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4 Importing an assembly

4.1 Dialog window "Import assembly into Teamcenter"

4.1.1 "Default settings" group

Options	Description
Element Type	Sets the default element type for imported parts
Use type from part file	Selects the element type to import based on the element type of the part file. This ensures that the imported part has the same element type as when it was exported. When multiple parts are selected and the parts have different element types, the correct type is automatically assigned based on the information in the part file. The following priority order is used to retrieve the element type of the part file: 1. part file type (if the type is present in the part file) 2. log file type (if the log file is used) 3. standard element type Teamcenter preferences TC_default_part_type Note: → This option must be selected before selecting parts. → This function only applies to parts created in NX10 or higher.
Convert names and attributes	

Numbering source	Specifies the method for numbering imported parts. Depending on the method you choose, various inputs are available that you can use to specify the imported attributes. The Default Name, Default Description, ID Attribute, and Revision Attribute attributes use the information from the parts you import. You can add your own values for these attributes to change them. If an empty string occurs, an automatically generated value is used. → Part ID Generator: Generates and automatically assigns new part numbers. This is similar to automatically assigning a new part number when creating a new part in the File (File) → New (New) dialog box. You can change the attributes Default Name and Default Description. „ BS filename (OS Filename): Uses the same filename as in the operating system. If you specify this method, you can also specify a conversion rule to change the file name. With Conversion Rule, you can use the BS file name as a base and add a prefix or suffix, replace a string, or simply use the element ID. You can change the attributes Default Name and Default Description. Note: → BS filename (OS Filename) with the setting As ID and Conversion Rule for conversion rule (As ID and Revision) is identical to the automatic conversion of names in previous NX versions. → The custom functions registered for automatic conversion are called when the naming is applied during import. Attribute (Attributes): Uses the attribute values stored in the part. Note: You can enter <code>\${OS_FILENAME}</code> for any attribute to use the file name in the operating system. For example, you can replace <code>\${DB_PART_NAME}</code> with <code>\${OS_FILENAME}</code> for the Default Name attribute. If naming rules have been associated with the Teamcenter item_id (attribute ID in NX) property that conflict with <code>OS_FILENAME</code> or <code>DB_PART_NAME</code> (whichever attribute is used), an error message is displayed. For these incorrect elements, you can override the ID (ID) naming method by manually entering the ID (ID) that matches the naming rule pattern, or by using automatic assignment.
Components	
Include component parts	Add components to the imported assembly.
Include dependent parts	Add dependent elements to the imported parts.
 Find Components	Determines the versions of components of an assembly that are loaded. Available for selection: → As stored → From folder → From search folder

4.1.2 Group "Parts to be imported"

Options	Description
 Select Assemblies or Parts	Opens the Select Parts dialog box so you can select the assemblies and parts to import. When you click OK, the parts, assemblies, and assembly components appear in the Import List on the right side of the Import Assembly into Teamcenter dialog box.

 Select log file for setting up import	Opens the dialog box for selecting parts so that you can select a log file as input. The log file contains a list of the parts and assemblies to be imported. The dialog box filters the files according to the extensions .clone and .log. When you click OK, the parts, assemblies, and assembly components are searched in the clone file and displayed in the Import Assembly into Teamcenter list on the right side of the dialog box Import Assembly into Teamcenter.
 Import from Folder	Opens the Select Parts dialog so you can select a folder containing the parts and assemblies you want to import.

4.1.2 "Other parameters" group

Options	Description
Save parameters	
Publish Optional Information	Completely loads assemblies and publishes the following: → QAF Files → TruShape Data → UGPART Attribute Form → Limiting Frames → Weld Form Elements. The type of welds depends on the selected user standards for welds. Welding elements are not supported. → Product Interfaces → Synchronized Assembly Arrangements The Option Publish Optional Information* has no influence on the publication of WAVE and drawing relationships during import. They are only published for parts that are fully loaded, regardless of whether this option is enabled or not. If the option Publish Optional Information) is not selected, the only publishing option on import is the option Save JT Data) (in the Save Options dialog box) when JT files are created. By publishing the optional information, the option Publish Optional Information affects performance when loading the assembly. It is therefore not selected by default. You cannot select the Publish Optional Information option after you have specified the items to import. If Publish Optional Information is not selected, and you perform an action to select the import items, such as adding an assembly or importing from a folder, the option is inactive.
Standard parameters	
Action for existing part	Defines how the parts are imported into the database for existing parts. “ Overwrite - If the same part already exists in the database, it will be overwritten with the imported part. „ Use existing ones - If the same part already exists in the database, it will not be overwritten. The existing part is reused. “ New Change State - If the same part already exists in the database, the new parts are imported with a new change state. The next change status in the sequence is used as the new change status.
Default destination folder	Defines the default folder in Teamcenter in which imported items will be placed. The setting is saved so that it can be recalled for all NX sessions. When you navigate to the folder, you can display the Home node with the folders below it. It is also possible to specify a folder outside your personal folders (Home) by manually entering the folder in the text box. However, you must have write permissions for the folder to do this.

