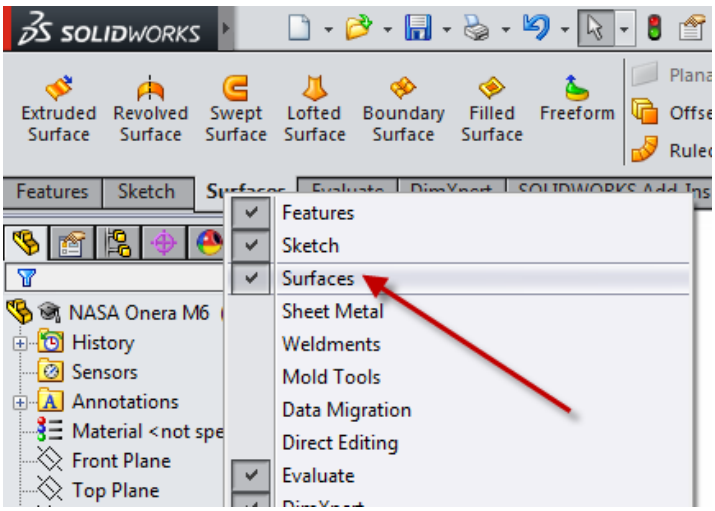
ANSYS - Importing a Surface from Solidworks to Design Modeler

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:

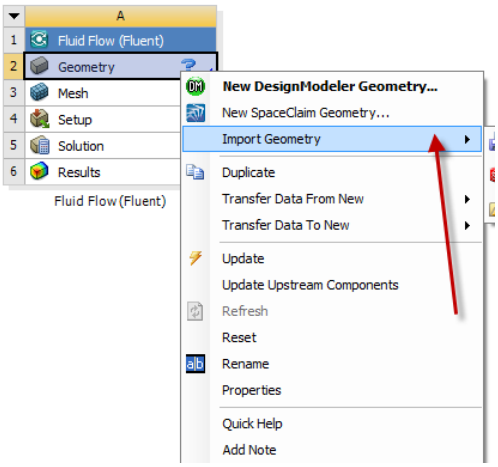
- Right-click on the Features toolbar and add Surfaces if it is not already shown



- 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

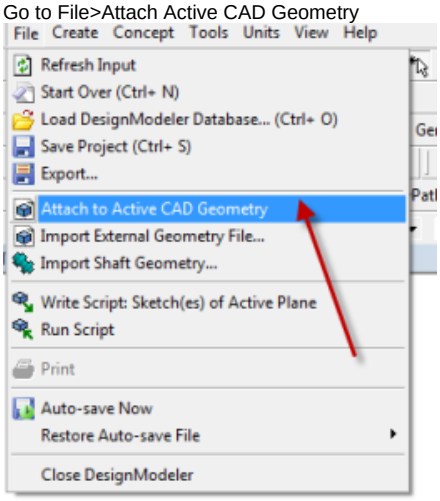
Now you should be able to see your surface in Design Modeler.

