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5. Structure Manager

5.1. basics

5.1.1. introduction

The Structure Manager allows you to create general product structures (BOM = Bill of Material) that can be configured to display the product structure at a specific time or for a specific unit, such as

- The valid component structure of an assembly
- A specific approved manufacturing design of the product
- The current design structure in product development
- The product structure that was valid on a certain date
- A specific variant of a product

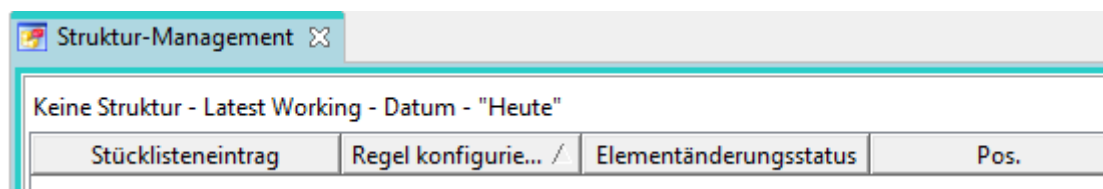
By creating a single generic structure that can then be configured to meet individual user requirements, assembly structures do not need to be duplicated. This avoids the associated problems of maintenance, redundant information and search complexity. The list is similar to the bill of materials that design departments use to list manufacturing information.

5.1.2. opening the structure manager

Start the Structure Manager (PSE) in the navigation window of the TC Client.

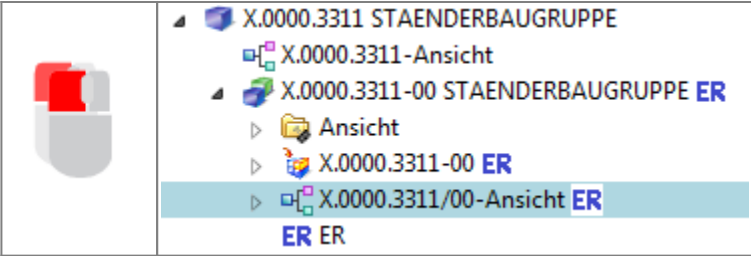


This opens the application with a new and empty window.

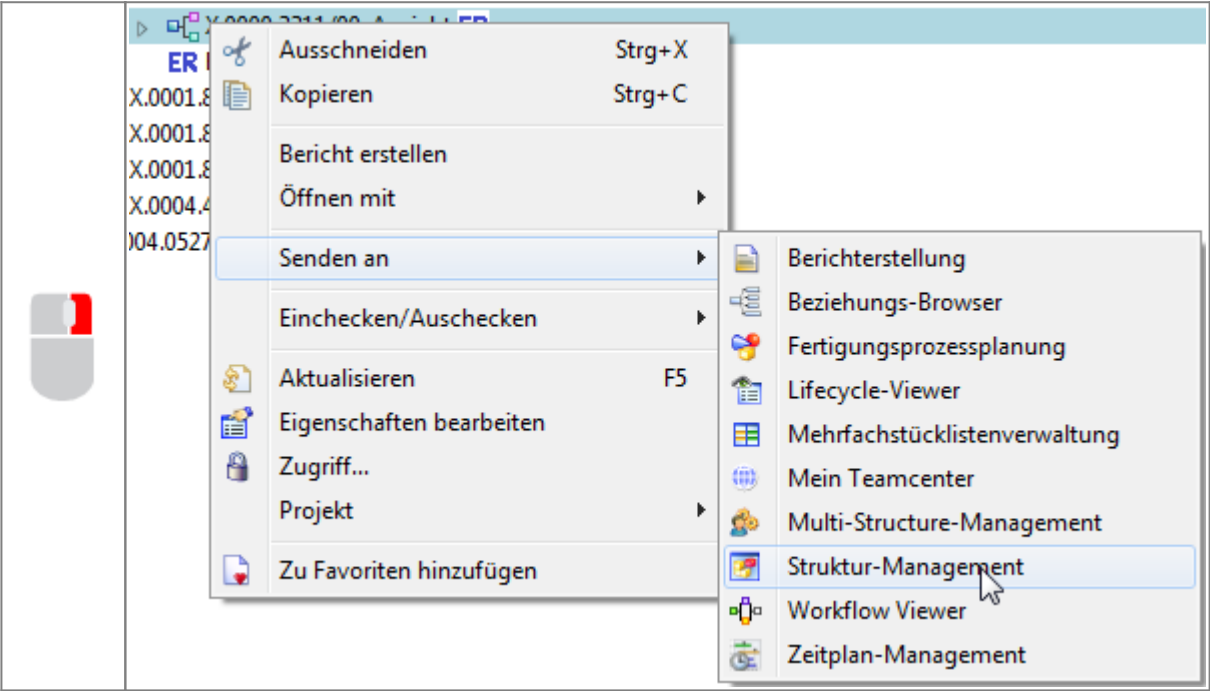


To open an existing BOM view revision status (*BVR = BOM View Revision*) in the Structure Manager, use one of the following options:

- **Double click** on the parts list view (View)



- **Right mouse button** on selected item / item revision or view → **Send to** → **structure management**



5.1.3 Overview of the UI

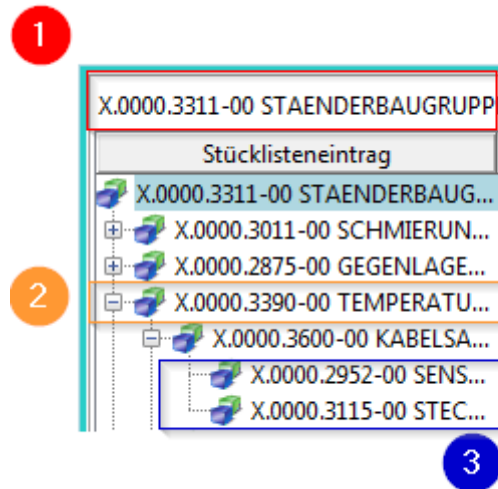
X.0000.3311-00 STAENDERBAUGRUPPE (Ansicht) - Latest Working - Datum - "Heute"

Stücklisteneintrag	Regel konfigurie...	Elementänderungsstatus	
X.0000.3311-00 STAEND...	ER		
X.0000.3011-00 SCH...	Hat Status(Beliebig...	ER	10
X.0000.2875-00 GEG...	Hat Status(Beliebig...	ER	20
X.0000.3390-00 TEM...	Hat Status(Beliebig...	ER	30
X.0000.3600-00 K...	Hat Status(Beliebig...	ER	10
X.0000.2952-...	Hat Status(Beliebig...	ER	10
X.0000.3115-...	Hat Status(Beliebig...	ER	20

1.

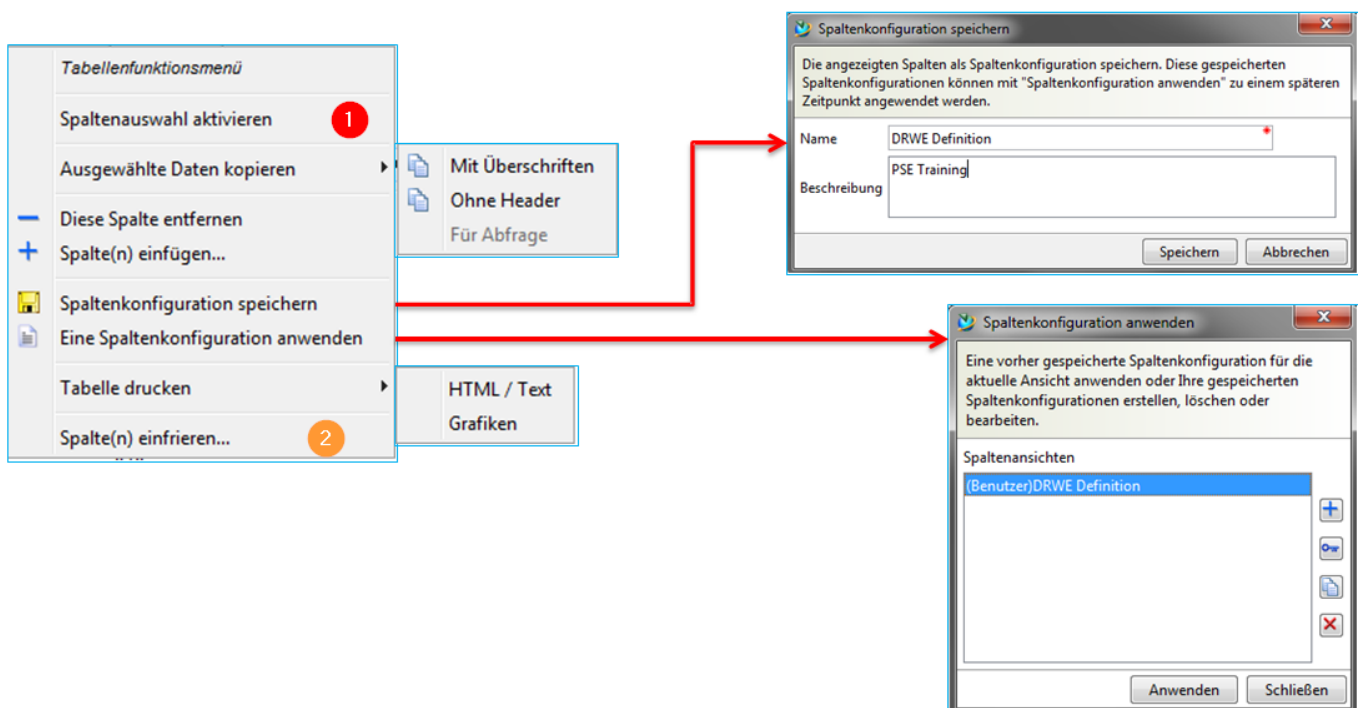
Display of the assembly structure in the form of expandable tree diagrams in list form
Display of the columns can be configured as desired.
2.
3.

