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3. Working in Teamcenter

3.1. topics overview

This training document deals with working in Teamcenter.

The main focuses have been set as follows:

- Working with data types
- Working with Items & Revisions
- Searches
- Check in / Check out
- Structure Manager
- Workflows

3.2 Working with data types

3.2.1 Basic Teamcenter data types

There are different types of data types in Teamcenter. A dataset is the connection to the file located in the secure area.

X.0000.3646 MACHINING CENTER

- ■{[®] X.0000.3646-View
- X.0000.3646-00 MACHINING CENTER
 - > 🔯 View
 - > 🗽 X.0000.3646-00
 - > 👌 X.0000.3646-00-dwg1
 - > 📲 X.0000.3646/00-View

Symbol	Description
X.0000.3646 MACHINING CENTER	Item or "FFG Engineering Item"
TX.0000.3646-00 MACHINING CENTER	Item Revision or "FFG Engineering Item Revision"
😂 View	assembly structure in folder form
ig X.0000.3646-00	UGMASTER Dataset (NX 3D model)
👌 X.0000.3646-00-dwg1	UGPART Dataset (NX 2D drawing)
■[^a X.0000.3646-View	BOM View (at Item)
■[⁰ X.0000.3646/00-View	BOM View Revision (at the Item Revision)

3.2.2 Items & Revisions

In Teamcenter a part is called an "Item" (English) or an "Element" (German). There can be different types of Items, which can have different business rules, attributes, permissions, symbols etc. In this project the item type "FFG Engineering Item" was introduced for FFG, marked by a blue icon. This type contains, for example, the rules for assigning the item ID in the form "X.nnnn.nnn" or "T.nnnn.nnnn".

All geometric and non-geometric parts are mapped as item type "FFG Engineering Item".

The item contains those properties that are the same and must be the same across all revisions, such as the part number (Item ID). The item always has at least one first revision (revision 00 for FFG). Further revisions (01, 02, ...) can be created as soon as the last revision has been released and has been given a status.

When "expanding" an item in the Navigator, all revisions are always displayed.

X.0003.0407 Demo Part
 X.0003.0407-00 Demo Part PS
 X.0003.0407-01 Demo Part PS
 X.0003.0407-02 Demo Part PS
 X.0003.0407-03 Demo Part PS
 X.0003.0407-04 Demo Part

3.2.3 BOM Views and BOM View Revisionen

In Teamcenter structures ("BOM") are stored in a separate object, the so-called "BOM View" or "BOM View Revision". If an item has a BOM View, then it is generally an assembly, otherwise it is an individual part or component.

The BOM View revisions are attached to the revisions and contain the BOM configuration for that revision. The "BOM View" is attached to the Item and points to the most recent (current) "BOM View Revision".

Assemblies are created using the CAD tool "NX" in Teamcenter. It is important to note that NX internally stores its own assembly information in the part file and this information must always match the information in Teamcenter.

Alert:

Improper editing of structures in Teamcenter can lead to the fact that an assembly can no longer be loaded correctly in NX.

3.3. Check-In / Check-Out

3.3.1 Basics for checking in and out

You can check items in and out of Teamcenter while maintaining exclusive access permissions so that other users cannot make changes to the data.

Teamcenter database



- The **check out** option locks an item in Teamcenter so that only you can change it. However, other users can still view the item.
- Checking in unlocks the item so that other users can access it.

3.3.2 Checking out a construction

Before you make any changes to your design, you must first check it out. This locks the element and prevents other users from making changes at the same time.

- Select the element you want to update.
- Click Checkout on the toolbar ¹
 The Information window displays the object whose property Checked out is set to Y.

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✓ Verfügbare Änderungsstände	- Vorschau
▼ Teileeigenschaften	
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Gruppen-ID: 🍇 dba 🔻	
Letzter ändernder Benutzer: 🤱 <u>tcadm (tcadm)</u> 🔻	
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🗯 Auschecken abbrechen	

Now you can open the element and make changes.

If you have made a change to your design, you must then check it in. This unlocks the element so that it can be checked out and changed by other users.

- Select the item you want to check in.
- Click **Check in** on the toolbar 🕍.

The property **Checked out** is updated

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Info:

Please note that before releasing an item revision it must be completely checked in.

3.4 Working with Items & Revisions

3.4.1 Basics

In Teamcenter parts are called "Items" or "Item Revisions". The item is a kind of "bracket" which summarizes the revisions. An item always has at least one revision. The item number (Item ID) is assigned when the item is created and then inherited by all revisions, **i.e. the Item ID of all revisions is always the same.** Normally an assigned Item ID cannot be changed in the normal way. The item also contains properties (attributes) which must be the same for all revisions, e.g. the unit of measurement.



The name of the revisions can change, usually the item is named after the first revision. For FFG, the item name is identical to the name of the last revision. However, the item name has no meaning from a procedural point of view.

3.4.2 Exercise 1 - Creating a part in Teamcenter

In Teamcenter you can create a part as follows:

Select **"File → New → Item "**.



Select "FFG Engineering Item" in the following menu. Please always use only this type of part.

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💯 Neues Element		23
Geschäftsobjekttyp Fahren Sie mit der Erstellung eines Objekts des ausgewählten Typs fort.		
▲ ♦ Zuletzt verwendet		
🗊 FFG Engineering Item		
FFG Document		
a 🔲 Vollständige Liste		
FFG Document		
FFG Engineering Item		
FFG Project		
FFG Template Item		
< Zurück Weiter > Abschließer	Schliel	Ben

Press "Next ".

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bjekterstellungsinf	ormationen	/	
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In the following dialog the properties of the item are assigned. Press **"Assign "** next to the "ID" field to assign an item number.

Info:

The rule for the part number is automatically determined via your group, e.g. group "EI" always uses the format "X.nnnn.nnnn" and group "FR" the format "T.nnnn.nnnn".

The part number is generated from a number generator and is always unique.

Enter a name of your choice. This name will later be overwritten by the name catalog.

If you click in the field **"Naming Catalog ID "** and make an entry, all entries from the catalog will be displayed which contain this text in the German or English name. You can select a suitable name or ID here, the German and English names will then be entered into the Revision and Item attributes when saving.

