

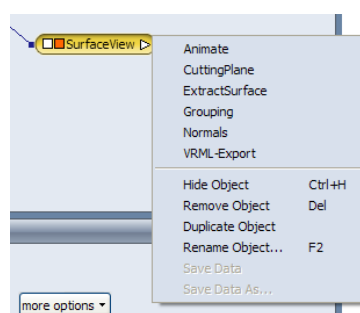
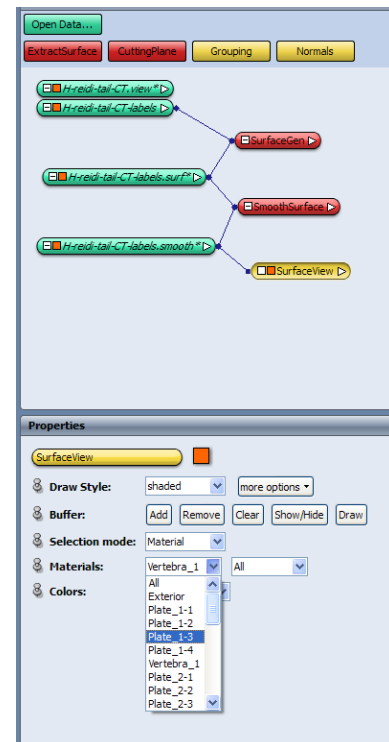
## Extracting separate surfaces

When having labelled multiple structures within one dataset, it is possible to extract separate surface files (stl, dxf, surf, or whatever format) from that dataset using the surfaceview module.

After having labelled the segments, generate a surface file using the **SurfaceGen** module. In that, a surface mesh is created of all the items included in the labelling. You can visualise them all using **SurfaceView**, where all the items are listed in the properties window below (click 'Materials').

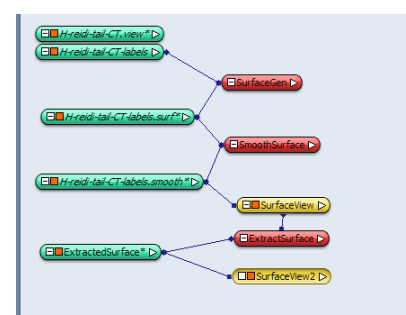
To generate a separate surface file for a selection of materials, first remove all the materials from the display. To do that, select 'All' in the left drop down. If all the materials are highlighted in red in the visual interface, then click "Remove" (if not, click "Show/Hide" after having selected 'All'). Now the visual interface should be empty.

Then select the first material from which a surface mesh is needed, by selecting it in the left drop down list, and then click "Add". The material should then appear in the visual interface. Continue to do that for all the materials you may want to include within the same surface file.



To extract a surface file now, right click on the white triangle in the **SurfaceView** module, which opens a drop down list. Then select **ExtractSurface**, after which the (red) module appears in the network. Click 'Apply' in the Properties window, and a separate surface module is generated for that material selected. To save that, click the **ExtractedSurface** module, and go to 'File' and 'Save As'. There select the file format needed.

To generate a new surface file for another material, first remove the previous one by selecting it in the Properties window of the **SurfaceView** module, and click 'Remove'. Then, select the new material, click 'Add'. Then click on 'Apply' in the Properties window of the **ExtractSurface** module, and the new surface data is included in the **ExtractedSurface** module (so no need to add a new **ExtractSurface** module for each surface created).



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