Output log file	Allows you to specify a log file in which the import operation is recorded. This is information that is also displayed in the Information window when the import is complete. Use Browse to specify a name and select the directory where the log file will be placed. The .clone extension is added automatically.
Linked Files root directory	Defines the folder in the OS where the linked files are located. You can select the folder with Browse .
Default Owner	Defines the owner of the parts and assemblies being imported. By default, this is the user name for the Teamcenter login.
Default owner group	Defines the owner group of the parts and assemblies to be imported. By default, this is the user group for Teamcenter login.
 Standard Projects	Opens the Assign to Project dialog box, where you can select the projects to which the imported parts belong.
Validity check	
Validity check	Specifies how check results are imported when importing NX parts. These are: „ Off (Off) “ Import from Part (Import from Part) „ Run Validation (Run Validation) “ Run Validation (Hybrid) (Run Validation (Hybrid)) This option allows you to improve validation performance by avoiding re-validation of part files that already have saved results.
Browse option „Validation rule record file“	Specifies whether the file that contains the validation rules is in Teamcenter or in the native NX application (operating system).
Set Check Rule Record File	Sets the folder in the OS where the check rule record file is located. You can select the folder with Browse . The dialog box filters the files according to the extension .vrp.
Process warning as success	Indicates whether the status With warning passed should be accepted in Check-Mate.
Process old as success	Gives whether the status Existed but outdated should be accepted in Check-Mate.
Cancel import on error	Cancels import of parts if a check rule is not observed.

4.1.4 "Import DFA files" group

You can access DFA files in native directories and in Teamcenter folders. For more information about DFA files, see the Knowledge Fusion documentation in the NX Help.

Options	Description
Add DFA Inserts	Indicates whether dependent DFA files will be imported.
Add DFA Files	Opens the DFA Files dialog box so you can select DFA files to include in the import.
Added DFA files	Lists the selected DFA files. You can also remove unwanted files 

4.1.5 "Check and test run" group

Options	Description
 CheckTeamcenter information	Checks the validity of parts during the test run based on the options selected in the Other Parameters group, Validity Check subgroup. Also updates the Teamcenter Information column in the list window.

 Test run	Executes a test run of the import operation before you perform the correct import. The information window informs you about the results of the simulated import. Key attributes are locked after a test run and cannot be changed.
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4.1.6 Group "Name and attributes for importing parts"

Options	Description
List field	Displays the parts and assemblies selected for import. You can change attributes for individual elements or select a column and change an attribute for all elements. Right-click a column header to change the order of the columns and add and delete columns. Note: In the dialog window Import assembly into Teamcenter the table editor functionality is used. <i>Explanations of the additional columns:</i> „ The Subcondition column indicates the condition of the part during the import process, e.g. „Part Family Element“, „Not Master“, „Name Only“, etc. “ The Reason for Consideration column indicates why a part is included in the import process or included in the list. This can be the case because it is the component of an assembly, the family element of a part family template, and so on. „ The column Teamcenter information indicates what happens during the import process. To display data in this column, you must perform a test run
 Secondary attributes	Displays the dialog window Attributes. Allows changes to attributes for the imported parts and assemblies. An attribute with a check mark  is a required attribute to which a value is assigned.
 Reset attributes	Deletes the attribute values for rows selected in the list box. This allows you to apply different attributes to selected rows. You can select multiple rows to be reset.
 Projects	Opens the Assign to Project dialog box, which displays the projects available in Teamcenter. All projects in which you are a member are displayed. You can select one or more projects for the new item.
 Select existing part	Selects the existing part and its properties when re-importing a part, which are automatically applied to the imported part. Use this option instead of assigning attributes using options or entering values manually. If you select the row for a part (and the part is not a family element or non-master), this option becomes active.

