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5 Working with NX

5.1 Creating items in Teamcenter

Create a new part in Teamcenter as usual:

Select “File→New→Item” and select the type **FFG Engineering Item**.

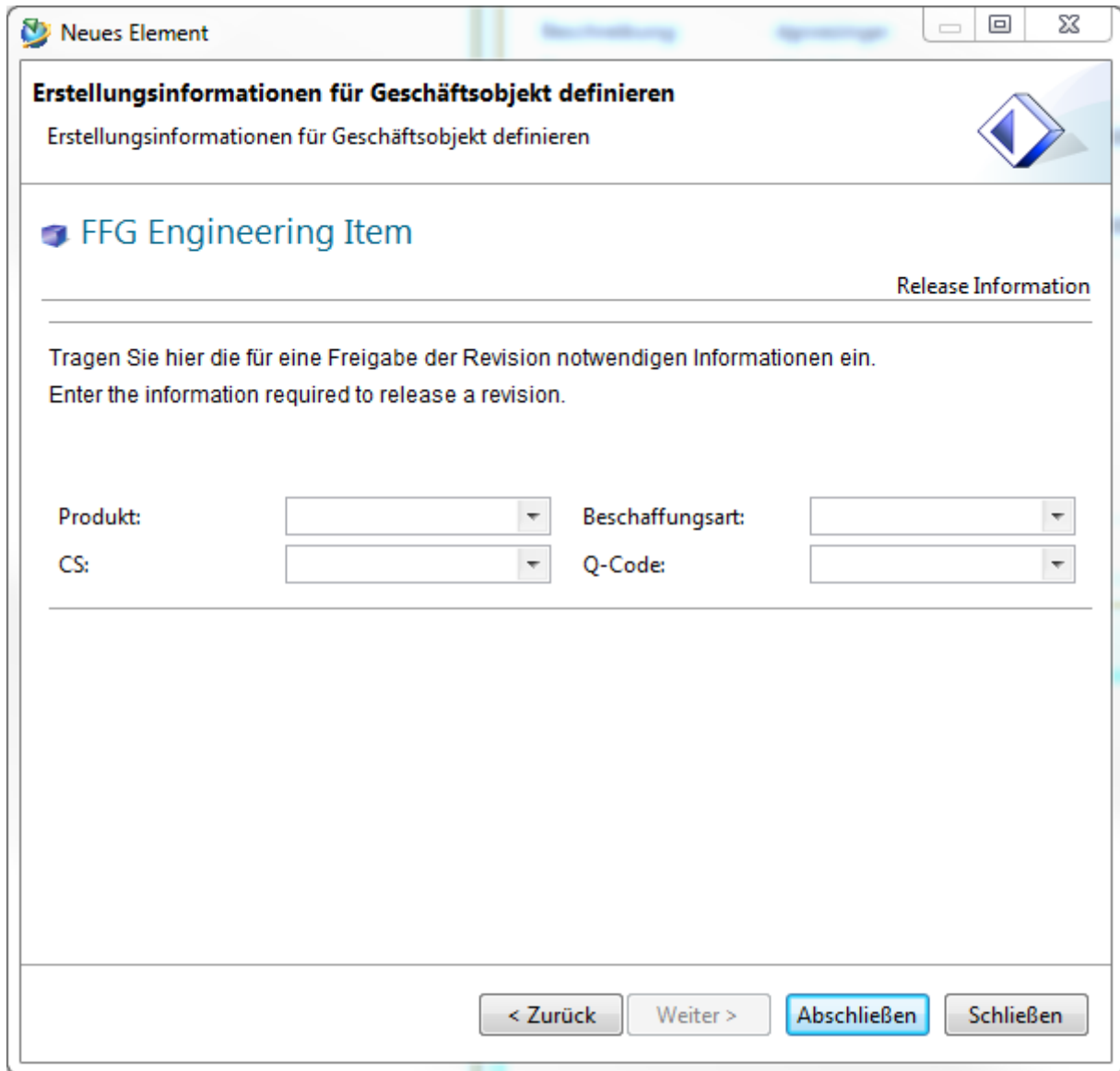
Assign an item ID and assign a (temporary) name.

Choose a name from the naming catalog.

Unit of Measure = Empty (each)

Press “Next”.

Enter the essential master data.



Erstellungsinformationen für Geschäftsobjekt definieren

Erstellungsinformationen für Geschäftsobjekt definieren

FFG Engineering Item


Release Information

Tragen Sie hier die für eine Freigabe der Revision notwendigen Informationen ein.
Enter the information required to release a revision.


