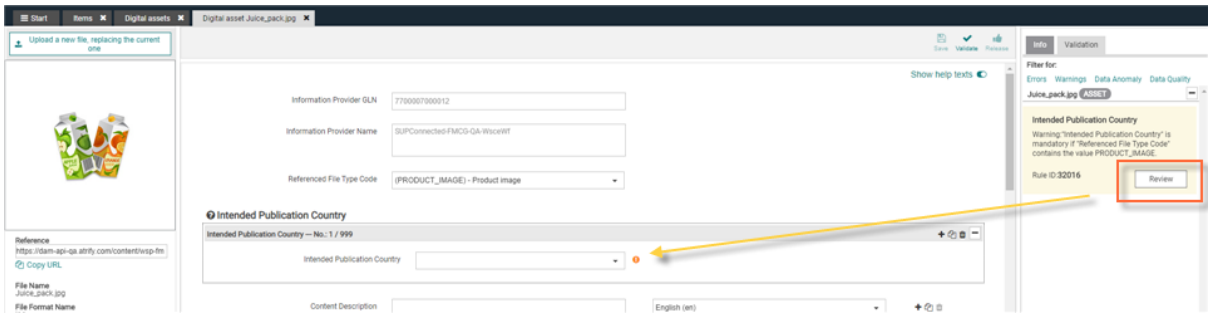


Figure 196: Display of asset validation

Please note that the information in the editor cannot be changed, as it is read-only because the information is automatically extracted from the item as the single source of truth. A manual modification of these values would lead to invalid data. So, for all validation messages directly related to image

information the only way to fix these issues is by replacing the image by using the replace-function in the item editor.
When clicking a validation message, the corresponding digital asset will open in the digital asset editor and again show all validations that occurred. Please be aware that here additional validation messages may appear if there is an Intended Publication Country set on the asset that derives from the trade item's target market (see also above).

Assets replace dialog

The automatic validation of product images avoids subsequent editing of the images. If, for example, a product image has an insufficient resolution, the corresponding validation message will inform you of this and the Asset Replace dialog will point out the next steps. For the validation message to disappear, you must follow the dialog's instructions and replace the corresponding image.

You can use the Replace button to upload another image again.

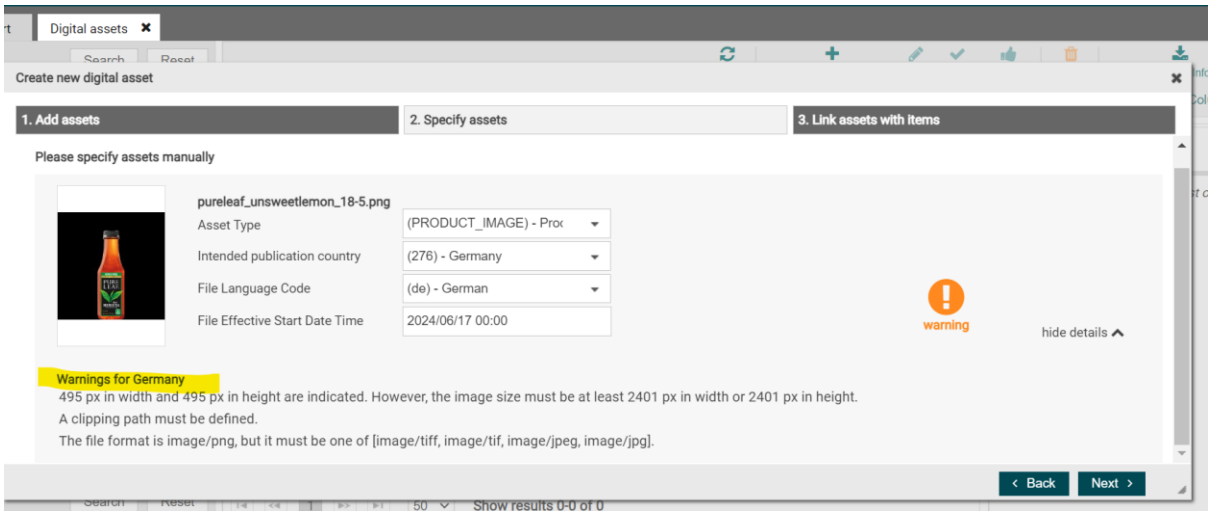


Figure 197: validated image does not meet the specifications



Figure 198: replace button exchanges the image

Requirements for product images

By February 2023, at least one product image (file: Code of type [M379] = (PRODUCT_IMAGE) - product image) for consumer units is mandatory for data exchange in the German target market. Special rules for foodservice products are also possible.
At least one product image is required: The front view with perspective/view (C1C1) or frontal view without perspective (C1N1) or Foodservice (R).
For the retailers, at least one classic product image, the so-called primary image, is of interest, which shows a product as well as possible in the front view. This is the page with the largest area and with the product name indicated, which is used by the supplier to promote the product. In addition, the chosen subject should be typical and representative of products of this kind. The product should be photographed here as accurately as possible and in perfect condition. Optionally, each product can be enhanced with many other images, such as other perspectives or detailed views.