Usually corresponds to the design structure coming from the CAD → However, components without geometry (additive, auxiliary materials, ...) can also be stored here



- | | |
|----|------------------|
| 1. | Modified? YES/NO |
| 2. | subassembly |
| 3. | Component |

5.1.4. Anpassen der Oberfläche



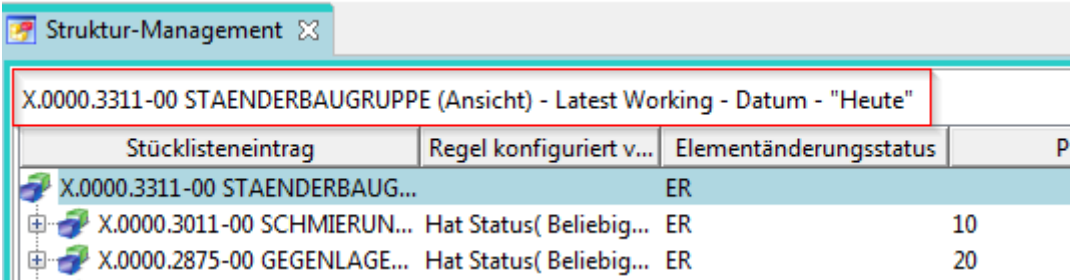
- | | |
|----|--|
| 1. | Switch between column and row selection |
| 2. | Freeze desired columns while scrolling. Same column function as in MS Excel. |

5.2 Introduction to the Structure Manager

5.2.1. change status rule

For each BOM entry in the structure, this configuration method determines the change status of the associated element, which is configured according to the change status attributes - for example, **release status, validity, or owner**. When you open a structure in the Structure Manager, a change status rule is always active. This rule consists of various parameters, which Teamcenter uses for

evaluation. According to the criteria defined in the change status rule, an available change status is provided for each element in the structure. If no change statuses are found, the Structure Manager displays three question marks ??? for the corresponding entry and the structure cannot be extended beyond this point.



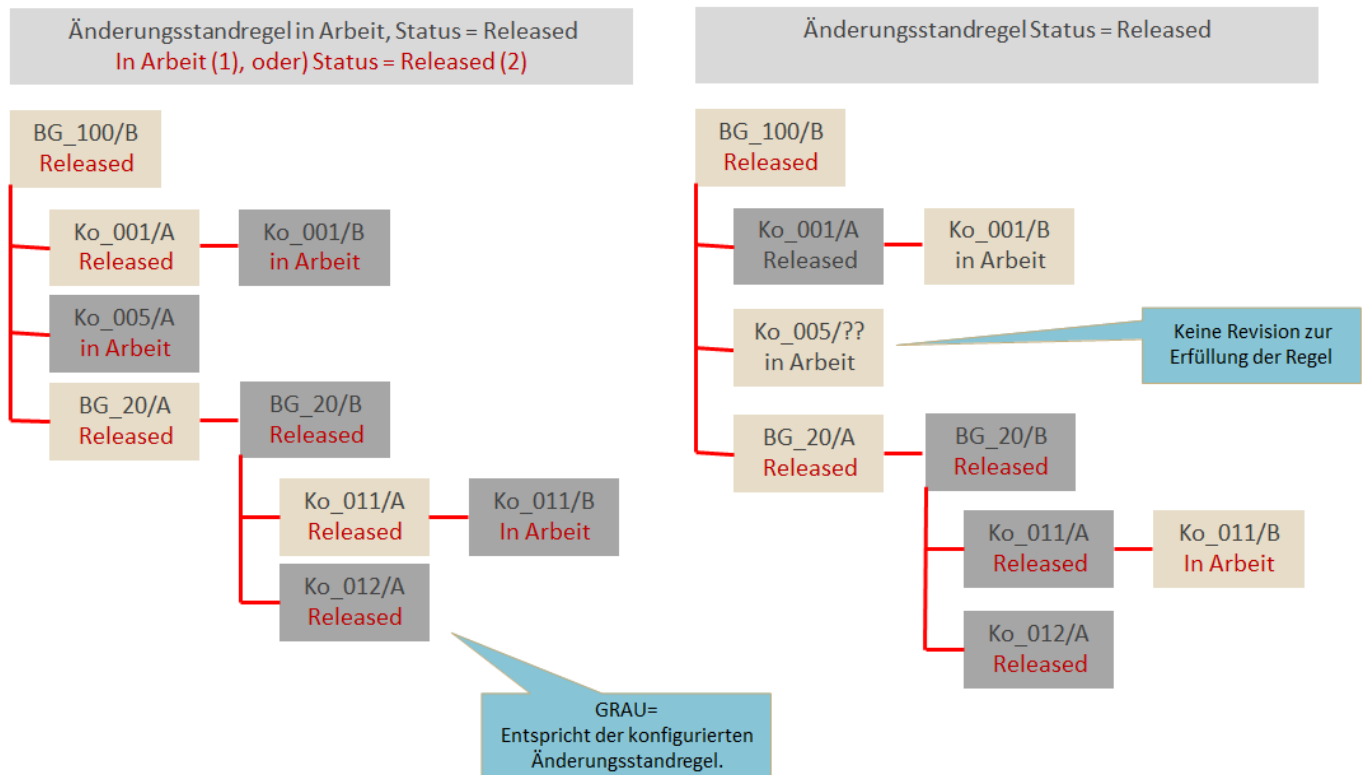
Komponente	Änderungsstand	Status	Laderegeln
	Revision 1	Gesperrt	Alter Stand
Komponente	Revision 2	Produktiv	Aktueller Stand
	Revision 3		Zukünftig. Stand

Assembly structures can be changed in the Structure Manager to

- specific times
- with certain characteristics

can be considered at any time.

Future developments can also be taken into account by indicating new revisions that are still in progress.



When you open a structure in the Structure Manager, **always** a change status rule is active. To apply a change status rule to the current product structure, use the icon in the toolbar or call the following menu function → **Tools → Change status rule**.

5.2.2. precise / imprecise assembly structures

The Structure Manager allows you to create and manage the following assembly accuracies:

Imprecise assemblies → are dynamic element structures

An imprecise assembly contains links (items) to parts of its component.

With imprecise assemblies you can see the product structure (BOM) that is configured with the relevant element change statuses. The change status rule selected for the window is taken into account.

Precise assemblies → are fixed structures of specific part change states

A precise assembly contains links (items) to elementary change states of its component. If you change a component to a new change status, you must update the assembly manually so that the old change status of the component is removed and the new change status is added.

[In the future, FFG will work with imprecise assembly structures]



- | | |
|---------------------|--|
| 1. Precise | = there are only Revisionen built in |
| 2. | New revisions have no effect on the defined assembly → must always be updated manually |
| 3. Imprecise | = Components are installed as Item |
| 4. | New revisions are automatically integrated. |

Precise assemblies are helpful in the case of prescribed, so-called revision control, such as in the case of safety-relevant or documentation-obligatory products. Changes to approved precision assemblies always result in a revision of the entire assembly.

5.3 Working with the Structure Manager

5.3.1. creating a structure

You can create the product structure manually in Teamcenter, import it from the CAD system or clone an existing structure to use it as a basis for a structure. Generally, assemblies are created in the MCAD system and transferred to Teamcenter.

Create an assembly in Teamcenter Structure Manager:

- | | |
|----|--|
| a. | |
| b. | Send an existing item revision in the context menu with → Send to → Structure Management .
Now the components can be added. |

In both cases, a BOM view is automatically assigned to the revision, following the change status rule.

The designer creates his assembly in the integrated CAD system and saves it in Teamcenter. This means that all modifications in the native CAD design are automatically saved and synchronized in Teamcenter.

5.3.2. create a structure object

Create a new BOM view change status directly on a previously selected item revision in the menu **File** → **New** → **BOM view change status** or CTRL+B.

Neuer Änderungsstand der Stücklistenansicht

MEProcess

MESetup

Erstellen neuer Änderungsstand der SLA für:

Element-ID / Änderungsstand-ID - Name

X.0000.3091 / 00 - ABSTECKBOLZEN

Erstellt als: ☐ Präzise ☒ Unpräzise

Die Liste der Ansichtstypen zeigt all verfügbaren Ansichtstypen auf Grundlage der eingegebenen Element- und Änderungsstand-IDs an. Wenn eine beliebige ID ungültig ist oder alle Ansichtstypen verwendet werden, ist die Liste der Ansichtstypen leer. Sie können eine andere ID eingeben wodurch die verfügbaren Ansichtstypen ermittelt und angezeigt werden.

Mehr...

☒ Beim Erstellen öffnen

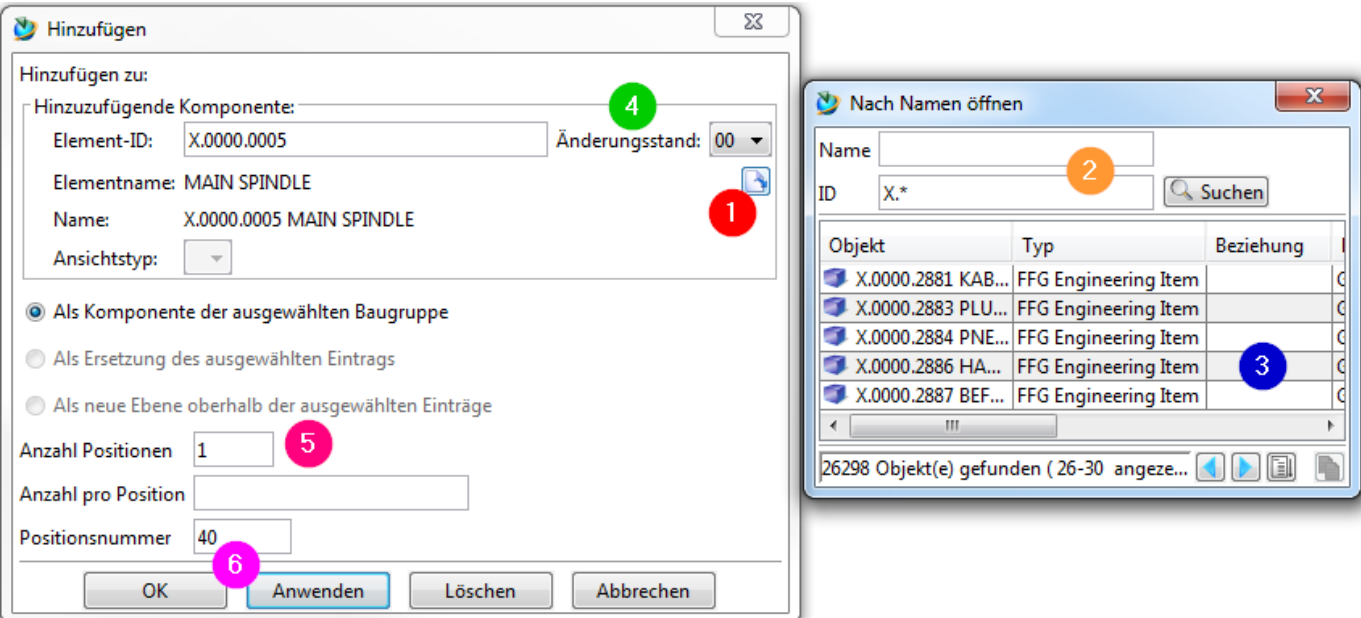
OK Anwenden Abbrechen

View Type	An attribute of a BOM view change state that indicates its purpose (such as design, manufacturing). The administrator can define any number of view types.
Change Status	Element ID and Change Status ID
precision option	Definition of a precise or imprecise structure

5.3.3 Creating components

Once the assembly structure is created, the component can be added using various approaches.