Enter a **Unit of Measure**.

Important

• There is no entry for "piece" or "Each" as unit of measurement in Teamcenter. For "Piece/Each" please leave the unit of measurement empty, this will be converted correctly in the SAP interface later.



- The unit of measurement cannot be changed once the part is released or already installed.
- The unit of measurement "piece/each" has a special technical meaning in Teamcenter, e.g. it is only possible to enter integer quantities here. Furthermore, a CAD system (here NX) always creates parts without a unit of measurement.

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Der Wert sollte ein anzuzeigen).	em der folgenden Muster entsprechen (bewegen Sie die Maus, um alle	
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Press "Next ".

In this dialog you can set the mandatory attributes required for a release.

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The **"Overview "** tab of the revision now shows the English and German names.



Exercise:

1. create an item in Teamcenter Assign a name to the item via the name catalog.

2. check the structure of your created item in Teamcenter [Item, Item Revision]

3.4.3 Exercise 2 - Editing part information

To edit the information on revisions, select the **revision** in the Navigator.

The properties are displayed in the **"Overview "** tab. Make sure they are also in the "Overview" tab and not in another tab.

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Click on "Check out ". The revision is checked out and the tab is set to edit mode.

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You can now edit the properties. You can then save your changes with **"Check in "** or cancel them with **"Cancel check out "**.

ToDo:

- 1. check out the Revision item so that you can edit the attributes
- 2. change the name of the Revision item using the Naming Catalog.
- 3. fill in all mandatory attributes that are required for release.
- 4. check in the item Revision. Note the name of the Revision item.

3.4.4 Exercise 3 - Editing the classification

The specifications for the material group and the classification can be edited in the tab "Classification". To enter the material group, the revision must be checked out.



Important:

Currently the entries of the product group are only implemented in English! The German translations will follow.

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E + V Teil:		-			⊳ 02-Flui	d		buter		
Umbaur	Wahr Falsch				⊳ 03-Big	Components / (Indard Parts	Cooling System	ns <u>Dutes</u>		
ombud.					⊳ 05-Fixt	ures / Multi Spir	ndle Heads			
Disposition					b 07-Star	ndard Castings				
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You can then enter the material group. The values of the merchandise category description are structured according to the categories.

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eti ni	h 📥		4	1 <u> </u>							
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Alternatively, you can also enter the number of the material group directly if you know it. Please note that the field for the material group description must be empty for the entry in the material group field to be effective. The description has priority over the number.

Please note that the field for the category (Waregroup Dispo) is for display only and cannot be filled in.

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If a classification is required, you can set it via "Set Class Attributes" (this entry is currently only displayed in English).

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A menu opens in which the classification combinations valid for the respective material group are displayed. The values are - as in Agile - dependent on each other from left to right.

Set Class Attributes Dialog		Be-J			and a second	
	Class A	Ittributes				
Klasse 1	Klasse 2	Klasse 3			Klasse 4	
911; Round / N > 50 dim. / T < 0,01 mm	 901; round (mm) / D < 30 	920; Speroidal casting	/ no heat treatment	*	900; no surface	
912; Round / N > 50 dim. / 0,05 > T >= 0,01 mm	902; round (mm) / 30 <= D < 80	921; Speroidal casting	/ Hardening		901; Painting / powder coating	
913; Round / N > 50 dim. / T >= 0,05 mm	903; round (mm) / 80 <= D < 150	922; Speroidal casting	/ Nitrating		902; Priming	
914; Round / 10 < N <= 50 dim. / T < 0,01 mm	904; round (mm) / 150 <= D < 300	923; Speroidal casting	/ Annealing	=	903; Nickel plated	
915; Round / 10 < N <= 50 dim. / 0,05 > T >= 0,01 mm	905; round (mm) / D >= 300	924; Speroidal casting	/ Other thermal treatment	-	904; Chromium coating	
916; Round / 10 < N <= 50 dim. / T >= 0,05 mm	g999; Others	930; Pressure-tight spe	erioidal casting / no heat treatment		905; Hard-coating	
917; Round / N <= 10 dim. / T < 0,01 mm		931; Pressure-tight spe	erioidal casting / Hardening		906; Burnishing	
918; Round / N <= 10 dim. / 0,05 > T >= 0,01 mm		932; Pressure-tight spe	erioidal casting / Nitrating		907; Galvanizing	
919; Round / N <= 10 dim. / T >= 0,05 mm		933; Pressure-tight spo	erioidal casting / Annealing		908; Chromium oxide coating	
951; Profile material / N > 50 dim. / T < 0,01 mm		934; Pressure-tight spe	erioidal casting / Other thermal treatment		909; Chromium oxide coating	
952; Profile material / N > 50 dim. / 0,05 > T >= 0,01 mm		940; Grey cast iron / n	o heat treatment		999; Other surfaces	
953; Profile material / N > 50 dim. / T >= 0,05 mm		941; Grey cast iron / H	ardening			
954; Profile material / 10 < N <= 50 dim. / T < 0,01 mm		942; Grey cast iron / N	itrating			
955; Profile material / 10 < N <= 50 dim. / 0,05 > T >= 0,01 mm	-	943; Grey cast iron / A	nnealing	-		
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Select the required values and click on "Finish". The classification values are written to the fields.