For image files of the type "Product image" the following parameters should be fulfilled:

- Margin requirements: approx. 5% to each side in white.
- The product image is marked with exactly one clipping path. Preferably, the clipping path should be created manually and labelled by name (e.g., Path 1, Path 1). In addition, the clipping path must be closed and enclose the entire product.
- File format: jpg (recommended) with compression factor 12 (maximum quality)
- Colour profile/space: ECI RGB V2 colour space with 8 bits per channel
- Resolution: 300 ppi
- Image size: At least 2,401 pixels longest page at 300 ppi
- Maximum file size allowed is 50 MB

An unrestricted right of use must exist for the images provided. With the upload, the client is granted a license to use the images created, unlimited in terms of time and space, in order to market the product depicted offline and online.

Optionally, additional images (other perspectives, detailed images, etc.) can be added to the items (secondary product images).

- The URL must point directly to a single valid image file. Embedding in an HTML page is not permitted.
- It must be possible to start a download of the image file by calling up the URL. If no direct URL to a single valid image file can be ensured, at least the URL to the respective item with subsequent direct download

option must be ensured. A download must be possible without an additional product search or registration.

- The URL must be available without restriction via the HTTP standard port 80 or the HTTPS standard port 443.
- The URL must not exceed a maximum character length of 2000 characters.
- The URL must not be protected by a login area.
- If a new image file is provided, it is necessary to generate a new unique URL.
- The URL must not be temporally restricted if this URL is communicated in the master data exchange.
- Server response times (< 5 seconds)
- "Cache control" is possible, i.e., it can be controlled by how long the image data should / may remain in the cache - guideline value: max. 30 days.
    - For our caching and determining if and how long we store an asset we use the following HTTP Headers:
        - "Cache-Control"
            - 1"no-cache"
            - 2
            - 3"no-store"
            - 4
            - 5"public"
            - 6
            - 7"private"
            - 8
            - 9"max-age"
        - "Vary"
            - 1empty value
            - 2
            - 3"Accept"
            - 4
            - 5"Accept-Encoding"
            - 6
            - 7"User-Agent"
            - 8
            - 9"Origin"
        - "ETag"
        - "Last-Modified"
        - "Expires"
        - "Date"
- Allow API access via HEAD Request so that we can check if the resource has been changed and only after that call a GET request and request the update.

- Header delimiters should be available with comma ",". (Semicolon is also supported)
- Please accept the ETag header and respond with “304 Not Modified” status if resource is unchanged.


ETag - HTTP | MDN

For detailed information on the technical requirements, please ask for the GS1 "Guideline for product images" in the support: support@1WorldSync.com .
In addition, you can find the 1WorldSync guideline "The golden rules for good product images" in our download center https://www.1WorldSync.com/kundenbereich/download-center/ .

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Glossary of Terms

Attribute
The properties of an item - such as the trade item number, width, and purchase price - are called "attributes". An item data record consists of the values of all attributes defined in the relevant item class, e.g., "171352/4" for the attribute "Trade item number" or "black" for the attribute "Color". An attribute can be defined in a language-dependent manner; in this case, there are different values for the attribute for each created language. If an attribute is created in a customer-dependent manner, a separate value is administered for each customer.

CIC
Communication between data recipients and data suppliers takes place within the GSDN with the help of standardized catalog item confirmation messages. The data recipient uses a CIC to inform the data supplier about the item status he or she has set. The data recipient can send the following CIC status messages: Synchronized (item has been received and transmitted to the internal pool), Received (item has been received and placed in the task list for checking), Rejected (item has been rejected; the data recipient does not want future updates), Review (the data supplier needs to revise the item). See also: "GDSN", "Data supplier", "Data recipient".

GTIN
Global Trade Item Number with 14 digits, the last number is the check digit, which is validated here. An identification number that is assigned and managed by GS1 and is used to uniquely identify products and packages worldwide

Data Pool
Data store where trading partners can check and exchange information on items (products) and participants (manufacturers, suppliers, and retailers) using standardized procedures

GDSN
Global data synchronization network. A standardized network of databases (data pools). GDSN is managed by GS1 and GDSN Inc. Data recipients and customers can use this network to exchange master data around the world in real time. With GDSN, trading partners can centralize, professionalize, and thus optimize data exchange. Updates are only made in one place and are automatically published for all customers who have subscribed to the data in question. Manufacturers and customers who collaborate via GDSN can view and discuss the same data.

CIC
Communication between data recipients and data suppliers takes place within the GSDN with the help of standardized catalog item confirmation messages. The data recipient uses a CIC to inform the data supplier about the item status he or she has set. The data recipient can send the following CIC status messages: Synchronized (item has been received and transmitted to the

internal pool), Received (item has been received and placed in the task list for checking), Rejected (item has been rejected; the data recipient does not want future updates), Review (the data supplier needs to revise the item).

GLN

Global location number. A GLN globally identifies the full name of the company and the address for a trading partner. It is assigned by GS1 in exchange for licensing fees. For German companies, GS1 Germany takes care of this.

CIN

Updated item data is sent from the pool of the data supplier to the pool of the data recipient and then to the actual data recipient with the help of standardized catalog item notifications (CINs) within the GDSN. See also: "GDSN", "Data supplier", "Data recipient".