1.	Create item with File → New → Item
2.	Copy / Paste method: a.) Copy the component (or subassembly) to „My Teamcenter“ (CTRL+C) b.) Switch to the Structure Manager c.) Select the line under which the component is to be inserted d.) Paste with (CTRL+V)
3.	Quickly add components from the status bar Menu → Edit → Add

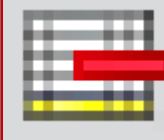


- | | |
|----|---|
| 1. | Open object by name |
| 2. | Search Item-ID |
| 3. | Open the corresponding item with a double click |
| 4. | Select desired change status |
| 5. | Define number of positions |
| 6. | Assign position number |

5.3.4 Changing and deleting components



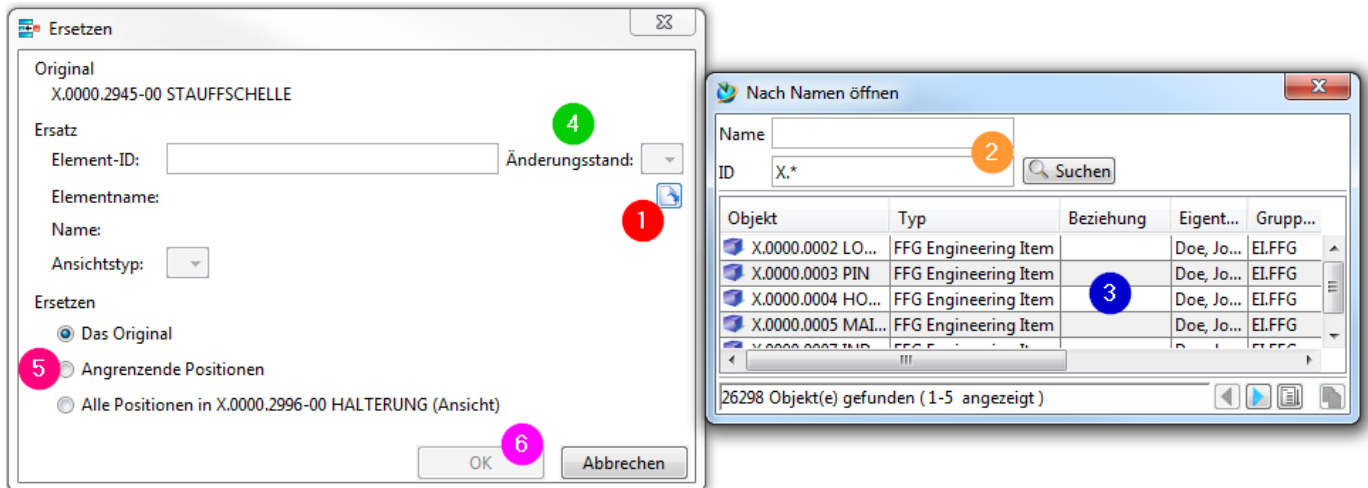
Delete Component
Removes the selected component **and deletes** the item from the database irretrievably!



The selected component is removed
This action only affects the removal of the component from the assembly structure. The data record of the component is retained.

5.3.5 Replacing components

- | | |
|----|---|
| 1. | Menu item → Edit → Replace (without...) |
| | The selected component is immediately replaced with the one from the clipboard. |
| 2. | Menu item → Edit → Replace |
| | A selection dialog appears in which the element ID of the replacing component can be entered. If the replacing component is contained in the clipboard, the fields for the element ID and change status are already filled in. You can change the ID if necessary, but not the part name; the part name is derived from the part ID entered |



1. Open object by name
2. Search Item-ID
3. Open the corresponding item with a double click
4. Select desired change status
5. Define replacing object
6. Confirm process

5.3.6. item numbers and quantities

An adjustment of the position numbers (also Search Number / Find No.) causes an update of the display sequence of the BOM structure.

Stücklisteneintrag	Regel konfiguriert v...	Elementänderungsstatus	Pos.	Menge	Maßeinheit
X.0000.2996-00 HALTERUNG (An...		ER			
X.0000.3091-00 ABSTECKBOL...	Hat Status(Beliebig...	ER	10		jede
X.0000.2927-00	Hat Status(Beliebig...	ER	20		jede
X.0000.2945-00 STAUFFSCHE...	Hat Status(Beliebig...	ER	30		jede

If no special unit of measurement is defined in the item, the system uses the unit of measure Every/Each. In the system, the default entry **Each** is configured to **Piece**. The specified value must be an **integer**.

A unit of measure at the item (not in the structure) cannot be changed afterwards, as long as this is built into a structure!

The Quantity column is the total quantity represented by the item, which is greater than one if the item is compressed or if the component serves as a collective item.

5.3.7. packed display of lines

Stücklisteneintrag

000008/A;1-BG (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000011/A;1-Komp2

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

Select the lines that you want to pack or unpack.
The item number (search number) must be identical for all components.



Perform packing / Unpack selected lines

Stücklisteneintrag

000008/A;1-BG (Ansicht)

+

000012/A;1-Komp3 (Ansicht) x 2

+

000012/A;1-Komp3 (Ansicht) x 2

+

000012/A;1-Komp3 (Ansicht) x 2

+

000012/A;1-Komp3 (Ansicht) x 2

+

000011/A;1-Komp2

+

000012/A;1-Komp3 (Ansicht) x 2

+

000012/A;1-Komp3 (Ansicht)

+

000012/A;1-Komp3 (Ansicht)

Result

5.3.8. forced components

CAD components which are positioned in the CAD system with an assembly constraint are marked with a corresponding icon in the Structure Management and receive the attribute Position constrained = TRUE in the structure component properties.

Stücklisteneintrag	Regel konfiguriert v...	Elementänderungsstatus	Pos.	Menge	Maßeinheit	Position zwangsbedingt
X.0001.8631-00 MULTI SPINDLE HEAD (Ansicht)						Falsch
X.0001.8637-00 ABSTECKBOLZEN (Ansicht)	In Arbeit()		10	jede		Falsch
X.0001.8644-00 ZYLINDERSCHRAUBE	In Arbeit()		10	jede		Wahr
X.0001.8639-00	In Arbeit()		20	jede		Wahr
X.0001.8644-00 ZYLINDERSCHRAUBE	In Arbeit()		30	jede		Wahr
X.0001.8644-00 ZYLINDERSCHRAUBE	In Arbeit()		40	jede		Wahr
X.0001.8644-00 ZYLINDERSCHRAUBE	In Arbeit()		50	jede		Wahr
X.0001.8638-00	In Arbeit()		60	jede		Wahr
X.0001.8637-00 ABSTECKBOLZEN (Ansicht)	In Arbeit()		20	jede		Falsch
X.0001.8644-00 ZYLINDERSCHRAUBE	In Arbeit()		10	jede		Wahr
X.0001.8639-00	In Arbeit()		20	jede		Wahr

5.3.9. arrangements

In CAD, you can define arrangements to determine alternative items for components in the assembly and save these alternatives with the assembly. For example, the assembly of a machine can have several arrangements if individual components are to represent different usage positions of the machine.

The position of certain components is overwritten accordingly. You can also suppress components in a particular arrangement, for example, to hide ejectors. If you manage an assembly with arrangements in Teamcenter, each component in CAD has a corresponding position in Teamcenter and each overwriting or suppression has a corresponding absolute position.

If the structure contains orders, permanent transformations are applied to all orders by default.

5.3.10. Structural component properties

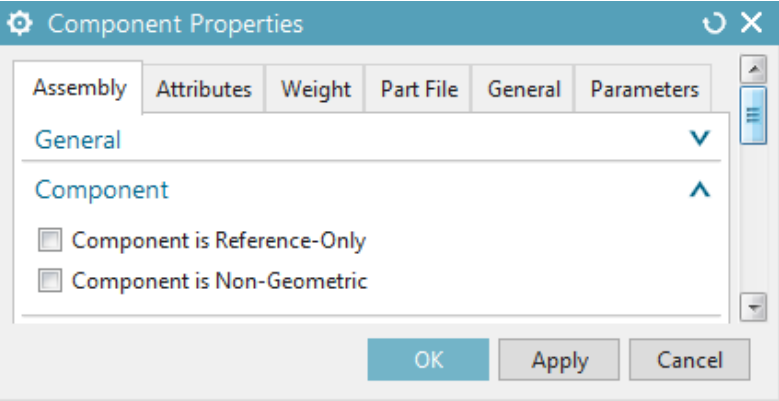
You can add non-geometric components to assemblies in the MCAD system or in Structure Management. These do not have geometry for display in the graphics window of the CAD system. Examples of non-geometric components are

- Lacquer
- Adhesive
- Lubricants
- Hydraulic fluids
- Instruction leaflet

A component used only as reference is removed from the parts list of its parent component in the MCAD system and from the view of its parent component in Teamcenter Structure Manager. Examples for reference components are

- Auxiliary or dummy parts
- Supplied or purchased parts whose structure is used in CAD, but is purchased as a complete part. Therefore, only one item should appear in the BOM.

In the CAD system NX the properties of the corresponding components can be defined. A multiple selection is possible.

	Right click on desired part → Properties				
					
	Component serves exclusively as reference				
	<table border="1"> <tr> <td>☒ X.0001.8644-00 ZYLINDERSCHRAUBE</td> <td>X.0001.8644</td> <td>00</td> <td> ZYLINDERSCHRAUBE</td> </tr> </table>	☒ X.0001.8644-00 ZYLINDERSCHRAUBE	X.0001.8644	00	 ZYLINDERSCHRAUBE
☒ X.0001.8644-00 ZYLINDERSCHRAUBE	X.0001.8644	00	 ZYLINDERSCHRAUBE		
	Component is not geometric				
	<table border="1"> <tr> <td> X.0001.8642-00</td> <td>X.0001.8642</td> <td>00</td> </tr> </table>	 X.0001.8642-00	X.0001.8642	00	
 X.0001.8642-00	X.0001.8642	00			

In Teamcenter Structure Manager the reference components are not displayed. Of course, this also applies to the components suppressed in the MCAD system.

The non-geometric components get the attribute UG-Geometry=NO and are marked with a special icon. Components with a UOM <> each (each)/piece are automatically loaded into the CAD as reference components.

