

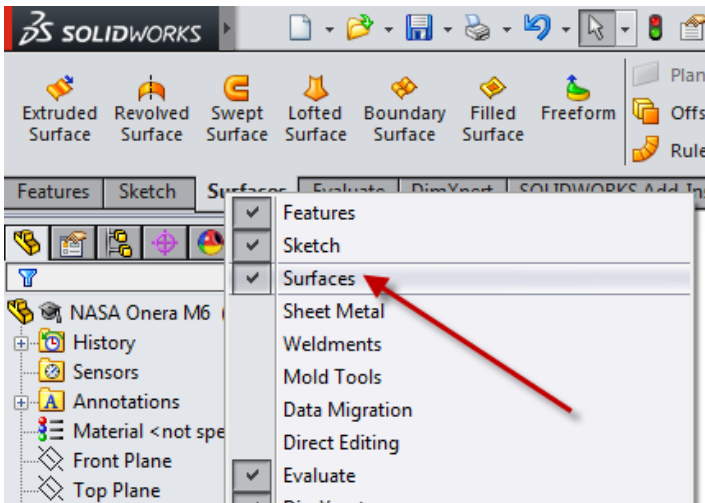
ANSYS - Importing a Surface from Solidworks to Design Modeler

To import a surface to ANSYS in the Design Modeler, you will first need to create just the surface using a CAD program, such as Solidworks. Note that these instructions also apply to importing any part or assembly from Solidworks to ANSYS; you just need to skip the step in Solidworks on adding Surfaces.

Method I

In Solidworks:

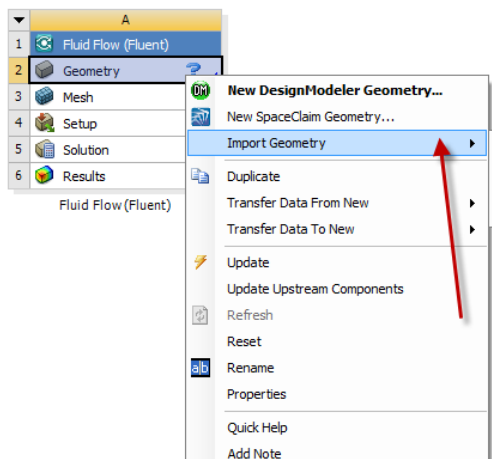
- Right-click on the Features toolbar and add Surfaces if it is not already shown



- Choose the type of surface you would like to create (extruded, revolved etc.)
- Create your desired surface
- Save the surface as a .STP file

In ANSYS:

- Create your project
- Right-click Geometry
- Select Import Geometry



- Locate your file and select it
- Go into Design Modeler and Generate

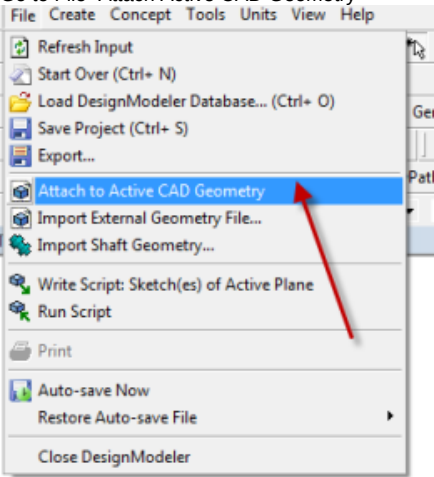
Now you should be able to see your surface in Design Modeler.

Method II

After you have created the geometry in Solidworks and saved it:

In ANSYS

- Create your project
- Open Design Modeler
- Go to File>Attach Active CAD Geometry



- Click Generate

Now you can edit your Geometry in Solidworks and refresh it in Design Modeler after you have changed it.

To refresh the geometry in Design Modeler:

- In the Details window, click Refresh>Use Geometry Parameter Values

Details of Attach1	
Import	Attach1
Source	C:\Users\avw27\Desktop\Cyl_Surface.SLDPRT
Target Geometry Type	Workbench
Base Plane	XYPlane
Operation	Add Frozen
Refresh	No
Basic Geometry Options	No
Solid Bodies	Use Geometry Parameter Values
Surface Bodies	Yes
Line Bodies	No
Parameters	Yes

