

Manual

Approval (includes Digital Asset Management)

Release 26.11, Version 01

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Introduction (Release 26.11)

Approval is a web-based application where retailers can review, search, and subscribe to item data delivered to them via any GDSN certified data pool. The application can also act as a data recipient for retailers. For data to be visible in the catalog at least one subscription must be set up for the retailer. As a rule, this is not done by 1WorldSync but must be initiated by the retailer.
Approval is not a graphic interface attached to a specific data pool. Data published to the WorldSync data pool is not automatically displayed in Approval, it must be published to a defined publication target (e.g., the catalog GLN, retailer GLN, target market) to be visible in the application.
The application consists of a web catalog and a subscription list. The application can be adapted to reflect customer requirements, which can result in the appearance of the UI in your application slightly differing from the screenshots in this document. The application offers the following functions:
Search & Browse of Items
Download items in Excel or PDF format
View item history
Subscription list to create subscriptions online
Approval displays all items received by the application via publication to a community or specific GLN. The Approval is an independent instance that acts like a data recipient and can receive data from any GDSN certified Data Pool. The data is displayed in read only mode.
If Approval has a quality level defined that requires additional validation rules to the rules defined by the GDSN all data sent to the catalog must meet this standard. Only data validated successfully will be stored. Therefore, validation reports via Catalog Item Confirmation (CIC) message may also be returned from the catalog GLN.
It is strongly recommended for users to familiarize themselves with the GDSN rules and processes prior to starting data synchronization via Approval. This document focuses on working with Approval and only deals briefly with the GDSN basics. This documentation is aimed at users who work with Approval UI.
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.

Online Help Menu

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

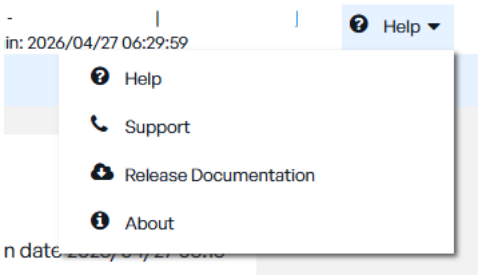


Figure 1: Approval Online Help Button

The Help menu contains documentation describing the structure and function of the application.
In addition, you can access useful "Release Documentation", such as code lists, etc., in the Help menu.

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	Recommendation: 1280*1024

Logging In and Out

You access Approval via your Web browser. When you start the application, a login window appears with the following fields:

Login

- Username: Enter your username into this field.
- GLN: Enter your Global Location Number (GLN) here.
- Password: Enter the password here.

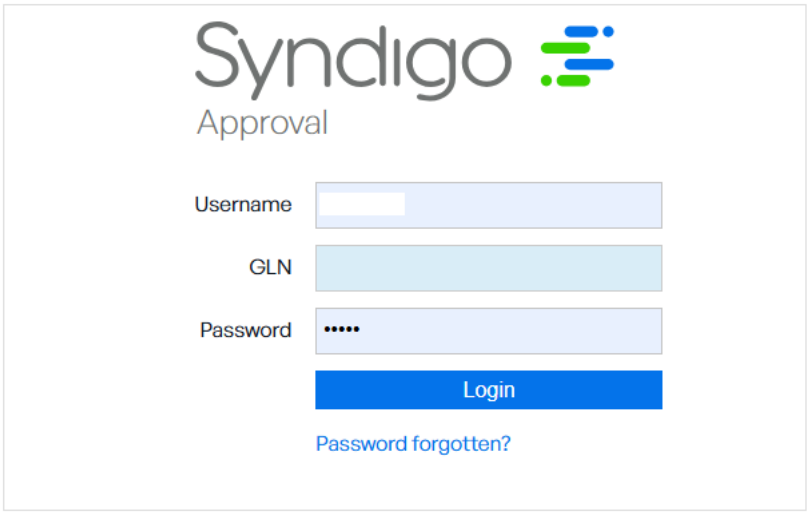


Figure 2: Approval Login Window

Click on *Login* to start the login process. Once you have been successfully logged in, the Approval Welcome Page opens.

Logout

Click on *Logout* in the menu bar to log out of Approval and quit the system.

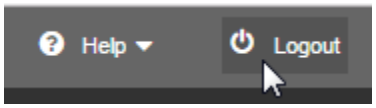


Figure 3: Quit the system

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 4: Function Reset Password

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.

Basic Handling User Interface

In this chapter, basic functions that are valid across all modules are explained.

Dashboard

After successful login, the public catalog will open with a module area. The module area is the background and the point of entry to the system (Start-Tab). It is visible from any point of the system.

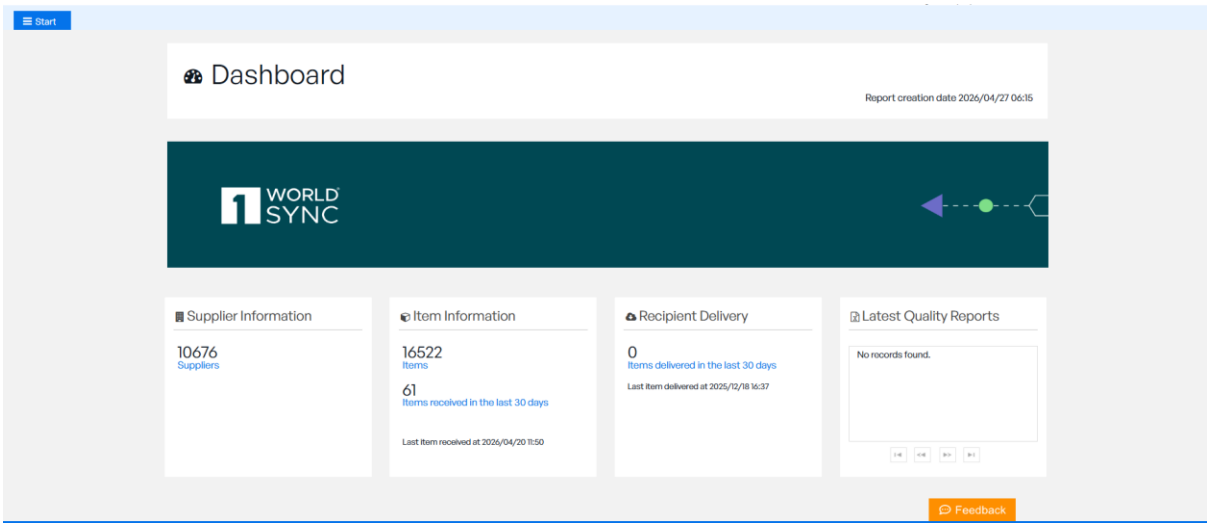


Figure 5: Start-Tab with Dashboard summary

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. It is possible to type in a GTIN or a text. The search is executed and gives the appropriate result.

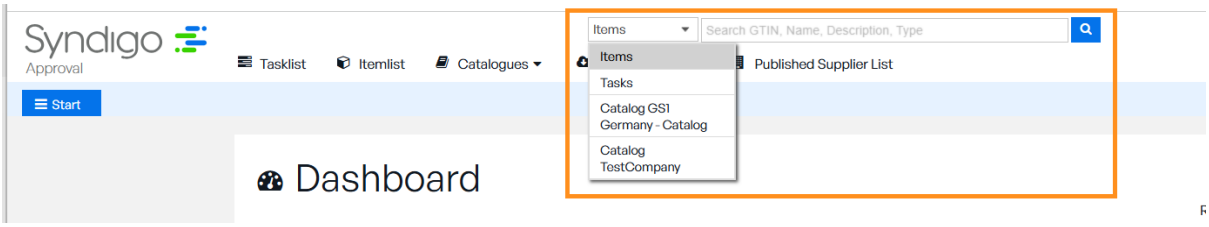


Figure 6: Dashboard, Search function

The header displays logo, menu, and the user login information with username, GLN and name of the company.

From the menu bar you have access to all standard functions and the functional modules assigned to you in the administration module.

Set UI Language and Time zone

If your system supports more than one language, you can change the UI language. Select the language you wish to switch to from the drop-down menu at the top right-hand corner. To change the time zone setting, select the control from the drop-down menu.

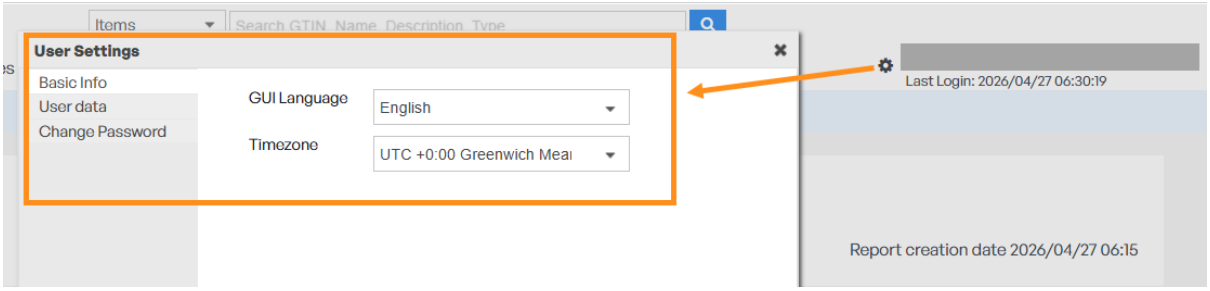


Figure 7: Drop Down for changing language and Time Zone

Please note that all open modules will be closed when the language or time zone is switched. A new login is required.
Once the time zone is changed, all date and time information in the user interface will automatically be adjusted.

Menu Bar

The Menu bar contains menus for accessing various modules. The right-hand area contains the additional functions. This includes the *Language selection* with which you can select the language in which the user interface should be displayed, and the *Logout function,* by means of which you can log out of the system. The *Info menu* provides access to the Online Help and to information regarding the product version.

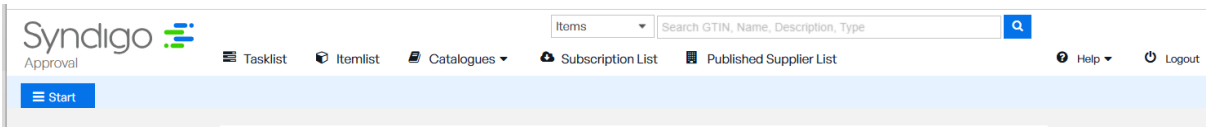


Figure 8: Menu Bar with several modules

- Task list
- Item list
- Catalogues
- Subscription List
- Published Supplier List

The Module area displays the available modules on separate tabs. You can remain open multiple tabs at the same time and switch between the tabs. Please note that it is not possible to work simultaneously in two instances of the same module. Even though you can open the same module several times, multi-tasking is not supported.

Structure of the User Interface

The structure is identical for all modules with only the available functions differing from module to module. When selecting a module, an empty hit list is displayed. To achieve a result in an Item List, a search must be started. See chapter Search and Find Items, page for more information.

Search and Find Items

Depending on the Data Type, Search and Find Items can be different.
When you open any Item list of the application for the first time, it is empty. To achieve a result in an Item List, a search must be started.
The basis for reviewing item data is the item list by means of which the desired data can be accessed.
You have different options of further restricting the number of items displayed in the item list:

Item search (item details): to find items with specific characteristics, such as GTIN, GLN, target market country code or GPC, as well as items with attachments or items with defective attachments.

Status Filter: You can restrict the number of items displayed in the item list by applying a concrete filter. You can thus filter those items out of the item list whose values do not comply with certain criteria. You can find more detailed information about search profiles function in the paragraph 'Find Items with Search Profiles' in this chapter.

Text Search You can use the Text Search function, too. Proceed as described in the section 'Find Items with the Text Search Function', page 13.

Advanced Search: You can also carry out a structured search in attributes (*Advanced Search function*). Proceed as described in the section 'Find Items with the Advanced Search function', page 15.

Search Profiles: You can define search settings as Search Profiles to use them for future searches, see more 'Find Items with Search Profiles', page 19.

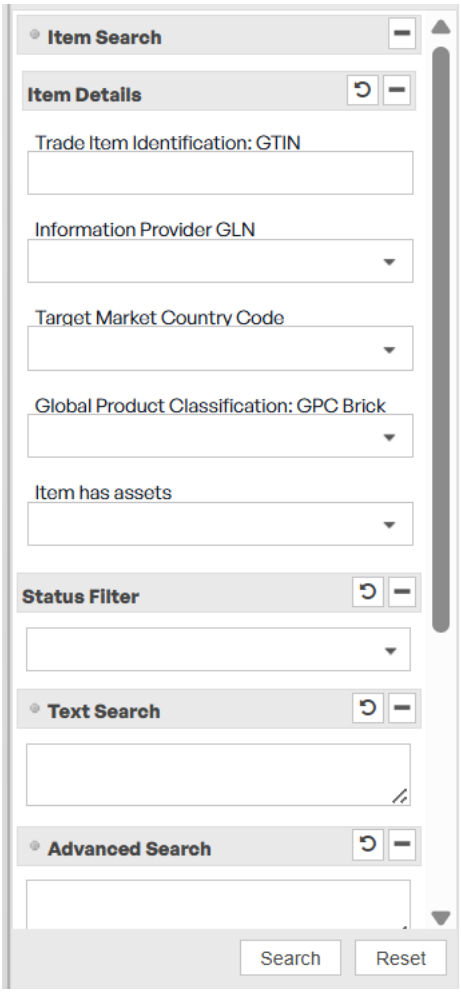


Figure 9: Search Panel

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.
You can also clear all restrictions at the same time using the *Reset* option.
The search is carried out with defined selection conditions. This means that the results only show items that meet the defined selection conditions and search criteria as well as the visibility conditions defined for the application and user.
A colored 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 restrictions even if the widget in question is closed. If no selection conditions have been defined in a widget, the icon is grayed out.
You can reset the search restrictions made on each widget using the *Reset* option.
Within a widget, you can use the *TAB* key to move from input field to input field or from option to option. You navigate between widgets using *CTRL* and the arrow keys (up/down) at the same time.

Find Items with the Item Search

You have the option to choose several Item Details which should apply to your Item list.

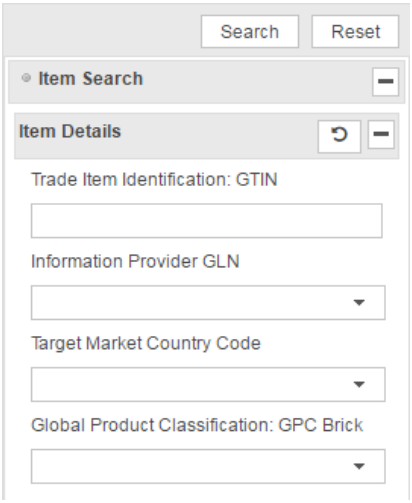


Figure 10: Item Search

Find Items with the Status Filter

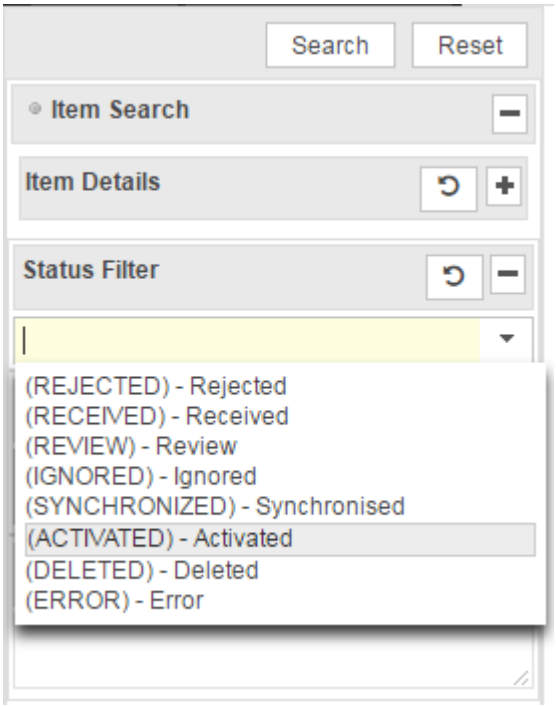


Figure 11: Status Filter

You can thus filter those items out of the item list whose values do not comply with certain criteria.

Find Items with the Text Search Function

Within the hit list, you can search for items with a free text search. To do so, use the search function in the Text Search widget.

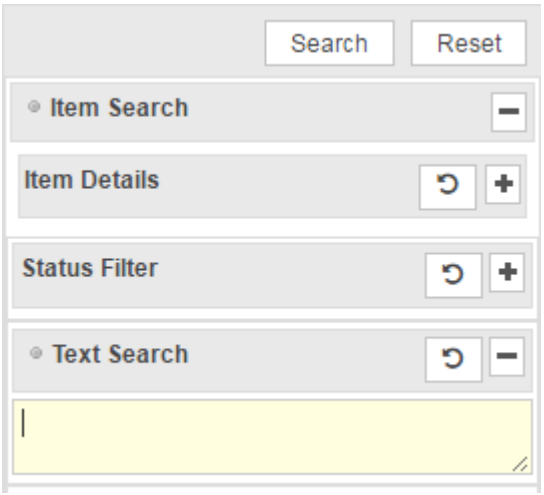


Figure 12: Text Search

In the Text Search input field, enter one or more search terms. Your search terms must consist of alphanumeric characters. Special characters such as [/], [?], [(], [)], and [-] are treated as normal characters.
You can restrict the number of items displayed in the hit list 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 one 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 [wall 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. Note that you cannot use an asterisk at the start of a search term. If you do so, the search function ignores it. You can only use a placeholder in the middle or at the end of a search term. [b*k] and [book*] are allowed but [*ook] does not return any results.
[+]	The search connector [+] connects search terms using an AND relationship, thus specifying that all entered terms must occur in attribute value for the item in question to be included in the search results. Note that there is

	no space between the [+] sign and the search term. 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.
[-]	You can use the search connector [-] to exclude search terms. The system finds items that do not contain the term preceded by [-]. Note that there is no space between the [-] sign and the search term. A search for [wall shelf -pine] finds items with the attribute value "wall shelf", "larch wall shelf", and "red wall shelf" but not "pine wall shelf", for example. Search terms restricted using [-] must always relate to a preceding search term. Again, you can combine wildcards and search connectors.
["..."]	If you place quotation marks around the search term you enter, the search only finds items that contain an attribute value with this exact phrase. For example, a search for ["heavy duty work gloves"] finds all items whose attributes contain the exact character string "heavy duty work gloves".

If necessary, define further restrictions for the 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.
To reset the search or the search restrictions, clear the entry field and then click *Search* again.