Data supplier

Data suppliers are normally manufacturers or wholesalers. As data owners, data suppliers are responsible for updating the item data in their area of responsibility. They send their item data to a supplier pool that registers the data with the GS1 global registry in order to subsequently forward it to a data recipient. Following registration, the item data can be released for specific retailers or for entire target markets. See also: "GDSN

Data Quality Gate

Accompanying the DQ standard, the so-called Data Quality Gate (DQG) was set up as a central quality assurance system. The task of the DQG is to ensure the practical implementation and compliance with the DQ standard for data provision in the GDSN. To this end, the DQG receives the product data via the GDSN data pool, checks it automatically in accordance with the DQ standard and sends test reports to the data sender - and, as an important innovation with the new DQG version, in the future also to the data receivers. All data senders are encouraged to ensure that all data fully complies with the requirements of the DQ standard by actively using the DQG reports and immediately correcting possible quality issues.Detailed Information: https://www.gs1-germany.de/gs1-solutions/stammdaten/data-quality-gate/

Subscription

A data recipient can create subscriptions to items in their recipient data pool in order to receive notifications about updates to these items. These subscriptions are sent to the GS1 global registry. The GS1 global registry uses a subscription list to forward the relevant subscriptions to the corresponding supplier data pools.

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Revision History

Release 4.2.x Draft Version		
09.12.2015	Publish Items, Page	Added new function "Is Reload Flag"
09.12.2015	Advanced Search function, page	Added enhancement for "Free text search"
09.12.2015	Hybrid Client, page	Added section Hybrid Client: Load via M2M
10.12.2015	Overall State, page	Made adjustments on Overall state…
10.12.2015	Restrictions and Format Regulations, page	Made adjustments on "Excel versions"
Master Document Draft Version 1.0, Release 5.0 (MjR3)		
18.12.2016	Introduction, p.	Added notice: Some of the functions described here may not be configured in your system. In this regard please contact the support team. … Please note that the application is customized to meet individual customer requirements. This can result in a slightly different appearance of the UI, e.g. colors, logos, tab names. The screenshots in this document may not always reflect the UI 100%. The functionalities remain untouched.
12.01.2016	Create an item using the Template function, p.	Changed wording from *recipient* to *publication target*.
12.01.2016	Restrictions and Format Regulations, Excel Versions, p.	Added sunset date for MS Excel versions 97, 2000, 2003 (Sunset with Major Release May 2016)
14.01.2016	Synchronization List, p.	Added chapter Synchronization List
14.01.2016	Digital Asset Management, p.	Added chapter Digital asset management
21.01.2016	Price Information, p.	Added chapter Maintain Prices in WS| 1WorldSync Publishing
21.02.2016	Download Excel Templates, p.	Added section Excel Download for Templates and items
08.03.2016	Items, p. et seq.	Modified section changed figures.
20.05.2016	GDSN, p.	Added section "GDSN Messages" to chapter.
20.05.2016	Entire document	Replaced Confirmation status ACCEPTED with Confirmation status RECEIVED
20.05.2016	Entire document	Replaced GDSN Exception with GS1 Response Message
20.05.2016	Import and Export Items, Special impacts for Hybrid Client M2M suppliers, p.	Added note: WS| 1WorldSync Publishing supports the possibility to import a CIHW Publication Delete message via Hybrid Client.
Release 5.1.1 valid from 06.10.2016, Document version 5.1		
30.09.2016	Digital Asset Editor, p.	Added section: supported file types, p.
Release 6.0 valid from 15.11.2016, Document version 6.0		
10/2016	Entire Document, Figures	Updated Figures, List of Figures
07.10.2016	System Requirements, p.	Updated System Requirements
07.10.2016	Dashboard, p.	Updated Dashboard
07.10.2016	Menu Structure, p.	Updated Menu Structure

24.10.2016	Showing and Hiding Columns	Deleted Description of Function, Function is not available.
24.10.2016	Save Layout	Deleted Description of Function, Function is not available.
25.10.2016	Creating Digital Assets, p.	Added following notice: The upload does not accept any files with a filename of only one-character length. Uploaded files need to have at least three-character length in their file names.
26.10.2016	Hit List Function Bar, p.	Inserted new Figures, updated description and definition of the icons,
26.10.2016	Overall state, Release state and Publication state, p.	Updated description and definitions of the icons
26.10.2016	Item Detail Navigation, p.	Updated chapter with new Navigation function, figures,
26.10.2016	Structure and function of the editor, p.	New figure, updated Navigation function
26.10.2016	Menu Bar, p.	Updated chapter and figure
26.10.2016	Attribute finder, p.	Updated chapter and figure
27.10.2016	Item Information and Hierarchy Information, p.	Updated chapter and figures
27.10.2016	Navigation through the hierarchical context of an item, p.	Updated chapter an figures
27.10.2016	Add a packaging item, p. ff., Create, Add and remove	Updated chapter and figures
27.10.2016	Add Components, p. ff.	Updated figures
27.10.2016	Exceptions, p.	Added definition
28.10.2016	Download your Data in Excel, p.	Added Notice: A new release and a possible change to the data model can lead to the need for a new Excel download to modify or create data via an Excel upload in the system.
31.10.2016	Excel versions, p. , Rows and columns, p.	Update of the supported Excel formats. Deleted formats prior to 2007.
11.11.2016	General Control Elements and Widgets, p.	Updated figures and adapted text
BETA Release 6.0 valid from 15.11.2016, Document version 6.1		
29.11.2016	Copying a template, p.	Added notice to choose a recipient while creating a template copy.
30.11.2016	Creating a Digital Asset, p.	Added option Creating a digital asset in the Item Editor 'Items'
BETA Release 6.0 valid from 15.11.2016, Document version 6.2		
07.12.2016	Allow Re-Publication, p.	Added: Notice: the flag „Allow re-publication…" is selectable if a Publication Target (retailer, target Market) to which the item has already been published is chosen. Only flagging the Check box will not generate a CIN / CIP message.
13.12.2016 21.12.2016 02.01.2017	GPC Prediction Service, p.	Added functional description, adjusted information and figures
Document version 6.0-3, Release 6.0, published 10.02.2017		
10.02.2017	System Requirements, p.	Correction of supported browsers.
Document Version 6.0-4		