4.1.7 "Teamcenter Information" column

In the Name and Attributes for Parts group in the list window, the Teamcenter Information column informs about the action to be performed during part import.

Examples of such actions are:

- This part family element is treated as lost.
- Non-master of the element ID/change status ID.
- The specified element already exists in Teamcenter. A new change status is created for this part.
- A new element is created for this part.
- The specified item change status already exists in Teamcenter and is used.
- The specified element change status already exists in Teamcenter and is overwritten.

- The specified element already exists in Teamcenter and is not imported because it is a Name-Only element.
- The specified item change state already exists in Teamcenter and is not imported because it is a Name Change State Only.
- The part is not imported because it is a name-only part.

4.2 Importing an assembly into Teamcenter

4.2.1 Importing an assembly

Use the Import **Assembly to Teamcenter command** to import a part or assembly from the operating system into Teamcenter. For each NX part, elements, element change statuses and datasets are generated as required. The parts and structure for an assembly are created in Teamcenter.

When you import the part or assembly, you can specify the following:

- Procedure for naming imported parts.
- Inclusion of component parts or dependent parts of assemblies.
- Use a log file to list parts.
- Ownership and validation options.
- Target options in Teamcenter
- Inclusion of DFA files.

When you use this command, you first set some of the options and then select the assemblies and parts to import. This allows the functionality of the selected options to be applied to the assemblies before they are listed in the dialog box.

Note:
Assemblies imported into Teamcenter using the Import Assembly into Teamcenter command do not contain relationships that were set up in the original assembly. To apply the relationships, you must first load all parts and then save the assembly to NX.

A number of user standards are available that allow you to set preferred default settings to simplify the import process.

Where can this function be called?

Application	Teamcenter Integration
Menu bar	Import an assembly into Teamcenter

4.2.2 Importing an assembly with a family of parts

If you import an assembly into Teamcenter that was created in the native NX application and contains a part family, you must perform the import operation correctly before you open the assembly, otherwise some elements of the part family may be missing from the assembly. The part family items may appear as dimmed instances in the **Assembly Navigator** that you cannot open.

To ensure that the part handles of templates are internally correctly assigned to new part handles when imported into the parent assembly, you must first add the assembly for import and then the template part to the part family for the same import process. When you open the assembly, the elements of the part family can be created and the child instances can be coupled to these elements.

4.2.3 From Exceptions to attributes of imported parts

You can create exceptions for the attributes of imported parts by changing the attributes individually or by changing the attribute naming method used for the selected parts. This allows you to apply different naming techniques in a single import process.

In the group **Name and attributes for parts to be imported** the parts to be imported are listed and the attributes are filled depending on the selection in the group **Name and attribute conversion**.

4.2.3.1 Changing assigned attributes

If attributes have been assigned, you can customize the parameters in the **Name and Attribute Conversion** group to change the assignment of the attributes and then reassign the attributes.

- Click a row number to select the attributes for a part. Then click Reset **Attributes**  to deselect the attributes. Double-click an attribute to select attributes in the row based on the parameters selected in the **Name and Attribute Conversion** group.

Note:

You can use the CTRL key or select multiple lines by dragging the mouse with the mouse button pressed down.

- To change all attributes in the table, click the upper left corner of the table to select the entire table. Then click Reset **Attributes**  to deselect the attributes.

You can double-click attributes that are not locked after assignment and enter the new value manually.

Attributes can no longer be reset after a test run has been performed. In addition, key attributes are locked and can no longer be changed.

4.2.3.2 Automatic assignment of attributes to parts that have been selected for import

When you select parts for import, the user default automatically assigns **Automatic Part Attribute Mapping when you add parts to import** attribute values based on the selection in the **Name and Attribute Conversion** group.

If the user default is not selected, the attributes for the selected parts are empty and must be added. You can edit and enter values for each attribute manually, or double-click to make the assignment for each attribute. The assigned values are based on the parameters of the **Name and Attribute Conversion** group.