20/44 3. Working in Teamcenter 😕 Übersicht 🐹 😭 Details 📩 Auswirkungsanalyse 🛷 Viewer 🚦 JT-Vorschau 🗞 Prozessverlauf 🗞 Zusammensetzung - -Senden an... A. 1 X.0000.3311-01 COLUMN ASSEMBLY | STAENDERBAUGRUPPE Übersicht | Customer Properties | Title Block | EPLAN Properties | History Properties | Zugehörige Datasets | Verfügbare Änderungsstände | Prüfprotokolle Kopieren O <u>Revisionieren...</u> 🗞 Neuer Workflow-Prozess... 🖳 Speichern unter - General Information Material Nr.: X.0000.3311 Alte Materialnr.: Änderungsstand: 01 EI SAP Proj.-Nr.: GP SAP Proj.-Nr.: 0 KV: EI Ben.ID: 10139 Materialart: HALB Internes Dokument: Deutsch: STAENDERBAUGRUPPE Englisch: COLUMN ASSEMBLY Abmessung: Zusatz Deutsch: Zusatz Englisch: Zusatz (allg.): **Component Properties** Material DIN: Material US: Gewicht: Norm: Rohteil Nr.: Modell Nr.: Härtetyp: Härtegrad: Härtetiefe: Abmessung: Classification Waregroup Descr (EN): Turned parts simple (less than 50 measures; Tol. greater 0.05 mm) Produkt: Klasse 1: 917 Standard Teil: Klasse 2: 902 Nein Waregroup Dispo (EN): 14-Custom Manufactured Components Klasse 3: 934 CS: 140100 Warengruppe: Bereich: Klasse 4: 907 Required Classification: 2 E + V Teil: Set Class Attributes Falsch Umbau: Disposition Beschaffungsart: Hersteller ID: Q-Code: Hersteller Name: Pflichthersteller: Dispo Strategie: Falsch Lieferant.Best.Nr.: STL Verw.: **Further Informations** Notiz GER: Ersatz für: Notiz ENG: Ersetzt durch: Ähnlich: int.Vermerk ÷ d, ÷. 疝 Auschecken Speichern und ausgecheckt beibehalten – Auschecken abbrechen

Exercise:

check out the Revision item you created and switch the tab to "Classification".



2. assign a commodity group for your Revision item

check in the item revision and check the individual attribute values

4. check out the Revision item again - change the item group so that a classification is required

- 5. carry out the classification.
- 6. check in the Revision item and check the individual attribute values

3.4.5 Exercise 4 - Importing a dataset

There are two procedures for importing a dataset in Teamcenter:

1. Procedure:

Via File -> New -> Dataset the dialog window "New Dataset" opens.



The Item ID revision (*X.nnnn.nnn/nn*) is entered in the "Name" field and does not need to be edited by you.

Confirm this with **"OK "** or click on "Apply" if you want to import more datasets.

2. procedure:

Datasets can also be imported into Teamcenter via drag & drop. To do this, proceed as follows:

1. select the desired file locally on your computer and drag it under the item revision you have created - the following dialog will open:

Abbrechen

23

🎐 Neue Datasets	für mehrere Datei	en					
Ziehen und Abl	egen mehrerer	Dateien	0				
Dateiname	Dataset-Name	Beschreibu	Dataset-Typ	Dateityp	Referenz	Verwendetes	
2019_10_09	2019_10_09_Sc		Anforderungs-	*.*	Fnd0Markup	MarkUp Tool	
			Anforderungs-M	larkup			
			Bild HPGL Markup NX Routing Outlook PDF				
			Text UGCAMShopDoc VERSCHIEDENES				

2. Now select the corresponding dataset type and confirm your entry.

Tip:

With this procedure it is also possible to import and create several datasets in Teamcenter at the same time.

Für gleichen Typ anwenden

ОК

Important:

It is very important to make sure to select the correct dataset type. This cannot be changed afterwards and may result in the dataset not being able to be opened.

Exercise:

- 1. select the Revision item you created
- 2. insert a new dataset via "File -> New -> Dataset" [CTRL+D]
- 3. add a new dataset via Drag & Drop under your item revision
- 4. check the structure of your created item in Teamcenter [Item, Item Revision, Dataset]

3.4.6 Exercise 5 - Cut, Copy, Paste and Delete

Cut	Cut does not remove the object from the database, only the reference to the file.
Сору	Copies the reference to the data The data itself is not duplicated or copied.
Paste	The Paste function is the same function as in Microsoft Windows

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Delete	Removes data from the database.	

Drag and Drop Drag and Drop has the same function as in Microsoft Windows

3.4.7 Exercise 6 - Revision of parts

In a PLM system, parts are revised in order to track changes. FFG has the following basic rules for revisions:

- The revision ID is a two-digit number and begins with "00".
- Revisioning is only possible if the predecessor has a release status. This means that changes can only be made to the last revision if it has not been released.
- It is possible to create a new revision from any revision status, e.g. revision 02 can be created from revision 00 or revision 01. In this case, the user himself must ensure that the logic is correct and that, for example, no design or content changes are overlooked.

To create a new revision, select a previous revision and then select "File \rightarrow Revisions..." or perform the revisioning using the Revision item in the Overview view from the Overview tab, as shown in the screenshot below

Image: Home X Q ₁ □ □ □ □ □ X Y □ E		🎽 Übersicht 🛿 😭 D	etails 📩 Impact An	alysis 🛷 Viewer 불	JT Preview 🖏 Proce	ess History	
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▷ Newstuff ▷ X.0003.0032 BEARBEITUNGSZENTRUM ▷ Create part in Teamcenter □ Create part in Teamcenter □ Teate part in Teamcenter □ X.0000.0003 PIN □ X.0000.0004 HOLDING BLOCK HALTEKLOTZ □ X.0000.0004-00 HOLDING BLOCK HALTEKLOTZ ER □ X.0000.0004-01 HOLDING BLOCK HALTEKLOTZ ER □ Ansicht □ X.0000.0004-01 HER □ X.0000.0004-01 ER □ X.0000.0004-01 FER □ X.0000.0004-01 FER	E	 X.0000.0004 Dersicht Document P Kopieren Material Nr.: Alte Materialnr.: Alte Materialnr. 2: Kundendokument?: Kundensprache: Alte Dok.Nr.: 	-01 HOLDING roperties Title Block <u>Revisionieren.</u> X.0000.0004	BLOCK HAU EPIan Zugehörige Revisionieren	TEKLOTZ Datasets Verfügbare Ä r Workflow-Prozess voc): HALB 75	Änderungsstände Prüfp Änderungsstand: PR: NMBG: KV: GP SAP ProjNr.:	orotokolle <u>nunter</u> 01 Fals Fals EI 0
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Further entries are not necessary. Press "Finish " to complete the operation.