02.03.2017	Import and Export Items, Download your Data in Excel, p.	Update of figure and extended the possibilities with the option pdf Download with Components
02.03.2017	Maintain and Create Item Data, Item Detail Navigation, p.	Added figures to explain the Option "Mandatory Fields" and Red Dot-Icons
07.03.2017	Publish Items, p.	Reworked chapter and updated figures.
Document Version 6.0-5		
09.03.2017	Publish items, p.	Updated figures
16.03.2017	System Requirements, p.	Monitor resolution changed from 1024*768 to a higher screen resolution 1280*1024
Document Version 6.1-0, Release 6.1 published May 2017		
21.03.2017	Navigating through the hierarchical context… p.	Enhanced hierarchy navigator in the left sidebar for an immediate navigation all through the editor. Added optimized user guidance for hierarchy modifications.
21.03.2017	Dashboard, Search function, p.	Added: The text search will be available in the top navigation to allow the users to perform searches from every module they are working on
21.03.2017	Add packaging item, p .	Changed figure and description to add items/components
22.03.2017	GPC Browser – Prediction Service, p.	Changed figures
23.03.2017	Basic Handling - User Interface, p.	Embedded Training Video regarding Improvements of the User Interface
27.03.2017	Working on items with to do status, p.	Added: Existing CIC reviews (recipient feedbacks) will no longer be kept as task in the tasklist when an item is again released.
27.03.2017	Download Hit Lists, p.	Added section to download hit lists as a CSV file.
06.04.2017	Status Line and Feedback Form, p. 16/17	Removed text section Feedback Form
20.04.2017	Unpublish, p.	Embedded Video How to correct published packaging hierarchies
Document Version 6.2-0, Release 6.2		
18.05.2017	Customizing the Hit List, p.	Described new function *Edit Table Columns*
23.05.2017	Hit list function bar, p.	Changed figures of the function bar
24.05.2017	GPC Browser and Prediction Service, p.	Changed description and figures
01.06.2017	GPC Browser, p.	Dynamic UI: Entering the GPC Code reduces the number of displayed attributes. All attributes that are not relevant for this item/GPC are not displayed.
01.06.2017	Customizing the hit list, p.	Updated section
02.06.2017	Revoke the release of an item, p.	Added description of the optimized unrelease option.
22.06.2017	Login – Logout, p.	Inserted Logout Page
22.06.2017 26.06.2017	Creation Wizard, p.	Inserted Creation Wizard on the dashboard description. Inserted 1. Item Basic Information, 2. Identification.
22.06.2017	GPC Browser, p.	Inserted possibility to display all available attributes by using the switch.
23.06.2017	Revoke a released item, p.	Changed definition

26.06.2017	GPC Prediction Service, p.	Identify Item for Classification and Prediction Service, Added figure.
28.06.2017	Find items with the Advanced Search function, p. ff.	Updated the description of the function incl. figures
30.06.2017	Creation Wizard, p.	Updated description and figures and added all places where creation wizard is used: Templates, hierarchical context.
Document version 6.2-1 in Release 6.2 published 15.08.2017		
08.08.2017	GPC Browser, p.	Added: With the Customer Configuration we offer the general technical ability to narrow down the number of attributes provided within the item editor. The availability of this feature depends on the existence of configuration file for the selected target market.
Document Version 6.3-0 for Release 6.3 (BETA Version)		
07.09.2017	Price List Function Bar, p.	Updated Icons
08.09.2017	Edit Price Information, p.	Added section Edit Price Information with Item Details and Relationship Details
18.09.2017	Relationship Details, p.	Added section
20.09.2017	Add New Price, p. ff.	Reworked chapter and updated figures
25.09.2017	Price Search Function, p.	Added Price Search Function
26.09.2017	Price Relationships, p.	Added section Price Relationships, Information status bar
26.09.2017	Examples: Edit price, p.	Added examples Edit price, add a child price, change child price, delete child price
28.09.2017	Price Templates, p.	Certain formula needs to be revised as some are extended and others deleted. The specification is still incomplete and must be revised again.
Document Version 6.3-1 of Release 6.3		
02.10.2017	Purge Price, p.	Added Prices, which have already been released and are updated into status *WORKING* are purged from the list. The already released version is retained.
02.10.2017	Edit/Change price, p.	Additions to the Edit Option
10.10.2017	Price Search Function, p.	Added the Advanced Search Function
11.10.2017	Price Hit List Function Bar, p.	Additions to the Option "Change"
11.10.2017	Price Template List, p.	Modifications on the section Price Template List.
12.10.2017	Create a new price template from Price Template List, p.	Updated descriptions and figures.
12.10.2017	Edit a Price Template, p.	Updated descriptions and figures.
12.10.2017	Delete a Price Template, p.	Updated descriptions and figures.
Document version 6.3-2 of Release 6.3 published 20.10.2017		
17.10.2017	Create a template using Price Type, p.	Updated function and description
18.10.2017	Search / Filter Price Templates, p.	Updated Filter/Search function for price templates.
Document version 6.3.3 of Release 6.3 published 09.11.2017		
06.11.2017	Find items with the text search function, p.	Deleted text search function [-] and ["…"]. Function is not supported. (SAU-311)