Produkt: Beschaffungsart:

CS: Q-Code:

< Zurück Weiter > Abschließen Schließen

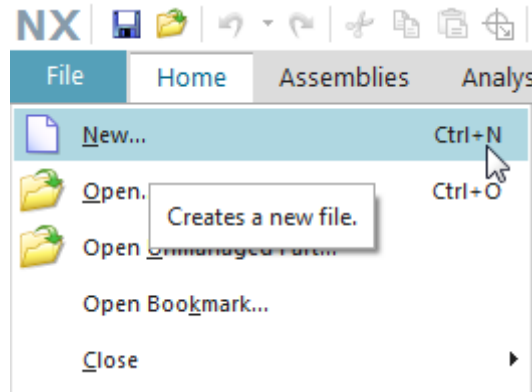
Press “Finish”. Then select the newly created item or item revision and start NX via  in the menu bar. Once you save the part file in NX, the dataset (UGMaster) is placed under the Item Revision.

5.2 Preparation

Before you start working in NX, please first load the role “FFG Standard” via the sidebar .

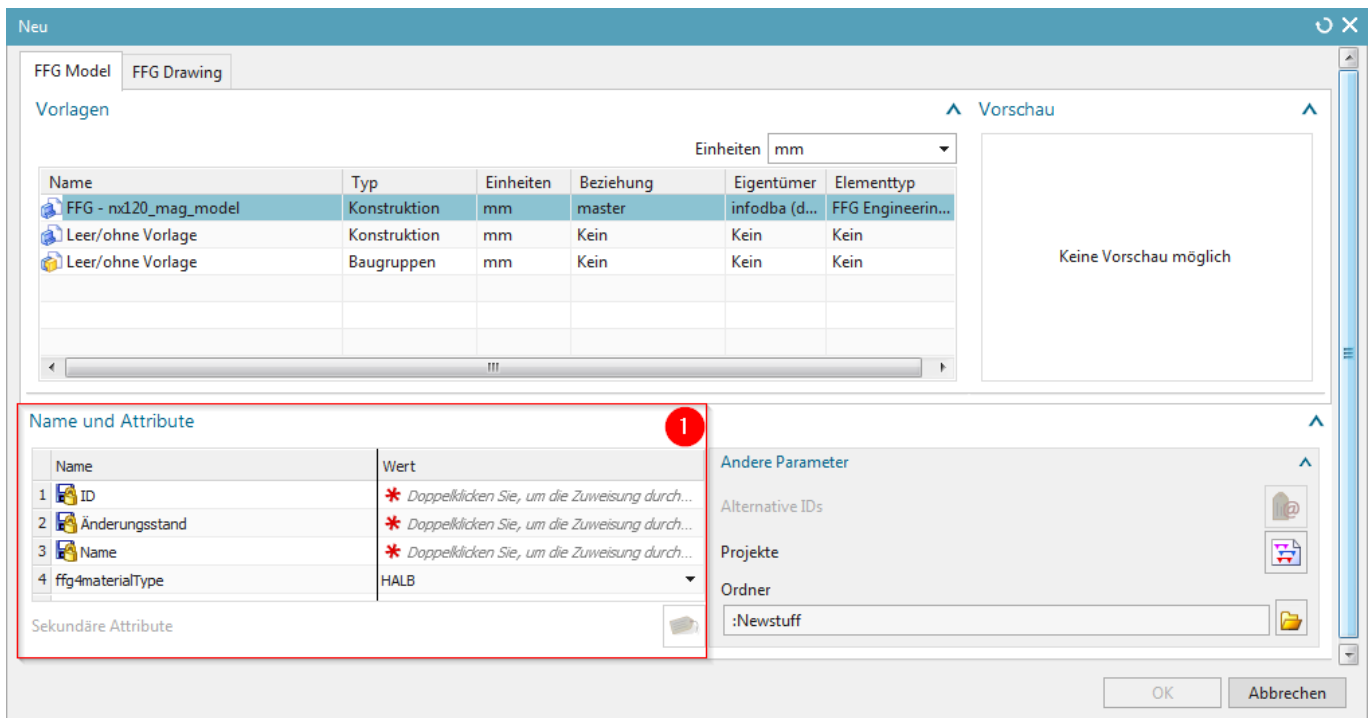
5.3 Create Items with the help of NX

- The creation of a new item in Teamcenter is performed in NX as follows:



1. Create a new data record via file → New...
2. Create a new record via Ctrl+N

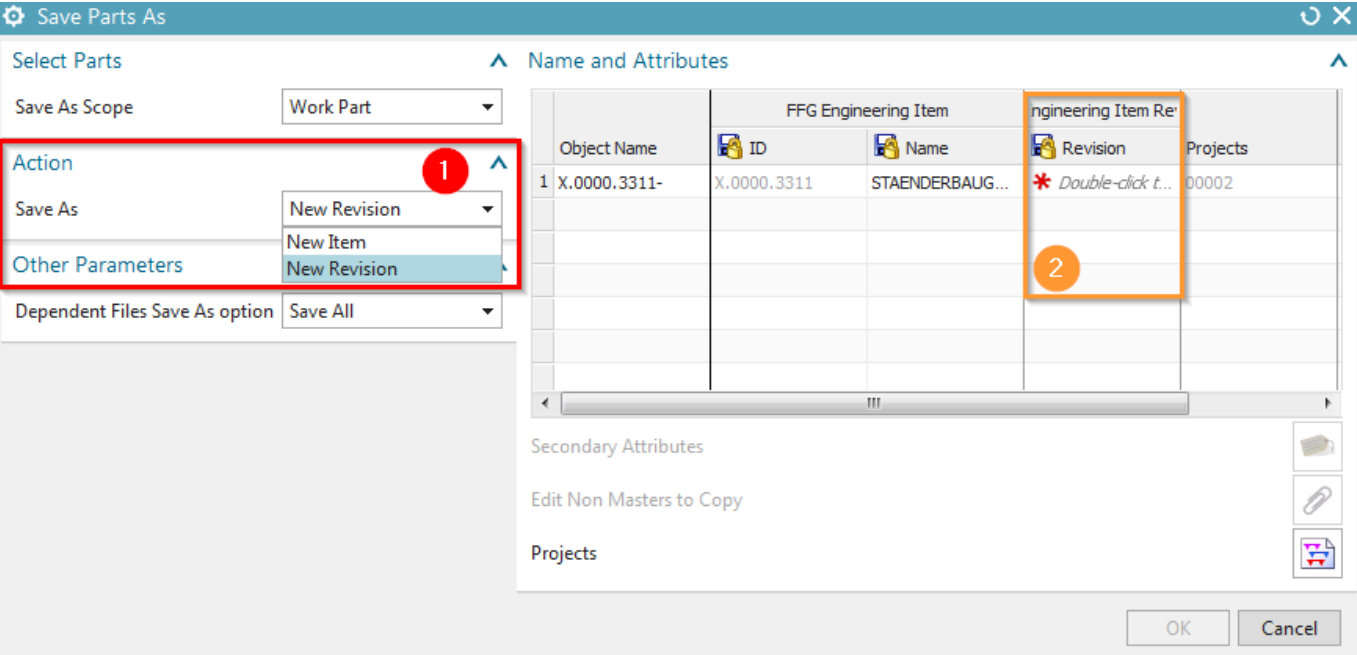
- The creation of a new item as master part is visible as relationship “master” and contains the model.
- The creation of a new non-master part is visible as relationship “specification” and contains the DrawingPart.



Here, certain mandatory attributes must be assigned to the newly created item.

5.4 Revision and save parts

- The revision of **Master parts** is also carried out: Menu File → Save → Save as...
- Create as new change status (revision)
- Save as new element creates a new part under a new part number
- Save as Alt-Rep creates a new dataset with altern. Geometry presentation under the current part / revision master.