If a sub-assembly is marked as non-geometric, all underlying components are not loaded into NX either.

Stücklisteneintrag	GEOMETRIE
X.0001.8631-00 MULTI SPINDLE HEAD MEHRSPINDELKO...	
X.0001.8637-00 ABSTECKBOLZEN (Ansicht)	
X.0001.8637-00 ABSTECKBOLZEN (Ansicht)	
X.0001.8642-00 (Ansicht)	NO
X.0001.8641-00 VERTEILER	
X.0001.8646-00	
X.0001.8646-00	
X.0001.8640-00 Y-SCHLITTEN	
X.0001.8630-00 VERTEILER	
X.0001.8646-00	
X.0001.8646-00	
X.0001.8633-00 (Ansicht)	

Altrep (alternative representations) can be used to define different physical configurations or shapes of a flexible part (for example, a tube or hose).

In Teamcenter Structure Manager, alternative representations of components are defined and displayed using the column UG ALTREP.

Struktur-Management							
I000007/A;1-Base Assembly (Ansicht) - Latest Working - Datum - "Heute"							
Stücklisteneintrag	Elementtyp	Regel konfiguriert von	Pos.	Element...	UG-GEOMETRIE	UG ALTREP	
I000007/A;1-Base Assembly (Ansicht)	Element						
I000004/A;1-Lower Base	Element	In Arbeit()	10			I000004-A_A01	
I000005/B;1-Mid Base	Element	In Arbeit()	20				
I000006/B;1-Upper Base	Element	In Arbeit()	30				
I000008/A;1-Assembly instruction	Element	Hat Status(Beliebiger Fr...	40	30	NO		
I000010/A;2-E-Assy F63v (Ansicht)	Element	In Arbeit()	50				

5.3.11. Capturing configurations

Teamcenter has, among others, the following formats for permanently recording the configuration of a structure.

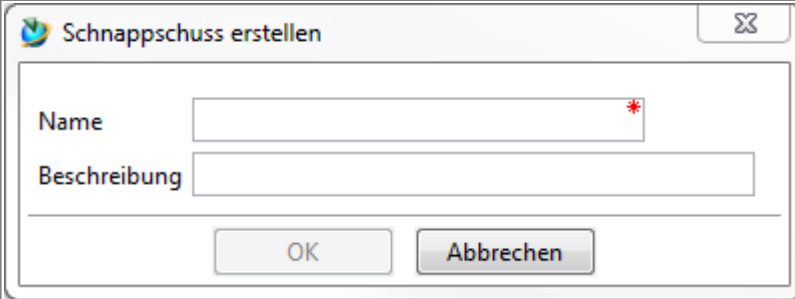
5.3.11.1. Snapshot

A snapshot is a workspace folder that stores a reference to all element change states **contained in a** configured structure.

You can use a snapshot to save the product structure with a particular configuration and implemented change state rules and display it again at a later time by sending the snapshot folder to the Structure Manager. However, all change statuses that have not been released can be changed, such as linked data and CAD models.

For this reason, it makes sense to create snapshots only of completely released product structures!

5.3.11.2. Snapshot manuell erstellen

1.	Configure the structure to be saved by applying the corresponding change status rule.
2.	Create via → File → New → Snapshot
	
3.	A new folder (type Snapshot) with the referenced snapshot data is stored in the folder „Newstuff“.
4.	It is recommended to attach the snapshot to an element change status. a.) Copy the snapshot folder to the clipboard b.) Select the element modification state and choose → Edit → Insert content c.) Select the type 2D snapshot and confirm the dialog
	You open a snapshot by simply sending it to the Structure Manager.

5.3.11.3. Baseline

Baselines correspond approximately to a development status documentation, which contains a copy of the entire „in progress“ data for the structure.

With a baseline, Teamcenter creates a new dataset and attaches a copy of the configured structure to it. Teamcenter creates a new change status in the structure for each unreleased change status and releases it with a predefined status, for example with the status Baseline. A baseline change state rule is then applied to the base configuration (for example to change states with the status Production) and all new change states created by „Baseline“ are also added. This procedure configures a fully released structure and thus ensures that the models are always the same at the time of baseline creation.

Create baselines sparingly, as each baseline creates a fully released structure and thus (possibly) many new element change states and copies of the linked data and CAD models are created!

5.4. comparison of product structures

5.4.1. basics

With the command „**Compare**“ you can display and compare the structural differences. The comparison is performed on the extended structure and you can select the areas of the structure to be compared. You can define the **change status rule** and the **variant rule** separately for each structure, allowing **different configurations** to be compared.

The comparison determines the differences in number and change status in three modes:

1.	Single-level
----	---------------------

	Compares only the first level of product structures.
2.	Multilevel
	Performs a one-step comparison at the top level and then performs further one-step comparisons on the subassemblies that occur in the two product structures.
3.	Low level only
	Compares only the parts at the lowest level in the product structure, ignoring any assemblies that exist above it in the meantime. This is useful for checking whether individual parts are consistent.

5.4.2. procedure

You can use these comparisons

- Detect component differences between assemblies
- Perform consistency check between multiple views of the same part
- Determine differences between different configured structures

preparation:

1.	Load the first module as usual
2.	Splitting windows
	
3.	Possibly click on the empty window to set it to active
4.	Load a second assembly from My Teamcenter
	Send to → Structure Manager
5.	Menu item → Tools → Compare

An example of a single-level comparison with a BOM comparison report:

Element-ID	Elementname	Pos.	Änderungsstand	Anz	Mehrfeldschlüssel-Informationen für Element
X.0001.8637	ABSTECKBOLZEN	10	00->()	1->0	,=item_id=X.0001.8637,object_type...
X.0004.7680	ABSTECKBOLZEN	10	()->00	0->1	,=item_id=X.0004.7680,object_type...
X.0001.8637	ABSTECKBOLZEN	20	00->()	1->0	,=item_id=X.0001.8637,object_type...
X.0004.7680	ABSTECKBOLZEN	20	()->00	0->1	,=item_id=X.0004.7680,object_type...
X.0001.8642	X.0001.8642	30	00->()	1->0	,=item_id=X.0001.8642,object_type...
X.0004.7684	X.0001.8642	30	()->00	0->1	,=item_id=X.0004.7684,object_type...

At the end the comparison can be removed again in the menu → Tools → Delete comparison.

5.5 Working with "auxiliary parts" and non-geometric parts

5.5.1 Overview

This specification provides for a single integrated structure, i.e. both the **„design view“** and the **„production view“** must be able to be mapped consistently in this structure.

An essential aspect of this concept is the fact that in the previous PLM system Agile there is a separate design structure **„document structure“** and a product structure **„article structure“** and these must be merged into an integrated overall structure.

The differences in the use of the components are called **„non-geometric parts“** and **„auxiliary parts“**.

5.5.2 Non-geometric parts

Non-geometric parts are those that are not included in the design structure, but are nevertheless procured via the product structure. Examples are glue, oil, or text items.

The CAD system NX is inherently capable of hiding parts without geometry or marking them as „non-geometric“. For this purpose, the Occurrence-Note **„UG GEOMETRY“** is set to the value **„NO“** at a revision in the BOMLine.

Example: The following assembly contains non-geometric parts (*GEOMETRY=NO*).

Struktur-Management			
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHTUNG (Ansicht) - Latest Working - Datum - "Heute"			
Stücklisteneintrag	GEOMETRIE	SAP Transfer ▾	Pos.
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHT...			
X.0000.2057-00 SWIVELLING CLAMP CYL. SCHWEN...	N		10
X.0000.2058-00 CLAMPING IRON SPANNEISEN	N		10
X.0000.2059-00 HOUSING GEHAEUSE	N		20
G.9000.0000-00	NO		5
X.0000.2060-00 BASE PLATE GRUNDPLATTE			20
X.0000.2061-00 BRIDGE BRUECKE			30
X.0000.2062-00 INDEX INDEX			40
X.0000.2063-00 BRIDGE BRUECKE			50
X.0000.2064-00 WORKPIECE WERKSTUECK			60
X.0000.2065-00 INDEX INDEX			70
X.0000.2066-00 PAD AUFLAGE			80
X.0000.2067-00 SUB. DET. F. WELDMENT HILFSTEIL NO			90
X.0000.2058-00 CLAMPING IRON SPANNEISEN	NO		100
X.0000.2059-00 HOUSING GEHAEUSE	NO		110

The representation in NX looks as follows:

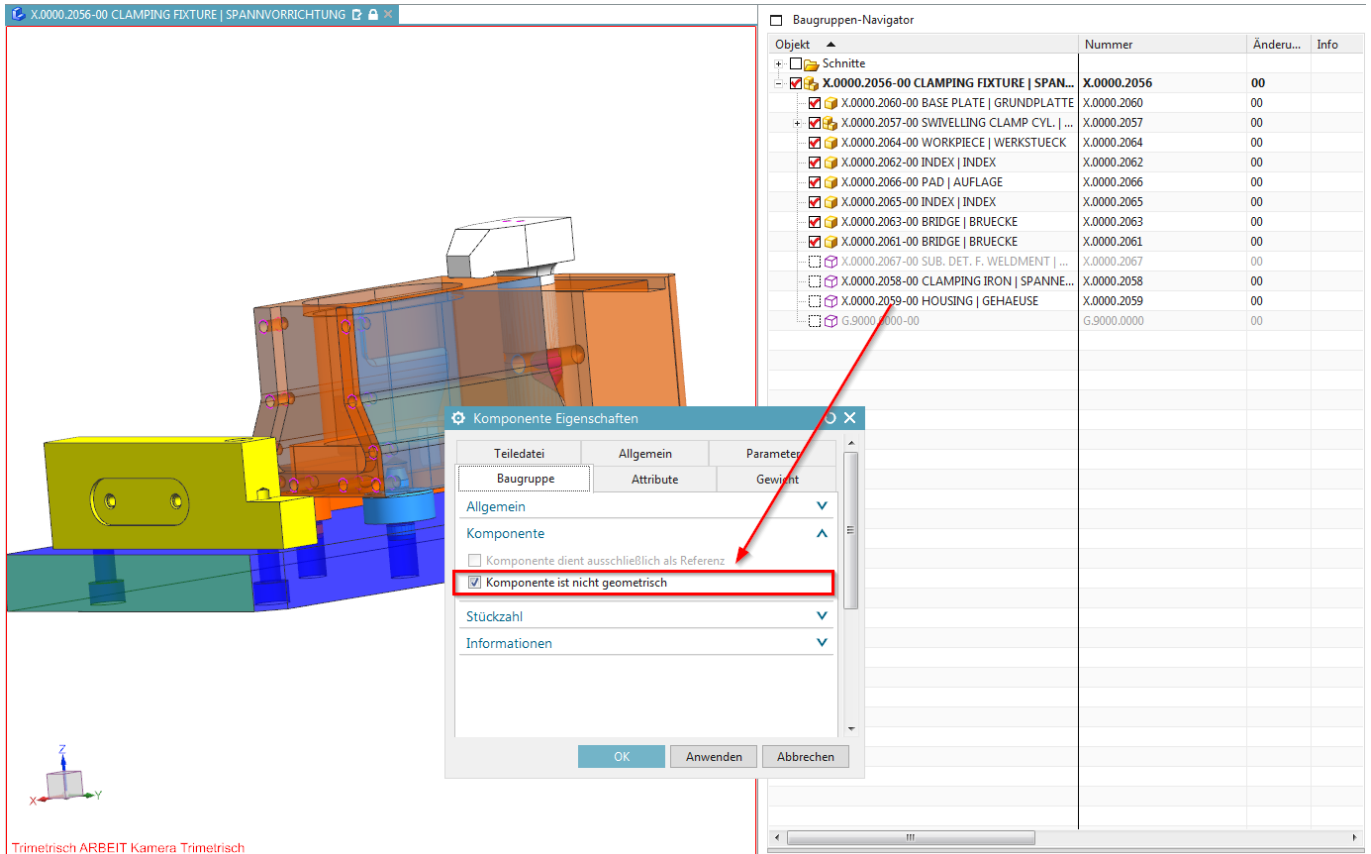
X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG

Baugruppen-Navigator

Objekt	Nummer	Änderu...
+	X.0000.2056-00 CLAMPING FIXTURE SPAN...	X.0000.2056 00
+	X.0000.2060-00 BASE PLATE GRUNDPLATTE	X.0000.2060 00
+	X.0000.2057-00 SWIVELLING CLAMP CYL. ...	X.0000.2057 00
+	X.0000.2064-00 WORKPIECE WERKSTUECK	X.0000.2064 00
+	X.0000.2062-00 INDEX INDEX	X.0000.2062 00
+	X.0000.2066-00 PAD AUFLAGE	X.0000.2066 00
+	X.0000.2065-00 INDEX INDEX	X.0000.2065 00
+	X.0000.2063-00 BRIDGE BRUECKE	X.0000.2063 00
+	X.0000.2061-00 BRIDGE BRUECKE	X.0000.2061 00
+	X.0000.2067-00 SUB. DET. F. WELDMENT ...	X.0000.2067 00
+	X.0000.2058-00 CLAMPING IRON SPANNE...	X.0000.2058 00
+	X.0000.2059-00 HOUSING GEHAEUSE	X.0000.2059 00
+	G.9000.0000-00	G.9000.0000 00

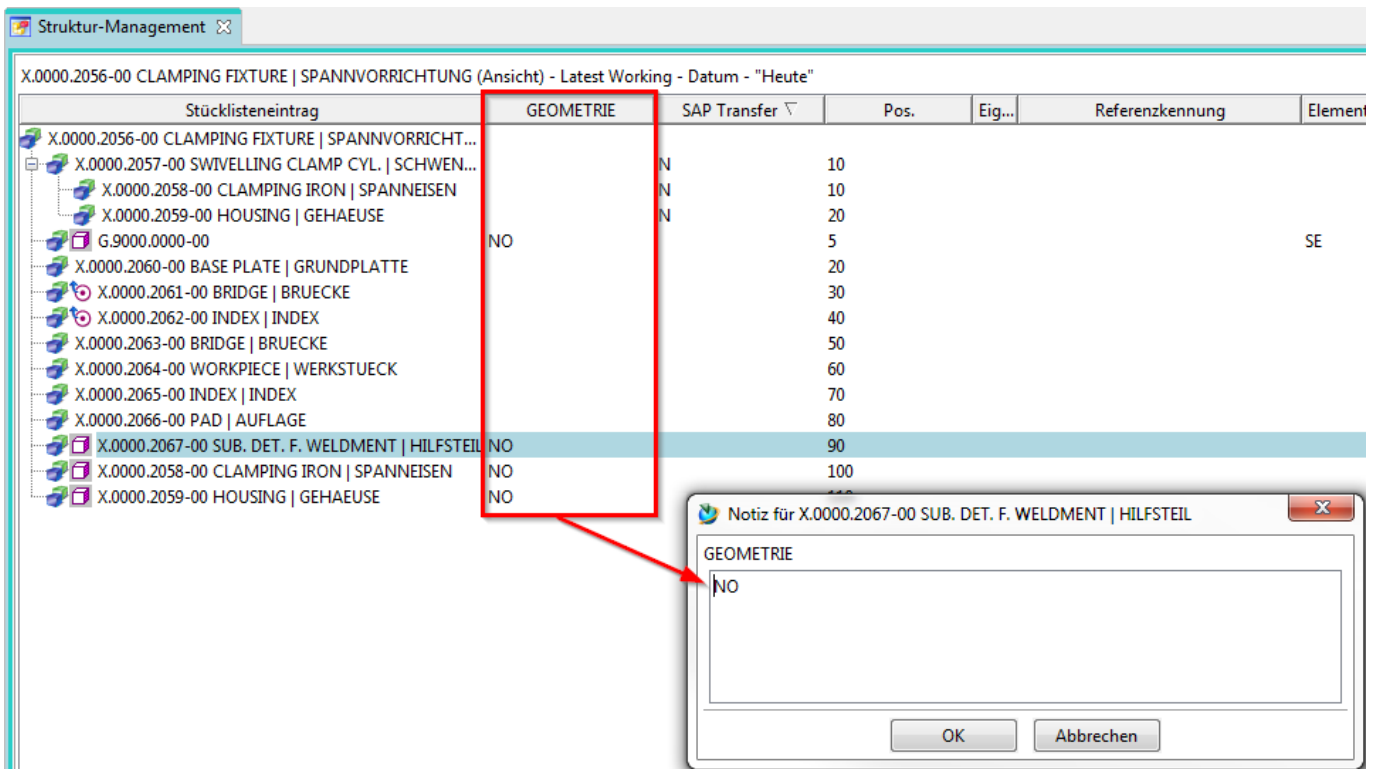
5.5.2.1 Setting non-geometric components in NX

In NX a component can be marked as non-geometric via RMB → Properties → „**Component is Non-Geometric**“.



5.5.2.2 Setting non-geometric components in Teamcenter

In Teamcenter a component can be set to non-geometric in the Structure Manager by setting the Occurrence Note „**GEOMETRY**“ to „**NO**“.

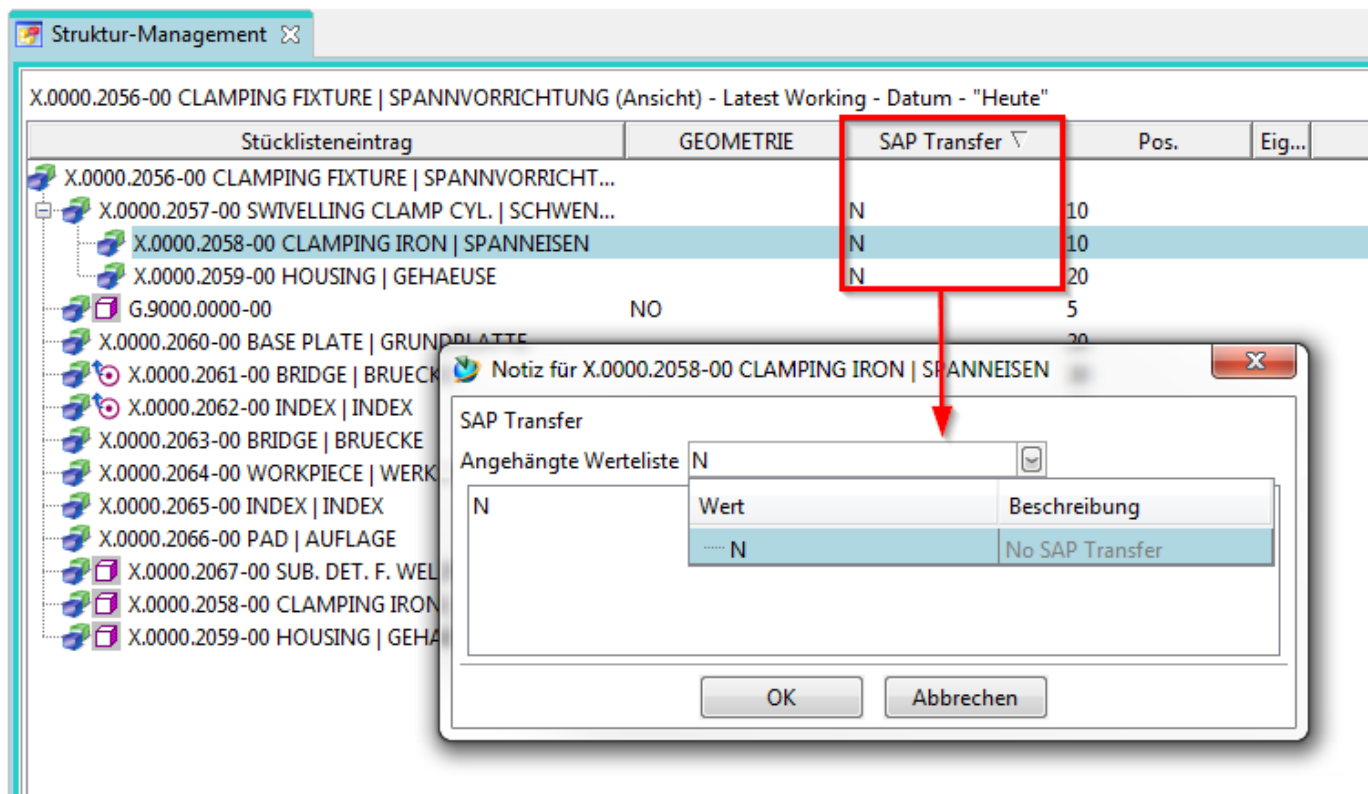


5.5.3 "Auxiliary parts"

An „auxiliary part „ is a part in a bill of material that is not to be transferred to the ERP system (SAP). Usually, such parts are used to group parts together or they are built into the structure for functional reasons. In general, these parts have geometry, i.e. they are displayed in the CAD system and used in the CAD structure. By default, Teamcenter/NX does not offer the possibility to mark such parts as „non ERP-relevant“. Therefore, the Occurrence-Note „FFG4occSAPTransfer“ is introduced, which makes it clear to the SAP interface whether this node (component or whole sub-assembly) should be filtered out during the SAP transfer.

