

Handling set products

Set product infosystem documentation

abas  ERP

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1 BACKGROUND

Set products were developed for sales and as pseudo modules in production. In sales, a set product is entered in a sales order item. When posting the packing slip, the components of the set product are withdrawn. Only a passthrough posting is generated for the actual set product. No stock of the set product is withdrawn.

For production, a set product is entered in the production list of a module. When generating an order production list through scheduling, the set product is replaced by its components. This reduces the depth of the order production list because the components of the set product are moved up one level. In production, one rather speaks about pseudo products than set products.

1.1 DEFINITION OF A SET PRODUCT

The procurement mode "In-house production" and the withdrawal type "Using BOM" are configured for a set product on the "Warehouse, Scheduling, Production" tab. A set product with the described background (see above) can only be used reasonably in sales items and production lists of products.

1.2 PREVIOUS BEHAVIOR FOR SET PRODUCTS

Products can also be configured with the withdrawal type "Using BOM" and the procurement mode "External procurement", for example. In this case, the system handles the product as if the withdrawal type was "Using product", i.e. as a regular externally procured product. This may lead to unexpected procurements. In various warehouse group properties, it was possible to treat set products externally in the same way as regular products. This results in incorrect warehouse stock for the set product itself, particularly from a valuation perspective.

Set products can also be entered in purchasing or manual stock adjustments. Therefore, receipts of the set product and thus stock may be generated. Set products can be included in order production lists. These manually included set products are so far not automatically exploded into the components. These requirements in production structures in turn create work order suggestions for the set product itself, which are undesired.

2 DATA MAINTENANCE

The previous behavior should be improved. The setting of a set product should become unique in the master files. It should only be possible to include a set product in sales items or in the production list of a product. For this, the existing data must be checked and maintained already before upgrading to a 2019r4 version. To ensure the correct handling of set products, a series of plausibility checks will apply in the future.

2.1 NEW BEHAVIOR FOR SET PRODUCTS

The procurement mode "Inhouse production" is now mandatory if the withdrawal type is "Using BOM". Other procurement modes are no longer permitted in this case.

A set product can now only be entered in sales items and in the production list of a product. In production lists, the component property (by-product, receipt from rebuild) must not be set for set products. It is no longer possible to enter a set product in sales, stocktaking, or work order suggestions. In order production lists, there will be the option of exploding the structure when entering a set product. If this is rejected by the user, the production level cannot be saved. In this way, undesired procurements for a set product are prevented.

This new behavior applies from 2019r4. During the test phase of the upgrade, it is checked if there are incorrect settings or uses of set products in the system. If this is the case, the upgrade is canceled. Prior to the upgrade, a data check and maintenance must take place, as a qualified decision cannot be made automatically.

2.2 SET PRODUCT INFOSYSTEM

Using the "Set product" infosystem, you can get an overview of incorrect settings for set products already prior to the planned upgrade. These settings lead to incorrect results already in the current version. However, so far they were accepted without a check. A distinction is made between settings in the master files and in open processes.

The "Set product" infosystem has been tested and approved for abas ERP versions 2015 to 2018. Do not use the infosystem in older versions (2014 and earlier).

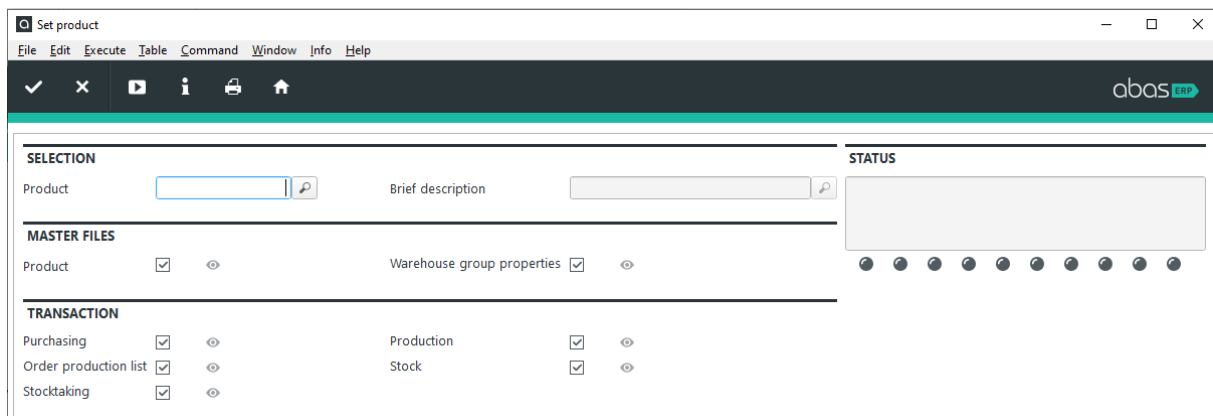
2.2.1 GENERAL OPERATION

The infosystem has the search word SETARTIKEL and the workspace owst. It is a custom infosystem. You can download the infosystem via a tgz file and import it into your system.