Document version 6.4-0 of Release 6.4 published 28.11.2017		
10.11.2017	Maintain Prices, p.	Extended description: The price indicator "$" is always displayed if there is any price for this item, regardless of the status of the price (working, released).
10.11.2017	Add price using the upload function, p.	Extended description: The Price Summary widget shows prices for an item with status only: - parent (top-level) prices, e.g. no ALLOWANCE / CHARGE status - released, no working status - active prices, not historical (end date in the past) status - if actionCode is not DELETE status
14.11.2017	Nutritional Information, p.	Added section for Nutrient information tables
15.11.2017	User Settings, Dynamic UI enabled (yes(no), p.	Added section
24.11.2017	Download your data in Excel, p.	Added part: The Excel Download functionality recognizes the item types contained in the download….
24.11.2017	GPC Browser and Prediction Service, p.	GPC-Prediction Service: deleted note: The service is initially available for certain target markets. - Service is now available for all Target Markets.
Document Version 6.5-0 in Release 6.5 valid from Feb. 2018		
04.01.2018	Price Search Function/ Define search criteria for an advanced search, p.	WSP-2438/WSP-2439: Added following supplement for the operator *less or equal*: in Advanced Search for the following fields: - priceTypeId - priceRelationshipId - referenceDocumentID - refDocDescription
11.01.2018	Digital Assets in WS| 1WorldSync Publishing Digital Asset Editor, p.	Reworked section, updated figures
	WS| 1WorldSync Publishing Item Editor – Detail view Digital Assets, p.	Reworked section, updated figures
	Creating Digital Assets, p.	Reworked section, updated figures
	Attaching Digital Assets, p.	Reworked section, updated figures
	Detaching Digital Assets, p.	Reworked section, updated figures
	Searching for Digital Assets, p.	Reworked section, updated figures
	Maintaining Digital Assets, p.	Reworked section, updated figures
	Distributing Digital Assets, p.	Reworked section, updated figures
12.01.2018	Dashboard, p. and Item Detail navigation, p.	Added Data Quality Score information
16.01.2018	Import and Export items, p.	Updated images regarding Excel versions, deleted Excel version numbers
23.01.2018	Task List, p.	Updated figures; mass clean up
Document Version 6.6-0 in Release 6.6 valid from May 2018		
02.02.2018	Item Creation Wizard, p.	Update Links on Trainings videos on Youtube

05.02.2018	Release Items, p.	Update Links on Trainings videos on Youtube
05.02.2018	Create items by cloning an existing item, p.	Update Links on Trainings videos on Youtube
08.02.2018	Item Detail Navigation, p.	Updated figure
20.02.2018	Is Reload Flag, p.	Added explanation
27.02.2018	Choose Classification, p.	Added section/option
02.03.2018	Select Publication Targets, p.	Added note to publish data to DQG (WSP-2684)
07.03.2018	Item Creation Wizard Select proper Classification, p.	Added notice for manual selection of classifications.
09.03.2018	Visualization of DQ-Score on item level, p.	Added section
Document version 6.6-1		
11.04.2018	Dashboard – item summary, p.	Reformulation of Data Quality Score on the Dashboard.
Document Version 6.6-2		
12.04.2018	Dashboard – Data Quality Score, p.	Reworking section in terms of Data Quality Gate
12.04.2018	Visualization of DQG score in WS| 1WorldSync Publishing, p.	Reworking section in terms of Data Quality Gate
16.04.2018	Validation Report, p.	Changed definition for Warnings: items can be saved and released.
Document Version 6.7-0		
20.04.2018	Task List, p.	Added notice and figure of existing tasks on the Menu Bar
23.04.2018	Dashboard, p.	Updated figures
26.04.2018	Validation Report, p.	Adjusted hint to clear validation icons and new filter options
Document Version 6.7-1		
15.05.2018	Release items from the hit list, p. – Release option	Correction of formulation to release an item from the hit list.
Document Version 6.8-0 valid from 13.06.2018		
04.06.2018	Creation Wizard for Digital Assets, p.	Added Section and figures
06.06.2018	Login – Logout, p.	Updated figure added notice to recent information
06.06.2018	Add a Digital Asset, p.	Adjusted section for adding Digital assets to an item in the item editor.
07.06.2018	Detaching digital assets, p.	Added notice to delete a digital asset
Version 6.8-1 valid from 27.06.2018		
18.06.2018	Dynamic User Interface for Target Market Germany, p.	Added section and figures.
18.06.2018	Remove packaging item, p.	Reworked section
22.06.2018	Dynamic User Interface (Dynamic UI), p.	Reworked and updated section
26.06.2018	Deleting Digital Assets, p.	Added possibility to delete Digital assets
Version 6.9 valid from 30.07.2018		
19.07.2018	Configurable CSV Report, p.	Added section
19.07.2018	Excel Download Support of Digital Assets, p.	Added section
20.07.2018	Subtitle: About 1WorldSync	Updated Text
Version 6.10 valid from 12.09.2018		