🔮 Revisionieren FFG Engi	Previsionieren FFG Engineering Item Revision					
Objektrevisionierungs	Objektrevisionierungsinformationen					
X.0000.0004-01	HOLDING BLOCK HALTEKLOTZ	Z				
Änderungsstand:	02 🔫					
Englisch:	HOLDING BLOCK					
fnd0CheckoutOnRevise	🔘 Wahr 🔘 Falsch					
🔲 Beim Erstellen öffnen						
	< Zurück Weiter > Abschließen	Schließ	Ben			

Then a second revision "01" is displayed under the item. All specifying documents like 3D model (UGMASTER) or drawing (UGPART) are copied to the new revision.

Please note that the neutral formats (Tiff, PDF etc.) are not accepted. These will be recreated on release.



Exercise: [can only be edited after 3.7 Workflows]

- 1. select the Revision item you have released
- 2. carry out a revision of the released revision
 - 3. check the structure of the revised item

3.4.8 Exercise 7 - Impact Analysis

With the help of the impact analysis you can see in which BOMs an item revision is installed or linked everywhere. To do this, you must select an Item Revision and then select the **"Impact Analysis "** view.

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3	X.0000.296200 SENSOR2ODUL 3 4 5 6	
Ľ	Regel: Alle	
B	✓ Filtern nach Element ✓ an Alle Ebenen ✓ Untertypen einschließe	
	"Übe. 9. Ind untergeordnetes Element konfigurieren"-Optionen anzeigen	
F		
	2 X.0000.2962-00 SENSORMODUL	
	The search text window and the search button.	
	You can use the Clean button to clean up the search text field	
1.	Tou can use the clean button to clean up the search text held.	
	Select the Open button to display the Open by Name dialog box, which allows you to use	
2	names, wildcards, and change state level to search for objects.	
Ζ.	You can use the where: button to filter where the object is used of referenced.	
3.	should be displayed.	ayer
4.	Using the individual buttons, you can select whether the display should be in a horizontal, w	vertical
5.	Where-used-list/reference list	

- Enable / disable the response time to selections from other views so that the currently selected main object can be retained in the view while examining other objects in other views.
 With **Rules:** you can filter by specific status.
- 8. Via **Display** objects can be... can be selected.
- 9. Here you can filter by Teamcenter objects.
- **10.** Here you can filter according to different **depths**.
- **11.** By selecting the button, subtypes are included.

To open the structure step by step, always double-click on the individual nodes and the next higher structural element is displayed.



You can call up further functions using the right mouse button (RMB):





Exercise:

1. search for item X.0000.2962.



3. open the topmost structure element of the component and send [$RMT \rightarrow Send to$] this to **"My Teamcenter "**.

3.5. search queries

3.5.1 Search tools in Teamcenter

Request type

- Standard query
- Customer-specific query

Request execution via

- Quick search functions
- Advanced search

3.5.2 Quick search functions





Info:

Quick search results cannot be added to your saved searches.

3.5.3 Advanced search

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		🗟 FFG Find Item Re	vision	•	a a	Allgemein	
		2			a	FFG Find Standard Parts	
		Name:				Mehr	
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		Erstellungsdatum:	tt.mmm.uuuu 👻				
1	Ac	cessing the advanced s	search				
2	Inp	out of the search criteri	on				
3	Sel	lection of the preconfig	ured / defined searches	5			
4	Calling up / selecting past searches						
5	Sa	ves the search in "my s	saved searches				
6	Soi	rt search result					
7	Re	peating the search					
8	De	lete all search criteria					
10	The	he search can be executed by pressing the Enter key (ENTER).					

3.5.4 Exercise 7 - Search queries using the Quick Seach

	Exercise:
	1. search for a FFG Item-ID using wildcards (* and ?).
^	2. add this to your worklist [RMT -> Send to -> My Teamcenter]
-	3. search for a FFG Item Name [GER / EN] using wildcards.
	4. add this to your worklist [Copy (CTRL+C]] \
	3. search for a FFG Document ID using wildcards.
	6. add this to your worklist [DRAG & DROP]

3.5.5 Exercise 8 - Search queries using the advanced search

Exercise:

 1. use the advanced search General.. to search for an item from your colleagues in the training.

 2. use the advanced search FFG Item Revision... to search for an item of your colleagues from the training.

 3. search for a standard part in Teamcenter using the advanced search FFG Standard Part Revision....

 3. search for a standard part in Teamcenter using the advanced search FFG Standard Part Revision....

 3.search for a standard part in Teamcenter using the advanced search FFG Standard Part Revision....

 3.search search guery

 Exercise 9 - Saving a user-specific search query

 2. fill the advanced search.

 2. fill the advanced search.

 3. save your preconfigured search and assign a new name.

 4. close the search.

 5. open "My saved searches" via the navigation window.

 6. open your saved search and run it.

3.6. structure manager

3.6.1 Basics

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.

3.6.2 Opening the Structure Manager

Start the Structure Manager in the navigation window of the TC Client.

Ø	Erste Schritte
۲	Mein Teamcenter
2	Struktur-Management
	Lifecycle-Viewer
λ	Ändorungsvonvaltung

This will open the application with a new and empty window.

[🚰 Struktur-Management 🔀									
I	Keine Struktur - Latest Working - Datum - "Heute"									
Stücklisteneintrag Regel konfigurie / Elementänderungsstatus Pos.										
l	Stucklisteneintrag	Regel konfigurie 🛆	Elementanderungsstatus	Pos.						

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)

X.0000.3311 STAENDERBAUGRUPPE
■{ ⁰ / _a X.0000.3311-Ansicht
a 🛷 X.0000.3311-00 STAENDERBAUGRUPPE ER
Ansicht
X.0000.3311-00 ER
▷ == 1 × 1.0000.3311/00-Ansicht ER
ER ER

Select the view (View) & (CTRL+O) or in the Menu File → Open * Right mouse button on selected view, item or item revision → Send to → Structure Management

N 01 ⁰)	10000	3311/00 A 11/EB		-	
ERI	ot	Ausschneiden	Strg+X	г	
X.0001.8	D	Kopieren	Strg+C	L .	
X.0001.8 X.0001.8 X.0004.4		Bericht erstellen Öffnen mit	*		
)04.0527		Senden an	۱.		Berichterstellung
		Einchecken/Auschecken	×	-2	Beziehungs-Browser
	8	Aktualisieren	F5	1	Lifecycle-Viewer
	1	Eigenschaften bearbeiten		▦	Mehrfachstücklistenverwaltung
	8	Zugriff		۲	Mein Teamcenter
		Projekt	•	ø	Multi-Structure-Management
		Zu Favoriten hinzufügen		7	Struktur-Management
	_			•Ö•	Workflow Viewer
				Ē	Zeitplan-Management