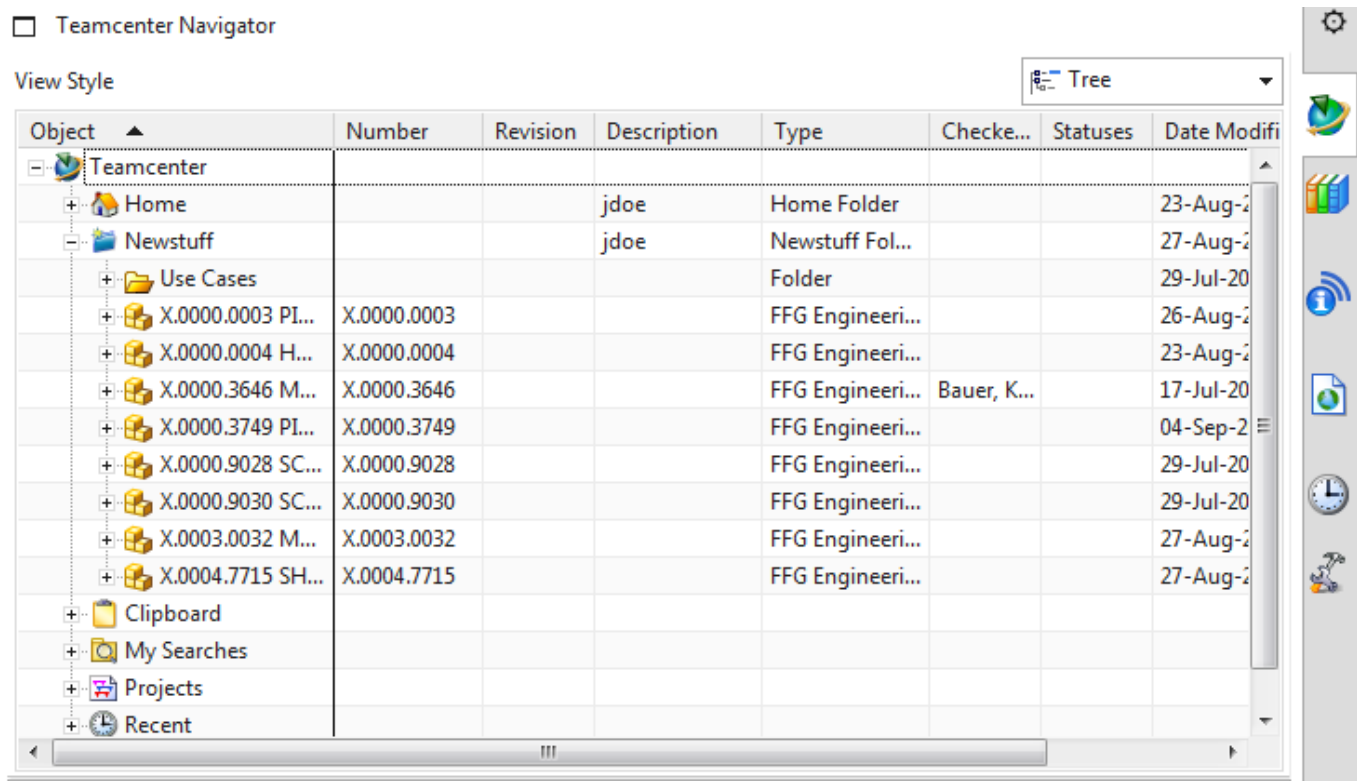


1. Save as action - New element / New change status
2. Double-click to assign a new revision number to the Item Revision.

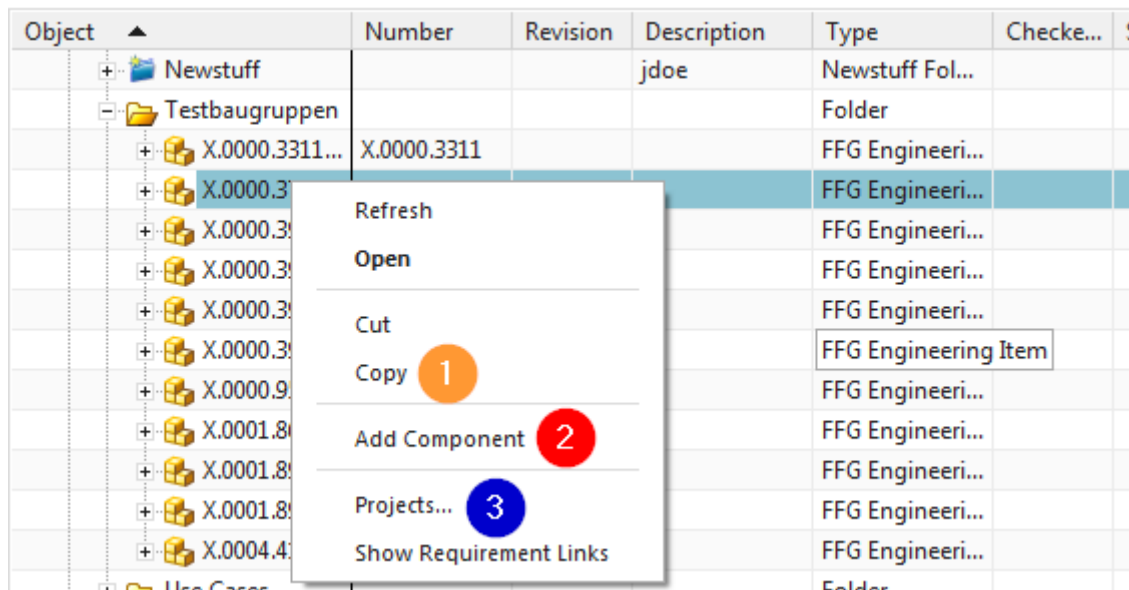
- If an item revision contains dependent files in addition to the **Master part**, the documents to be transferred can be selected if this is defined in the preferences.

5.5 Teamcenter Navigator

- The Teamcenter Navigator shows the current folder structure of the user.
- The columns can be adjusted as required.



- The following file operations are possible with RMT:



1. Cut and Copy has the same effect as in the "My Teamcenter" environment
2. Opens the "Add Component" dialog
3. Add the object to a project

5.6 Teamcenter Navigator Search

☐ Teamcenter Navigator

View Style

Tree

Object	Number	Revision	Description	Type	Checke...	Statuses	Date Modifi
+ Newstuff			jdoe	Newstuff Fol...			27-Aug-2
- Testbaugruppen				Folder			06-Aug-2
+ X.0000.3311...	X.0000.3311			FFG Engineeri...			18-Jul-20
+ X.0000.3763...	X.0000.3763			FFG Engineeri...			25-Jul-20
+ X.0000.3908...	X.0000.3908			FFG Engineeri...			25-Jul-20
+ X.0000.3936...	X.0000.3936			FFG Engineeri...			01-Aug-2
+ X.0000.3958...	X.0000.3958			FFG Engineeri...			02-Aug-2
+ X.0000.3978...	X.0000.3978			FFG Engineeri...			26-Jul-20
+ X.0000.9515...	X.0000.9515			FFG Engineeri...			23-Aug-2
+ X.0001.8631...	X.0001.8631			FFG Engineeri...			15-Aug-2
+ X.0001.8972...	X.0001.8972			FFG Engineeri...			02-Aug-2
+ X.0001.8973...	X.0001.8973			FFG Engineeri...			08-Aug-2
+ X.0004.4123...	X.0004.4123			FFG Engineeri...			06-Aug-2
+ Use Cases				Folder			29-Jul-20
+ X.0003.0032 M...	X.0003.0032			FFG Engineeri...			27-Aug-2
- X.0004.7713 CO...	X.0004.7713			FFG Engineeri...			27-Aug-2

Search

X.000*

Advanced Search...