29.08.2018	Link Digital Assets to items, p.	Added passage to section (new function)
04.09.2018	Download your data in Excel, p. et seq.	Reworked section
Version 6.10-1 valid from 26.09.2018		
21.09.2018	Dynamic User Interface (Dynamic UI), p. et seq.	Reworked section: added figures, notices for Dynamic UI configuration
Version 6.11 valid from 22.10.2018		
11.10.2018	Find items with the smart search function, p.	Updated figure and added text for the possibility to combine search criteria with AND.
Version 6.11-1 valid from 03.11.2018		
30.10.2018	Configurable CSV-Reports, p.	Reworked text an added figure
31.10.2018	Edit Hierarchies, p.	Navigating through the hierarchical context of the item replaced by Edit Hierarchies
31.10.2018	Copy and Add Items to Hierarchy, p.	New function: section added
Version 6.12 valid from 28.11.2018		
26.11.2018	Creation Wizard for Digital Assets, p.	Updated section
Starting in 2019, releases are named with the year and month in which they are implemented. The next release in February 2019 will therefore be 19.2, the May release 19.5, and so on. This results in a "jump in numbers" from 6.12 in December 2018 to 19.2 in February 2019.		
Version 19.2-0 valid from 04.02.2019		
11.01.2019	Edit Hierarchies, p. et seq.	Reworked section and updated figures.
15.01.2019 01.02.2019	Importing items from an Excel file, p. Restrictions and format regulations/Customizations, p.	Supplement to the functionality of the Excel upload and possible adaptations. Updated figures.
Version 19.2-1 valid from 18.02.2019		
07.02.2019	Configurable CSV-Reports, p.	Added part to configure the CSV-Report individually, added figure
13.02.2019	Dashboard, p.	Updated figures
13.02.2019	Open csv report in Excel, p.	Added section
Version 19.4-0 valid from 18.03.2019		
14.02.2019	Exceptions widget, p.	Updated section and figure
22.02.2019	Area for Preview, Validation Report …, p.	Added new panel “Info” incl. video tutorials
22.02.2019	Information Panel, CIC…, S.	added section "Info" containing links to video tutorials
13.03.2019	Structure and function of the editor, show help texts, p.	Added section and figures.
Version 19.04-2 valid from 01.04.2019		
20.03.2019	Dashboard, Item creation wizard, p.	Added “NEW”-Option for creating items, Digital Assets, or bulk Excel upload
25.03.2019	Input help in the editor, Attribute definition, p.	Added section for Attribute definitions
28.03.2019		Adaptation of the product name WS| 1WorldSync Publishing to 1WorldSync Publishing
Version 19.05-0 valid from 11.05.2019		
02.05.2019	Structure of the Hit list, p.	Added hint to the thumbnails of linked Digital assets and updated figures.
Version 19.06-0 valid from 11.06.2019		

07.06.2019	Info Panel, … p.	Added "Assets Tab" for defining Assets as primary Asset/Thumbnail on the hit list.
Version 19.08 valid from 29.07.2019		
08.07.2019	Configurable CSV-Reports, p.	Corrected characteristics of configurable CSV-Reports: attributes are downloaded in the TM-relevant language regardless of set user language.
10.07.2019	1WorldSync to 1WorldSync GmbH by Syndigo	Updated document change of company
Version 19.09 valid from 09.09.2019		
02.09.2019	Whole document	Div. images updated regarding 1WorldSync layout
04.09.2019	Introduction, p.	Added editorial note
Version 19.11 valid from 02.11.2019		
01.10.2019	Introduction, p.	Replaced editorial note
10.10.2019	Item Detail Navigation, p. ff.	Updated figures
11.10.2019	Import and export items, p.	Added section Digital Asset Management for M2M Users
Version 19.12 valid from 02.12.2019		
05.11.2019	System requirements, p.	Updated from Windows IE 10 to Windows IE 11
26.11.2016	Area for Preview, … p.	Reworked section esp. Validation panel
Version 20.02 valid from 03.02.2020		
28.01.2020	Artikelpass online, p.	Added section
28.01.2020	Hit list function bar, p.	Updated table
28.01.2020	Item Detail Navigation, Menu Bar, p.	Updated section
28.01.2020	Menu Bar, Artikelpässe as Newline-Form, p.	Added section, updated chapter
03.02.2020	Item Detail Navigation, Menu Bar, p.	Updated section
Version 20.03 valid from 16.03.2020		
	figures	Updated UI figures
Version 20.05 valid from 27.04.2020		
14.04.2020	Download hit lists, p.	Adjusted section
14.04.2020	Customizing the hit list, p.	Adjusted section
04.05.2020	Customizing the hit list, p.	
Document version 20.06 valid from 08.06.2020		
26.05.2020	Recipient feedback (CIC summary), p.	Updated section
Document version 20.08 valid from 27.07.2020		
17.06.2020	Area for validation report, recipient feedback…, p.	Updated section
17.06.2020	Close a to do from task list, p.	Updated section
13.07.2020	Release items from the hit list, p.	Updated section
Document version 20.09 valid from 07.09.2020		