5.5.3.1 Logic for the SAP transfer

If the value „N“ is set, the corresponding node is not transferred, that is, the entire branch is filtered out, regardless of whether the nodes below it have set the SAP transfer flag or not. If the flag has no value, the node is transferred to SAP.



5.5.3.2 Marking "Auxiliary parts" in Teamcenter

In Structure Manager you can edit the value of the Occurrence Note by double-clicking on the corresponding column. Possible values are „N“ or an empty field.

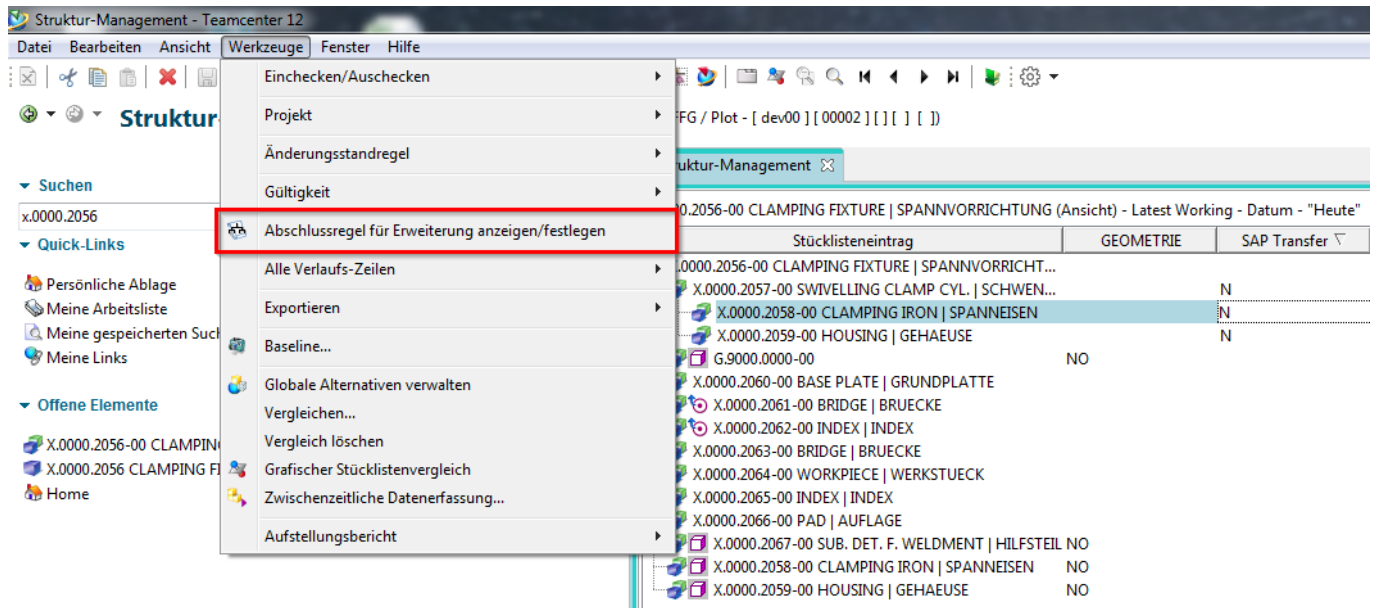
5.5.4 Display in the Structure Manager

In the Structure Manager, a structure can be filtered according to criteria. **ClosureRules** are used for filtering. In the preference **ClosureRulesForBomExpansion** those **ClosureRules** are defined, which can be used in the Structure Manager to display the structure. The structure itself is not changed.

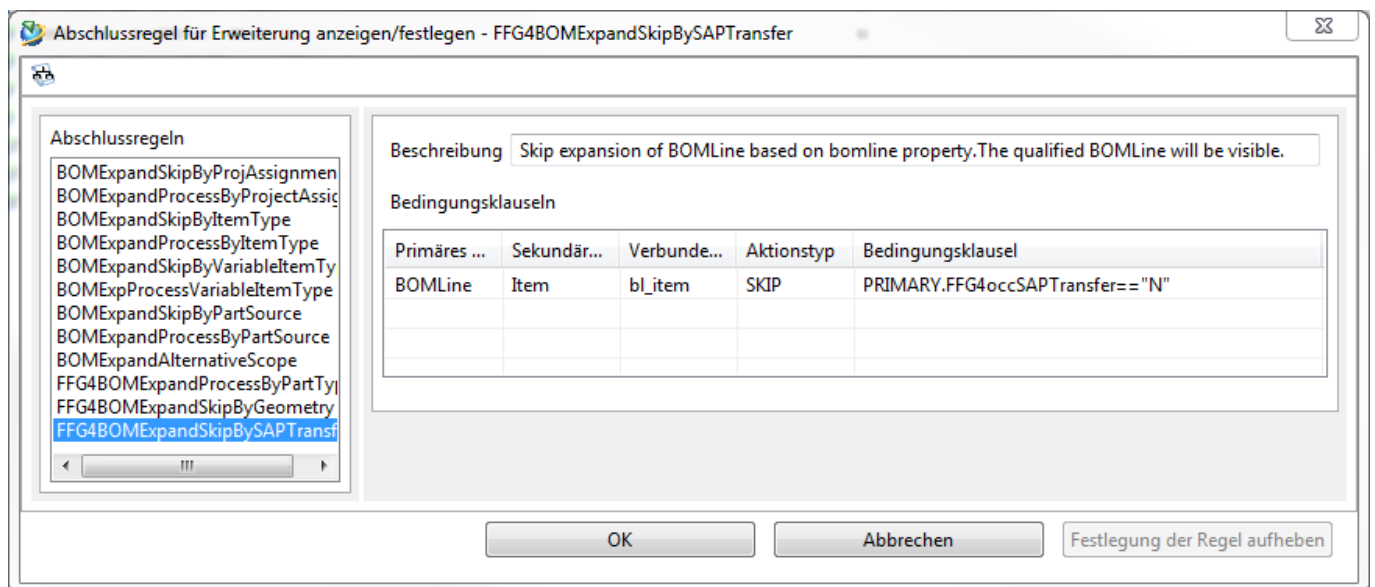
5.5.4.1 Setting the view via the Closure Rule

A view in the Structure Manager can be set as follows: Tools → „Set/display closing rule for

enhancements „



The dialog for the closing rules opens:



Select the desired rule and confirm it with **OK**.

The view is updated according to the rule.

Struktur-Management					
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHTUNG (Ansicht) - Latest Working - Datum - "Heute" - FFG4BOMExpandSkipBySAPTransfer					
Stücklisteneintrag	GEOMETRIE	SAP Transfer	Pos.	Eig...	Referenzkennung
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHT...					
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHT...			5		
G.9000.0000-00	NO		20		
X.0000.2060-00 BASE PLATE GRUNDPLATTE			30		
X.0000.2061-00 BRIDGE BRUECKE			40		
X.0000.2062-00 INDEX INDEX			50		
X.0000.2063-00 BRIDGE BRUECKE			60		
X.0000.2064-00 WORKPIECE WERKSTUECK			70		
X.0000.2065-00 INDEX INDEX			80		
X.0000.2066-00 PAD AUFLAGE			90		
X.0000.2067-00 SUB. DET. F. WELDMENT HILFSTEIL NO			100		
X.0000.2058-00 CLAMPING IRON SPANNEISEN	NO		110		
X.0000.2059-00 HOUSING GEHAEUSE	NO				

To reset the view, press „Cancel rule definition“ in the previous dialog.

Abschlussregel für Erweiterung anzeigen/festlegen - FFG4BOMExpandSkipBySAPTransfer

Abschlussregeln

BOMExpandSkipByProjAssignmen
BOMExpandProcessByProjectAssig
BOMExpandSkipByItemType
BOMExpandProcessByItemType
BOMExpandSkipByVariableItemTy
BOMExpProcessVariableItemTy
BOMExpandSkipByPartSource
BOMExpandProcessByPartSource
BOMExpandAlternativeScope
FFG4BOMExpandProcessByPartTy
FFG4BOMExpandSkipByGeometry
FFG4BOMExpandSkipBySAPTransf

Beschreibung

Skip expansion of BOMLine based on bomline property.The qualified BOMLine will be visible.

Bedingungsklauseln

Primäres ...	Sekundär...	Verbunde...	Aktionstyp	Bedingungsklausel
BOMLine	Item	bl_item	SKIP	PRIMARY.FFG4occSAPTransfer=="N"