Find Items with the Advanced Search Function

In addition to the *Text Search* function, Approval 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 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.
You can carry out an ad-hoc structured search, i.e. you can start the search immediately once you have defined your search criteria and do not need to save the query.

Define Search Criteria for 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.

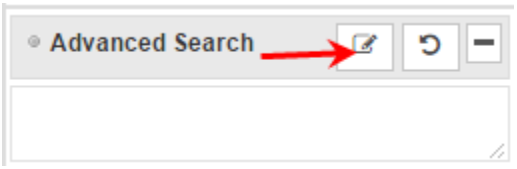


Figure 13: Edit Option in Advanced Search widget

- The dialog for defining search criteria opens.

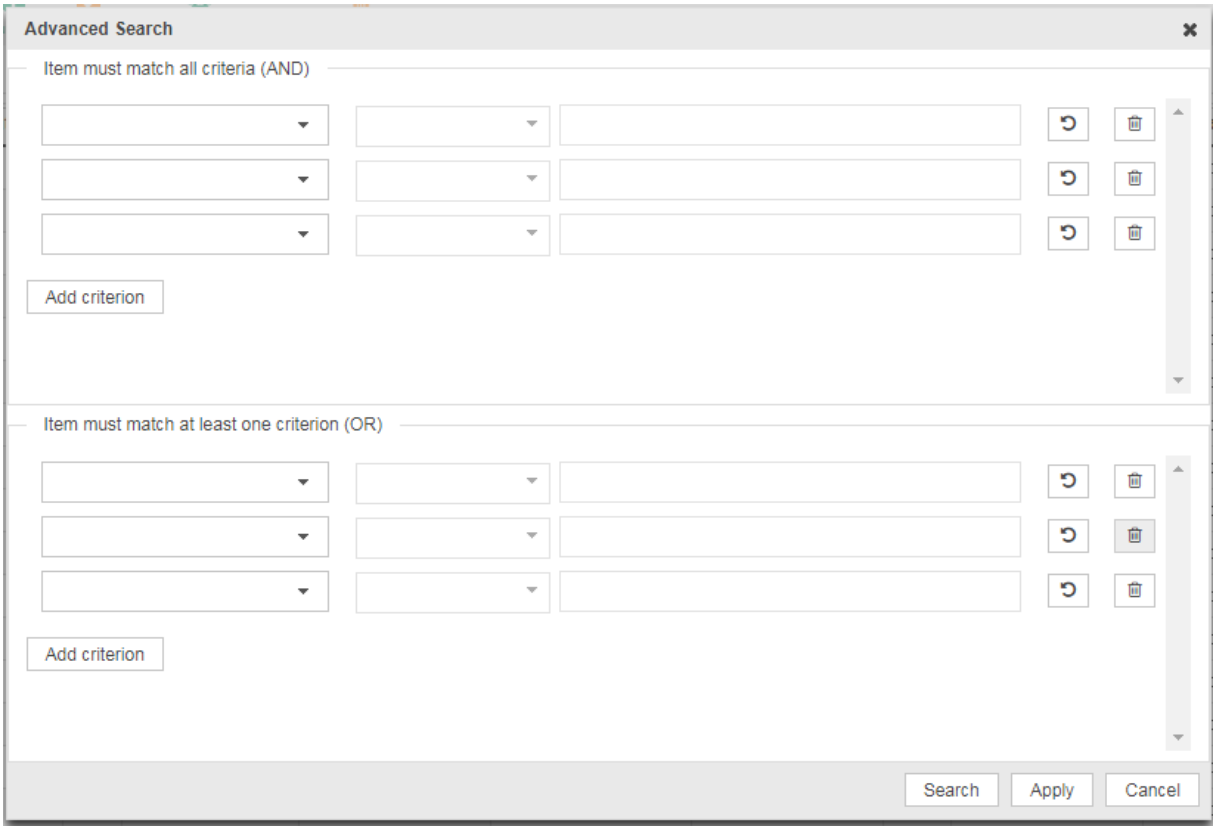


Figure 14: Dialog for defining Search Criteria

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 that the attribute must have to be included in the hit list. The attributes in the dropdown list are arranged in alphabetical order.
Note that the number of attributes displayed in the dropdown boxes depends on the item view defined for the *Advanced Search* function.

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.
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 other value 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.

Advanced Asset Search

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 digital asset is designed to be used.
File Effective Start Date Time	The date upon 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.

You can use wildcards when entering attribute values. An asterisk represents any string of characters ("b*k" finds "book", "back", "black", and "buck", for example). Note that values must completely match the entered string to be found, so the value "handbook - English" would not be found if you enter "handbook". To find this value, too, you would have to use an asterisk at the end of the entry ("handbook*").
In the case of attributes of the basic type *Identifier, Text, String*, or *GTIN*, the entered values are interpreted as prefixes, e.g. the values you enter are automatically enhanced by the addition of a wildcard (*).
You can define multiple search criteria for an attribute: To do so, choose the required attribute (e.g., "Product Color") 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	Digits with a maximum of one decimal point

	Empty, From-To, Begins With, Does Not Begin With	
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

Find Items with Search Profiles

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

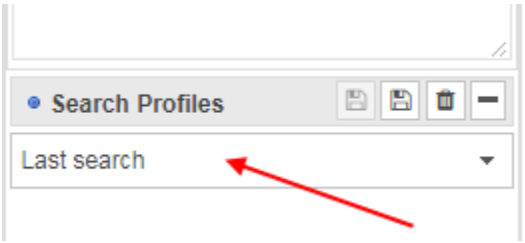


Figure 15: Search profiles

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 as… in the Search Profiles widget.
- In the dialog box that now opens, 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.

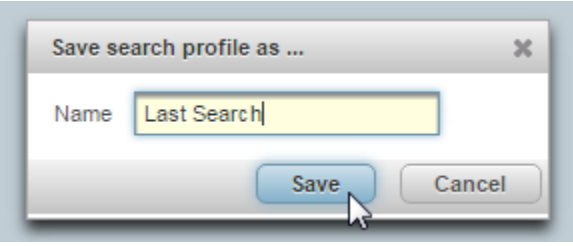


Figure 16: Save a Search Profile

Change a Search Profile

To change an existing search profile, proceed as follows:
From the dropdown list, select the required search profile.
Select the 'Edit'-Button from the Advanced Search and the Advanced Search Editor will open.
Change the search settings or create new search settings for the selected search profile.
Then click the *Save* option in 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.

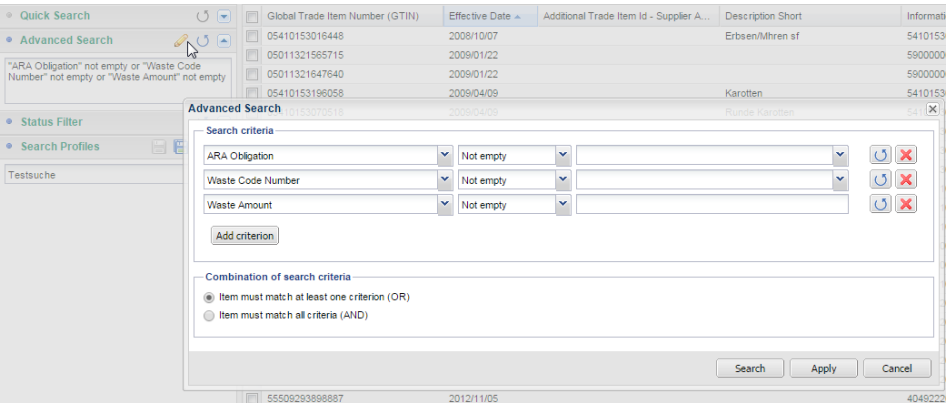


Figure 17: Change Search Profile

Delete a Search Profile

To delete a search profile, proceed as follows:
From the dropdown list, select the required search profile.
In the module function bar, click the *Delete* option.

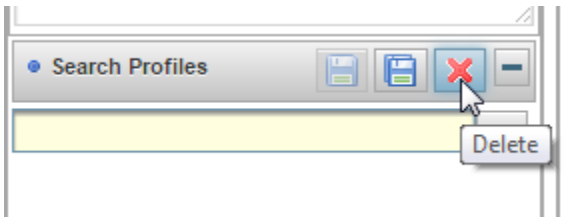


Figure 18: Delete a Search Profile

Confirm the safety prompt that now appears. Click *Cancel* if you want to return to the hit list without deleting the search profile.

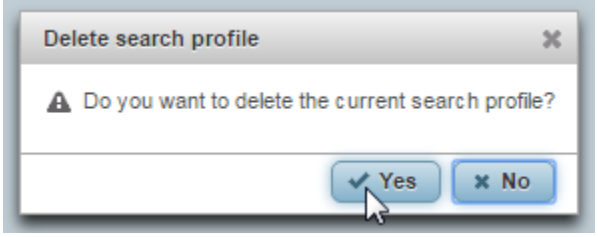


Figure 19: Security check, delete a Search Profile

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.

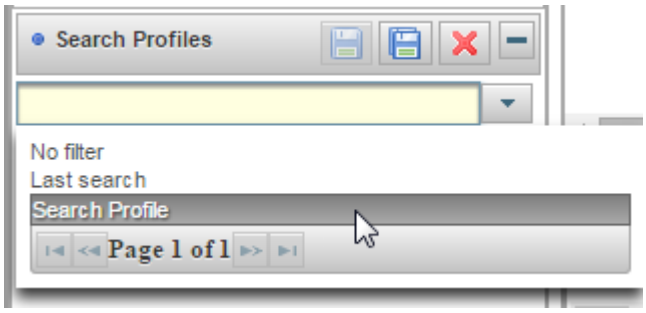


Figure 20: Apply an existing Search Profile

The search settings for this search profile are now loaded.
Then execute the search by clicking the Search option in the title bar or footer of the search and selection components area.

Working with the Item list

The described functions apply to all lists (Task List, Item List, Catalog Item List, Subscription List, Published Item List). Several features in the hit list can be changed to suit a user – the columns can be rearranged, added, or removed, results can be sorted, and the layout saved.
The hit list also allows you to perform several functions right from the hit list; they are listed in the toolbar at the top of the hit list. When you open any Item list for the first time, it is empty. To display several hits, you can initiate a search or use other selection options. Proceed as described in the section 'Search and find Items' to do this.
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

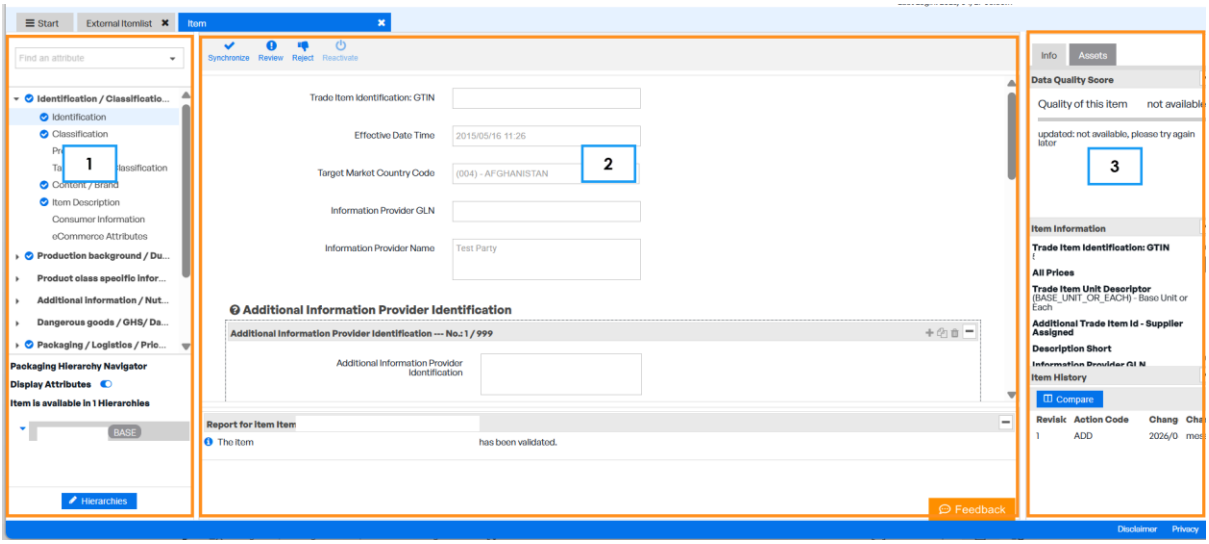


Figure 21: Item (2) with Search Panel (1) and Information Panel (3)

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*.

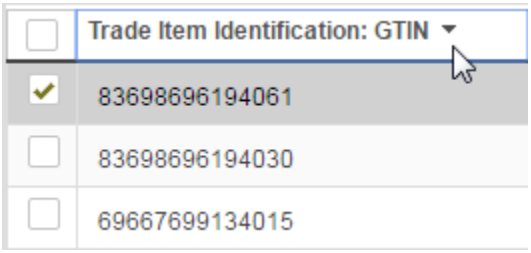


Figure 22: Sorting the results

Double clicking the column header will also change the sorting – if the results are sorted in ascending order, double clicking will change the sorting to descending order and vice versa.

Browsing through the Item List

If the number of hits is greater than can be shown on one page, the search results are displayed across several result pages for better clarity. The number of results found is displayed below the item list, as is the option of switching between the different result pages.
The number of the results is currently displayed as a bundled number of 10, 20, 50 or 100 items. Approval preserves the number of rows per result page. If the user changes the number of displayed rows this value is stored. With the next

opening of this hit list the previously stored number of rows is preselected and will be applied to the performed search. You can switch directly to another page by using the arrow functions to jump to the first, previous, next, or last results page. The search result of hit lists is limited to 50 pages.

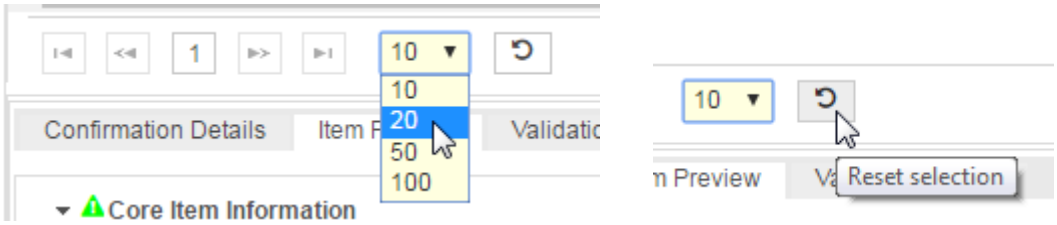


Figure 23: Number of results and Reset function

Customizing the Item List

The layout of the item 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 the item overview. Use the switch Edit Table Columns to customize the item list for an appropriate overview of items. The number and order can be set up individually.

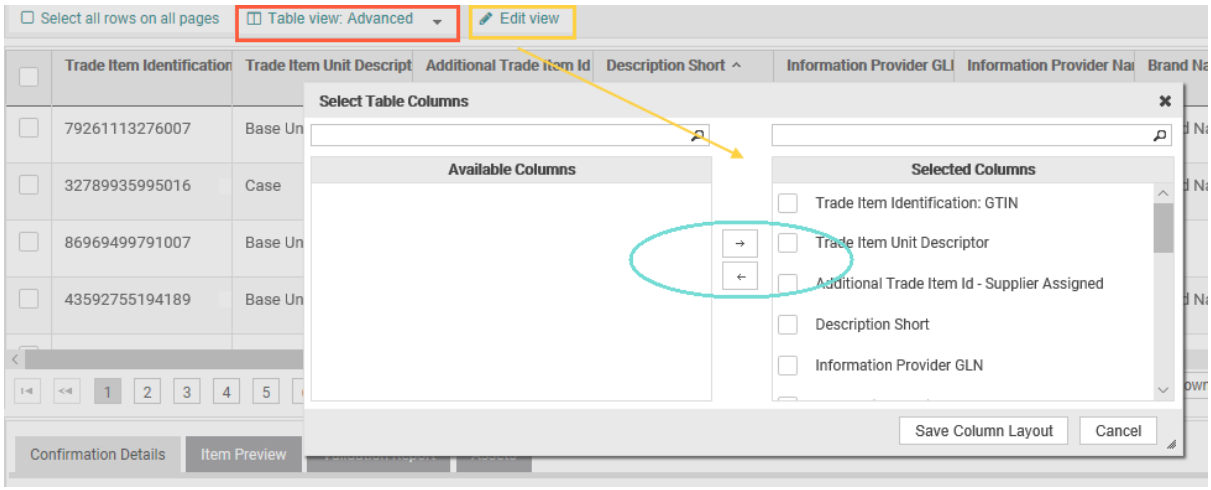


Figure 24: Customizing the Hit List

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.

Highlighting Data Records

To be able to use the different functionalities, especially in editing mode, you must first select at least one item data record in the item list. To do this, highlight the item version that you wish to select for a given action in the item list. You can mark several item versions on different result pages of the item list. If you wish to highlight all the visible item versions on the page being displayed, activate the check box in the column-headings bar above the item list. Click the checkbox again if you wish to undo the selection.

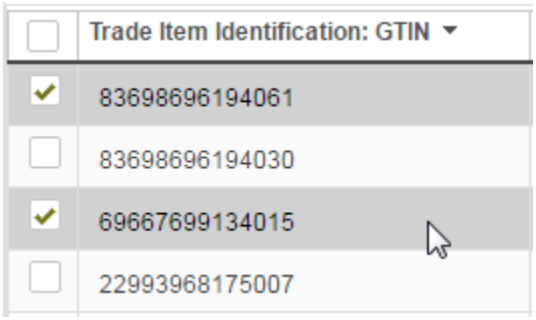


Figure 25: Highlighting Data Records

Once you have highlighted data records in the item list, click on the desired action in the item list toolbar.

Download Hit Lists

All hit lists in Approval can be downloaded. This means the content of a displayed hit list. To do so, press the button "Download Hit List" to mark the items. The items are exported into a CSV-Format.