25.08.2020		Version 20.09
09.09.2020	Nutritional Information, p.	Section updated; figures updated (tabular form)
Document version 20.11 valid from 26.10.2020		
30.09.2020	Digital Asset Management, p. ff.	Reworking chapter
30.09.2020	Validating Digital Assets, p.	Added chapter new in 20.11
05.10.2020	INTRASTAT Prediction Service, p.	Added chapter new in 20.11
Document version 20.11-2 valid from 07.11.2020		
28.10.2020	System requirements, p.	Updated Browser Support.
Document version 20.12-1		
06.11.2020	Digital asset editor, p.	Reworked and updated section: replace current image with a new validated image
06.11.2020	Creation wizard for Digital Assets, Upload item p.	Upload limit changed from 10 to 25
11.11.2020	Help Menu, p.	Added FAQ and Tips and Tricks
08.12.2020	Assets Replace Dialog, p.	Added section
Version 21.02-1 Release 21.02 as of 01.02.2021		
01.12.2020	PRICESYNC	Export of Pricesync Module, separated from Publishing Manual
07.01.2021	Rules for upload file, p.	Corrected passages
Document version 21.02-2 valid from 16.02.2021 production		
Document version 21.03-1 valid from 15.03.2021		
15.03.2021	No changes to version 21.02-2	
Document Version 21.03-2 valid from 12.04.2021		
06.04.2021	Restrictions and Format Regulations, Format, p.	Added explanation on how to adjust the cell format for numeric values.
06.04.2021	Download your Data in Excel, p.	Added note: To ensure the transfer of the accuracy of the numerical values in tenths or hundredths, e.g., for nutritional information, adjust the values in Publishing accordingly.
Document Version 21.05-1 valid from 03.05.2021		
26.04.2021	Synchronization List	Deleted section
27.04.2021	Unpublish Items from the Item Editor, p.	Updated section, added figure
27.04.2021	Create items by cloning an existing item, p.	Added Note: Cloning of items between DACH & other European countries is not possible.
Document Version 21.05-2 valid from 14.05.2021		
06.05.2021	Nutritional Information, p.	Added note to the trailing zeros.
Document Version 21.06-1 valid from 14.06.2021		
26.05.2021	Area for Item Preview…, p.	Added Tip
26.05.2021	Infopanel, Recipient Feedback…, p.	Added Tip
26.05.2021	Task List, p.	Added Tip

26.05.2021	Item Detail Navigation, p.	Added Tip
28.05.2021		Updated figures
Document version 21.06-2 valid from 28.06.2021		
21.06.2021	p. Visualization of DQG score in 1WorldSync Publishing	Updated links to DQG
Document Version 21.08-1 valid from 02.08.2021		
28.06.2021	Customizing the hit list, Overall state, Release state and publication state, p.50 and CIC state column, p. 55/56	Updated columns, tooltips are added
05.07.2021	Structure of the Hit List, p. 46	added reference to tooltips
27.07.2021	Task List, p. 142	reworked section
28.07.2021	Edit items, p.107	Added refresh option
28.07.2021	Item Information and hierarchy information, p. 65	Updated section
Document Version 21.09-1 valid from 20.09.2021		
18.08.2021	Task List, p. 147	Added explanation to work with the task list.
06.09.2021	Task List, p. 147	Changed figure
07.09.2021	Requirements for product images, p. 184	Added section
Document Version 21.09-2 valid from 04.10.2021		
14.09.2021		Updated some figures because of changes in the UI (Item List Title, Task List Title)
24.09.2021		Format changes to the overall document
Document Version 21.11-0 valid from 08.11.2021		
		Test running
	Requirements for product images, p. 184	Updated requirements for product images for Target Market AT
Document Version 22.02 valid from 14.02.2022		
18.02.2022	Recipient feedback (CIC summary), p. 57	Text added, when list is emptied
18.02.2022	Recipient feedback (CIC's) p. 82	Text added, when list is emptied
Document Version 22.04-1 valid from 28.03.2022		
01.03.2022		New Version Release 22.04
07.03.2022	Verified Recipients, p. 119	Added section
07.03.2022	Validation Task List, p. 150	Added section
Document Version 22.04-2 valid from 11.04.2022 Prod-Version		
06.04.2022	Verified recipients, p. 119	Modified text
Document Version 22.05-1 valid from 09.05.2022 Test-Version		
06.05.2022	Verified recipients, p. 119	Modified text, in FMCG valid for all Target Markets
Document version 22.07-1 valid from 20.06.2022		
17.05.2022	Requirements for product images, p. 184	Modified text, specified requirements