OK

Abbrechen

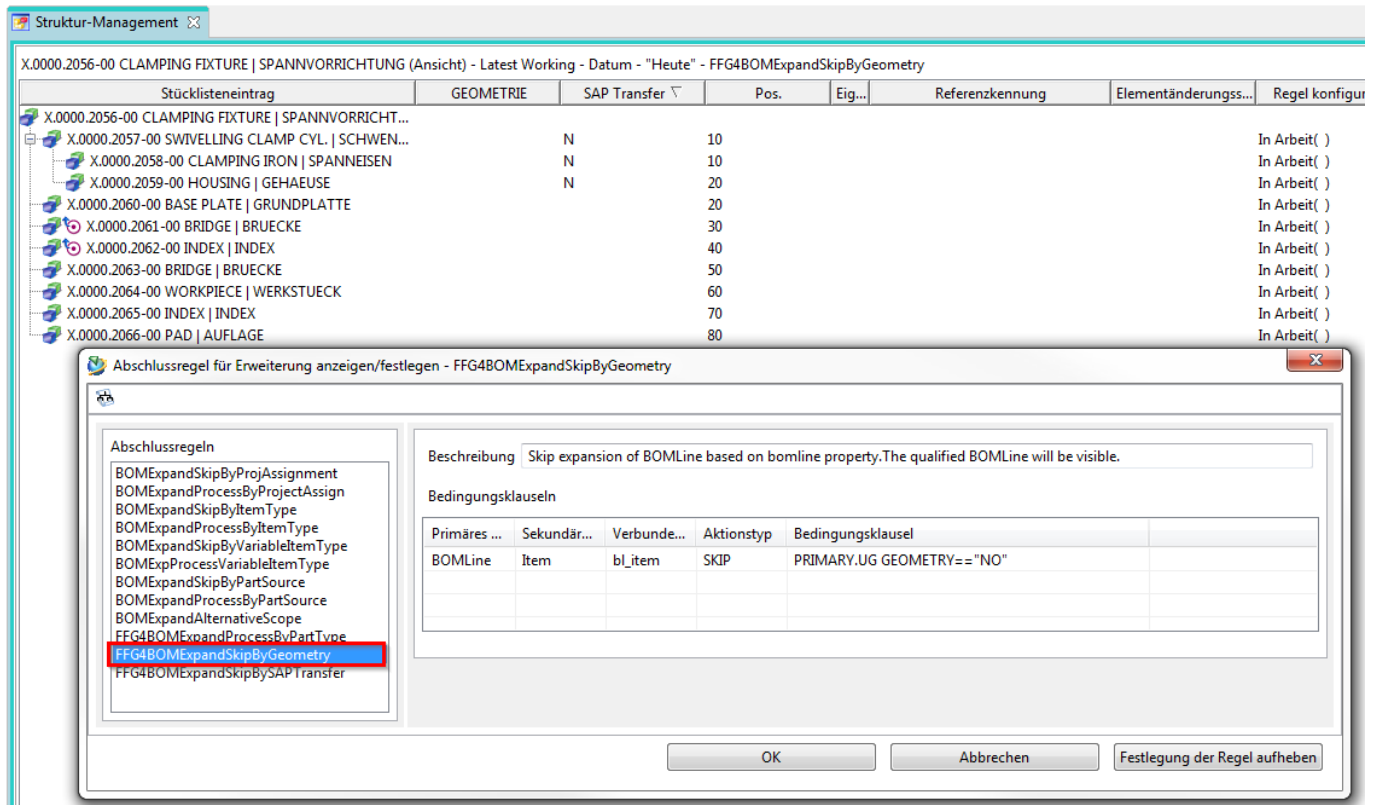
Festlegung der Regel aufheben

5.5.4.2 Examples

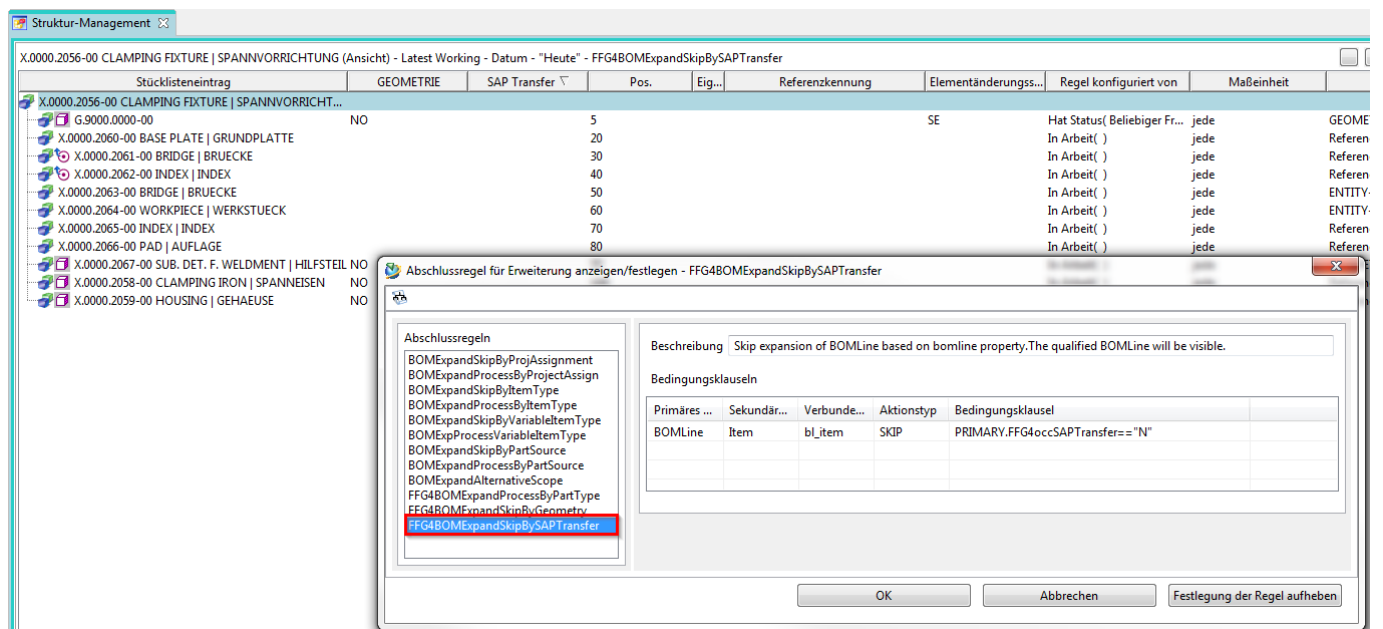
5.5.4.2.1 View of the unfiltered structure

Struktur-Management					
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHTUNG (Ansicht) - Latest Working - Datum - "Heute"					
Stücklisteneintrag	GEOMETRIE	SAP Transfer	Pos.	Eig...	Referenzkennung
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHT...					
X.0000.2057-00 SWIVELLING CLAMP CYL. SCHWEN...		N	10		
X.0000.2058-00 CLAMPING IRON SPANNEISEN		N	10		
X.0000.2059-00 HOUSING GEHAEUSE		N	20		
G.9000.0000-00	NO		5		
X.0000.2060-00 BASE PLATE GRUNDPLATTE			20		
X.0000.2061-00 BRIDGE BRUECKE			30		
X.0000.2062-00 INDEX INDEX			40		
X.0000.2063-00 BRIDGE BRUECKE			50		
X.0000.2064-00 WORKPIECE WERKSTUECK			60		
X.0000.2065-00 INDEX INDEX			70		
X.0000.2066-00 PAD AUFLAGE			80		
X.0000.2067-00 SUB. DET. F. WELDMENT HILFSTEIL NO			90		
X.0000.2058-00 CLAMPING IRON SPANNEISEN	NO		100		
X.0000.2059-00 HOUSING GEHAEUSE	NO		110		

5.5.4.2.2 Design view

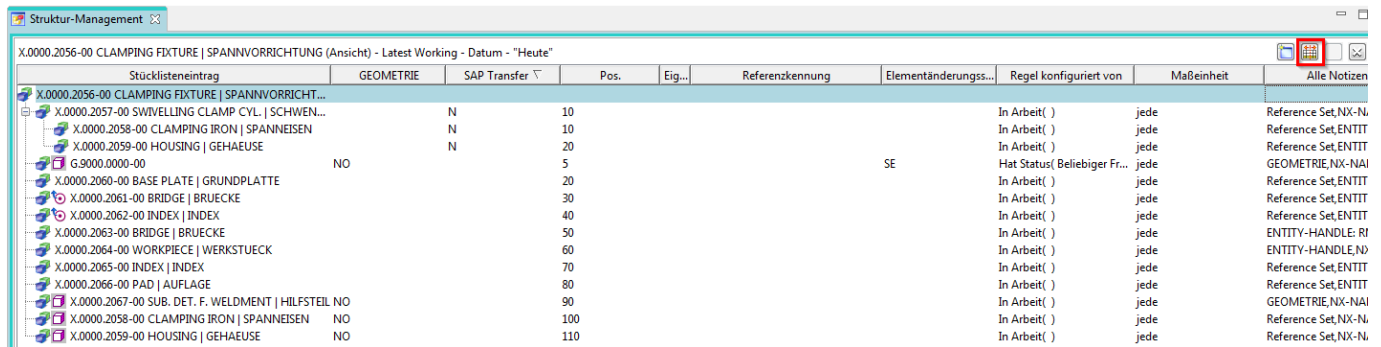


5.5.4.2.3 SAP view



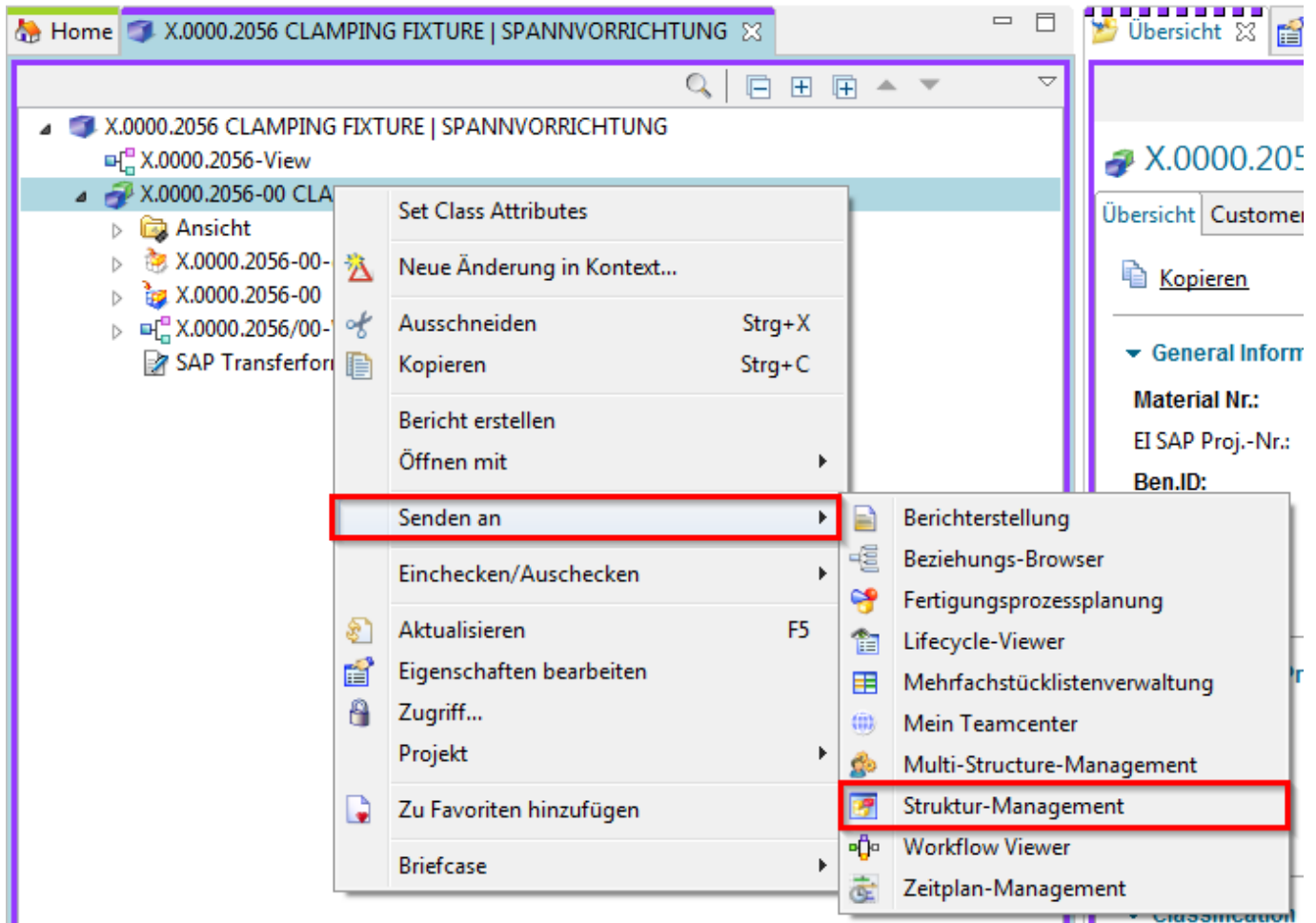
5.5.4.3 Comparison of the views

In the Structure Manager, design and SAP views can be displayed side by side and compared. To do this, first open a new window with the selected button.