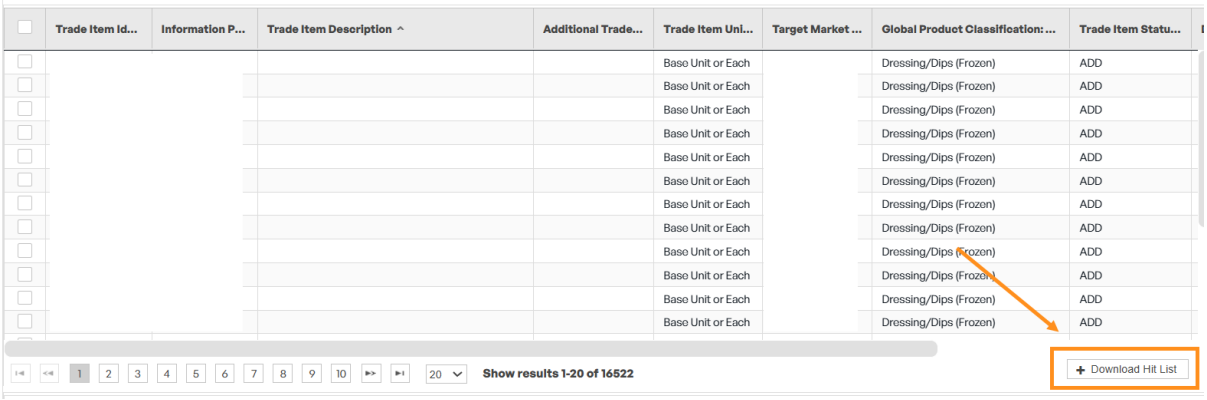


Figure 26: Hit List Download function

Item Detail View

The details of the selected Item can be opened via the Details Button or via DoubleClick on the selected Item. The item view provides the complete data structure of the item arranged in flex bars and tabs as well as overview of the hierarchy. When the horizontal Data Quality coefficient is available for a given

trade item then it is displayed in the details view together with a link to open the list of validation result entries for this item.

If digital assets are available for the selected item, they will be displayed in the info panel "Assets" on the right-hand side.

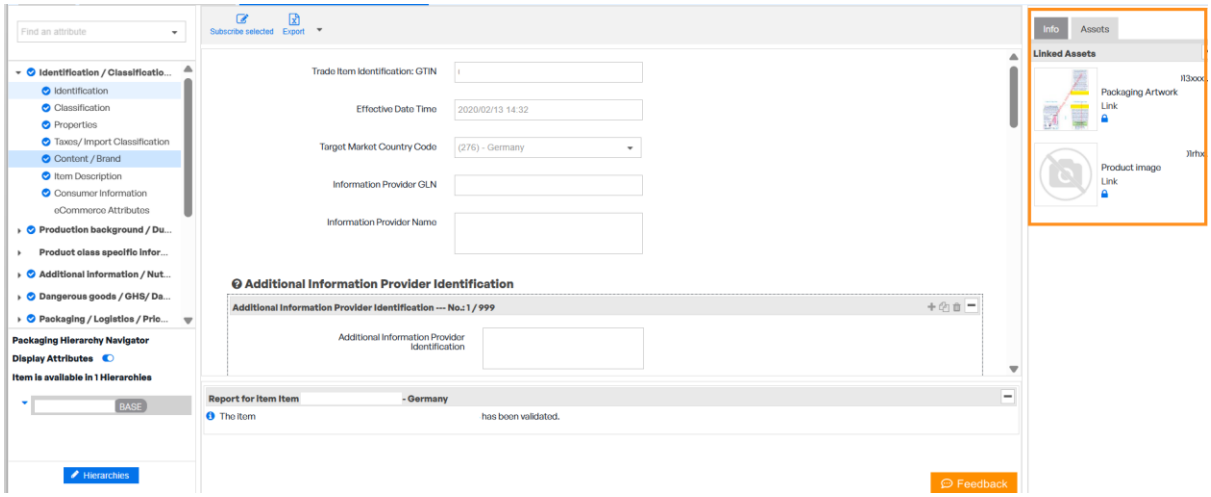


Figure 27: Item with linked assets

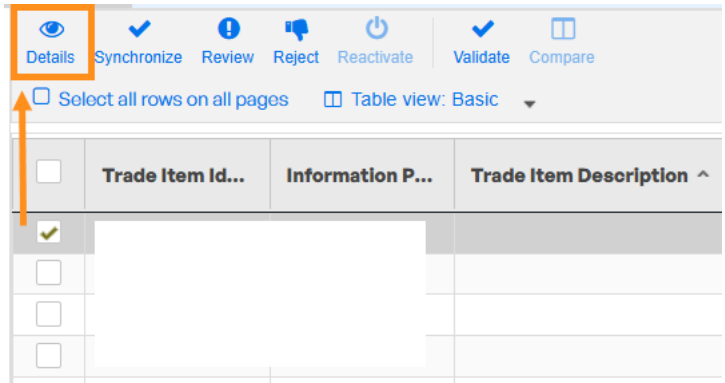


Figure 28: Details button for the Item View

The item detail view is divided into five subareas:

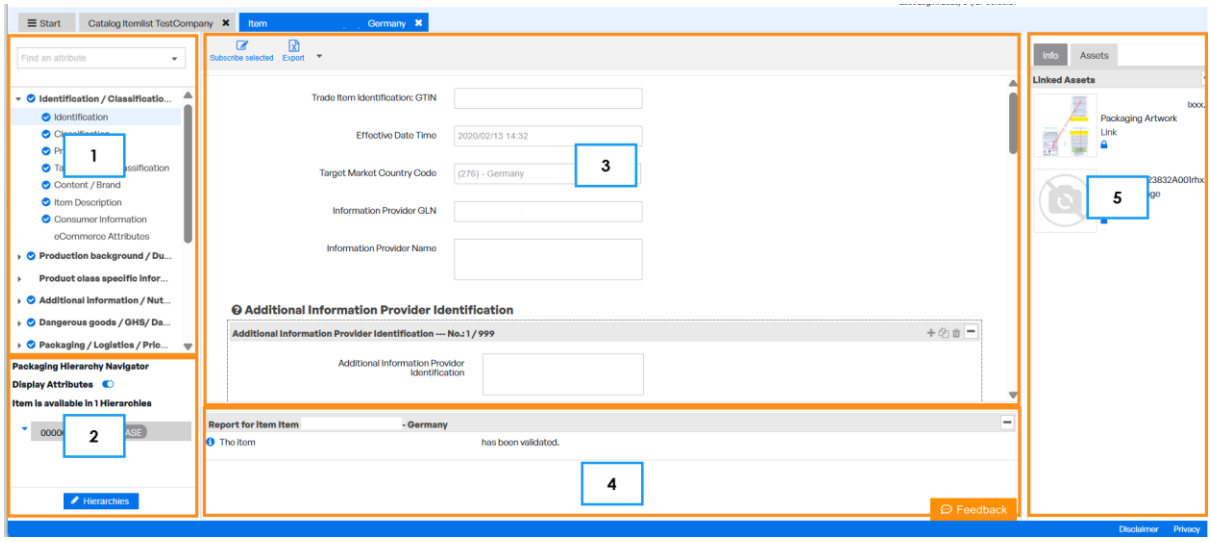


Figure 29: Item Detail View

1. Hits: Tree navigation compiling properties of the selected item.
2. Hierarchy – GTIN's above selected GTIN/ GTIN's below selected GTIN. The hierarchy of the item will be displayed here. Categorizes the item in the hierarchy of packages.
3. Product Identification: In the details view in the center, you can see the attributes contained here to retrieve more information about the selected item
4. Report area
5. Information panel: linked Digital assets will be shown in this area as well as Data Quality score, Item Information, and item history.

Populated Attributes Switch

This feature is available on financial terms. A toggle button on the left on top of the tree navigation allows the retailer to show either all attributes or to narrow down the UI to only these attributes which have been received by Approval with the latest CIN.

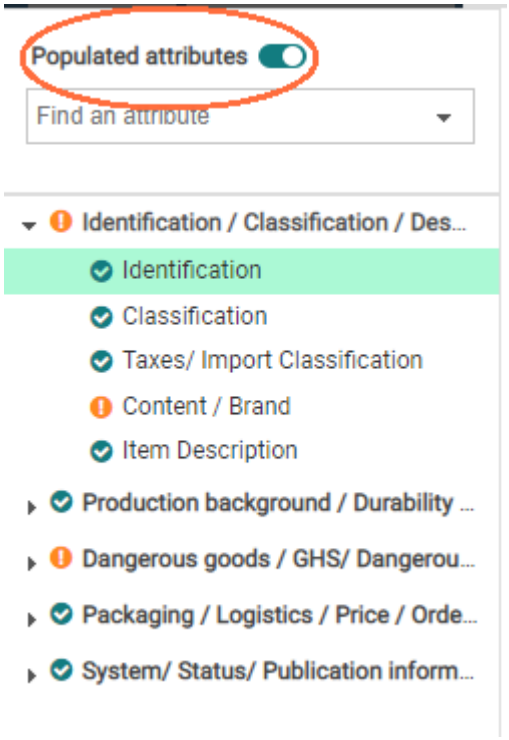


Figure 30: Populated attributes-switch

Hierarchy navigator

The enhanced hierarchy navigator in the left column enables an immediate navigation in the entire editor:

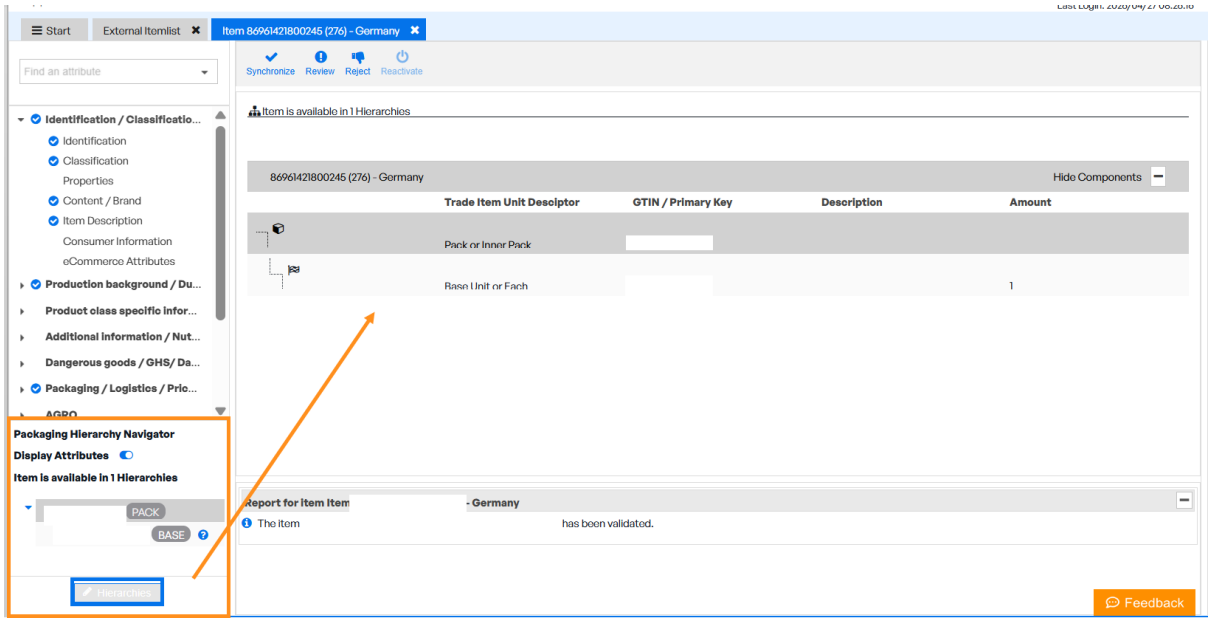


Figure 31: Item Hierarchy Navigator

Item Hierarchy

This part allows one to view the entire hierarchy related to a trade item. Clicking on individual items in the hierarchy will open these items in the detailed view.
A toggle-able view for a large display hierarchy allows one to get a better overview of complex packaging hierarchies even faster. The hierarchies can be opened or closed.
Hierarchies display the item hierarchy that contains the selected item, i.e., all the packaging in which the selected item is contained. It displays the item hierarchy with all items that are contained or packed in the selected item shown. The selected item constitutes the root of the hierarchy. However, you must note that any actions that you perform in the detailed view always affect the item that is displayed as the root. The detail view and the *Item currently displayed* area are refreshed to show the attributes of the item selected in the hierarchy tree. The *Subscribed item* area, however, is not refreshed.

Compare Item Revisions

Approval offers a compare function for comparing revisions (product updates).
In the detailed view of an item, there is a compare button in the revision field. Activating the button opens a new tab and compares the last revision with the current revision of the same GTIN.
The differences are highlighted in color, and you can switch between viewing "all data" and "only changed/new/deleted" data.

Additional maintained attributes as well as attributes that are no longer maintained are visible.

Digital Assets in Approval

Digital assets from the CIN are displayed (via DAM publishing & GDSN).
Once a digital asset is created, approved, and assigned to an item, it is delivered to the recipient as part of a CIN.
The digital asset is stored in the Digital Asset Cloud and only the reference is sent to the recipient within the CIN message. The digital asset is stored in an external media object cloud. The reference is sent to the recipient as part of the CIN message. Images are displayed regardless of whether they are stored internally or the URL references supplier image databases.

On the item detail page, the URL is displayed directly below the preview image and the name of the digital asset. By displaying the clickable URL, both the tracking of the digital asset and the further processing are simplified.

Display of Digital Assets in Approval

Digital assets from the CIN are displayed in Approval. Digital assets can be displayed in Approval via the Search function Item has assets = True. The display of digital assets is also available in catalogs. This means that GLNs that are included in Approval as a catalog also have this feature.

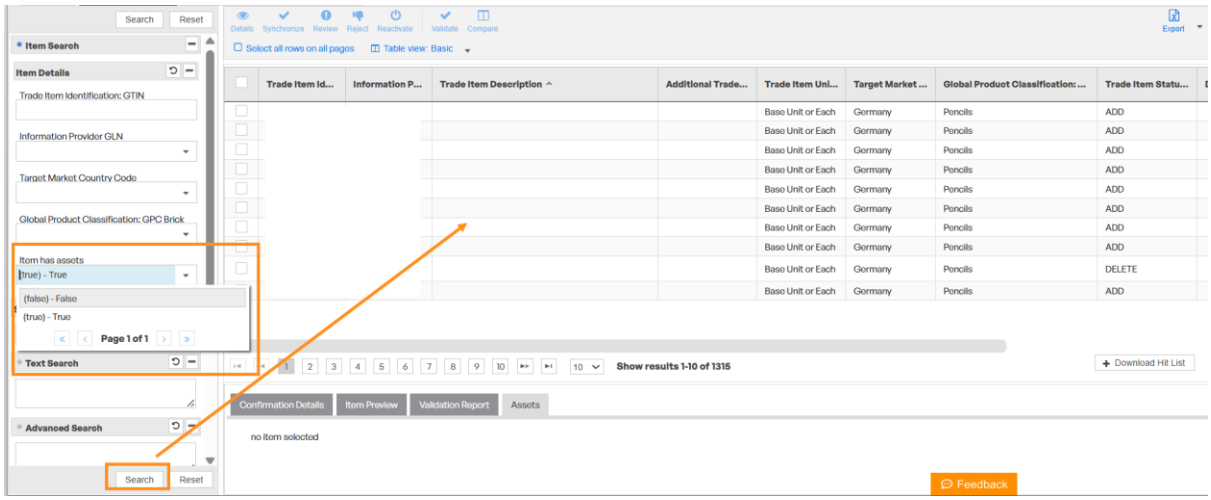


Figure 32: example (external) Item List

In the External Item List editor, the attached images are displayed on the Detail View on the information panel on the right side of the screen.

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.

An item can have multiple digital assets attached.

After the editing process is completed, the item is released. In case the content of the item has been published to at least one recipient or is part of a published hierarchy, the data of the item is also sent to the data pool and synchronized with the retailers who have subscribed to the item.

Common photo formats and PDFs are then displayed directly. The metadata and URL of the released digital asset revision are included in the submitted CIN. Common photo formats and PDFs can be displayed directly. Other formats can be downloaded.

When editing the CIN, a thumbnail is generated, usually the asset that has been defined as "primary".

If a new asset is defined as "primary" after a change, the thumbnail is updated.

When transmitting external images, the first image is always generated as the thumbnail. The thumbnail is only updated when an upload is made.

There are exceptions for images with a file effective end date in the past and also the first asset of the data delivery: the thumbnail is not updated.

If a data supplier wishes to have a specific asset displayed as a thumbnail in Approval, he must ensure that this asset is sent as the "primary" or first image when the data is delivered.

Filter by Digital Assets

You have the option to filter by all media asset attributes for items.

For example, this filter option allows you to determine which items need more quickly to be updated in relation to the new image obligation. It filters by the media asset attribute: "Referenced file type code" = Empty.

Then all items without an associated Media Asset are listed.

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.

Validation of Digital Assets

Not only the product information itself, but also additional item information such as product images are validated.
The main objective is to improve the quality of product images in the target markets (initially target markets AT and DE). This feature allows retailers and member organizations to provide feedback to suppliers about the quality (based on the quality guidelines in the community) of the images provided, thereby improving the quality of the product data step by step.

Validation is performed for all digital assets that have been uploaded using the Digital Asset Management solution and have the referenced file type code PRODUCT_IMAGE.

Filter items with assets or with incorrect assets using the search function in the search panel on the left side of the screen.

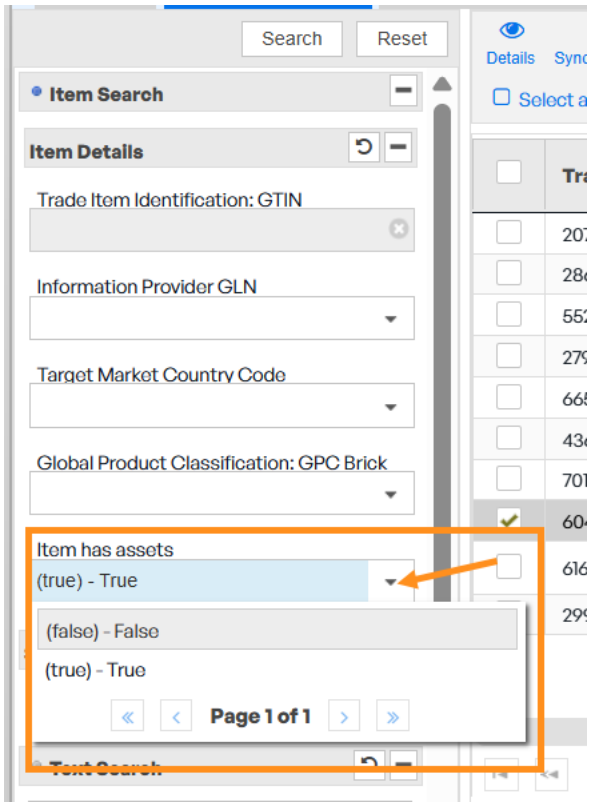


Figure 33: Search items with Digital Attachment

Mark the item in the item list and click the function Validate.