3.6.3 Overview of the surface

X.000	0.3311-00 STAENDERBA	UGRUPPE (Ansicht) - L	atest Working - Datum - "H	eute"
	Stücklisteneintrag	Regel konfigurie /	Elementänderungsstatus	Pc
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÷	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
		Hat Status(Beliebig	ER	10
	₹ X.0000.3115	Hat Status(Beliebig	er 3	20
Display of the as	sembly structure in	the form of expan	ndable tree diagrams	in list form
Display of the co	lumns can be confi	gured as desired.		
		-		

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

3.6.4 Exercise 10 - Opening a BOM in Teamcenter Structure Manager

A structure is displayed in Teamcenter in a separate application, the "Structure Manager" or "Structure Manager" and can only be edited there.

To open a structure in the Structure Manager, double click on a "BOM View Revision" of a specific revision or select the corresponding revision and navigate to the menu item "Send to " \rightarrow "Structure Manager " using the right mouse button.

🏷 Home 🔀			
 ▲ Home ▷ Mailbox ▷ Newstuff ▷ Standard Parts △ Create part in Teamcenter ▷ Create part in Teamcenter ○ Teampoint of the part in Teampoint 			
a 🛃 X.0000.3311-00 STAENDERBAL	Rriefrace	•	
 ▷ □ Ansicht ▷ □ X.0000.3311-00 ER ▷ □ □ X.0000.3311/00-Ansicht ER ER ER ☑ SAP Transferform ☑ X.0001.8631 MULTI SPINDLE HEAI ☑ X.0001.8972 BACKING ☑ X.0001.8973 SPACER ☑ X.0004 4123 IRON MAN MK42 	briercase Neue Änderung in Kontext Cut Str Copy Str Generate Report Öffnen mit	rg+X g+C	
X.0004.7713 COVER PLATE ABDECK	Senden an		Report Generator
2 2 2 3	Einchecken/Auschecken Aktualisieren Eigenschaften bearbeiten Access Projekt Add To Favorites	F5	 Relation Browser Manufacturing Process Planner Lifecycle Viewer Multi-BOM Manager My Teamcenter Multi-Structure Manager Structure Manager Workflow Viewer
		č	🛐 Schedule Manager

The structure is opened, layers can be expanded or collapsed. Using RMT, all levels can be expanded - but with larger structures this can take some time.

📝 Struktur-Management 🔀									- 8
X.0000.3311-00 STAENDERBAUGRUPPE (Ansicht) - Lat	est Working - Dati	um - "Heute"							
Stücklisteneintrag	Regel konfigur	Elementänderung	Pos.	Maßeinheit	Referenzkennung	Besitzt Unte	Teiletyp	SAP Positionstyp	MAG Zusatztext GE
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🖶 💣 X.0000.3011-00 SCHMIERUNG (Ansicht)	Hat Status(Bel	ER	10	jede		Wahr			
🖶 💣 X.0000.2875-00 GEGENLAGER (Ansicht)	Hat Status(Bel	ER	20	jede		Wahr			
🖶 💣 X.0000.3390-00 TEMPERATURSENSOR (Ansicht) Hat Status(Bel	ER	30	jede		Wahr			E
🖶 💣 X.0000.3136-00 STOERKONTUR (Ansicht)	Hat Status(Bel	ER	40	jede		Wahr			
🕸 💣 X.0000.3459-00 LINEARFUEHRUNGSSYSTEM (. Hat Status(Bel	ER	50	jede		Wahr			
🖶 💣 X.0000.3075-00 SENSORANBAU (Ansicht)	Hat Status(Bel	ER	60	jede		Wahr			
🖶 💣 X.0000.2996-00 HALTERUNG (Ansicht)	Hat Status(Bel	ER	70	jede		Wahr			
🕀 🛷 X.0000.3284-00 ACHSANTRIEB (Ansicht)	Hat Status(Bel	ER	80	jede		Wahr			
🖶 💣 X.0000.3160-00 KABELBAUGRUPPE (Ansicht)	Hat Status(Bel	ER	90	jede		Wahr			
🖶 💣 X.0000.3369-00 MOTORBAUGRUPPE (Ansicht)	Hat Status(Bel	ER	100	jede		Wahr			
🖶 💣 X.0000.3620-00 SCHMIERUNG (Ansicht)	Hat Status(Bel	ER	110	jede		Wahr			
🖶 💣 X.0000.3395-00 XY-ABDECKUNG (Ansicht)	Hat Status(Bel	ER	120	jede		Wahr			
🖶 💣 X.0000.3153-00 KABELKANAL BGR. (Ansicht)	Hat Status(Bel	ER	140	jede		Wahr			
🖶 💣 X.0000.3567-00 ANSCHLAG (Ansicht)	Hat Status(Bel	ER	150	jede		Wahr			
🖶 💣 X.0000.3238-00 KABELBAUGRUPPE (Ansicht)	Hat Status(Bel	ER	160	jede		Wahr			
🖶 💣 X.0000.3442-00 SCHMIERUNG (Ansicht)	Hat Status(Bel	ER	170	jede		Wahr			
🖶 💣 🐨 X.0000.3070-00 LINEARFUEHRUNGSSYSTEM (. Hat Status(Bel	ER	180	jede		Wahr			
🖶 💣 X.0000.2894-00 SCHMIERUNG (Ansicht)	Hat Status(Bel	ER	190	jede		Wahr			
🖶 💣 X.0000.3643-00 ACHSANTRIEB (Ansicht)	Hat Status(Bel	ER	200	jede		Wahr			
🖶 💣 X.0000.2862-00 ENDANSCHLAG (Ansicht)	Hat Status(Bel	ER	210	jede		Wahr			-
									*

Exercise:

6

1. search for the item X.1200.0057 using the Quick Search

2. open the BOM View Revision 00 by double clicking or via RMT -> Send to -> Structure Manager

3. check the BOM within the Structure Manager. Expand individual levels.

