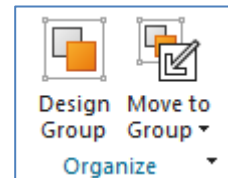


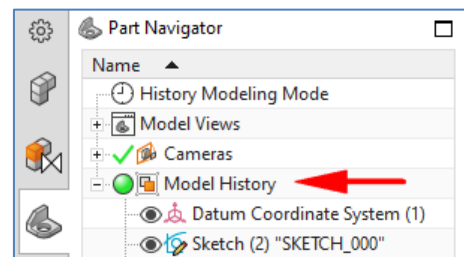
NX-Design Groups

The Design Groups are a structuring tool in the Part-Navigator. Especially with larger components, the user has the option of ensuring greater clarity and organization. It is easier to manage 10 groups with 100 form elements each than one group with 1000 elements.

The Design Groups have their own group with the name 'Organize' on the 'Home' ribbon bar (see image on the right). Alternatively, you can also assign the two commands using the command search, for example.



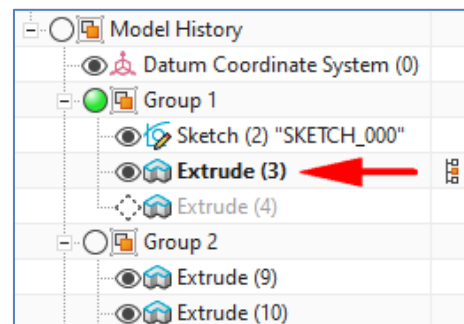
Each part in NX automatically has a construction group. The green-filled circle (see image on the right) is the symbol for the active Design Group. This means that the Model History as the top node is an active group by default. **Only one group can be active at a time** (inactiv: ○ | activ: ●).



Create new groups:




The 'Design Group' command can be used to create an additional design group. Pay attention to the currently active group and the position of the timestamp, as the new construction group is created in the currently active group after the last active form element. Nesting is therefore possible. In the image on the right, the new design group would now be created behind the 'Extrude(3)' form element in Group 1.



The groups can be expanded or collapsed using the leading '+' and '-' signs. This makes the Part Navigator tree much clearer.

The group names can be freely selected when creating or subsequently. The 'Rename' function can be found in the pull-down menu of the right mouse button when a group is selected in the Part Navigator.

The following conditions apply when working with groups:

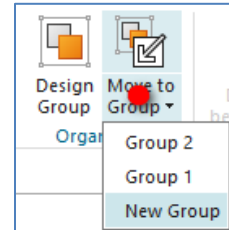
- A form element in a later group can reference geometry from an earlier group.
- Form elements that change bodies (e.g. holes, fillets, chamfers ...) can only be applied to bodies in the active group.
- With Boolean operations, you can also select tool bodies outside the group. When selecting a target body outside the active group, a copy is automatically created.
- The responsiveness of large models is improved because form elements in other groups are not automatically reset or updated. If necessary, activate the 'Delay model update' option in the 'Tools' ribbon bar.
-  If you use 'Make Current Feature', the group of the affected form element automatically becomes the active group.

Move form elements into a group:



The '**Move to Group**' function can be used to assign existing form elements to groups or move them to other groups. However, the order in the model history must be observed here. It is best to think about a structural concept at the start of the design and work within it straight away. There are several alternative ways to move form elements between groups.

One of the most practical is the **Drag & Drop** method. Simply select the relevant elements in the Part Navigator and drag them to the desired position by holding down the left mouse button.



Alternatively, you can select the desired group in the lower section of the function icon after selecting the element (see image on the right).

Another alternative is to call up the function itself by clicking in the upper section of the menu icon. In this case, the 'Move to Group' dialogue window becomes active. Here you can select the affected elements and then select the target group. After clicking 'OK' or 'Apply', the form elements are moved.

Deleting Design Groups:

Select the group in the Part Navigator with the right mouse button and select the '**Delete**' function in the pull-down menu. The dialogue shown in the image below appears. By selecting 'Design Group Only', the group is deleted and the form elements are added to the parent group.



Note: This function has been available since NX1899.

I would be delighted if this NX Smart tip was useful to you. Do you have any questions?
Just get in touch with me:



Your NX trainer, consultant and service provider

Dipl.-Ing. Hans-Jörg Seeland

SEELAND Informatik GmbH

Lessingstr. 16

68535 Edingen-Neckarhausen (Germany)

+49 (0)177 4433444

E-Mail: seeland@seeland-gmbh.de

Internet: www.seeland-gmbh.de