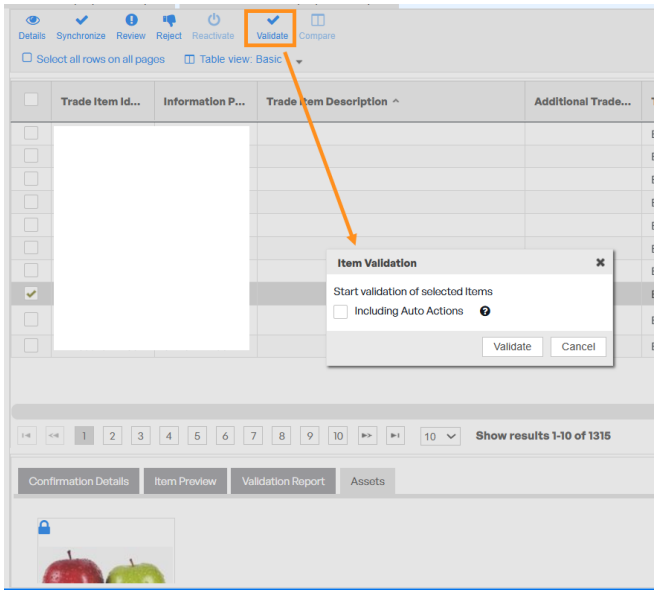


Figure 34: Item List, trigger the Validate-function

Confirm the item validation:

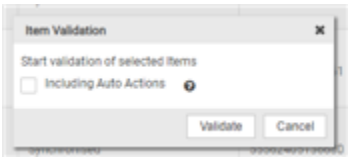


Figure 35: Item List, Confirm the Validate-function

Validation results are generated when items are imported into Approval - the validation results are cached for each image.

The validation results are shown in the UI as follows:

- Blue check: asset is valid according to community rules (no warnings)
- Orange exclamation mark: asset is invalid according to community rules (warnings) or cannot be validated (e.g., because of timeout)
- Grey mark at the asset: asset was not validated because it is out of scope (e.g. no PRODUCT_IMAGE)
- Mouse Over Shows Results

If the images do not meet the quality criteria, "warnings" are immediately sent via CIC.

Downloading Items

From the item list, you can export the item data to an Excel file or a PDF file.

Public Catalog

The public catalog is one part of Approval. Suppliers can decide specifically which items should appear in the public catalog. Retailers with access to the public catalog get a list of those public items and can decide which items they want to get in their own catalog. Therefore, they would create subscriptions out of the public catalog.
Approval can be configured to provide access only to the public catalog or additionally to enable the retailer to maintain the retailer specific catalog.

Module Structure in the Public Catalog List

The entry screen of the Public Catalog consists of three areas:

- Area showing the **Item Search** (area 1 in the Figure). You can restrict your hit list and search for specific items with a Text Search and an Advanced search function. For detailed information on the item search, see 'Search and find Items'.
- **Item list area**, showing the found items and a toolbar above the list of items (area 2 in Figure). The toolbar will be explained in 'Toolbar in the Public Catalog List'. The hit list is empty if you open the catalog.
- Area for **the Item preview, Confirmation details and the Validation report** (area 3 in the Figure). The tab Confirmation details give information about the Confirmation creation date, CIC status Code, the Trade Item Identification: GTIN and the Information provider GLN. By selecting an item in the hit list the Item preview in the information panel beneath the list is filled with a short item preview. The preview gives you a quick overview of the item in question and only displays a limited set of attributes. The item preview is provided in a read-only mode. No modifications can be made here. The tab Validation report displays the found validations.

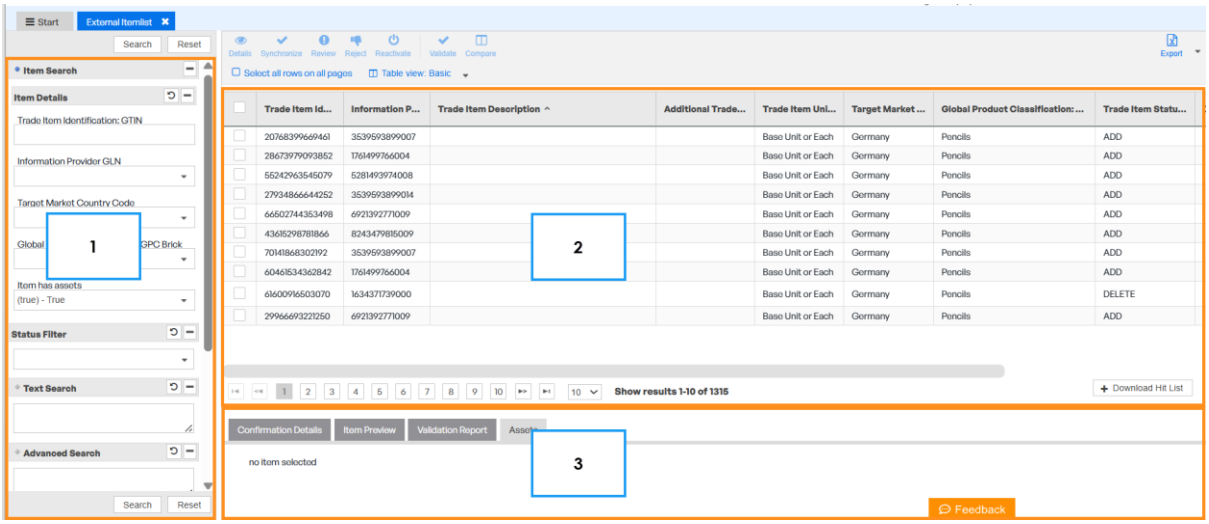


Figure 36: Public Catalog List

Toolbar in the Public Catalog List

The public catalog list provides functionalities for the user to work with the list of results.

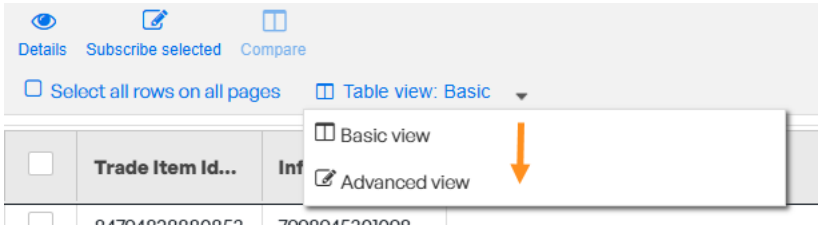


Figure 37: Tool bar Public Catalog

- Details by clicking on the Details icon the selected Item details are displayed.
- Create a new Subscription by Subscribe selected.
- Compare Function of two GTINs.
- Select all rows on all pages to export the items to Excel.
- Select the Table View.

View Items

From the Public Catalog, you have the possibility to view items in details. Choose an item from the item list or search for a specific item (see 'Search and find Items', page 11) and open this item from the list by double-clicking on the item row. The item opens on a separate tab. You can open several tabs at the same time. For more details see section Item View, page 24. .

Create Subscriptions from Public Catalog

If you wish to set up a subscription for an item in the public catalog list, you can proceed as follows:

- Select the item with the check box in the list and choose 'Subscribe selected' from the toolbar.

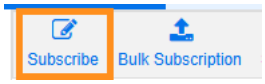


Figure 38: Create new Subscription

- The subscription creation dialog is opened.
- Fill in the criteria.

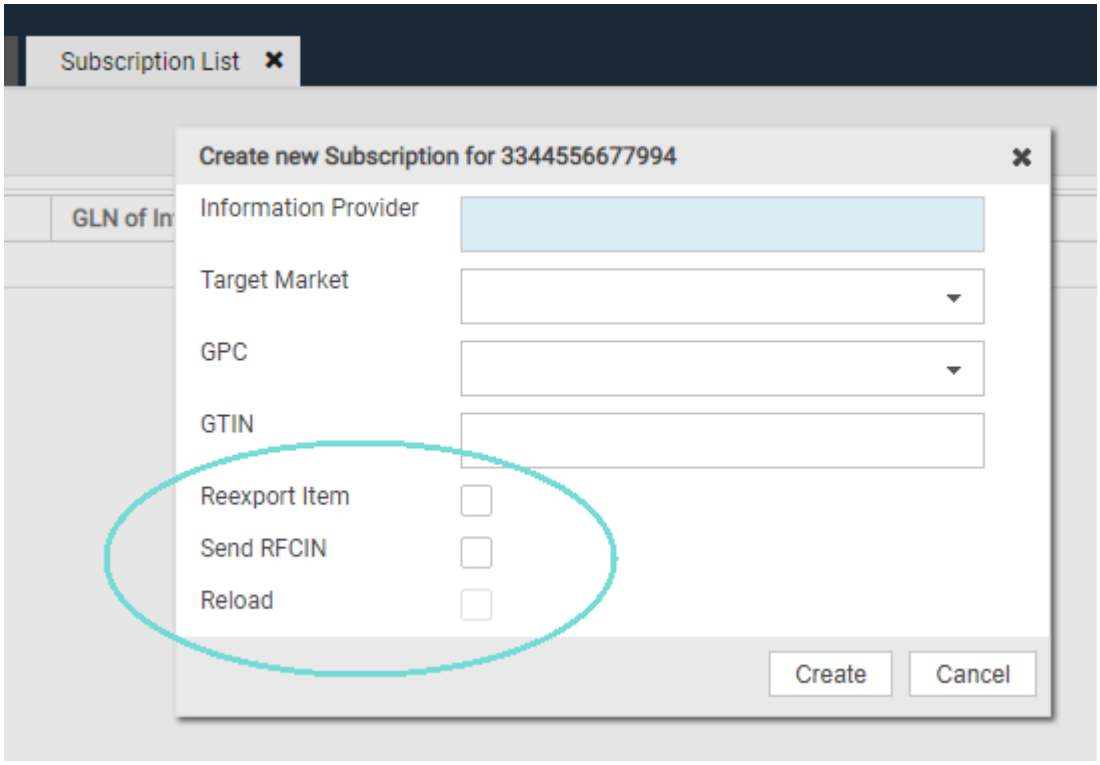


Figure 39: Create a new Subscription from the Public Catalog

Re-export:
All hierarchies that match the criteria set in the dialog will be re-exported.
In contrast to RFCIN, the hierarchies are not validated again. No GDSN messages are sent.

The item re-export always exports units from the top unit to the smaller unit:

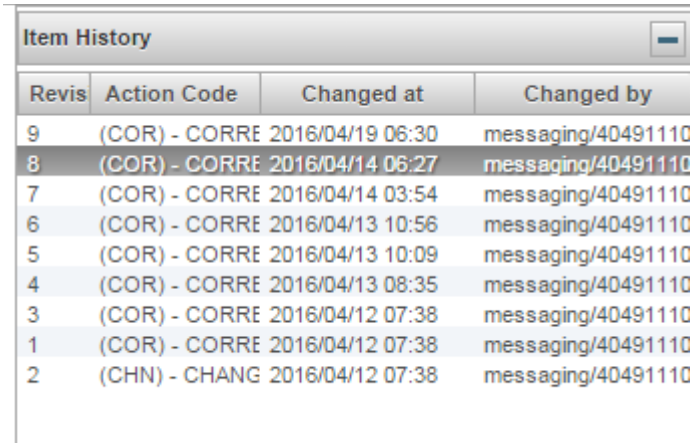
- Case-Base, re-export of the Case -> CIN contains CASE-Base
- Base, re-export of the base -> CIN only contains the base

Generate RFCIN (Request For Catalogue Item Notification):
All hierarchies that match the criteria set in the dialog are validated and delivered again.
A GDSN message is sent to the data pools involved and a CIN message flow is triggered.
Please note that a manual release may have to be issued by the data pool providers, as very large amounts of data may have to be transferred here.

isReload Flag:
This is a configuration within the RFCIN function. If checked, all accepted hierarchies are sent again.
If the check mark is not set, all hierarchies that were previously rejected are also sent again.
Please note that GTIN and GPC cannot be populated at the same time since this combination of selection criteria is not allowed. If you try to populate both GTIN and GPC, you will receive an error message and be unable to create the subscription. Delete GTIN or GPC from the dialog.
Click the 'Create' button. This will add a new subscription, and it is displayed on the information panel beneath the Item list on the tab 'Validation Report'.

Item History

One feature of the application is the possibility of viewing the history of items.


Item History

Revis	Action Code	Changed at	Changed by
9	(COR) - CORRE	2016/04/19 06:30	messaging/40491110
8	(COR) - CORRE	2016/04/14 06:27	messaging/40491110
7	(COR) - CORRE	2016/04/14 03:54	messaging/40491110
6	(COR) - CORRE	2016/04/13 10:56	messaging/40491110
5	(COR) - CORRE	2016/04/13 10:09	messaging/40491110
4	(COR) - CORRE	2016/04/13 08:35	messaging/40491110
3	(COR) - CORRE	2016/04/12 07:38	messaging/40491110
1	(COR) - CORRE	2016/04/12 07:38	messaging/40491110
2	(CHN) - CHANG	2016/04/12 07:38	messaging/40491110

Figure 40: Item history

Display Item History

Item History provides access to information about the current and previous versions of an item. Select an item from the item list. The available versions or revisions will be displayed in the Editor.

Item Revision

A new revision is created after a correction is made or when an item version is saved. A revision has the same start validity date as the version to which it belongs; however, it corrects one or several other attribute values. The item revision contains the status of the attribute values for the time at which the data was saved. Each time an item version is changed, a new revision is created with all the attribute values at the time it is saved.

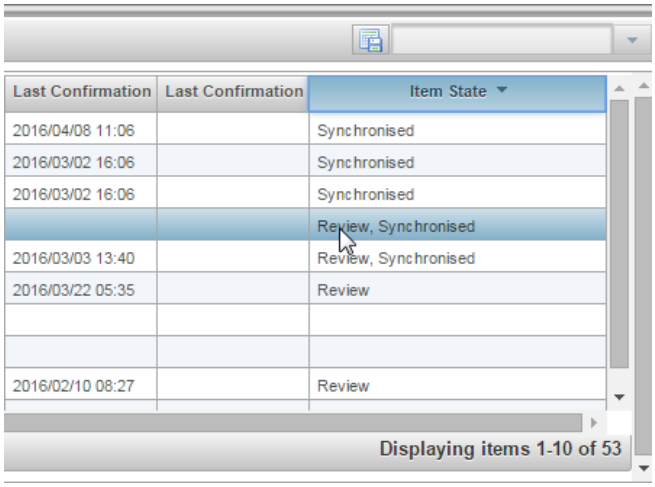


Figure 41: Item Revision function

Attribute Finder

Due to the large number of attributes visible in the UI it is not always easy for a user to locate a particular attribute quickly. The attribute finder enables a quick search for attributes and composite names/attribute groups in the trade items detail's view.
To access the attribute finder, the user can simply open the drop-down menu on the right in the menu bar. When an attribute is selected from the list the cursor will jump to its position in the UI.



Figure 42: Attribute finder

The attribute finder has been extended to support attribute groups. It is possible to search for attributes which are part of an attribute group. By entering the attribute group in the search box, its attributes are listed.

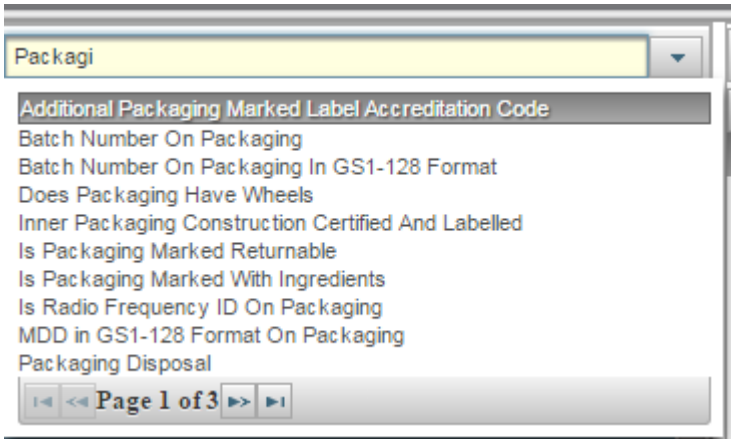
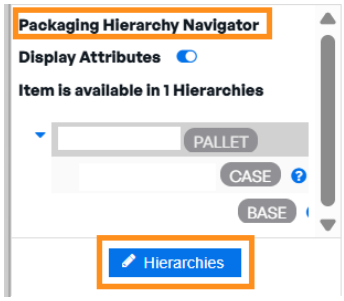


Figure 43: Finding Attribute Groups

Hierarchies

The representation of hierarchies is available with the option "hierarchies" in the Details view on the left-hand side of the Navigation bar.



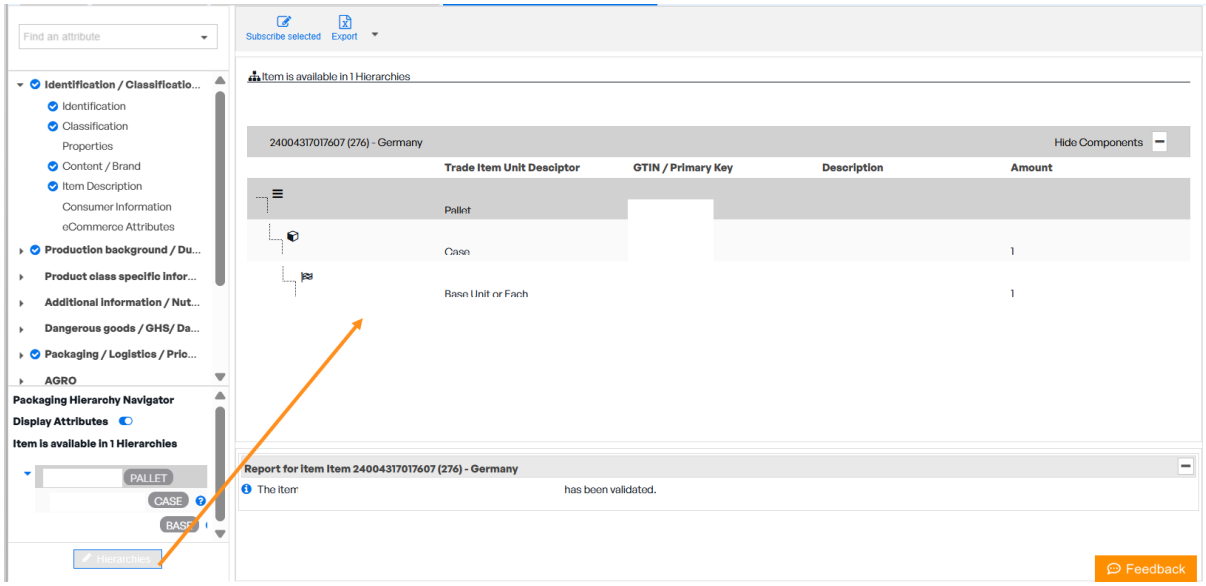


Figure 44: Hierarchies

Enhanced hierarchy navigator in the left column for an immediate navigation in the entire editor.

