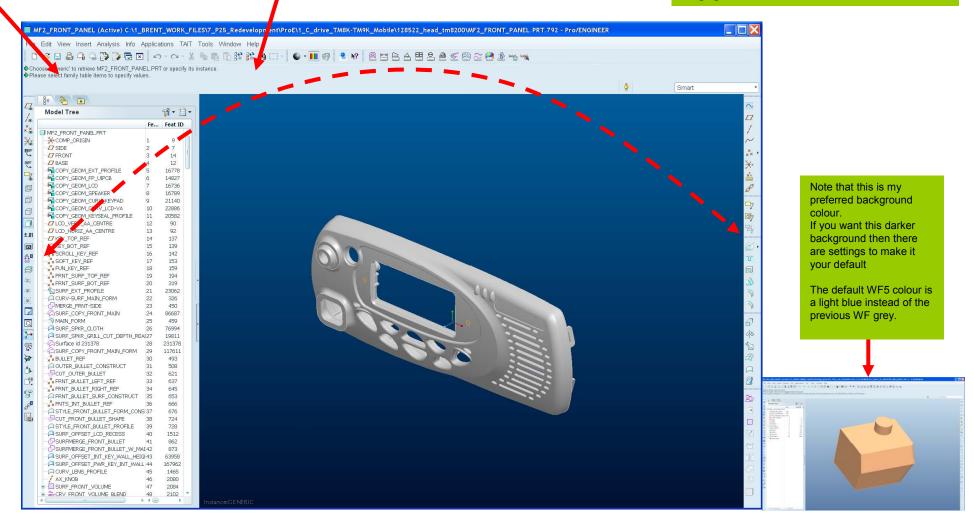
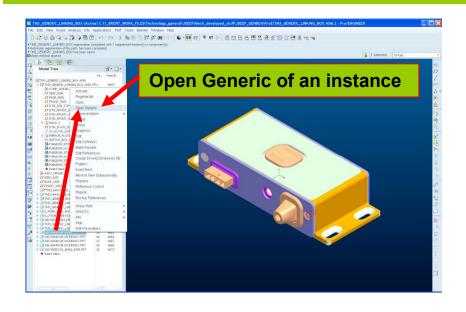
Note that all information that ProE reports will now appear here

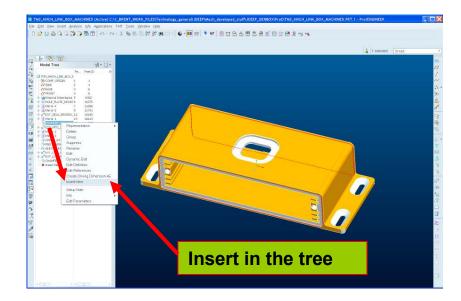
Dashboard and message bar are now on top of the model window (no option)

Change to Appearance/ workflow



Right Mouse Button. RMB has two great tree functions added



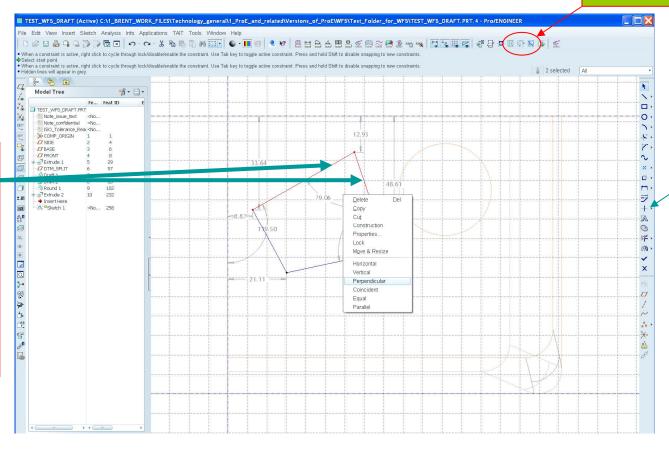


Also RMB has more context sensitive options in many areas.