If you do not have any experience in importing infosystems using a tgz file, observe the following Online Help section:

https://extranet.abas.de/sub_de/help/he/html/25B.1.2.2.html

After opening the infosystem, you get the following view:



You can limit the display to a specific product. For the master files and processes, you can see the different areas that can be examined. By default, all areas are selected. The grayed out eye indicates that the system data have not been checked yet. You can deselect individual areas. This is useful if you want to perform data maintenance step by step, for example. However, in the end all areas must have been checked and corrected. We recommend correcting the master files first and then the open processes.

The data are checked by clicking the Start button. The incorrect settings are now displayed in the table section by area. Each new area is marked by a yellow row. The grayed out eye is now replaced by a green or red ball.

The screenshot shows the 'Set product' application window. It has a menu bar (File, Edit, Execute, Table, Command, Window, Info, Help) and a toolbar with icons for check, close, play, info, print, and home. The main area is divided into sections: SELECTION, MASTER FILES, and TRANSACTION, each with checkboxes and status indicators (red or green balls). A STATUS box on the right shows progress at 100.00% and program duration from 10/20/23 16:13 to 10/20/23 16:13. Below the configuration is a table with columns: Description, Product, Brief description, and Object. The table lists various settings, with yellow rows indicating errors such as 'wrong product settings' and 'wrong warehouse group properties settings'.

Description	Product	Brief description	Object
wrong product settings			
procurement mode or withdrawal type	10021	falsche Beschaffungsart	2 10021
set product without BOM	10022	keine Fertigungsliste	2 10022
set product: set batch size, min. max. procurement qty and min. stock level to 0	10023	Losgröße	2 10023
set product: set batch size, min. max. procurement qty and min. stock level to 0	10024	minimale Beschaffungsmenge	2 10024
set product: set batch size, min. max. procurement qty and min. stock level to 0	10025	maximale Beschaffungsmenge	2 10025
set product: set batch size, min. max. procurement qty and min. stock level to 0	10026	Mindestbestand	2 10026
production list: set product is used for combined production	10027	Einstellung des Sets ist richtig	128 73
production list: set product is used for combined production	10027	Einstellung des Sets ist richtig	128 2
production list: set product is used for combined production	10027	Einstellung des Sets ist richtig	128 3
production list: set product is used for combined production	10027	Einstellung des Sets ist richtig	128 74
wrong warehouse group properties settings			
warehouse group property	10031	falsche Lagergruppeneigenschaft	39 *
warehouse group property	+10035	Set 42	39 *
warehouse group property	+10035	Set 42	39 *
filed product: Please remove all warehouse group properties.	+10034	Lagergruppeneigenschaften Ablage	39 *
internal set product, external no set product	10031	falsche Lagergruppeneigenschaft	39 *
internal set product, external no set product	+10033	Lagergruppeneigenschaften Ablage	39 *
internal set product, external no set product	+10035	Set 42	39 *

In this example, no set products are used in the reservation (order production list). This area is okay – a green ball is displayed. All other areas contain errors – a red ball is displayed. These errors now have to be corrected manually by the user. The infosystem cannot support automatic correction because the user has to decide what the correct setting is in many cases. They can jump to the place to be corrected directly via the reference in the "Object" field.

The data check can be started repeatedly. In the end, all areas must be green and the table must be empty.

Note: When the set products are set correctly in all places, all areas are marked with a green ball. A yellow row with the title "wrong product settings" is displayed in the table anyway. In this case, simply ignore this row.

2.2.2 PRODUCTS

It is no longer permitted to set the withdrawal type "Using BOM" and a procurement mode other than "In-house production" for products. These products are displayed with the description "wrong procurement mode or withdrawal type". The user now has to go to the product and change the procurement mode or withdrawal type. If the product is meant to be a set product, the withdrawal

type must be set to "Using BOM" and the procurement mode to "In-house production". If the product is a regular product, the withdrawal type cannot be "Using BOM".

Furthermore, a set product must contain a production list. The set product cannot be used without a production list because no components are available to be used. If this is not the case, the product is displayed with the description "Set product without BOM".

Furthermore, the batch size, the minimum stock level, and the minimum and maximum procurement quantity must be 0 for a set product. Otherwise, the set product is listed in the table with the description "set product: set batch size, min. max. procurement qty and min. stock level to 0".