The position of the selected item in the hierarchy is shown with an icon. You can click on the GTINs that are contained in the packaging hierarchy and display the attributes in the workspace.

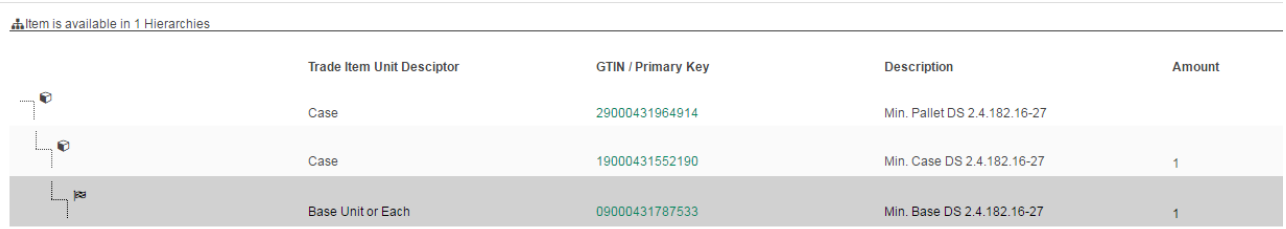


Figure 45: GTIN's above selected item

Exporting Item Data to a PDF or an Excel File

From the item list, you have the option to export the item data into a PDF file or Excel file. The system can export all selected items along with all components (in other words, with all items that are linked by a hierarchy relationship). This incorporates all existing currently valid versions and revisions. To export the item data as a data sheet into an Excel or a PDF, select the corresponding Export format from the Export-Menu if required, choose the option to include Components and Start the Download.

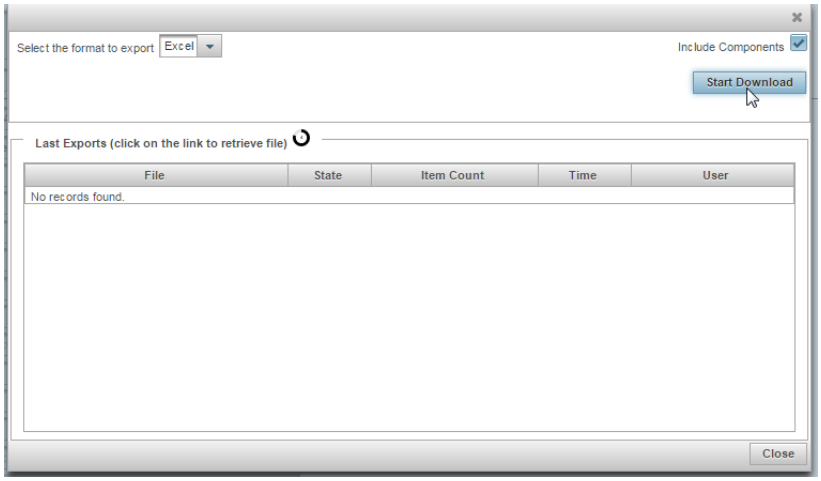


Figure 46: Export-function, Start Download

- The data is now exported.
- A new window opens and in this Download Dialog you can upload the created file via the displayed Link (click on the Link to retrieve file).

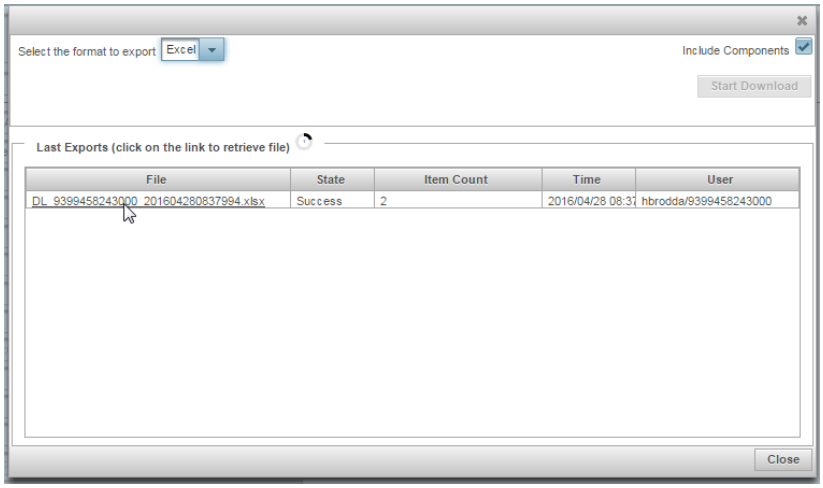


Figure 47: Export Dialog

- You can now save or print the file.
- If you process received data in Excel, please change the Excel format of the decimal places to obtain accurate data in the range of tenths or hundredths.
  Example: The numeric value 100,00 is treated as a 100,00 and exported as 100,00

Exporting Excel file: all columns on a single sheet

It is possible to download an Excel file that contains all columns on a single sheet. Klick the checkbox on the Approval Excel download view. When it's selected the downloaded excel file contains all columns on a single sheet.

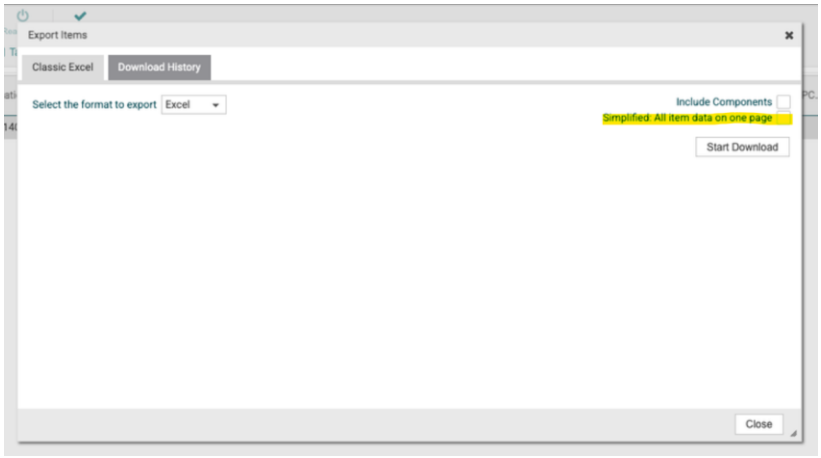


Figure 48: Export Excel file all columns in a single sheet

Customized Excel-Export

In addition to the extensive Excel export, an option is provided to download only relevant attributes for individual continued use. For this feature, the "Custom Excel Export" must be enabled by the administrator in the company settings.

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.

Retailer Catalog

Approval provides retailers with a user interface where one can view and respond to supplier data as well as setup and manage subscriptions. The application can act as a firewall before item data is transferred into the retailer's system, ensuring data quality. Retailers can define a set of rules that can automatically check incoming data and respond automatically. See **Rule-based** Review and Synchronization of delivered Master Data**.**
A retailer needs to have at least one subscription set up in the system for data to be visible in the UI. This does not happen automatically but needs to be actively set up by the retailer. Approval is not a user interface that automatically displays the complete data stored in a specific data pool.
Once a supplier publishes new or updated item data to a publication target the information is sent to the Approval as a CIN (***C****atalog* ***I****tem* ***N****otification*) Message.
When the data recipient accesses Approval the information about new or updated data is displayed on the Dashboard.

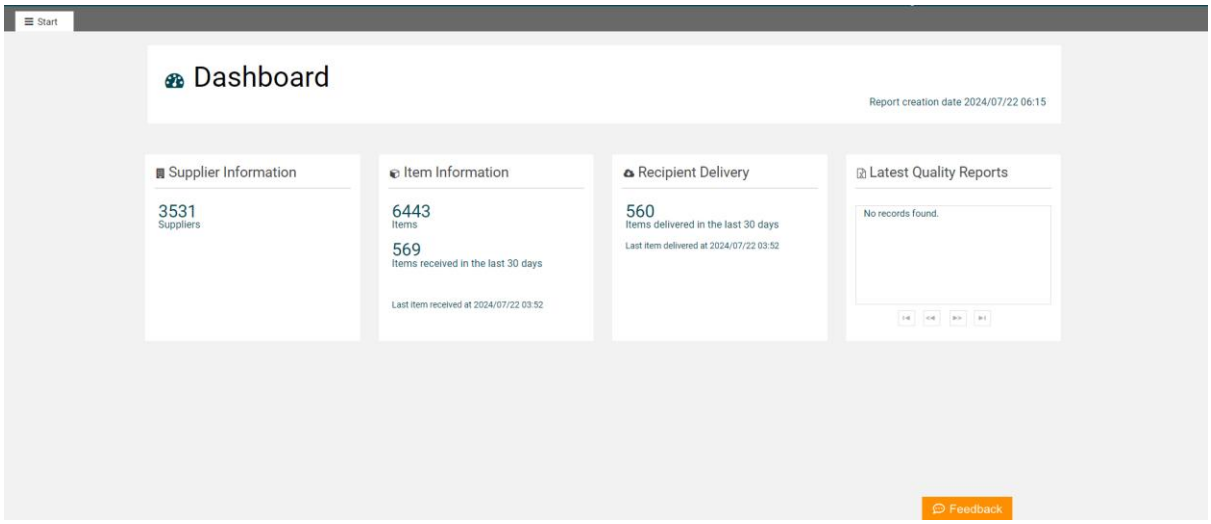


Figure 49: Dashboard

The retailer is now able to review the data in the task list and respond, validate, or decide that the data should be transferred or synchronized to their internal system.

Task List

The task list provides you with an overview of item data that has been recently delivered to Approval. You can access the task list to review new or updated item data and to decide whether you want to synchronize this data with your internal system. Select the Task list and an empty Hit list will open. Click the Search-button or fill in the Search details to start the upload of the Task list.

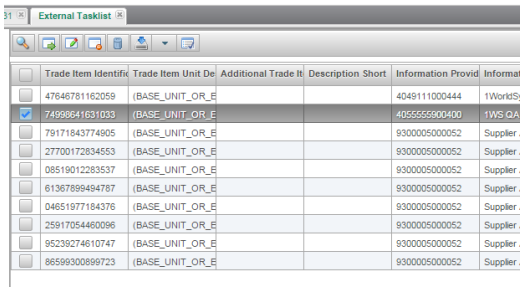


Figure 50: External Task List

In this Task list one will have the following options:

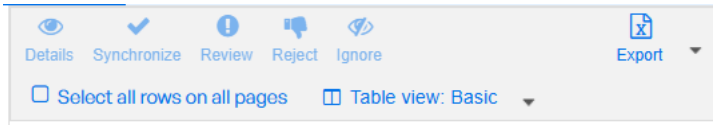


Figure 51: Task List option

- Details view of the selected Item.
- Set status Synchronized Approve item and transfer it to the internal Pool.
- Set status Review Request a review by the data supplier.
- Set status Reject: Updates will no longer be provided.
- Export the selected Item to Excel or PDF.
- Select all rows on all pages.
- Save your individual Column layout.

Ignoring tasks

The task list allows you to ignore certain tasks. Select the option *Ignore task and remove from task list* from the toolbar.

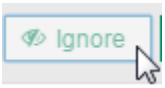


Figure 52: Ignoring tasks

The task will be removed from the list. The items are not synchronized and receive the status *Ignored*. In contrast to rejecting (*Reject*), you will continue to receive notifications about any future updates of these items. Selecting *Ignore task* does **not** stop data synchronization. If you no longer wish to receive data, please send a Reject message. The ignored item will still be visible in the external item list from where you can synchronize it.

External Item List

The Approval application acts as a data recipient for retailers. It consists of the external item list. The external item list contains trade items delivered to the retailer due to publication-subscription matches, that means the supplier has published the trade item to the retailer or to the target market and the retailer has subscribed to it. If the retailer decides to synchronize trade items from the external item list after review, they are copied to the internal item list. The

function to copy the items into the internal item list is available if the administrator enabled the enrichment option.

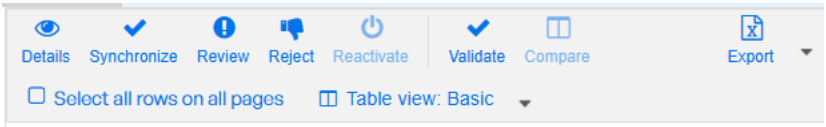


Figure 53: Menu Bar Item List

The external item list contains all item data that was delivered to you via Approval - irrespective of whether the data was synchronized and transferred into your internal item list or rejected. The transfer into the internal item list is available if the administrator enabled the enrichment option.
If a task has already been completed in the task list, you can perform status checks and process item data in the external item list. This also allows you to retroactively request a check for item data that has already been synchronized, or you can continue to see, and process ignored item data in the task list.
In the external item list, you also have the option of re-activating the items that you rejected in the task list if, in the future, you would like to be notified about any updates to these items.
The Validate-Option is only available if the user has the role „Retailer-Editor ".
The validation result is displayed in the validation report.

Download Items

From the item list, you have the option of exporting the item data into an Excel file or a PDF file. For more information, see chapter **Exporting Item Data to a PDF or an Excel File**.
If the download includes prices they will be listed on separate tabs. For each downloaded price, the price attributes displayed in the details view will be exported.

Responding to Item Data

- There are various options for dealing with the delivered item data:
- You can accept the updated item data so that it is transferred to the internal item list. This function is possible only when *Enrichment* is active this means the administrator has activated the option. Otherwise, it will be sent to the retailer if he uses the M2M transfer.
- You can request that the data supplier reviews the data again and, if required, corrects it.
- You can exclude future notifications about updates for specific items.
- You can re-activate a rejected item so that you can again be informed about any updates to this item.
- You can export the item data to Excel or PDF.

Data recipients can respond to the items received with the following status information:

RECEIVED: Item data received, but no decision has been made on the data yet
SYNCHRONIZED: Item data synchronized with the in-house system of the data recipient
REVIEW: Request to the data supplier to review the item data and act, i.e. to correct or change data. The data recipient can specify and describe the discrepancies that prevent him from synchronizing the item data.
REJECTED: Data recipient has decided to stop synchronization of the item. Updates will no longer be provided.
CORRECTIVE ACTION: containing ACTION_NEEDED if errors have been detected by Approval's validation engine or WARNING if only warnings have been found within the items.

These are the only possible responses.
Item errors based on the GDSN rules will cause a **GDSN Exception message**. Approval does not accept those items. This ensures that item data violating GDSN rules is never forwarded to the retailer.
For details on how to respond to item data in Approval please see *Synchronizing* Item Data.

Synchronizing Item Data

Once you receive new or updated item data it is necessary to decide on how to respond. If you decide to synchronize it, it is ultimately transferred to the retailer if configured as a M2M retailer. If you no longer wish to receive updates on an item, you can reject the data. If you want to make the supplier aware of discrepancies, you can ask for a review.
According to GDSN standards, the data supplier will receive a CIC (*Catalog Item Confirmation*) if an item that was delivered by them is synchronized, if you request a correction (*Review*) or if you do not want to learn any more about this item in the future (*Reject*). The status of the CIC will depend on the response you choose, i.e. the option you select here. When sending a reject or review, you will be able to select a very specific set of responses that indicate what is wrong with the data and what actions the data supplier needs to take. You can select value from the Catalog Item Confirmation Status Codes List and add information for the supplier. The Confirmation Status Codes that the UI allows you to select are standardized throughout GDSN. No other codes can be selected. If none of the Confirmation Status Codes can accurately identify the case, it is possible to transmit a free form description by selecting code CIC999. Approval classifies your CICs either as warnings only or error. Generated CICs are expanded with additional information: A corrective action code containing ACTION_NEEDED if errors have been detected by Approval's validation engine or WARNING if only warnings have been found within the items.

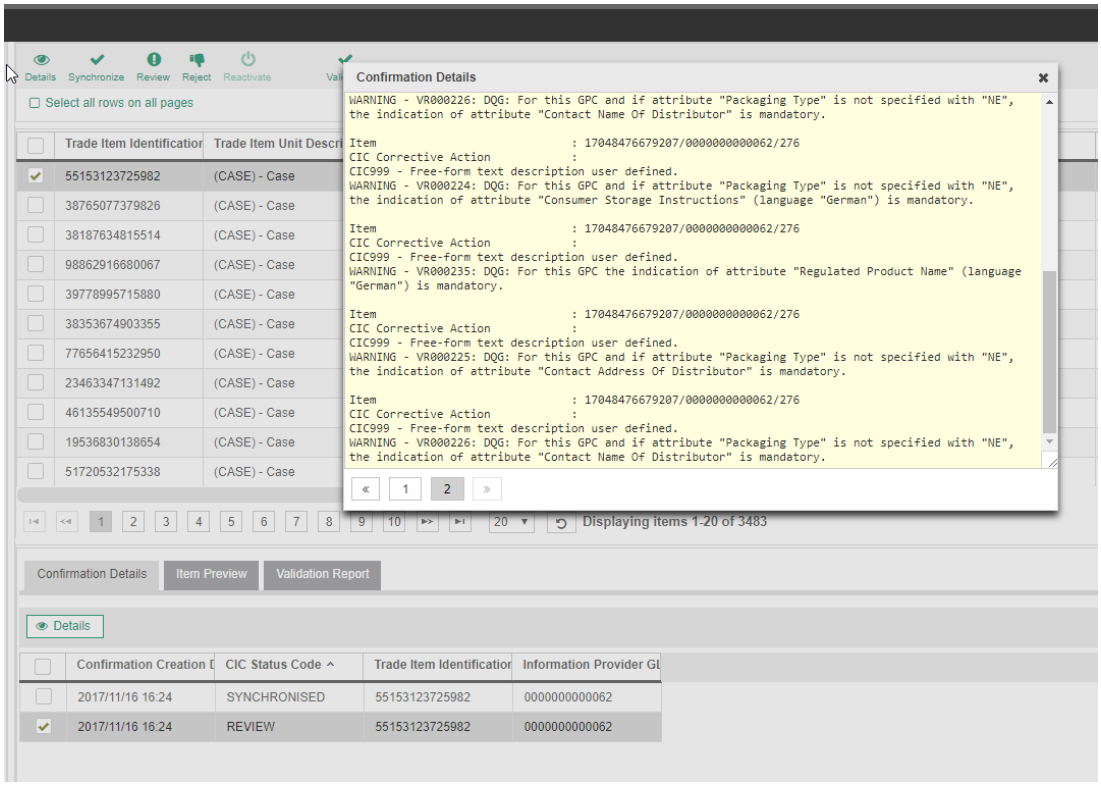


Figure 54: Confirmation details, Corrective Action Code

In addition to that the additionalPartyIdentificationTypeCode will be set to Approval to mark CICs if they have been created automatically as result of an item validation within Approval.