Browse Filter

Detail Level

Full

Revision

All

Type

All

Assembly Load Options

☐ Load Structure Only

Option

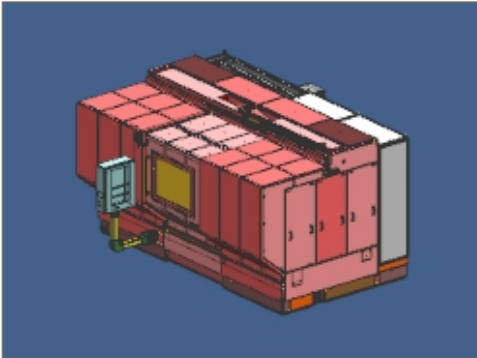
Partially Load

Revision Rule/Configuration Context

Latest Working

Load Options Dialog

Preview



1. Search Wildcards as in Teamcenter area
2. Advanced Search
3. Loading options for assemblies

5.7 Teamcenter Navigator Advanced Search

Advanced Search

Define Search

Look For: Any Object

Look In: Last Search

Search Criteria

Search String

Id: X.000*

Name

Description

Revision

Date Criteria: None

Owner

Owning User

Owning Group

Status

Release Status

Find Now New Search Save As

Result

Number: Revision: Name:

More Results

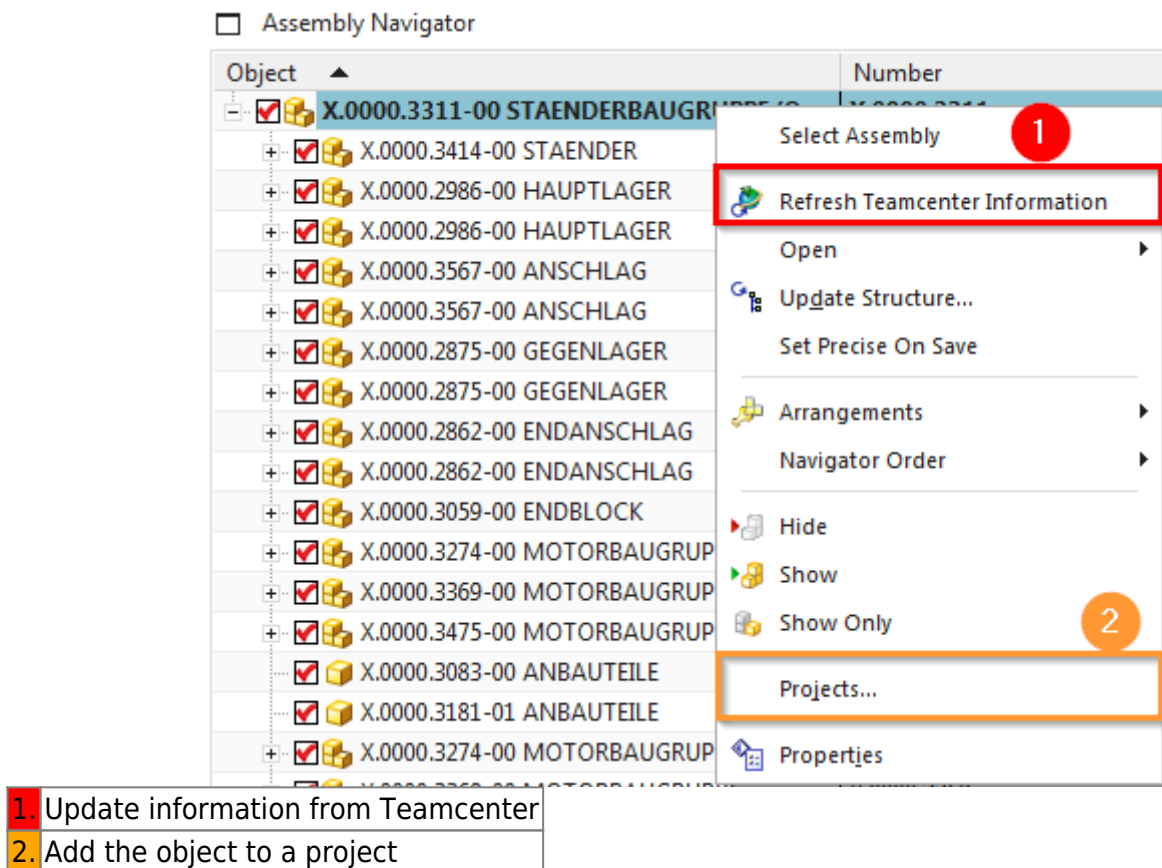
Previous (1-30 of 52697) Next All

Object	Number	Revision	Description	Type	Checke...	Statuses	Date Modified	Projects
X.0002.7234-00 FLUIDKOMponenten	X.0002.7234	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.7776-00 UMSETZER	X.0002.7776	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.7830-00 BLECH	X.0002.7830	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.8026-00 SCHILD	X.0002.8026	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.8433-00 SCHILD	X.0002.8433	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.8780-00 FEDERBLECH	X.0002.8780	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.8809-00	X.0002.8809	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.8814-00 WERKZEUGTRAEGER	X.0002.8814	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.8827-00	X.0002.8827	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.8971-00 SCHLAUCH	X.0002.8971	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.9374-00 STECKER	X.0002.9374	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.9704-00 