A set product cannot be entered in the production list of a module as a by-product, i.e. with a negative quantity, either. In this case, you can see rows with the description "production list: set product is used for combined production". The affected production list is listed in the "Object" field. In the "Product" field, you can see the set product that causes the problem in the production list. In this case, remove the set product from the production list or specify a positive quantity for the set product. Alternatively, the individual components can be included in the production list with a negative quantity. They will then be adopted as by-products during the upgrade.

2.2.3 WAREHOUSE GROUP PROPERTIES

Also for external warehouse groups, the configuration with withdrawal type "Using BOM" and a procurement mode other than "In-house production" is no longer permitted. For this, the warehouse group properties are checked. The corresponding hits are listed with the description "warehouse group property".

Special case: If a product is deleted, also the corresponding warehouse group properties are filed. These filed warehouse group properties must also have the appropriate settings with regard to the withdrawal type and procurement mode. Remove the individual rows for filed warehouse group properties. They are no longer relevant. The product has already been deleted. You recognize such a case from the description "warehouse group property". Furthermore, the "Product" field contains a reference to a filed product.

Also note that the "Set product" setting must apply to all warehouse groups. This means that it is no longer permitted to declare a product as a set product in the internal warehouse group and handle it as a regular product externally. Of course, this also applies vice versa. It is not permitted to manage a product as a regular product internally and manage it as a set in the external warehouse group.

The corresponding warehouse properties are listed with the description "internal set product, external no set product" and "internal no set product, external set product". In this case, change to uniform handling in all warehouse groups.

Due to the first check only for the withdrawal type and procurement mode, a warehouse group property may be listed twice.

2.2.4 PURCHASING

It is no longer permitted to use set products in active purchasing items. They would generate warehouse stock for the set product when going through the process chain, which is not permitted. The corresponding items are listed with the document type (purchase order, packing slip, etc.) in the infosystem.

These purchasing items must now be corrected in the process:

- First try to delete this item/row.
- Then try to set the item quantity to 0 or to the already delivered quantity.
- Then try to complete the row via the "Status" field.
- Invoices must be created for posted packing slips.

2.2.5 PRODUCTION

There cannot be active work order suggestions that include set products. They would also generate warehouse stock through completion confirmations. These work order suggestions are listed in the infosystem.

These work order suggestions must be corrected:

- If a work order suggestion has not been released, the work order suggestion must be canceled. Set the quantity to 0.
- If there already is a work order, it should not be continued. The work order must be canceled. If there is then still a work order suggestion, the work order suggestion must also be canceled.

2.2.6 ORDER PRODUCTION LIST

An order production list must not contain set products. They generate a requirement that corresponds to a module, i.e. that is interpreted in the same way as the withdrawal type "Product". Where applicable, these requirements generate a work order suggestion, which is no longer permitted either (see above).

First try in the not confirmed section if you can delete these rows.

If the set product is in the confirmed section, you can no longer delete the row. Proceed as follows:

- From version 2018r4: "Changes limited" must be deselected.
- Activate manual withdrawal for this item.
- Set the quantity to 0 or deselect "Relevant" and "Schedule".
- Version prior to 2018r4: Activate the manual withdrawal for this item.
- Set the new remainder to 0 via the "Material withdrawal" screen.
- The next scheduling run will then exclude the work order suggestion for the set product if it has not been fixed yet.
- Complete the work order.

2.2.7 STOCKTAKING

A set product must not occur in an active inventory sheet. Go to the relevant inventory sheet and load the stocktaking rows. You can remove the corresponding row in the line zoom when saving by selecting "Delete".

If the inventory closing has already been performed, it is no longer possible to delete items. Perform the stocktaking completion for this inventory sheet.

2.2.8 STOCK

A set product cannot have a stock level. If set products are in stock, these location stock levels are listed in the infosystem.

Then these stock levels must be set to 0 via the stock correction. If necessary, check if the components instead of the set are to be stored in the warehouse.

Then use the service command "Materials management maintenance tools – Delete storage quantities" to delete the zero storage quantities.

2.2.9 INFORMATION ON THE PROCEDURE AND PROCESSING ORDER

In general, we recommend checking the set products in the ERP system as soon as possible. The infosystem provides a quick overview of what places need to be corrected.

If several places are found, perform the correction promptly and do not wait until shortly before upgrading to 2019r4.

Also note that the descriptions in chapters 2.2.4 to 2.2.9 are possible solutions. This fixes the occurrence of the set product in the transaction data in many cases. However, many different states can result in the transaction data, which cannot all be described here.

When processing an area, a new problem with a set product can arise in another area. Example: A purchasing packing slip must be posted so that the purchasing item is moved to the filing system. A new location stock level for the set product results. In order to minimize the effort involved, note the following:

- Correct stock levels at the very end.
- Correct order production lists before the work order suggestions.
- First correct master files.