Items can be synchronized from the task list as well as the item list. All functions can be performed either from the list or from the detailed view. The icons and the processes are identical and will be described here only once. The detailed view will only allow you to synchronize the opened item. If you wish to synchronize more than one item, please use the item or task list.

If you wish to accept the item data the way it was delivered and integrate it into your system, use 'Set Status Synchronized'. First select the required items in the task list or the item list.

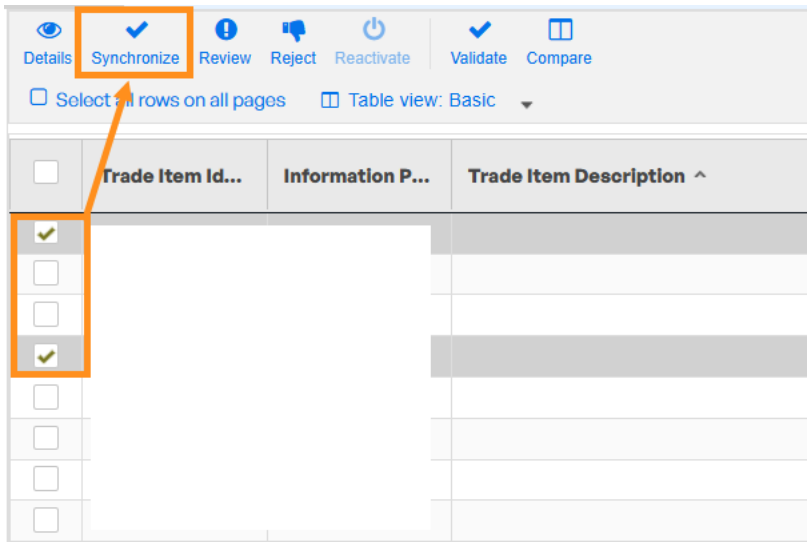


Figure 55: Select Items

Select the *Set Status Synchronized* option from the tool bar.

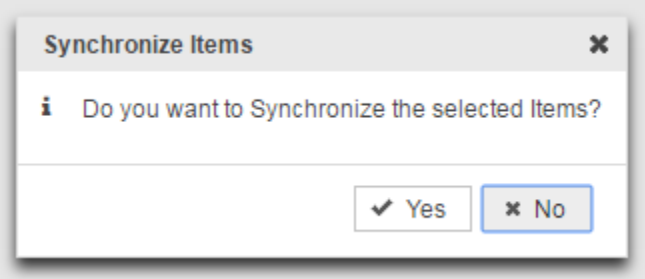


Figure 56: set Synchronize Items

Once you have synchronized an item, it is sent to the retailer, if he uses the M2M transfer.
You will be taken to the status report for the synchronization which indicates the number of items successfully synchronized as well as any items that were not synchronized.
The Synchronization Report is in the Information panel beneath the list on the Tab *Validation Report*.

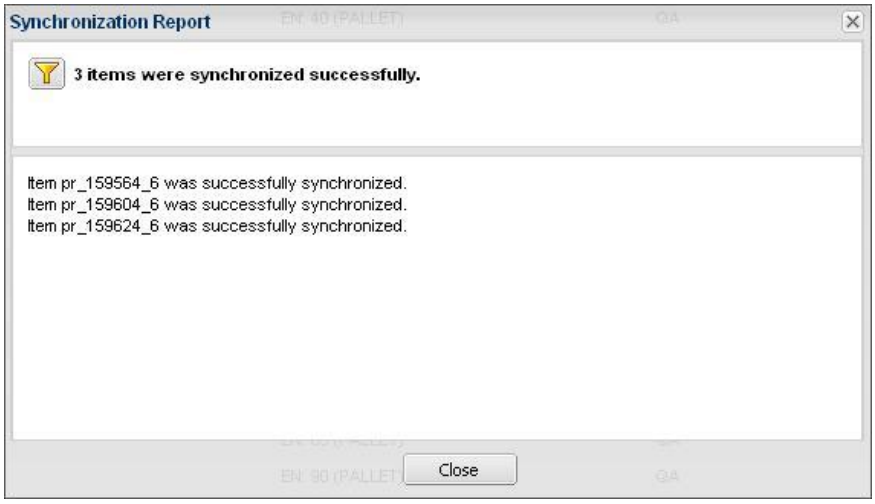


Figure 57: Synchronization Report

According to GDSN rules, the CIC must always be generated at the highest level of the published trade item hierarchy. The option *Set Status Synchronized* is only active if you have selected an item which is the subscribed top-level item of the hierarchy.
If you select a subordinated item, the option is grayed out and cannot be used. In this case, navigate back to the original top-level item. The option will then be available, and you can synchronize the whole hierarchy.

Requesting a Review of the Data Supplier

If you require the data supplier to correct an item or add more information, you can request a review. For each item that you want to fix, you can set as many Confirmation status codes as required. Please note that it is not possible to set different codes for items in one hierarchy. For a full list of the Confirmation Status Codes please refer to the GDSN Implementation Guide, section CIC Response to CIN.
To request a review, select *Set Status Review* from the toolbar.



Figure 58: set Status Review

You will now be able to select the status code and add information for the data supplier, indicating the reason why you are requesting a review.
Move the cursor over the drop-down menu to open a tooltip that contains further explanations and suggested solutions for the relevant status code based on the standard guidelines of the GDSN.
Select the code(s) by flagging the box that precedes it and add more information in the input field if required.

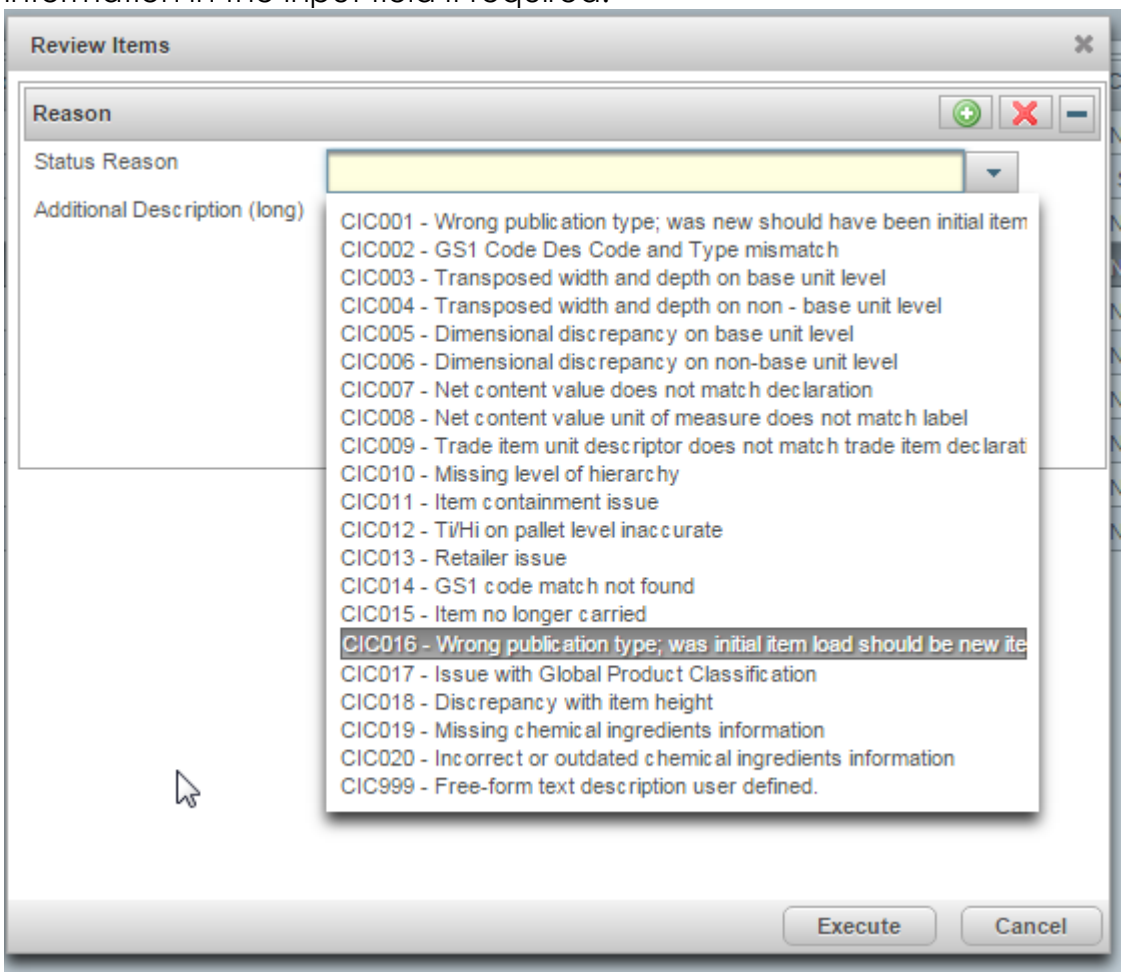


Figure 59: Review items with status Reason

Clicking *Execute* will set the code and generate the CIC. The data supplier will receive a CIC with status REVIEW. Clicking *Cancel* will take you back without saving the changes.

Rejecting Items

If you decide to reject trade items because you no longer require updates of this item, select the *Set Status Reject* option. The data supplier will receive a CIC with status REJECT.



Figure 60: set status Reject

The code must be consistent throughout the entire hierarchy. If none of the Confirmation Status Codes can accurately identify the case, it is possible to transmit a free form description by selecting code CIC999.
For a full list of the Confirmation Status Codes please refer to the GDSN Implementation Guide, section CIC Response to CIN.
Select the code(s) by flagging the box that precedes it. Move the cursor over the information symbol in front of the checkbox to open a tooltip that contains further explanations and suggested solutions for the relevant status code based on the standard guidelines of the GDSN.

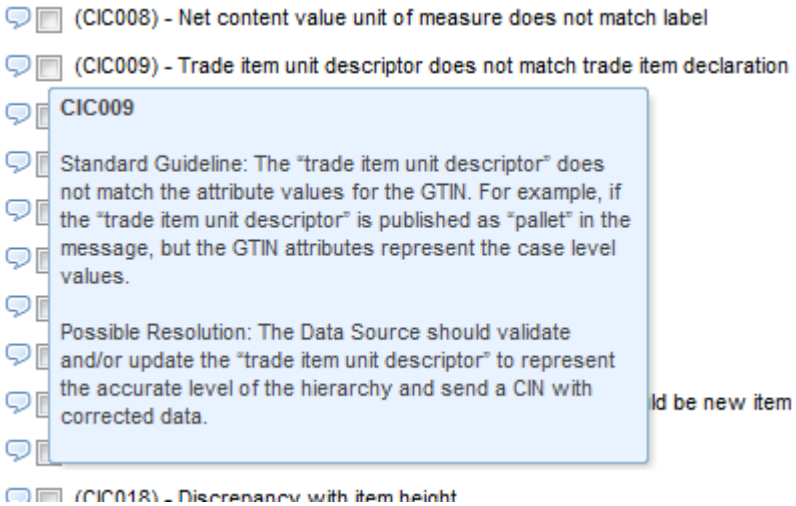


Figure 61: example of Tool Tip

If you activate a status code, the system also displays an input field. You can add an explanation here.

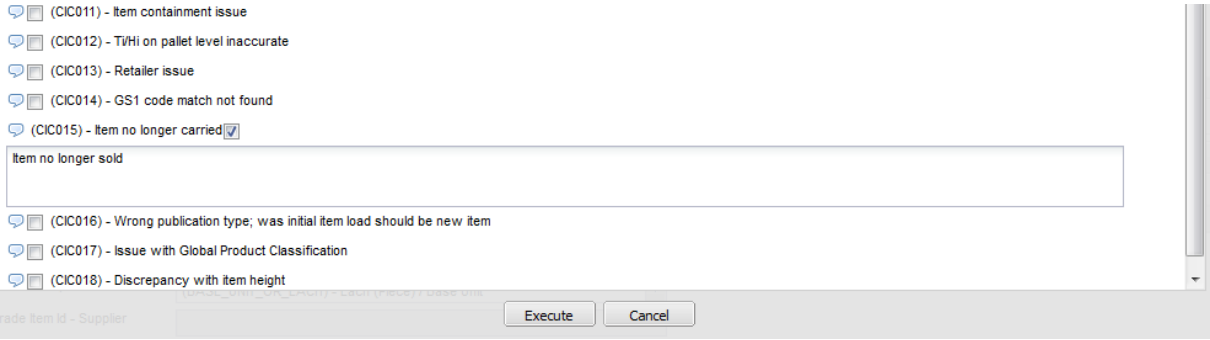


Figure 62: Reject with CIC015

Clicking Execute will set the code. The data supplier will receive a CIC with status REJECT.
Clicking Cancel will take you back without saving the changes
You can also comment on the attributes of these items in the relevant input fields. All the comments for all the items are collected and written to a specific Confirmation Status Code (CIC 999) when the CIC is sent.

Re-activate Items

You also have the option of re-activating the items that you rejected in the task list if, in the future, you would like to be notified about any updates to these items. To Re-activate items Set Status *Re-activate* for an item that was formerly rejected.

Compare GTIN function

Approval offers a comparison feature to compare two GTINs and make it easier to spot the differences between them.
This feature expands on the existing revision comparison feature by allowing you to compare individual GTINs instead of revisions of the same GTIN.

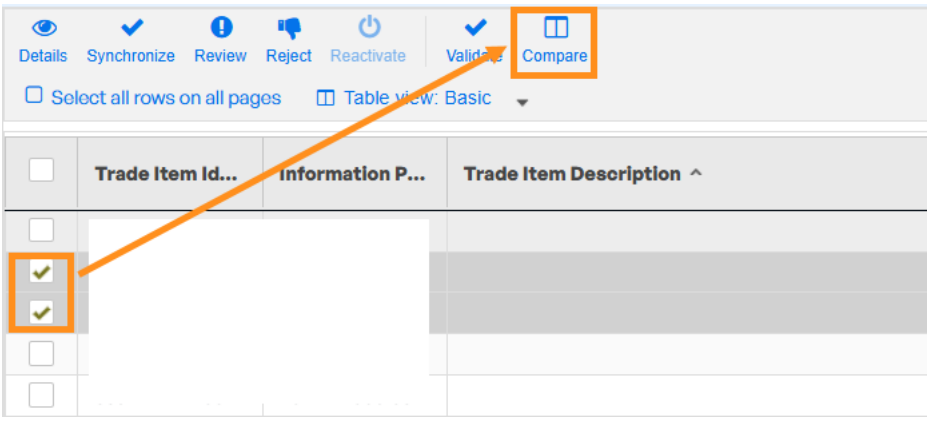


Figure 63: Compare GTINs

To do this, select two GTINs via the checkbox on the item list. Then activate the Compare button. A new tab will open and compare the contents of both GTINs in the current revision. The differences will be highlighted in color.

Users can click on an attribute in the two-column comparison table.

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

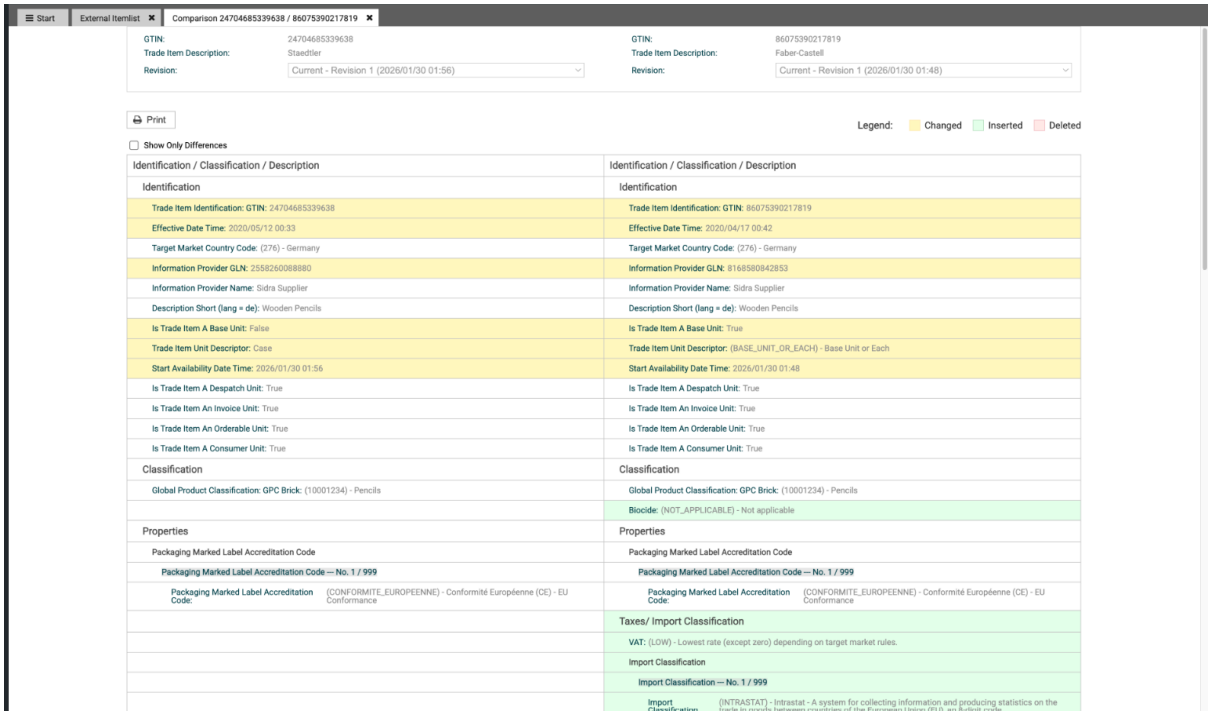


Figure 64: Compare function for two GTINs side-by-side comparison

PUB-SUB match

Once a data supplier has published an item or a hierarchy, and the recipient has subscribed to it, the data pool checks whether the subscription matches the publication.
1WorldSync supports the standard GDSN message choreography and processes.
The subscription results are based on the standard GDSN PUB-SUB match definition. This means that the level of publication must exactly match the level of subscription.
Even if there are multiple subscriptions of an item by the same recipient, the item **will be delivered only once.**
If a **PUB-SUB match has occurred**, item data will be delivered to the subscribing data recipient.