3.6.4 Exercise 11 - Editing attributes on the structure

Attributes on the structure are only visible in the Structure Manager, as these attributes are usagedependent and not part-dependent.

For FFG, the customer-specific attributes (e.g. "SAP Position Type") were displayed preconfigured, but each user can configure the selection of columns individually.

To edit an attribute, double-click in the column of a BOM line (that is, in a line).

📝 Struktur-Management 🔀								
X.0000.3311-00 STAENDERBAUGRUPPE (Ansicht) - La	test Working - Datum - "Heute"							🖿 🗰 🔳 🖂
Stücklisteneintrag	Regel konfigur Elementänd	erung ∇ Pos.	Maßeinheit	Referenzkennung	Besitzt Unte	Teiletyp	SAP Positionstyp	MAG Zusatztext GE
X.0000.3311-00 STAENDERBAUGRUPPE (Ansicht)	ER			Ň	Wahr			*
🕀 🕣 X.0000.3011-00 SCHMIERUNG (Ansicht)	Hat Status(Bel ER	10	jede	١	Wahr		()	
🕀 💞 X.0000.2875-00 GEGENLAGER (Ansicht)	Hat Status(Bel ER	20	jede	١	Wahr			
🗄 🛫 X.0000.3390-00 TEMPERATURSENSOR (Ansich	t) Hat Status(Bel ER	30	jede		Wahr	Desculution		E
X.0000.3136-00 STOERKONTUR (Ansicht)	Hat Status(Bel ER	40	jede		Wahr	Порреки	ж	
X.0000.3459-00 LINEARF Notiz für X.0000.	3011-00 SCHMIERUNG (Ansicht)	23		Wahr			
C 2000 2005-00 SENSOR	•				Wahr			
SAP Positionstyp					Wahr			
Angehängte Werteli	ste				Wahr			
1 3 X.0000.3369-00 MOTOR	Wert	Beschreibung		l.	Wahr			
⊕ 💞 X.0000.3620-00 SCHMIE		Lagerposition		١	Wahr			
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🖶 💣 X.0000.3567-00 ANSCHI				١	Wahr			
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1 2 X.0000.3442-00 SCHMIE		echen		1	Wahr			
X.0000.3070-00 LINEARPoer INCOMPOSITION (X.0000.3070-00 LINEARPoer INCOMPOSITION (X.0000.3070-00 LINEARPoer INCOMPOSITION (X.0000.3070-00 LINEARPoer INCOMPOSITION (X.0000.3070-00 LINEARPOER (X.0000-00 LINEARPOER (X.0000-0	Hat Status(Del.,, LIX	100	jeue	No.	Wahr			
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The second secon	Hat Status(Bel ER	200	jede	1	Wahr			
	Hat Status (Del., ER	210	Jeue					Ψ.
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If a LOV (List of Values) is attached to the attribute, you can select a value from the drop-down menu. Then close the menu with "OK".

📝 *Structure Manager 🙁							
* X.0000.3646-00 MACHINING CENTER (View) - Li	atest Working - Date - "No	w"					
BOM Line	Rul Item Rev	Status Find No.	Unit Of M	Reference Designa Has Children	Part Type	SAP Position Type	Position Text (DE)
X.0000.3646-00 MACHINING CENTER (View)				True			
🖨 🛷 X.0003.0026-01 (View)	Ha ER	10	each	True			
	Ha ER	10	each	False			
	Ha ER	20	each	False			
	Ha ER	20	each	False			
	Ha ER	30	each	False			
	Ha ER	40	each	False			
	Ha ER	50	each	False			

The value is stored and displayed.

The second example shows how a simple value is processed without a value list, in this case the item number in the BOM. Here you also double-click on the "Find No." column, then you can enter a value there directly and confirm it with "Enter".

🝠 Struktur-Management 🔀									
X.0000.9515-00 MASCHINE (Ansicht) - Latest Working	- Datum - "Heut	e"							🛅 🏥 🔳 🖂
Stücklisteneintrag	Regel konfigu	Elementänderungsst	Pos.	Maßeinheit	Referenzkennung	Besitzt Unte	Teiletyp	SAP Positionstyp	MAG Zusatztext GE
X.0000.9515-00 MASCHINE (Ansicht)						Wahr			*
🖶 🛷 X.0001.1324-00 VERBINDER (Ansicht)	In Arbeit()		10	jede		Wahr			
🖶 🛷 X.0001.0831-00 BEDIENPULTTRAEGER (Ansicht) In Arbeit()		20	jede		Wahr			
🖶 🛷 X.0000.9443-00 Schienenabdeckung (Ansicht)	In Arbeit()		30	jede		Wahr			E
- FARTHER X.0000.9283-00 SPAENEFOERDERER	In Arbeit()		40	jede		Falsch			
🖶 💞 X.0001.0407-00 VORSCHUBMOTOR (Ansicht)	In Arbeit()		50	jede		Wahr			
	In Arbeit()		60	jede		Falsch			
🖶 💞 X.0001.0105-00 ENERGIEVERSORGUNG (Ansic	. In Arbeit()		70	jede		Wahr			
🖶 💞 X.0000.9508-00 LINEARMASSSTAB (Ansicht)	In Arbeit()		80	jede		Wahr			
	In Arbeit()		90	jede		Falsch			
🖶 💞 X.0001.0008-00 FRAESEINHEIT (Ansicht)	In Arbeit()		100	jede		Wahr			
	In Arbeit()		110	jede		Falsch			
🖶 💞 X.0000.9308-00 SCHLITTENFRAESEINHEIT (An	In Arbeit()		120	jede		Wahr			
🖶 💞 X.0000.9474-00 ANBAUTEILE (Ansicht)	In Arbeit()		130	jede		Wahr			
🖶 💞 X.0000.9736-00 SCHOTTWAND (Ansicht)	In Arbeit()		140	jede		Wahr			
🖶 🛷 X.0001.0940-00 MONTAGEZUBEHOER (Ansicht) In Arbeit()		150	jede		Wahr			
🖶 💞 X.0000.9862-00 ENDSCHALTERANBAU (Ansic	. In Arbeit()		160	jede		Wahr			
🖶 🛷 X.0001.1293-00 VORSCHUBANTRIEB (Ansicht)	In Arbeit()		170	jede		Wahr			
	In Arbeit()		180	jede		Falsch			
🖶 💞 X.0000.9442-00 AUSRICHTELEMENT (Ansicht)	In Arbeit()		190	jede		Wahr			
🖶 💞 X.0001.0111-00 ANBAUTEILE (Ansicht)	In Arbeit()		200	jede		Wahr			-
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	+								

The BOM line then moves to the appropriate position in the BOM item.