LADEHILFE	X.0002.9704	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0002.9840-00 DICHTKOPF	X.0002.9840	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0003.0165-00 ENERGIEKETTE	X.0003.0165	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0003.0287-00 SCHLAUCH	X.0003.0287	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0003.0334-00	X.0003.0334	00		FFG Engineeri...			05-Aug-2019 ...	00002
X.0003.0509-00 WERKZEUG	X.0003.0509	00		FFG Engineeri...			05-Aug-2019 ...	00002

1. Search criteria
2. Look for it:
3. Display last searches
4. ...Searches saved in "My Teamcenter"

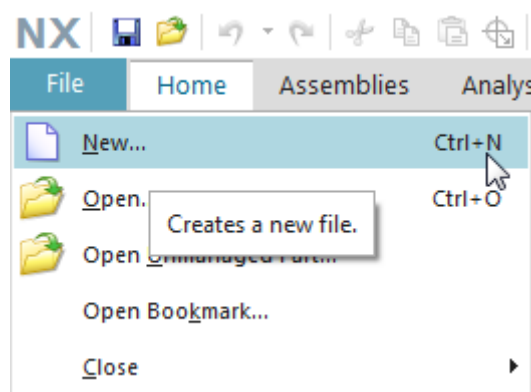
5.8 Teamcenter functions in the assembly Navigator

- Keep all Teamcenter information up to date



5.9 Creation of a UGParts (drawing)

To create a UGPart in Teamcenter, please load the part or assembly from Teamcenter to NX. Then create the UGPart belonging to the UGMaster via File → New (Ctrl+N).



Then select the register “FFG Drawing” and the corresponding seedpart “FFG-nx120_mag_drawing”. The corresponding attributes are taken from the item revision. Confirm this with OK.

New

FFG Model

FFG Drawing

Templates

Units

Millimeters

Name	Type	Units
FFG - nx120_mag_drawing	Drawing	Millimeters
FFG - nx120_mag_drawing (no MM)	Drawing	Millimeters
Blank	Drawing	Millimeters

Preview

No preview available

Name and Attributes

Name	Value	Other Parameters
1 ID	X.0001.8631	
2 Name	MULTI SPINDLE HEAD	
3 Material Type	HALB	
4 Dataset Name	X.0001.8631-00	

Secondary Attributes

Reference Part

Number

X.0001.8631

Revision

00

Name

X.0001.8631-00

Browse...

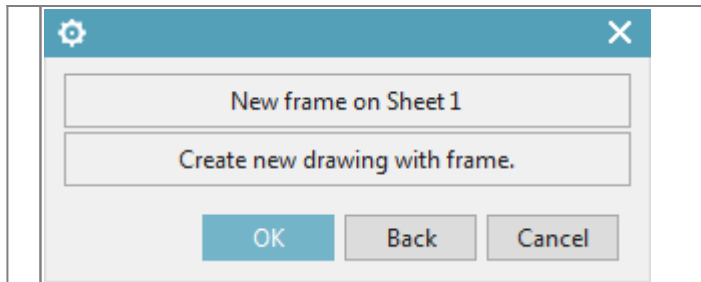
OK

Cancel

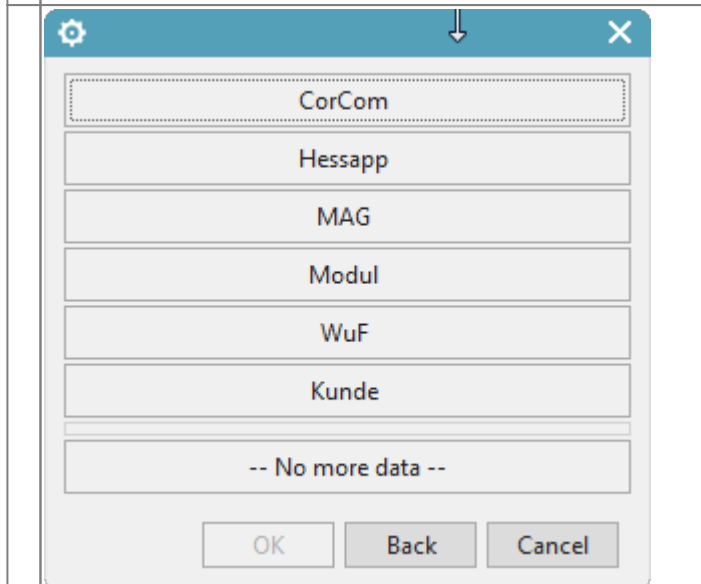
5.9.1 NX TOOLS - Loading the drawing frame