Stücklisteneintrag	GEOMETRIE	SAP Transfer	Pos.	Eig...	Referenzkennung	Elementänderungs...	Regel konfiguriert von	Maßeinheit	Alle Notizen
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHTUNG									
X.0000.2057-00 SWIVELLING CLAMP CYL SCHWEN...	N		10				In Arbeit()	jede	Reference Set,NX-N...
X.0000.2058-00 CLAMPING IRON SPANNEISEN	N		10				In Arbeit()	jede	Reference Set,ENTIT
X.0000.2059-00 HOUSING GEHAUSE	N		20				In Arbeit()	jede	Reference Set,ENTIT
G.9000.0000-00			5			SE	Hat Status(Beliebiger Fr...	jede	GEOMETRIE,NX-NAI
X.0000.2060-00 BASE PLATE GRUNDPLATTE	NO		20				In Arbeit()	jede	Reference Set,ENTIT
X.0000.2061-00 BRIDGE BRUECKE			30				In Arbeit()	jede	Reference Set,ENTIT
X.0000.2062-00 INDEX INDEX			40				In Arbeit()	jede	Reference Set,ENTIT
X.0000.2063-00 BRIDGE BRUECKE			50				In Arbeit()	jede	ENTITY-HANDLE,RI
X.0000.2064-00 WORKPIECE WERKSTUECK			60				In Arbeit()	jede	ENTITY-HANDLE,N
X.0000.2065-00 INDEX INDEX			70				In Arbeit()	jede	Reference Set,ENTIT
X.0000.2066-00 PAD AUFLAGE			80				In Arbeit()	jede	Reference Set,ENTIT
X.0000.2067-00 SUB. DET. F. WELDMENT HILFSTEIL NO			90				In Arbeit()	jede	GEOMETRIE,NX-NAI
X.0000.2068-00 CLAMPING IRON SPANNEISEN	NO		100				In Arbeit()	jede	Reference Set,NX-N...
X.0000.2059-00 HOUSING GEHAUSE	NO		110				In Arbeit()	jede	Reference Set,NX-N...

Afterwards the Structure can be opened in the Teamcenter Navigator via **RMT -> „Send to“ -> „Structure Manager „** in this new window.



The comparison can be started via **„Tools“ -> „Comparison... „** **Example:** Comparison of the entire structure with the design structure:

Struktur-Management

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) - Latest Working - D...

Stücklisteneintrag GEOMETRIE SAP Transfer

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHT... N 10

X.0000.2057-00 SWIVELLING CLAMP CYL. | SCHWEN... N 10

X.0000.2058-00 CLAMPING IRON | SPANNEISEN N 10

X.0000.2059-00 HOUSING | GEHAEUSE N 20

G.9000.0000-00 NO 5

X.0000.2060-00 BASE PLATE | GRUNDPLATTE 20

X.0000.2061-00 BRIDGE | BRUECKE 30

X.0000.2062-00 INDEX | INDEX 40

X.0000.2063-00 BRIDGE | BRUECKE 50

X.0000.2064-00 WORKPIECE | WERKSTUECK 60

X.0000.2065-00 INDEX | INDEX 70

X.0000.2066-00 PAD | AUFLAGE 80

X.0000.2067-00 SUB. DET. F. WELDMENT | HILFSTEIL NO 90

X.0000.2058-00 CLAMPING IRON | SPANNEISEN NO 100

X.0000.2059-00 HOUSING | GEHAEUSE NO 110

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) - Latest Working - D...

Stücklisteneintrag GEOMETRIE SAP Transfer

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHT... N 10

X.0000.2057-00 SWIVELLING CLAMP CYL. | SCHWEN... N 10

X.0000.2058-00 CLAMPING IRON | SPANNEISEN N 10

X.0000.2059-00 HOUSING | GEHAEUSE N 20

X.0000.2060-00 BASE PLATE | GRUNDPLATTE 20

X.0000.2061-00 BRIDGE | BRUECKE 30

X.0000.2062-00 INDEX | INDEX 40

X.0000.2063-00 BRIDGE | BRUECKE 50

X.0000.2064-00 WORKPIECE | WERKSTUECK 60

X.0000.2065-00 INDEX | INDEX 70

X.0000.2066-00 PAD | AUFLAGE 80

Stücklistenvergleich

Modus: Multi-Ebene (mit Pos.)

Bericht ☒

Anwenden Abbrechen

Stücklistenvergleichsbericht - X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) -> X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) Multi-Ebene (mit Pos.) LH Var: Kein LH Rev:Latest...

Element-ID	Elementname	Pos.	Änderungsstand	Anz	Me
X.0000.2056					
G.9000.0000	G.9000.0000	5	00->()	1->0	,=i
X.0000.2067	SUB. DET. F. WELDMENT	90	00->()	1->0	,=i
X.0000.2058	CLAMPING IRON	100	00->()	1->0	,=i

Example: Comparison of the entire structure with the SAP structure:

Struktur-Management

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) - Latest Working - ...

Stücklisteneintrag GEOMETRIE SAP Transfer

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHT... N 10

X.0000.2057-00 SWIVELLING CLAMP CYL. | SCHWEN... N 10

X.0000.2058-00 CLAMPING IRON | SPANNEISEN N 10

X.0000.2059-00 HOUSING | GEHAEUSE N 20

G.9000.0000-00 NO 5

X.0000.2060-00 BASE PLATE | GRUNDPLATTE 20

X.0000.2061-00 BRIDGE | BRUECKE 30

X.0000.2062-00 INDEX | INDEX 40

X.0000.2063-00 BRIDGE | BRUECKE 50

X.0000.2064-00 WORKPIECE | WERKSTUECK 60

X.0000.2065-00 INDEX | INDEX 70

X.0000.2066-00 PAD | AUFLAGE 80

X.0000.2067-00 SUB. DET. F. WELDMENT | HILFSTEIL NO 90

X.0000.2058-00 CLAMPING IRON | SPANNEISEN NO 10

X.0000.2059-00 HOUSING | GEHAEUSE NO 11

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) - Latest Working - ...

Stücklisteneintrag GEOMETRIE SAP Transfer

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHT... NO 5

X.0000.2060-00 BASE PLATE | GRUNDPLATTE 20

X.0000.2061-00 BRIDGE | BRUECKE 30

X.0000.2062-00 INDEX | INDEX 40

X.0000.2063-00 BRIDGE | BRUECKE 50

X.0000.2064-00 WORKPIECE | WERKSTUECK 60

X.0000.2065-00 INDEX | INDEX 70

X.0000.2066-00 PAD | AUFLAGE 80

X.0000.2067-00 SUB. DET. F. WELDMENT | HILFSTEIL NO 90

X.0000.2058-00 CLAMPING IRON | SPANNEISEN NO 10

X.0000.2059-00 HOUSING | GEHAEUSE NO 11

Stücklistenvergleichsbericht - X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) -> X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) Multi-Ebene (mit Pos.) LH Var: Kein LH Rev:Latest...

Element-ID	Elementname	Pos.	Änderungsstand	Anz	Mehrfeldschlüssel-Informationen...
X.0000.2056					
X.0000.2057	SWIVELLING CLAMP CYL.	10	00->()	1->0	,=item_id=X.0000.2057,ob...

Example: Comparison of the design structure with the SAP structure:

Struktur-Management

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) - Latest Working - ...

Stücklisteneintrag /	GEOMETRIE	SAP Transfer
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHTUNG		
X.0000.2057-00 SWIVELLING CLAMP CYL. SCHWEN...	N	10
X.0000.2058-00 CLAMPING IRON SPANNEISEN	N	10
X.0000.2059-00 HOUSING GEHAEUSE	N	20
X.0000.2060-00 BASE PLATE GRUNDPLATTE		20
X.0000.2061-00 BRIDGE BRUECKE		30
X.0000.2062-00 INDEX INDEX		40
X.0000.2063-00 BRIDGE BRUECKE		50
X.0000.2064-00 WORKPIECE WERKSTUECK		60
X.0000.2065-00 INDEX INDEX		70
X.0000.2066-00 PAD AUFLAGE		80

X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) - Latest Working - ...

Stücklisteneintrag	GEOMETRIE	SAP Transfer
X.0000.2056-00 CLAMPING FIXTURE SPANNVORRICHTUNG		
G.9000.0000-00	NO	5
X.0000.2060-00 BASE PLATE GRUNDPLATTE		20
X.0000.2061-00 BRIDGE BRUECKE		30
X.0000.2062-00 INDEX INDEX		40
X.0000.2063-00 BRIDGE BRUECKE		50
X.0000.2064-00 WORKPIECE WERKSTUECK		60
X.0000.2065-00 INDEX INDEX		70
X.0000.2066-00 PAD AUFLAGE		80
X.0000.2067-00 SUB. DET. F. WELDMENT HILFSTEL	NO	90
X.0000.2058-00 CLAMPING IRON SPANNEISEN	NO	10
X.0000.2059-00 HOUSING GEHAEUSE	NO	11

Stücklistenvergleichsbericht - X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) -> X.0000.2056-00 CLAMPING FIXTURE | SPANNVORRICHTUNG (Ansicht) Multi-Ebene (mit Pos.) LH Var: Kein LH Rev:L...

Element-ID	Elementname	Pos.	Änderungsstand	Anz	Mehrfeldschlüssel-Informatione...
X.0000.2056					
G.9000.0000	G.9000.0000	5	()->00	0->1	,=item_id=G.9000.0000,ob...
X.0000.2057	SWIVELLING CLAMP CYL.	10	00->()	1->0	,=item_id=X.0000.2057,ob...
X.0000.2067	SUB. DET. F. WELDMENT	90	()->00	0->1	,=item_id=X.0000.2067,ob...
X.0000.2058	CLAMPING IRON	100	()->00	0->1	,=item_id=X.0000.2058,ob...
X.0000.2059	HOUSING	110	()->00	0->1	,=item_id=X.0000.2059,ob...