📝 *Struktur-Management 🔀									- 8
* X.0000.9515-00 MASCHINE (Ansicht) - Latest Workin	ıg - Datum - "Heu	ıte"							🛅 🗰 🖬 🖂
Stücklisteneintrag	Regel konfigu	Elementänderungsst	Pos.	Maßeinheit	Referenzkennung	Besitzt Unte	Teiletyp	SAP Positionstyp	MAG Zusatztext GE
X.0000.9515-00 MASCHINE (Ansicht)						Wahr			*
🗄 💣 X.0001.0407-00 VORSCHUBMOTOR (Ansicht)	In Arbeit()		5	jede		Wahr			
🖶 💣 X.0001.1324-00 VERBINDER (Ansicht)	In Arbeit()		10	jede		Wahr			
🐵 💣 X.0001.0831-00 BEDIENPULTTRAEGER (Ansicht) In Arbeit()		20	jede		Wahr			E
🖶 💣 X.0000.9443-00 Schienenabdeckung (Ansicht)	In Arbeit()		30	jede		Wahr			
TX.0000.9283-00 SPAENEFOERDERER	In Arbeit()		40	jede		Falsch			
- 🛷 X.0000.9706-00 SPANNZYLINDER	In Arbeit()		60	jede		Falsch			
🗄 💣 X.0001.0105-00 ENERGIEVERSORGUNG (Ansic	. In Arbeit()		70	jede		Wahr			
🗄 💣 X.0000.9508-00 LINEARMASSSTAB (Ansicht)	In Arbeit()		80	jede		Wahr			
	In Arbeit()		90	jede		Falsch			
🗄 💣 X.0001.0008-00 FRAESEINHEIT (Ansicht)	In Arbeit()		100	jede		Wahr			
	In Arbeit()		110	jede		Falsch			
🕀 💣 X.0000.9308-00 SCHLITTENFRAESEINHEIT (An.	In Arbeit()		120	jede		Wahr			
🕀 💣 X.0000.9474-00 ANBAUTEILE (Ansicht)	In Arbeit()		130	jede		Wahr			
🗄 💣 X.0000.9736-00 SCHOTTWAND (Ansicht)	In Arbeit()		140	jede		Wahr			
🗄 💣 X.0001.0940-00 MONTAGEZUBEHOER (Ansicht	.) In Arbeit()		150	jede		Wahr			
🗄 💣 X.0000.9862-00 ENDSCHALTERANBAU (Ansic	. In Arbeit()		160	jede		Wahr			
🗄 💣 X.0001.1293-00 VORSCHUBANTRIEB (Ansicht)	In Arbeit()		170	jede		Wahr			
	In Arbeit()		180	jede		Falsch			
🗄 💣 💞 X.0000.9442-00 AUSRICHTELEMENT (Ansicht)	In Arbeit()		190	jede		Wahr			
🗄 💣 X.0001.0111-00 ANBAUTEILE (Ansicht)	In Arbeit()		200	jede		Wahr			+
4 V 0004 0000 00 01 1775		1	212						4
	+								

If you have made changes to the structure, these are not written directly to the database. An asterisk (*) in the tab "Structure Manager" indicates that the structure has been changed but not yet saved. You can save the changes using the "Save" button in the menu bar.

💯 Struktur-Management - Teamcenter 12											
Datei Bearbeiten Ansicht Werkzeuge Fenster	Datei Bearbeiten Ansicht Werkzeuge Fenster Hilfe										
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Struktur-Management (Doe, John (jdoe) - ELFFG / Design-Admin - [int02][00002][][]]											
	•	🚰 *Struktur-Management 🖂									
▼ Suchen		[
Enter the Item ID to search	Q -	* X.0000.9515-00 MASCHINE (Ansicht) - Latest Working	g - Datum - "Heu	te"							
- Quick-Links	Annassen	Stücklisteneintrag	Regel konfigu	Elementänderungsst	Pos.	Maßeinheit	Referenzkennung	Besitzt Unte			
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le Persönliche Ablage	»	🖶 🛷 X.0001.0407-00 VORSCHUBMOTOR (Ansicht)	In Arbeit()	5		jede		Wahr			
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🗟 Meine gespeicherten Suchen	»	🖶 🛷 X.0001.0831-00 BEDIENPULTTRAEGER (Ansicht)	In Arbeit()	20		jede		Wahr			
Section 2 Meine Links	»	🖶 🛷 X.0000.9443-00 Schienenabdeckung (Ansicht)	In Arbeit()	30		jede		Wahr			
		- Frank X.0000.9283-00 SPAENEFOERDERER	In Arbeit()	40		jede		Falsch			
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		🖶 🛷 X.0001.0105-00 ENERGIEVERSORGUNG (Ansic	In Arbeit()	70		jede		Wahr			
▶ veriaur	Zurücksetzen	🕸 🛷 X.0000.9508-00 LINEARMASSSTAB (Ansicht)	In Arbeit()	80		jede		Wahr			

If you do not save explicitly, you will be asked which changes should be saved when you close the Structure Manager.

Exercise:

1. open a subassembly from the structure Please ask your trainer - who uses which subassembly.



2. edit the item number.

- 3. set a component to Geometry=No
- 4. change other attributes.
- 5. save your adjustments.
- 6. check the BOM in the Structure Manager

3.7. workflows

3.7.1 Basics

All objects in progress go through several processes until their completion.