Right Mouse Button. RMB has Sketcher constraints added

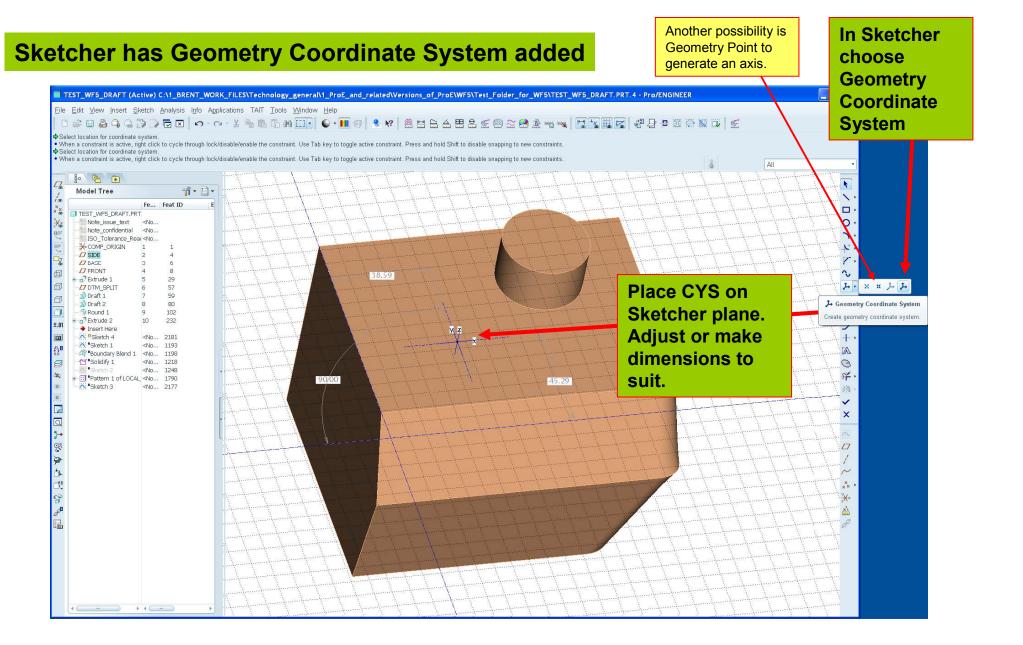
Reminder. These Sketcher checking tools were introduced in WF4. No they cannot be set on by default but they do stay live for each session

Select sketcher entities then RMB to get the constraint options at the bottom of the list.
Options are context sensitive.



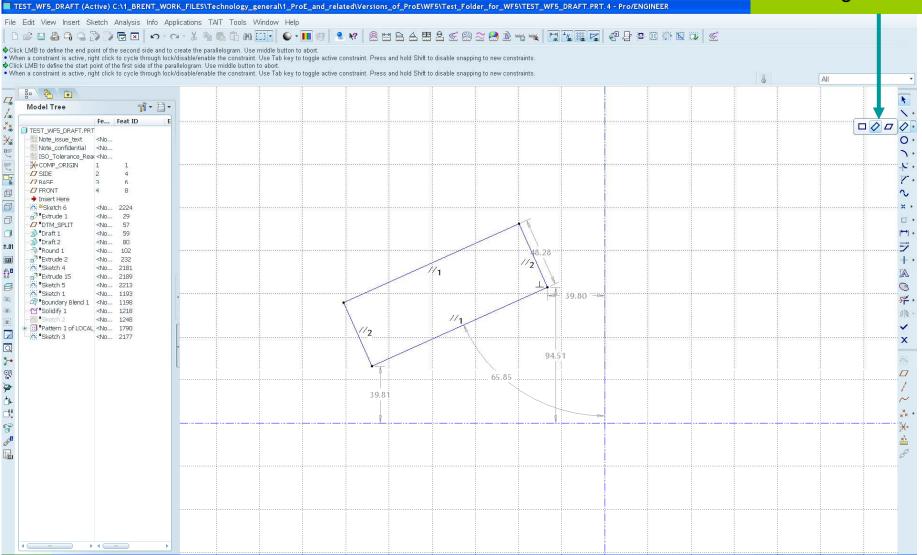
Changed Constraints Icon.

It looks
different to
the previous
icon. In fact
it shows the
last
constraint
used.
If clicked you
get a fly out
window with
all the
constraints