Examples for PUB-SUB match or No-match:
Supplier 0815 publishes the following hierarchy:

- GTIN: 4711 (CASE)
- GLN: 0815
- Target Market: Denmark (208)
- GTIN: 4712 (BASE)

- GLN: 0815
- Target Market: Denmark (208)

Retailer GLN 2811 wants to receive the above hierarchy.
The table below shows when the data is transmitted and in which cases there is no data transmission:

Case	Supplier -GLN 0815	Retailer- GLN 2811	Data flows	Reason, Explanation
1	publishes item 4711 to Retailer GLN: 2811	subscribes to Supplier GLN: 0815	YES	Retailer 2811 is authorized by publication to his GLN. Subscription to Supplier GLN 0815 matches GTIN 4711 which belongs to Supplier 0815.
2	Publishes item 4711 to Target Market Denmark (208)	subscribes to Supplier GLN: 0815	YES	Item is public due to publication to target market. Subscription to Supplier GLN 0815 matches GTIN 4711 which belongs to Supplier 0815.
3	Publishes item 4711 to Retailer GLN: 3511	subscribes to Supplier GLN: 0815	NO	Item is published to retailer 3511 only. Retailer 2811 is not authorized to get data.
4	Publishes item 4711 to Retailer GLN: 2811	subscribes to Supplier GTIN: 4711	YES	Retailer 2811 is authorized by publication to his GLN. Subscription to GTIN 4711 matches published GTIN 4711. Note, that subscription on GTIN level must match the published item level.
5	publishes item 4711 to Retailer GLN: 2811	subscribes to Supplier GTIN: 4712	NO	Retailer 2811 is authorized by publication to his GLN Subscription to GTIN 4712 does not match the published GTIN 4711. Note that subscription on GTIN level must match the published item level.

In the GDSN **Standard subscriptions (Catalog Item Subscription = CIS)** are processed as update service. They deliver a first initial load. Following the initial load, only the updates that have occurred since the last delivery are delivered. GDSN standard selections work in 'real time' delivery.
The GDSN environment provides only 'real time' delivery, i.e., after an initial load ongoing separate updates are delivered after each modification of the item data by the data supplier

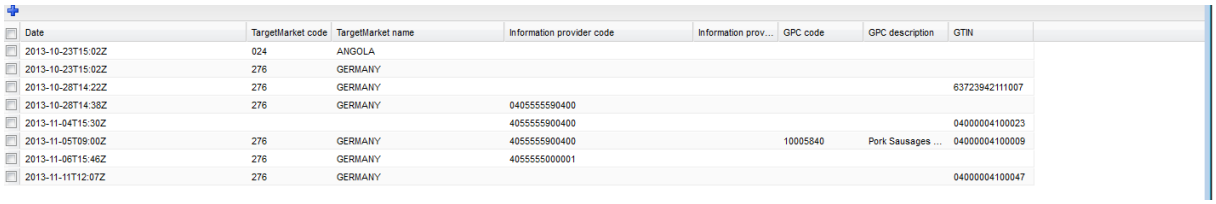
Once the data has been delivered the data recipient can return confirmation or feedback by sending a Catalog Item Confirmation message (CIC). Please note that the CIC message is optional in GDSN for item data exchange. It is not mandatory to send a response.

Subscription List

- The subscription list allows retailers to create and manage subscriptions online.
- The following functionalities are available:
- Search and list existing subscriptions
- Create subscriptions
- Show matching items
- Item Re-Export
- Delete subscriptions

Subscription Search

You can open the list of subscriptions set up for a retailer by executing a Search (Search and Find Items, page 11).



Date	TargetMarket code	TargetMarket name	Information provider code	Information prov...	GPC code	GPC description	GTIN
2013-10-23T15:02Z	024	ANGOLA					
2013-10-23T15:02Z	276	GERMANY					
2013-10-28T14:22Z	276	GERMANY					63723942111007
2013-10-28T14:38Z	276	GERMANY	0405555590400				
2013-11-04T15:30Z			4055555900400				04000004100023
2013-11-05T09:00Z	276	GERMANY	4055555900400		10005840	Pork Sausages ...	04000004100009
2013-11-06T15:46Z	276	GERMANY	4055555000001				
2013-11-11T12:07Z	276	GERMANY					04000004100047

Figure 65: List of Subscriptions

To search for Subscriptions, the Search panel on the left offers some search criteria. For Subscriber, information provider, Target Market and GPC the information can be selected from drop-down lists. You can also search within the list by either entering the value in total or by starting to type.
Select 'Search' to start the search, 'Reset' to delete the criteria.

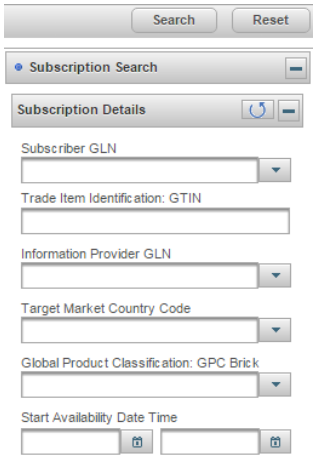


Figure 66: Search Filter

Create Subscriptions

To create a new subscription, select 'Create new subscription' from the function bar.

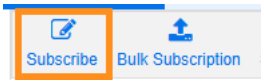


Figure 67: Create new Subscription

This takes you to create subscription dialogue.
Enter the subscription criteria and click 'Create new Subscription'.
This will add a new subscription, and a confirmation dialogue is displayed on the information panel at the bottom after it has been successfully created.
Notice: To avoid unintentionally high amounts of data in the RFCIN, which can lead to performance problems in the receiver system, the specification of a target market is required.

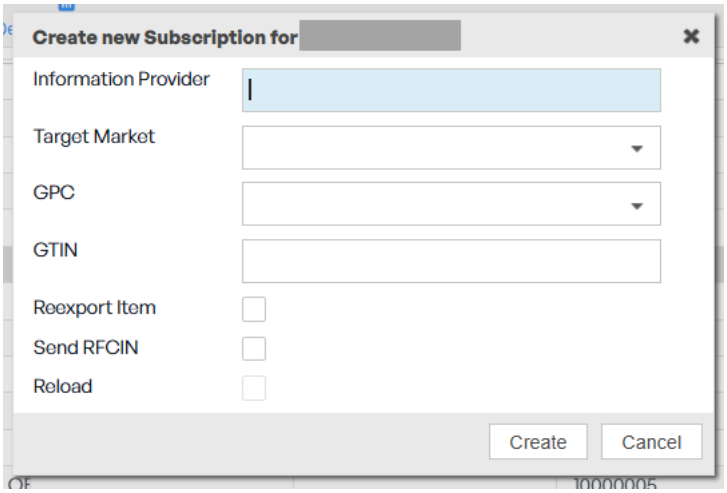


Figure 68: Create a new Subscription

The new subscription will be sent to the 1WorldSync data pool and only if it has been processed there, it appears in the list. This may take a few minutes.
Please note that GTIN and GPC cannot be populated at the same time since this combination of selection criteria is not allowed. If you try to populate both GTIN and GPC, you will receive an error message and be unable to create the subscription.
If you wish to send a **RFCIN** (**R**equest **f**or **C**atalogue **I**tem **N**otification), you can flag the box 'send RFCIN'. In the RFCIN-message the retailer has the option to get items resent. It depends on the **isReload flag** if all items within the previously rejected or only the items which are not previously rejected are resent. If the RFCIN-box is marked, the 'Reload'-box is available.
The **Reload Flag** (Initial Item Load) process enhancement communicates that an item is not new to the retailer, but it is the first time the item information has been sent to the retailer via GDSN. Initial Item Load (IIL)1 could also be referred to as synchronizing previously known items.

Bulk Subscriptions

For non M2M Recipients, subscriptions performed by GLN mean that all published items from that supplier will appear in the Recipient-UI when the recipient only wants to receive and view certain GTINs.

Performing a subscription by GTIN is a manual process and can be very time consuming if there are a large amount of GTINs in the supplier catalogue.

Notice: As admin a Subscriber GLN must be selected, like when creating a single Subscription.

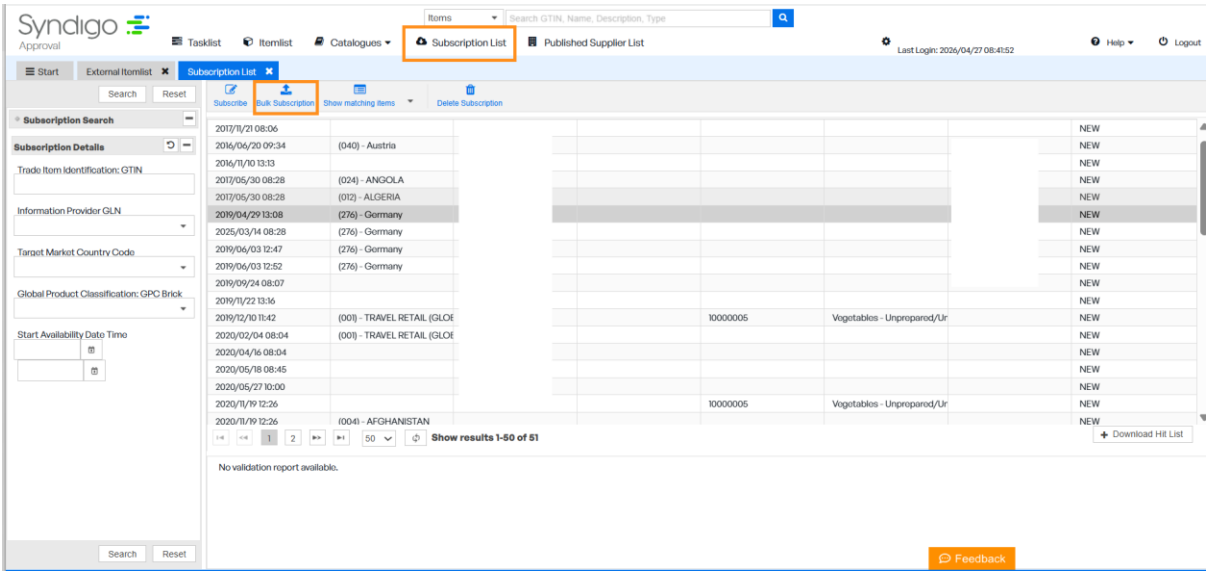


Figure 69: Create a Bulk Subscription

You will be asked to upload a CSV file from your system.

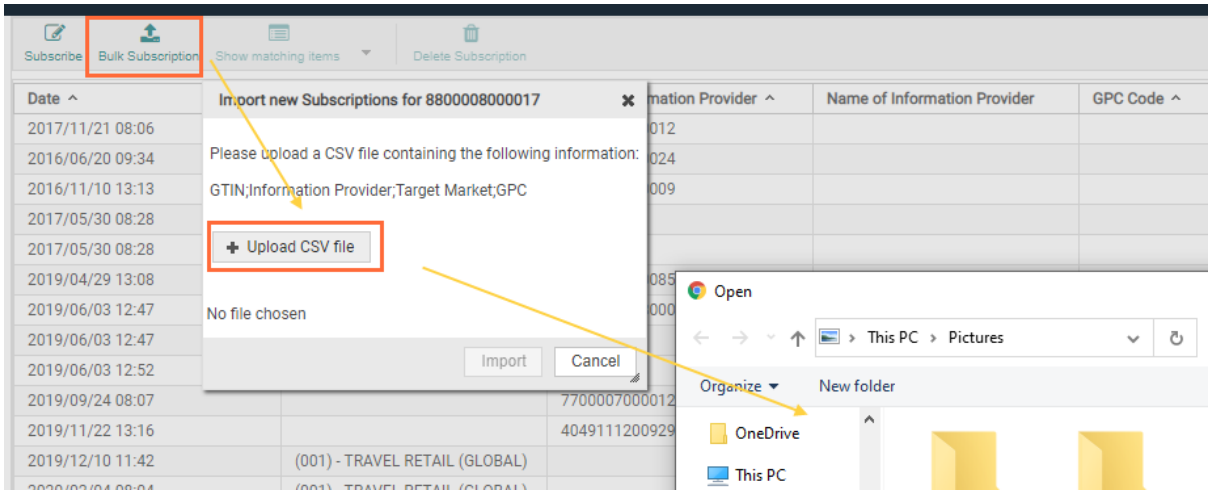


Figure 70: Create a Bulk Subscription, Upload CSV file

Settings for the CSV file

- A title line is recommended, such as GTIN; GLN; TM; GPC, as no subscription is read in the first line.
  Reason: It may be that the CSV file, when exported from Excel, starts with a BOM (byte order mark) character, this will cause problems.

- The semicolon is used as a separator (;) The comma is not supported.

- The values can -- but do not have to -- be enclosed in inverted commas.

- All semicolons must always be specified as column separators, individual values may be omitted, e.g., only GLN and target market (";"[GLN];"[target market]";""). GTIN + GPC in one line is not allowed.

- A # in a line will cause the line to be ignored (like #GTIN; GLN; TM; GPC).
- Both format types (.csv and .txt) work.

- There is a limit of 100kb per uploaded file. How many subscriptions can be generated depends on the specified values (e.g., GTINs only or all 4 values).

Item Re-Export

Approval introduced the possibility to re-export trade items with the Subscription Dialog. One can specify any combination of the subscription parameters:

- Information Provider GLN
- Target Market
- GPC Brick Code
- GTIN

except the combination GPC brick code and GTIN.

The item re-export always exports units from the top unit to the smaller unit:

- Case-Base, re-export of the Case -> CIN contains CASE-Base
- Base, re-export of the base -> CIN only contains the base

In addition to the creation of a subscription or a RFCIN one can now choose to initiate the item re-export. Approval will resent all trade items in state 'Synchronized' to the recipient.

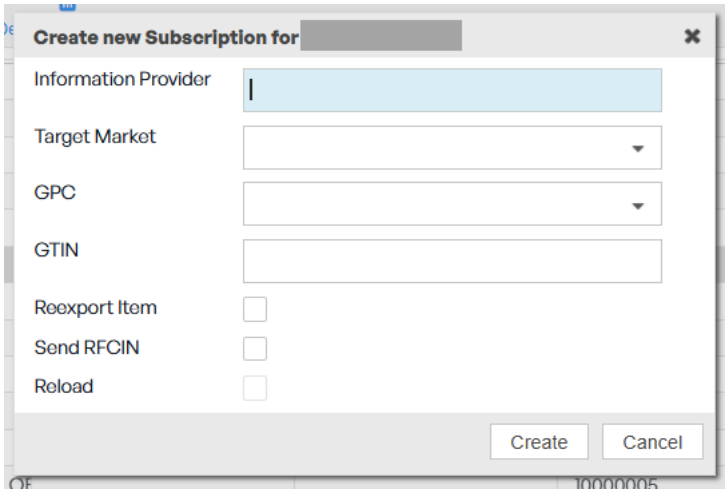


Figure 71: Item Re-Export

Delete Subscriptions

If you wish to delete a subscription, flag the subscription in the hit list and select 'Delete subscription'.

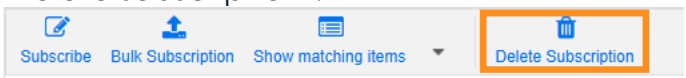


Figure 72: Delete Subscription

You will then be asked to confirm the deletion. Select 'Yes' to delete the subscription.

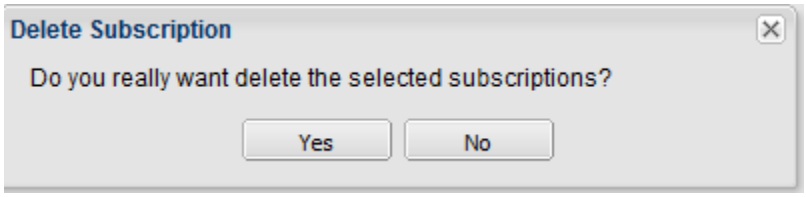


Figure 73: Confirmation Message Delete Subscription

Show Items matching Subscription

If you want to have a list of items in the external item list or the Catalog that matches a subscription, flag the subscription in the hit list and select Show matching items.

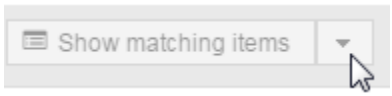


Figure 74: Select Option

Now select the list from the drop-down menu – either external item list or catalog.
The results will open in a new tab.

Published Suppliers List

The Published Supplier List enables the data receiver/retailer to get an overview of suppliers who have published directly to recipients GLN (not

including Suppliers who have published to a Target Market) and to create supplier subscriptions. The retailer opens the suppliers list by clicking "Published Supplier List" in the main menu bar. To create a Suppliers List, one must execute a Search on the Search Panel.

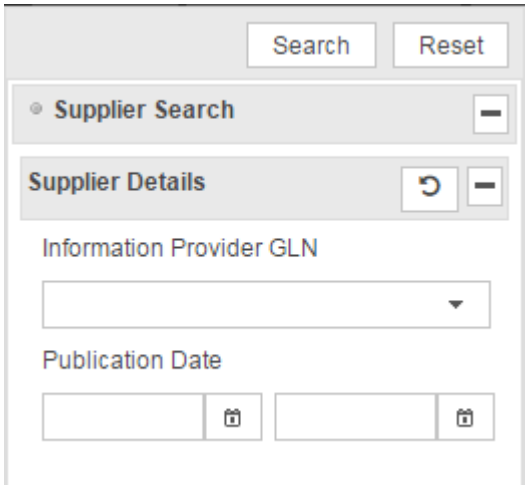
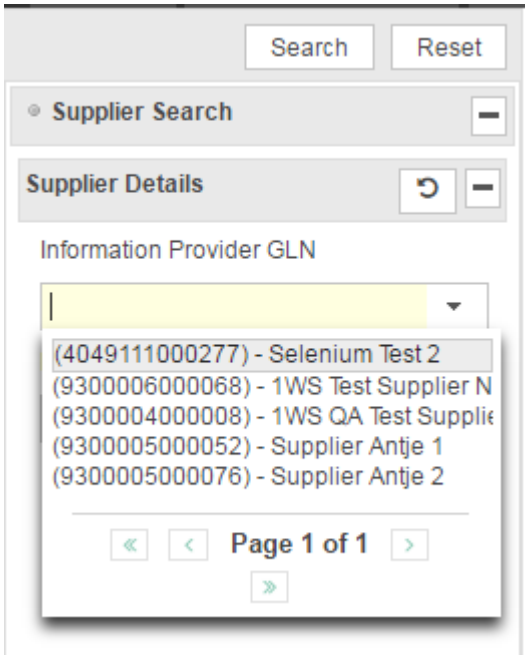


Figure 75: Create a published Suppliers List

Choose the Supplier Details from the drop-down menu as well as the publication date from/until.