Proceed as follows to add the drawing frame and sheet format:

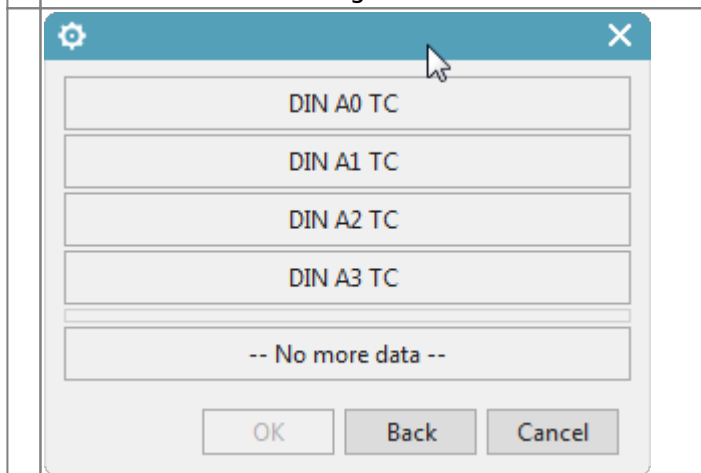
1. Overview - Frame functions	
	<div> </div> <div> <div>Zeichnungsrahmen laden</div> <div>Teamcenter-Informationen aktualisieren</div> <div>Abbild aktualisieren</div> </div>
2. Load drawing frame	
	<div> </div> <div> <div>Zeichnungsrahmen laden</div> </div>
3. Drawing frame on Sheet 1	



4. Selection of the desired frame



5. Selection of the drawing format







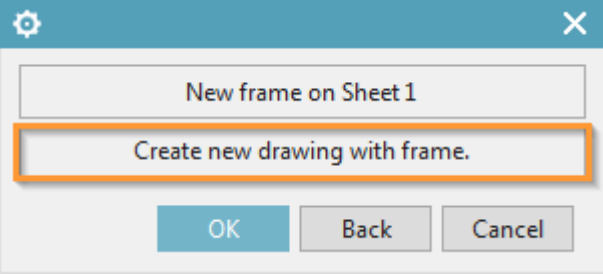
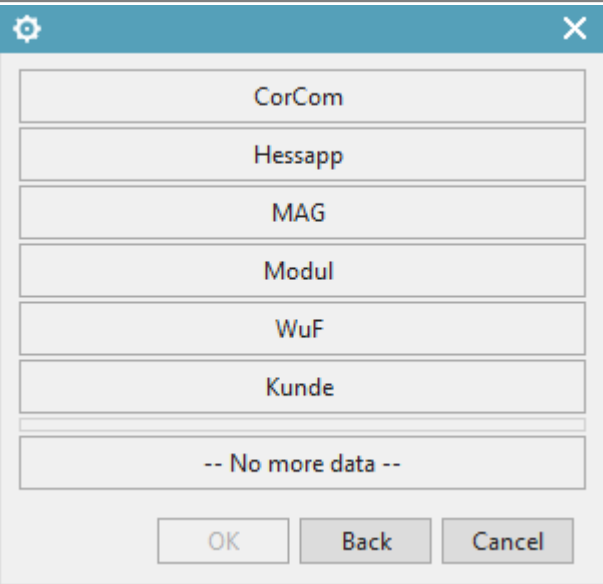
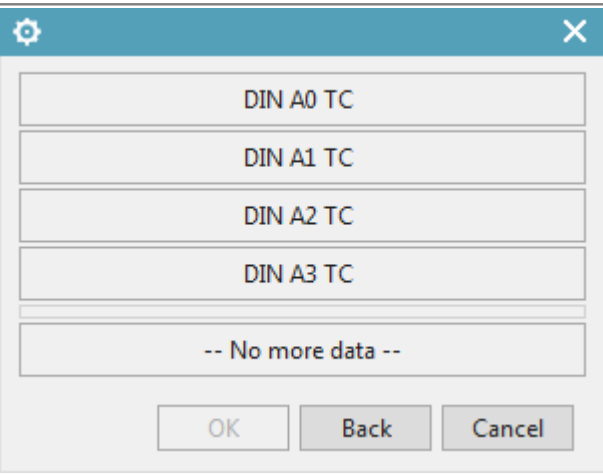
Note:

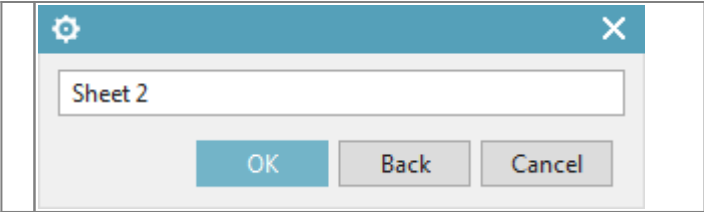


In order to display all attribute values in the drawing frame, the UGPart must be saved to Teamcenter and the drawing header must be updated with the function "Abbild aktualisieren".