01.06.2022	Supported file types, p. 164	Corrected List of supported file types for DAM mpeg-4 Audio = file extension .m4a, , removed extension .mov – is no longer supported
Document version 22.08 valid from 14.07.2022		
30.06.2022	Digital Asset Editor / Supported File Types, p. 164	Added Photoshop Image (extension .psd) to the "supported file types"-list
04.07.2022	Imprint	Lars Schickner was replaced by Moritz Hoffmann as the person in charge.
Document Version 22.08-2 valid from 12.08.2022		
		Prod-Version
02.08.2022	Imprint	Ulrich Blanke removed as responsible managing director
Document version 22.09-1 valid from 12.09.2022		
12.09.2022		Test-version
Document Version 22.09-2 valid from 27.09.2022		
19.09.2022		Prod-Version
19.09.2022	Validated aspects of images, p. 178	Corrected notation into capital letters: Color Space (RGB, **YCBCR**, CMYK, ...); Added Additional data transformation…
Document Version 22.11-1 valid from 31.10.2022		
31.10.2022		Test running
19.10.2022	Requirements for Product images, p. 184	Updating and adding to the requirements for the product images.
Document version 22.11-2 PROD-running		
02.11.2022	Customizing the hit list, p. 50	Updated image
04.11.2022	1WorldSync Publishing item editor, p. 165	Added possibility to modify the file name of the asset.
04.11.2022	Info panel, Assets-Tab, p. 86	Added possibility to modify the file name of the asset.
09.11.2022	Add a Digital Asset, Image Obligation, p. 109 and Digital Asset Management, p. 159	Added note on image obligation from Feb 2023.
Document version 23.02 valid from 06.02.2023		
15.12.2022		Updated figures
19.12.2022	Login – Logout, p. 18	Updated rules for password policy
17.01.2023	Restrictions and format regulations, Rules for upload file, p. 138	Modifying the wording
17.01.2023	Download Excel file, p. 132	Modifying the wording
31.01.2023	Menu structure, p. 26	Adding the timestamp of the last login of your user account
31.01.2023	Attaching Digital Assets to an item, p. 167	Added reference to addition of target market for linked assets.

31.01.2023	Creating Digital Assets, Creation Wizard for Digital Assets, p. 171	Section added to attribute "File: Effective Start Date Time"
Document version 23.03 valid from 10.3.2023		
27.02.2023	Publish hierarchies, p. 115	Added section Use Case: Deleting an Item
27.02.2023	Item Detail Navigation, p. 58 Newline Form Editor	Section has been removed as this service is no longer offered.
08.03.2023	Importing (Upload) items from an Excel file, p.132	Added note to composite attributes
16.03.2023	Digital Asset Management, Image Obligation, p. 159	Adding a SEO product description to the file name added
Document Version 23.05. valid from 20.04.2023		
12.04.2023	Dashboard, p. 21	Added feedback option
Document Version 23.08 valid from 24.07.2023		
13.06.2023	Dashboard, DQX relevant attributes, p. 21	WSP-6743: Added section
13.06.2023	Metadata extraction of external file links, p. 180	WSP-6722: Added section
14.06.2023	Customized Excel Export, p. 130	Section completed
30.06.2023	Prevent closing the editor on unsaved changes p., 29	Added section
Document Version 23.08-1 valid from 18.08.2023		
25.07.2023	Digital Asset Management, p. 158	Added notice: Due to different color spaces for a digital asset, the thumbnail in the application appears in black and white. The extraction of the metadata is not affected. (SEU-1983)
Document Version 23.11 valid from 23.10.2023 TEST		
31.08.2023	Metadata extraction of external file links, p. 180	Text modification
04.09.2023	Online Help Structure, p. 15	Adjustment of the description
13.10.2023	Submit to web (ArtikeplassOnline)	This service has been discontinued
Document version 24.02		
12.02.2024		No adjustments
Document version 24.05		
22.04.2024	Create Items, AI-based item creation, p. 103	Added section: AI-based item creation
Document version 24.05-3		
01.07.2024		Rebranding 1WorldSync
Document version 24.08-01 valid from 05.08.024		
05.08.2024		Test run
Document version 24.08-02		
17.08.2024		PROD run
Document version 24.11-01		
01.10.2024		Update Imprint

04.11.2024		Test running
Document version 24.11-02		
16.11.2024		Prod run
Document version 25.02-01		
04.02.2025	INTRASTAT Prediction Service, p. 95	Reworked section
Document version 25.05-01		
12.05.2025		Test running
Document version 25.05-02 Prod running		
19.05.2025	Dashboard Data Quality Score, p. 20	Section removed
19.05.2025	Dashboard DQX relevant attributes, p. 21	Section modified
Document version 25.08-01		
11.08.2025		Test running
10.07.2025	Online Help Structure, p. 15	Updated section
Document version 25.08-02		
19.08.2025	Online Help Structure, p. 15	Addition to the menu item "Special characters" so that these can be easily transferred to editing fields.
25.08.2025		Prod running
Document Version 25.11-01		
03.09.2025		Rebranding 1Worldsync by Syndigo
Document version 26.02-01 valid from 09.02.2026		
		Update on management
Document version 26.05-1 valid from 22.04.2026		
20.04.2026	Date selection via calendar function, p. 89	Added Date Picker function
Document version 26.08-1 valid from 10.08.2026		
22.07.2026	Item List, GTIN Compare Function, p. 50	The Compare Feature allows two GTINs to be compared directly with each other.
22.07.2026	Edit Items, Comparing Item Revisions, p. 109	The Compare Item Revisions "Draft versus Released" feature allows you to quickly see which data has changed between two product revisions.
Document Version 26.11 valid from 13.11.2026		