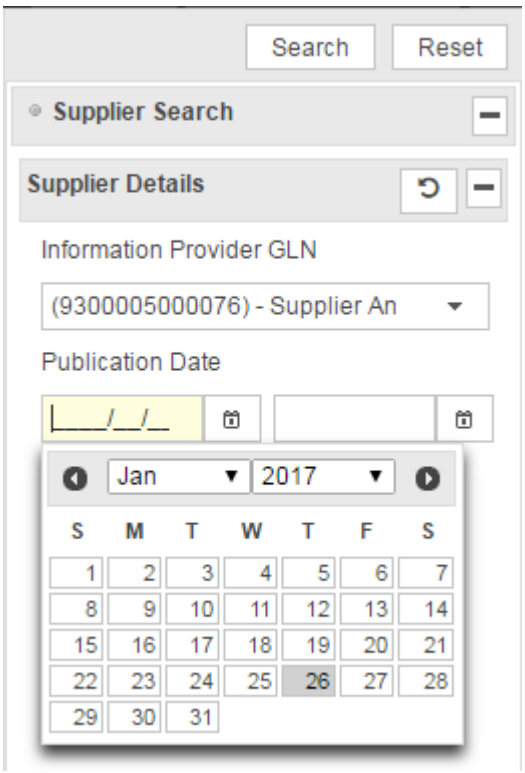


Figure 76: Dialog Create a new Subscription

The confirmation of the selection leads to a result of a Subscription List. The screen is split. The main part contains the table with the published suppliers matching the search criteria. The following columns are displayed:

- GLN of Information Provider

● Name of Information Provider
● GTIN Target Market
● Number of published trade item hierarchies (published to the given retailer)
● First Publication Date (the first date anything was published to the given retailer)
● Recipient GLN (only visible for community administrator)
● Recipient Name (only visible for community administrator)
● Report Update Date (for technical reasons)

The search widget on the left-hand side provides the possibility to search for a published supplier matching the given search criteria. Besides the search for information providers, it is possible to search for published suppliers with first publication date in a given period, also referred to as event search. The first publication date and the report update date are treated as events and displayed in the given user time zone.

The area below the Subscription List displays confirmation of the started Subscription.

Please note: The community administrator can search additionally for recipient GLN.

Enrichment of outgoing CIN with Data Quality Score

Approval now has the possibility to enrich all outgoing CINs with information regarding the Data Quality Gate and its scores. The current information is stored in the internal XML and will be mapped to the CIN:

```
<property propertyTypeKey=" Approval_1WSDQResult" propertyTypeOwner="4049111000000">
  <value>OKAY</value>
</property>
<property propertyTypeKey=" Approval_1WSDQScoreInPercent" propertyTypeOwner="4049111000000">
  <value>80.5556</value>
</property>
<property propertyTypeKey=" Approval_1WSDQScoreInPercentDateTime"  propertyTypeOwner="4049111000000">
  <value>201801121320</value>
</property>
```

Figure 77: Example for outgoing CIN with DQ-Score

- DQ Result: Indicates the status of the DQ Score Service calculation. Please see the table below for possible values within this field.
- DQ Score in Percent: The horizontal DQ score for the item
- DQ Score in Percent DateTime: The exact time the DQ score has been calculated

List of possible values for DQResult

Status	Description
OKAY	The score could be calculated without any issues and is stored in the CIN.

SCORE_NOT_AVAILABLE	There is no score information in the database regarding this item.
DQ_SERVICE_NOT_REACHABLE	DQ Service is not available now.
INTERNAL_ERROR	An unexpected error occurred.

Cleansing Process

Approval is typically configured to perform local market or community validations and to automatically manage CIC's and to automatically synchronize data from Approval to the recipients back-office systems as appropriate.
However, some communities do not have any local validations and recipients do not want automatic synchronization of data directly from the supplier without some form of control. In this scenario Approval can be configured so that data is only sent to the recipient if the recipient has defined the supplier as "clean". Each recipient can have a "Cleansed Supplier" list. Individual supplier GLN's can be added to the "Cleansed Supplier" list, and this will allow data from that supplier to be automatically synchronized directly from the supplier, via Approval to the recipients back-office systems. Any data from suppliers not on the "Cleansed Supplier" list is held in Approval for the recipient to check and authorize for synchronization manually as appropriate. It is also possible to configure the system so that any updates to items that have already been synchronized can be sent automatically.
Approval supports the cleansing process by implementing the following rules:

- Approval provides a configuration per retailer to indicate which suppliers are considered as 'clean'.
- Setting a supplier to 'clean' will set all not yet synchronized trade items and their associated prices to 'synchronized' except rejected or deleted trade items and their associated prices. Deleted prices won't be synchronized.
- If a new trade item arrives at Approval and the providing supplier is marked as 'clean' for the receiving retailer, the trade item will be synchronized. Otherwise, the trade item will remain 'received'.

Validating item data

Approval ensures that data that does not fulfill minimum GDSN requirements is rejected. However, retailers and communities may define additional quality standards and/or mandatory indications. These validations are also applied to Approval to make sure that the data that is ultimately stored in the retailers' systems meets the quality standards defined.

Rule-based Review and Synchronization of delivered Master Data

In addition to the manual review of the incoming master data, Approval provides the option to automatically process master data based on defined rules. An automatic validation takes place if the function is activated in the User Administration with "Company Automatic Actions" and has "My Items" or " Approval enabled".

Process of validation

To start the validation, the top-level item must be selected. In addition, automatic actions can be included. Without activating the automatic actions, no sync / review operations are performed. Click the "validate" button.
With activated Auto Actions: The items are validated and, depending on the validation result, the corresponding Auto Actions are executed (send CICs and synchronise/review the items, in summary, the Approval behaves as if the items had come into the system again).
Without activated Auto Actions: no Sync/Review operations are carried out and the related actions are not performed.

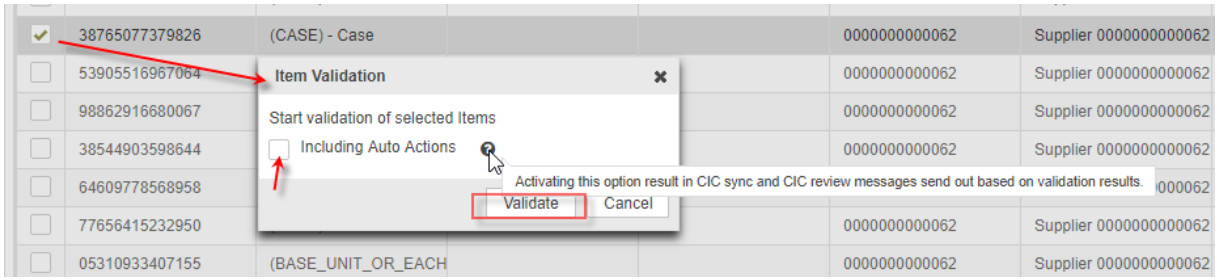


Figure 78: Validation Item Data

The validation report displays the corresponding results. The results can also be downloaded as a CSV.

- GTIN
- Information Provider GLN
- Target market
- Recipient GLN
- Validation rule ID
- Severity
- Message
- Attribute key
- Attribute description

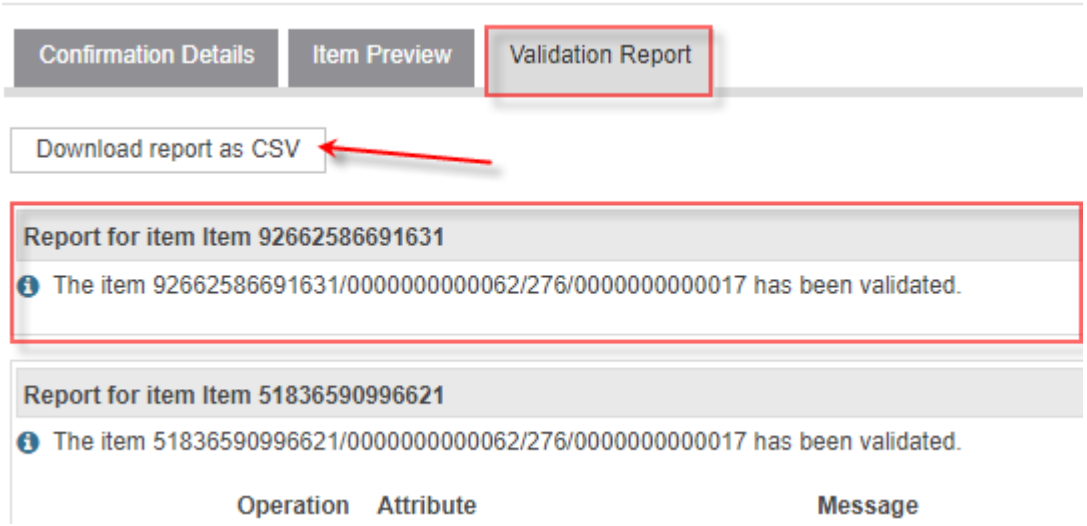


Figure 79: Validation Report

It is possible to set rules that will automatically respond to incoming data. For example:

- You can automatically accept updated item data so that it is transferred to the retailer (*Synchronize*).
- You can automatically request that the data supplier reviews the data again and, if required, corrects it (*Review*).
- You can automatically exclude future notifications about updates for specific items (*Reject*).
- Items belonging to a certain GLN could be automatically transferred to the internal system or items that have certain contents could be automatically submitted for correction by the suppliers.

For **item data that is delivered for the first time**, Approval checks the data based on the general conditions defined. For example, whether an attribute is populated or whether certain attributes have a defined value that are required by the retailer.

GDSN Messages from/to Data Pool

This section refers to the exchange of price and price relationship messages and their confirmations between the data pool and Approval. Find an overview of the most relevant types of messages in the Appendix on *page 64*.
Approval accepts received trade items automatically (by **C**atalogue **I**tem **C**onfirmation CIC RECEIVED). It is also able to receive and process price and price relationship messages (PSD) from the data pool. Approval will directly answer these messages with a GS1Response.
Approval can send price and price relationship confirmation messages (PSC RECEIVE, PSC SYNCHRONIZED, PSC REVIEW, PSC REJECTED) to the data pool. Approval accepts received prices and price relationships automatically (by PSC RECEIVED). The receiver can view sent price confirmation messages for

both price relationships and prices. Sending price and price relationship review confirmations (PSCREVIEW) is also possible for historic and deleted prices.
Furthermore, Approval cannot receive messages for unknown/unregistered retailer. The application will answer this with a GS1Response. Approval can send subscriptions (CIS) and requests for trade items (RFCIN) to the data pool. These messages are triggered by the user when creating a subscription or a RFCIN.

GDSN Messages from the Retailer

Approval can receive subscriptions (CIS, RFCIN) and confirmations for trade items (CIC), prices and price relationships (PSC) from the retailer's backend system. Approval will directly answer the messages with a GS1Response. The application now acts as a message processor for all GDSN messages that a retailer might want to use in the GDSN.
All messages can be sent to Approval via M2M connection and Approval will process the messages as appropriate and if required forward them onto the 1WorldSync data pool for delivery into the GDSN or the Global Registry. This allows retailers to have a fully integrated GDSN solution via a single application.
Approval will forward the received trade item confirmations (CIC) to the data pool. If a trade item confirmation refers to a trade item which belongs only to a deleted hierarchy Approval will answer this confirmation with a GS1Response.
Approval will forward the received price and price relationship confirmations (PSC) with status RECEIVED, SYNCHRONIZED or REVIEW to the data pool. Approval will answer price and price relationship PSC REJECTED confirmations with a GS1Response. It is not allowed to reject prices. Rejecting price relationships is only allowed for community administrators.

Time Zone Support

Approval enables the configuration of the company time zone. New company users will inherit initially the time zone of the company. Users can alter their time zone in the menu bar.
Approval stores system event times in UTC time zone. System events specify the same point in time and are values which are time zone dependent. Examples of event times are the receipt of a message or the creation of a subscription. Attributes marked as event times are displayed in the user time zone. If a system event time is searchable (meaning the representing attribute can be chosen in a search filter) the entered date/time search value will be converted into UTC before the actual search.
Approval stores date/time data received with the CIN without time zone (if provided it will be skipped). Content date/time data are 'invariant' with time zone. No transformation will take place. Approval stores date/time data received with the PSD without time zone (if provided it will be skipped) except for the following attributes:

- Price Last Change Date Time
- Relationship Last Change Date Time

Attributes marked as content date/time data is displayed as it is. If a content date/time is searchable (means the representing attribute can be chosen in a search filter) the entered date/time search value will be used as it is in the actual search.

Appendix

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
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	Recipient Data Pool	Source 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

	synchronization has taken place		
GS1 Response	are sent out as an acknowledgement of receipt for transactions that have been performed successfully. Contains both 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

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Revision History

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02.01.2016	System Requirements, p.	Adjusted System requirements
02.01.2016	Layout, p.	Added new figure of the Dashboard
18.01.2017	Structure of the Online help, p.	Adapted new UI
18.01.2017	Logging in and out, p.	Adapted new UI
18.01.2017	Set UI Language and Time zone, p.	Adapted new UI
18.01.2017	Menu Bar, p.	Adapted new UI
19.01.2017	Search and Find Items, p.	Adapted new UI
19.01.2017	Task list, p.	Adapted new UI
19.01.2017	Item list, p.	Adapted new UI
19.01.2017	Subscription list, p.	Adapted new UI
19.01.2017	Published Suppliers List, p.	Adapted new UI
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		to allow the users to perform searches from every module they are working on
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26.04.2018	Dynamic UI switch, p.	Added hint on dynamic UI switch
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12.12.2019	Switch populated Attributes, p.	Updated section
12.12.2019	Create subscription from …, p.	Updated section
Document version 20.02-2 valid from 20.02.2020		
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15.04.2020	Customizing the item list, p.	Section updated

15.04.2020	Download hit lists, p.	Section updated
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27.05.2020	Digital Assets in Approval, p.	Added section
27.05.2020	Item Detail View, p.	Updated section
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09.09.2020	External item list, Digital Assets..., p.	Updated section
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14.09.2020	Digital assets in Approval, p.	Updated section, added figures
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Document version 21.03 valid from 15.03.2021 TEST		
20.02.2021	Validating item data, p.	Updated section
19.03.2021	Published suppliers list, p.	Updated section
Document Version 21.05-1 valid from 03.05.2021 TEST		
		no change since version 21.03

Document Version 21.05-2 valid from 14.05.2021 PROD		
06.05.2021	Exporting Item Data …, p.	Added notice to process Excel Data
Document Version 21.06-1 valid from 14.06.2021		
No change since version 21.05-2		
Document Version 21.06-2 valid from 28.06.2021		
15.06.2021		Extraction Pricesync Module
Document Version 21.08.-1 valid from 02.08.2021		
no change since version 21.06-2		
Document Version 21.09-1 valid from 13.09.2021		
No change since Version 21.08		
Document Version 21.09-2 valid from 20.09.2021		
		Corrected formatting
Document Version 21.09-3 valid from 04.10.2021		
		Production Running
Document Version 21.11 valid from 08.11.2021		
		Test Running
Document Version 22.02-1 valid from 14.02.2022		
		Test Running
Document Version 22.02-2 valid from 26.02.2022		
		Production Running
Document Version 22.04-1 valid from 28.03.2022		
		No changes
Document Version 22.05-1 valid from 09.05.2022		
		Test running
Document Version 22.05-2 valid from 21.05.2022		
		Production running
Document Version 22.07-1 valid from 20.06.2022		
		Test running, no changes
Document Version 22.08-1 valid from 14.07.2022		
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		
02.08.2022		Prod-Version
02.08.2022	Disclaimer	Ulrich Blanke removed as responsible managing director
Document version 22.09-1 for Release 22.09 valid from 12.09.2022		
12.09.2022		Test version
26.09.2022		Prod-Version
Document version 22.11-1 for Release 22.11 valid from 31.10.2022		
31.10.2022		Test running
Document Version 22.11-2 valid from 19.11.2022		
		PROD-running
Document Version 23.02-1 valid from 06.02.2023		

09.03.2023	Define Search Criteria for an Advanced Search, p. 16	Added table with additional search criteria for Digital Assets.
Document Version 23.05-3 valid from 06.06.2023		
05.06.2023	Filter by Digital Assets, p. 30	WSP-6532: Enhancement with the possibility to filter according to certain media asset criteria.
Document Version 23.08-1 valid from 24.07.2023		
15.06.2023	Customized Excel Export, p. 40	WSP-6994: added section
Document Version 23.08-2 valid from PROD		
25.07.2023	Digital Asset Management, p. 28	SEU-1983: 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.
Document Version 23.11-1 valid from 23.10.2023 TEST		
04.09.2023	Online Help Structure, p.7	Adjustment of the description
Document Version 23.11-02 valid from 18.11.2023 Prod-Version		
Document version 24.02-1		
12.02.2024		No adjustments
Document version 24.05-01		
06.05.2024		No adjustments
Document version 24.05-02 valid from 01.07.2024		
		Rebranding 1WorldSync
Document version 24.05-03		
05.07.2024	Item Re-Export, p. 56	Addition to the item Re-Export completed
Document version 24.08		
05.08.2024		TEST running
Document version 24.08-02		
17.08.2024		PROD running
Document version 24.11-01		
01.10.2024		Update Imprint
04.11.2024		Test running
Document Version 24.11-02		
16.11.2024		Prod-running
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11.12.2024	Display of Digital Assets in Approval, p. 29	Addition of section
Document Version 25.02-1		
07.02.2025		Test running
Document version 25.05-1		
		Test running

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12.08.2025		Test running
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12.08.2025	Exporting Excel file: all columns in a single sheet, p. 40	Functional enhancement
12.08.2025	Online Help Menu, p. 7	Updated section: Release Documentation available
Document version Release 25.08-03		
23.08.2025		PROD running
Document version Release 25.08-04		
03.09.2025		rebranding
Document version Release 26.02-01 valid from 09.02.2026		
02.02.2026	Compare Item Revisions, p.28	Compare revisions within the same GTIN
02.02.2026	Compare GTINs, p. 50	On demand: Compare GTIN function; after selecting two GTINs via the checkbox on the hit list, they are compared in a new tab.
Document Version 26.05-01 valid from 22.04.2026		
20.04.2026	Compare GTINs-Function, p. 50	Functionality Expansion: Clicking on the attribute takes the user to the corresponding location within the element.
Document Version 26.08-01 valid from 10.08.2026		
Document Version 26.11 valid from 13.11.2026		