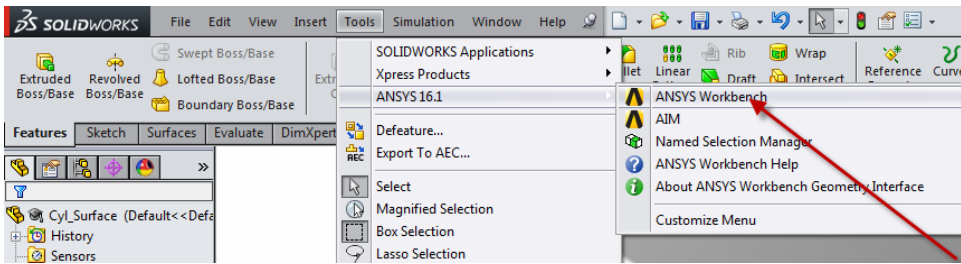
- Click Generate

Now your Geometry in Design Modeler will reflect the changes you made in Solidworks.

Method III

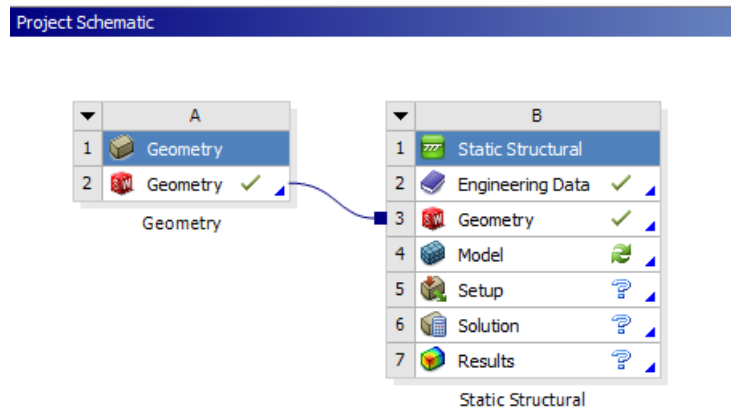
In Solidworks you can connect the geometry to Workbench:

- Go to Tools>ANSYS

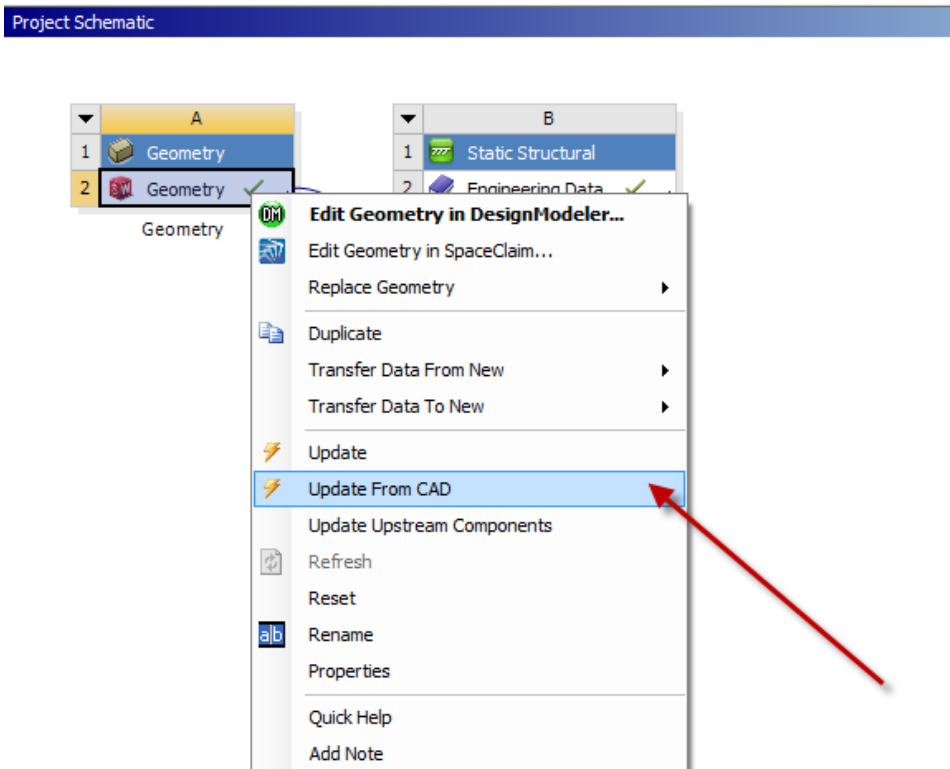


ANSYS Workbench will then open with the Solidworks file attached:

- Drag the Geometry onto the Geometry of your project



- You can then update the geometry from your CAD file directly



Now you should be able to update your geometry in Solidworks and refresh it in ANSYS