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

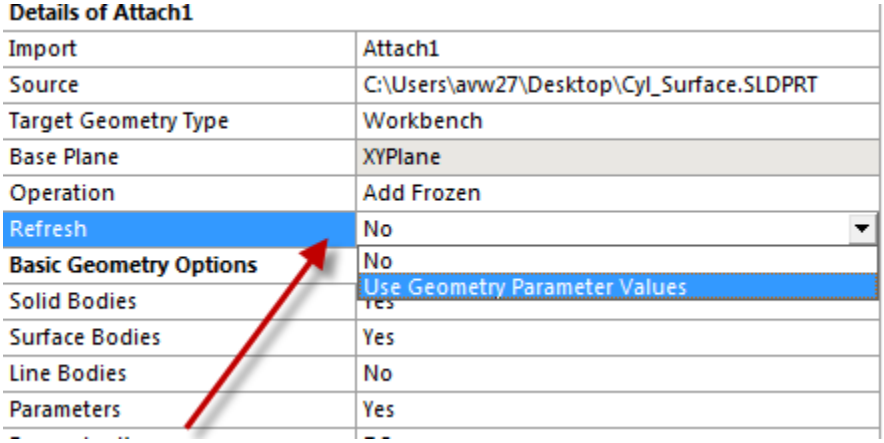


- Click Generate

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



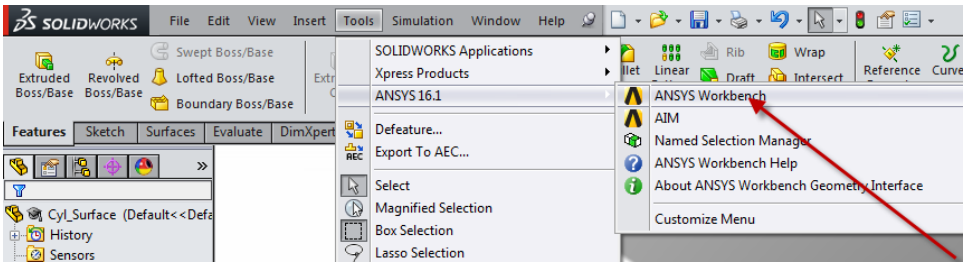
- Click Generate

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

Method III

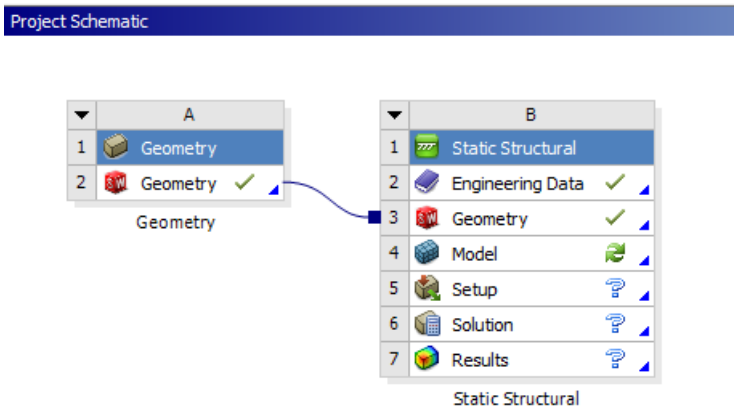
In Solidworks you can connect the geometry to Workbench:

- Go to Tools>ANSYS

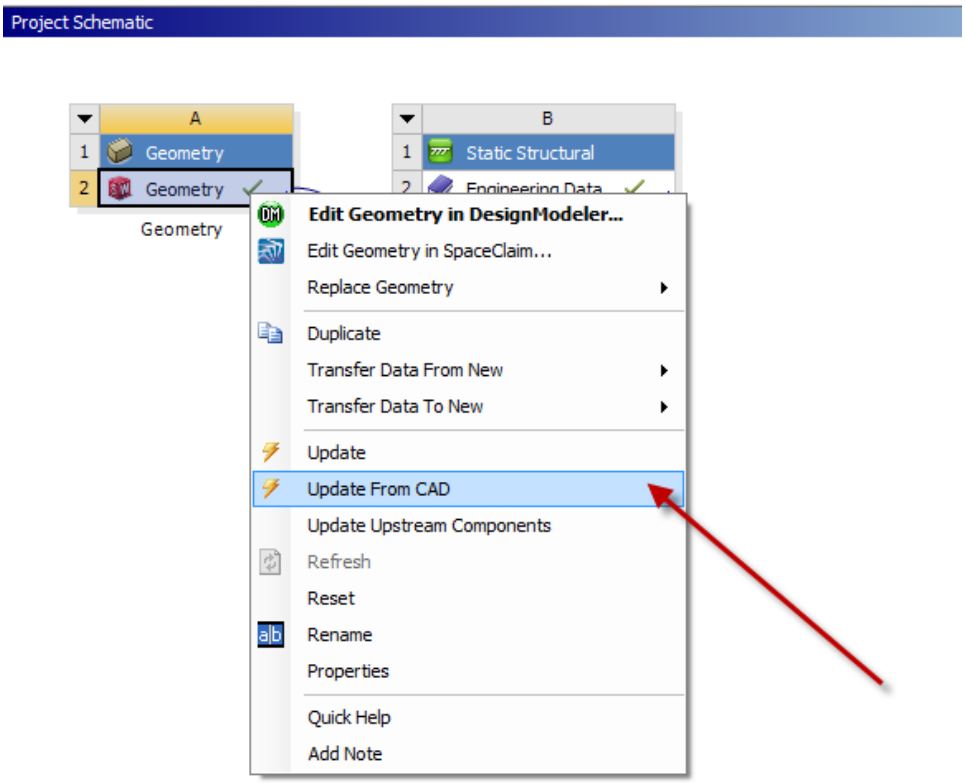


ANSYS Workbench will then open with the Solidworks file attached:

- 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