4.2.3.3 Attributes locked after assignment

The ID and Revision attributes take into account the Teamcenter preferences that control the ability to change the item ID and change state in My Teamcenter. You can use the preferences to change the attributes after the value is assigned.

The Teamcenter preferences are:

ASSIGNED_ITEM_ID_MODIFIABLE

Allows you to change the **ID** cell in the Import Assembly to Teamcenter dialog box after the value is assigned. If the setting is 0 (default setting), the value cannot be changed. If the setting is 1, the assigned value can be changed.

ASSIGNED_ITEM_REV_MODIFIABLE

Allows you to change the cell **Change Status** in the **Import Assembly to Teamcenter** dialog box after the value is assigned. If the setting is 0 (default setting), the value cannot be changed. If the setting is 1, the assigned change status can be changed.

4.3 Procedure

4.3.1 Importing an assembly

1.	Choose in the tab File →  Import assembly into Teamcenter .
2.	Select the entry Element in the Default settings group in the Element type list.
Note: FFG Engineering Item is selected by default.	
3.	Select under Names and Convert attributes in the list Numbering source the entry BS filename (OS filename). Then the assembly and its components with the filename are imported from the operating system as a basis for the imported elements.
4.	Select the entry As ID and Change Status in the Conversion Rule list.
5.	Leave the default name and Default Description empty to use the existing name and description attributes for the imported items.
6.	Select the following in the Components group: → Include Component Parts → Include Dependent Parts
Note: If you also import component parts and dependent parts, you must select the Include component parts and Include dependent parts check boxes before selecting the assemblies to import.	
7.	Click Find Components to display the Assembly Loading Options dialog box.
8.	Select the entry As Saved from the Load list.
9.	In the Parts to import group, click Select assemblies or parts  and select the assemblies and parts you want to import. The assemblies and parts are listed in the group Name and attributes for parts to import .
Note: In the dialog window Import assembly into Teamcenter the table editor functionality is used.	
10.	Select in the group Other parameters under Standard parameters in the list Action for existing part the entry New Change state . Then the parts are imported with a new change status and existing parts in the database are not overwritten.
11.	Under Default Parameters , in the Default Destination Folder box, type the path or navigate to the folder in Teamcenter where the imported items will be placed. You can manually enter a folder that is outside your personal folder in the field, but you must have write permissions to the folder.
12.	Enter the path under Default parameter in the Output log file field or navigate to the directory containing the log file.
13.	(Optional) You can change the default owner and the default owner group if you have the appropriate permissions.

14.	Under Default Parameters, click Projects  .
	Select a project in the Assign to Project dialog box and then click OK .
15.	The list contains the projects that are available in Teamcenter and of which you are a member. You can select one or more projects.
Note: You can change the assignment of projects later by selecting the File → Utilities → Projects tab.	
	Click on Test run  to perform a simulated import.
16.	After completion of the simulated import process, the Information window displays how the parts and assemblies were imported. In the Information window, check that all information, including import action, naming technique, directory path, etc., is correct.
17.	Close the Information window.
18.	In the Import Assembly to Teamcenter dialog box, click OK to start the import.
19.	Check in the window Information , whether the import took place as expected.
20.	Display the imported items in Teamcenter Navigator .

4.3.2 Import an assembly with a family of parts

When you import an assembly with elements of a part family, it is assumed that the assembly was exported from Teamcenter with the Automatic Conversion option and that the elements of the part family were replaced by the part family template during export.

1.	Choose in the tab File →  Import assembly into Teamcenter .
2.	In the Parts to Import group, click Assemblies or Select Parts  and select the template part of the assembly and part family.
3.	Select the entry BS file name under Convert names and attributes in the Numbering source list.
4.	Select the entry As ID and Change Status in the Conversion Rule list.
5.	Select the other options in the Import Assembly to Teamcenter dialog box as required and perform the import. The DB_PART_NO database attribute created during import for the part family element matches the DB_PART_NO attribute stored in the template part for the part family element. This ensures that the correct family item is found in the database when items are regenerated from Teamcenter during later loading operations.

4.3.3 Importing a part with a drawing

If you set the user standard **Treat part with drawing sheet as Non-Master** and then import your parts into Teamcenter using the command **Import an Assembly in Teamcenter**, the parts that contain drawing sheets are automatically identified as Non-Master Parts during the import process.

Note:

NX informs you that the drawing parts will be converted to non-master.