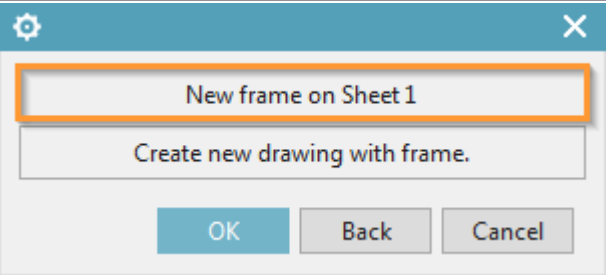
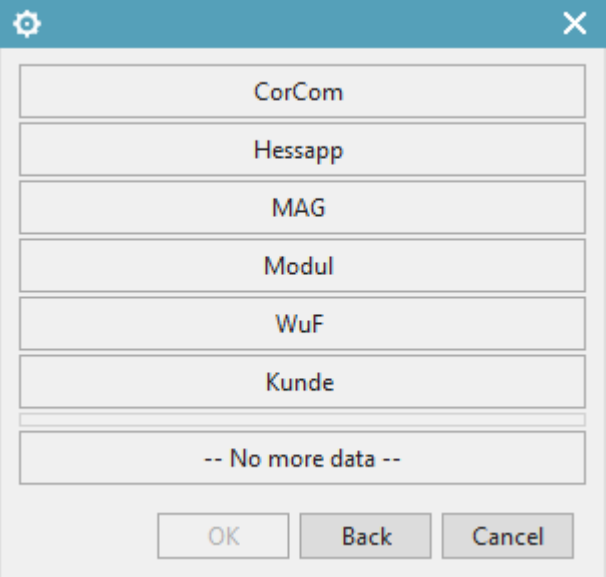
5.9.2 NX TOOLS - Creating a drawing sheet

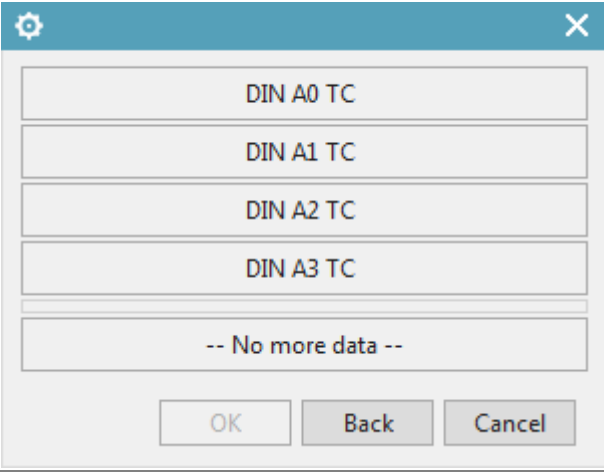
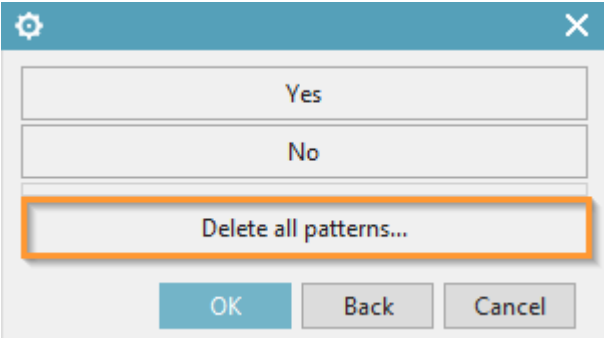
1. Overview - Frame functions

	<div> Zeichnungsrahmen laden</div> <div> Teamcenter-Informationen aktualisieren</div> <div> Abbild aktualisieren</div>
2. Load drawing frame	
	<div> Zeichnungsrahmen laden</div>
3. New Sheet with frame	
	
4. Selection of the desired frame	
	
5. Selection of the drawing format	
	
6. Accept naming of Sheet n	





5.9.3 NX TOOLS - Change drawing frame / format on existing drawing

1. Overview - Frame functions	<div><div> Zeichnungrahmen laden</div><div> Teamcenter-Informationen aktualisieren</div><div> Abbild aktualisieren</div></div>
2. Load drawing frame	<div><div> Zeichnungrahmen laden</div></div>
3. Drawing frame on Sheet 1	
4. Selection of the desired frame	
5. Selection of the drawing format	


<p>6. Delete all patterns</p> 

5.9.4 NX TOOLS - Change drawing frame / format on existing drawing

 <p>Teamcenter-Informationen aktualisieren</p>	Transfer metadata from Teamcenter to NX
 <p>Abbild aktualisieren</p>	Manual update of metadata in the text header