- Workflow
 - Sequence of **processes**
 - Performed on 1:n Object(s)
- Process
 - 1:n Activities / tasks
 - Performed by different **resources** (e.g. users) in different **roles**.
- Result
 - $\circ\,$ e.g. status change of objects

3.7.2 Starting a workflow

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Dialog "Neuer Prozess"	22
\$	
Prozessname: X.0003.0001-00 TROUGH	
Beschreibung:	
Prozessvorlage:	
V I'm Aufbau"-Vorlage anzeigen Prozessvorlagenfilter: 🔘 Alle	Zugewiesen
🎓 Anhänge 🐮 Prozessvorlage 🛛 Alle Aufgaben zuweisen	
Aufgabenanhänge 2 Ziele 2 With Control TROUGH Referenzen Referenzen	
OK Abbrechen	

- **Select** the object(s) [of an item revision].
- Start process dialogue
- Process definition in the dialog window "New process "
- "FFG 01 Engineering Release"
- Process start → "OK"

3.7.3 Process indicators

• Objects that are currently in a workflow are marked as follows



- Objects that are in a workflow and you have to grant a release yourself are displayed in Meine Arbeitsliste
- After starting the workflow, you can enter ^{Meine Arbeitsliste} Select the required neutral formats of all objects (part or structure) in the workflow. To do this, you must select the *ProcessControlForm* by double-clicking on it and perform a check-out. Then you can edit, save and check in the "ProcessControlForm" again.

▲ Signa Arbeitsliste
a 🛅 tcadm (tcadm) Aktive Aufgaben
a 🛅 Auszuführende Aufgaben
X.0003.0001-00 TROUGH (Review Selection)
Ø Ziele
A 🔝 Referenzen
ProcessControlForm
Zu verfolgende Aufgaben
Endersteinen Aufgaben
Process Control
Create DWG:
Wahr 🔘 Falsch
Create DXF: 💿 Wahr 💿 Falsch
Create IGES: 💿 Wahr 💿 Falsch
Create JT: 💿 Wahr 💿 Falsch
Create PDF: 💿 Wahr 💿 Falsch
Create STEP: 🔘 Wahr 🔘 Falsch
Create TIFF: 💿 Wahr 💿 Falsch
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Then select "Perform Task". Here you can now send further task instructions to the employee in the following step if you are conducting a "Peer Review". When performing a "Self Review", you are the final approver of the Engineering Release - then the desired neutral formats are created.

3.7.4 Exercise 12 - Performing an Engineering Release (release after "ER")

During release, certain conditions are checked without which the workflow does not start. are conditions for a design release:

- It is an object of type "FFG EngltemRevision".
- All mandatory attributes are filled in
- The name was selected from the name catalog (name ID is set)
- For an assembly, all components of the first level must have the same or a higher release status or the components must be contained in the same release workflow.
- All revisions have no status (are in "Working").

To make a design release, proceed as follows.

Select one or more revisions to be released. These revisions can be individual parts or assemblies.

Select **File** → **New** → **Workflow Process...** or press **Ctrl+P** on the keyboard.

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۵	Wy Teamcenter - Teamcenter 12						
File	Edit View	Translation	Tools	Window	Help		
	New	>	8	ltem		Ctrl+T	R
Ê	Open	Ctrl+0	Ċ	Folder		Ctrl+Alt+F	- [int02] [00002] [] [] [])
	Open With		*	Form		Ctrl+M	
9	Open In NX		٨	Dataset		Ctrl+D	003.0029 MASCHINENBETT
	View		38	URL			
	View With			Workflow	Process	Ctrl+P	>
	Save	Ctrl+S	弦	Change			る Workflow Process
8	Save As		*	Other		Ctrl+H	32 BEARBEITUNGSZENTRUM
0	Revise			»		> 🚽 X.0	003.0032-01 BEARBEITUNGSZENTRUM 🗱
	Close			» »		🗸 🔁 Use Ca	ises
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😓 Home				>	T.0000.0004-00 HOLDING BLOCK		

The workflow "FFG 01 Engineering Release" should already be selected. If not, select this workflow from the list of templates.

No further entries need to be made. However, it is possible to add or remove further revisions as socalled "targets" in the workflow. It is also possible to assign a different name and/or description (but this is not necessary and not common).

🔮 New Process Dialog	×
*	
Process Name: X.0000.0003-00 PIN *	
Description:	
Process Template: FFG 01 Engineering Release	
	Process Template Filter: 🔘 All 💿 Assigned
😵 Attachments 🛛 🔁 Process Template 🛛 Assign All Tasks	
Task Attachments Targets X.0000.0003-00 PIN X.0000.0004-00 HOLDING BLOCK References	
ОК	Cancel

Press OK.

In Teamcenter Navigator an icon 😔 indicates that an object is located in a workflow.

If all conditions are met, the workflow starts and you see in your inbox ^{Somy Worklist} in the Teamcenter Navigator under ^{Casks To Perform} "Task to be executed" the started workflow. This is located in the process step "Review Selection".

First open the "References" entry and double-click to open the "ProcessControlForm" form.

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			Check-Out and Edit	Close

You can now select the desired neutral formats. JT and PDF are preset. If the default settings are sufficient, you can skip this step, otherwise press "Check-Out and Edit".

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Save and Check-In Save Cancel Check-Out Close	

Select the neutral formats and press "Save and Check-In". Then press **"Execute Task "** in the tool bar.

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	OK Cancel	

A menu opens in which you can select whether a **Self Review** (Self Review) or a **Peer Review by another person** (Peer Review) is to take place.

Press **"Self Review "**. No further steps are necessary. In the entry **"Tasks to Track "** you can track the workflow or the various tasks, for example, you can see the sub-processes of neutral format generation.

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> 🛅 Schedule Tasks	
> 🛅 Subscription Messages	

In the Teamcenter Navigator an icon $\stackrel{\scriptsize \mbox{\scriptsize loss}}{\longrightarrow}$ indicates that an object is in a workflow. This makes the object read-only, changes are not possible.



As soon as the workflow is completed, the release status (in this case "ER") is displayed as symbol and text on the objects. In addition, the generated neutral formats are attached to the revision as a dataset and have also been released.





- 1. search for the item created in exercise 1
- 2. select related item revision and start a workflow.



- 3. in the ProcessControlForm you deselect all neutral formats to be created.
- 4. approve the workflow with self-review
- 5. check the structure of your created item in Teamcenter [Item, Item Revision, Datasets]

Now go to exercise 6 and perform a revision of your released item Revision.