Slanted Rectangle

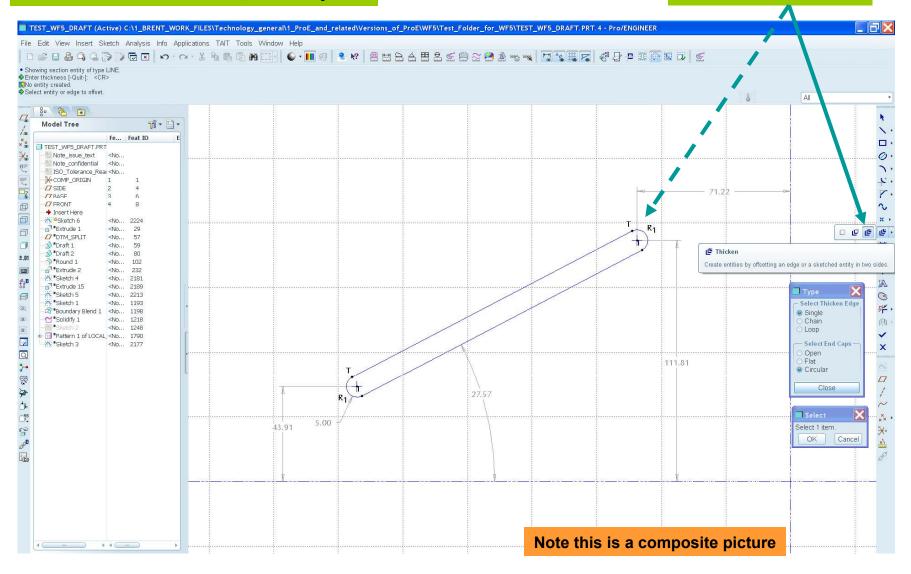
Parallelogram



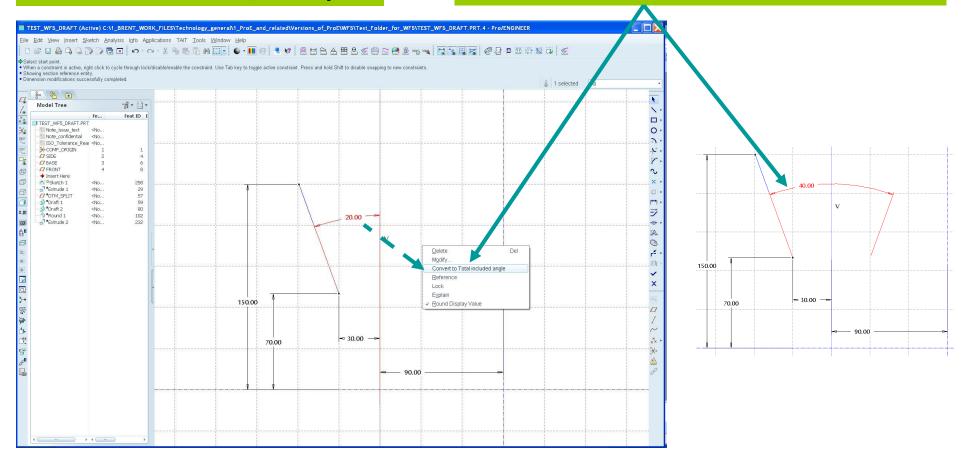
Chamfer More Sketcher stuff; examples TEST_WF5_DRAFT (Active) C:M_BRENT_WORK_FILES\Technology_general\1_ProE_and_related\Versions_of_ProE\WF5\Test_Folder_for_WF5\TEST_WF5_DRAFT.PRT.4 - Pro/ENGINEER File Edit View Insert Sketch Analysis Info Applications TAIT Tools Window Help ⚠Dimension(s) to endpoint(s) deleted Select two entities. Select two entities. Model Tree | TEST_WF5_DRAFT.PRT 77 - -Fe... Feat ID 0. -- Note_issue_text <No... Note_confidential <No... ISO_Tolerance_Rear <No... → COMP_ORIGIN 1 ☑ SIDE /7 BASE → Insert Here 133.70 Sketch 6 <No... 2224 Extrude 1 0 D . ✓ *DTM_SPLIT <No... 57 nDraft 1 <No... 59 Draft 2 <No... 80 Round 1 Select 1 item. Extrude 2 <No... 232 Sketch 4 <No... 2181 OK Cancel 128.52 Extrude 15 <No... 2189 Sketch 5 <No... 2213 3 N Sketch 1 <No... 1193 SIN ■Boundary Blend 1 No... 1198 00 39.80 → <No... 1248 ⊕ 🗊 Pattern 1 of LOCAL <No... 1790 \mathbf{Z} Sketch 3 X Q 155.85 39.81

Ellipse More Sketcher stuff; examples Diameter or radius driven TEST_WF5_DRAFT (Active) C:\1_BRENT_WORK_FILES\Technology_general\1_ProE_and_related\Versions_of_ProE\WF5\Test_Folder_for_WF5\TEST_WF5_DRAFT.PRT.4 - Pro/ENGINEER File Edit View Insert Sketch Analysis Info Applications TAIT Tools Window Help When a constraint is active, right click to cycle through lock/disable/enable the constraint. Use Tab key to toggle active constraint. Press and hold Shift to disable snapping to new constraints. Select end point of the major axis of the ellipse . When a constraint is active, right click to cycle through lock/disable/enable the constraint. Use Tab key to toggle active constraint. Press and hold Shift to disable snapping to new constraints. All N Model Tree Fe... Feat ID □ + ■ TEST_WF5_DRAFT.PRT 0000000 - Note_issue_text < No... Note_confidential <No... ISO_Tolerance_Rear <No... Axis Ends Ellipse ★COMP_ORIGIN 1 Create an ellipse by its major axis end points. -/7 SIDE - /7 BASE ✓ FRONT 2 118.03 → Insert Here Sketch 6 Extrude 1 <No... 29 □ · DTM_SPLIT <No... 57 <No... 59 <No... 80 - N Draft 2 ヺ Round 1 <No... 102 + • Extrude 2 Sketch 4 IA. Extrude 15 <No... 2189 Sketch 5 <No... 2213 0 Sketch 1 ≺No... 1193 Six , - 🖄 Boundary Blend 1 <No... 1198 Solidify 1 <No... 1218 0:0 <No... 1248 Pattern 1 of LOCAL No... 1790 X Q 69.51 57.71 ~ **+** 4 C ---

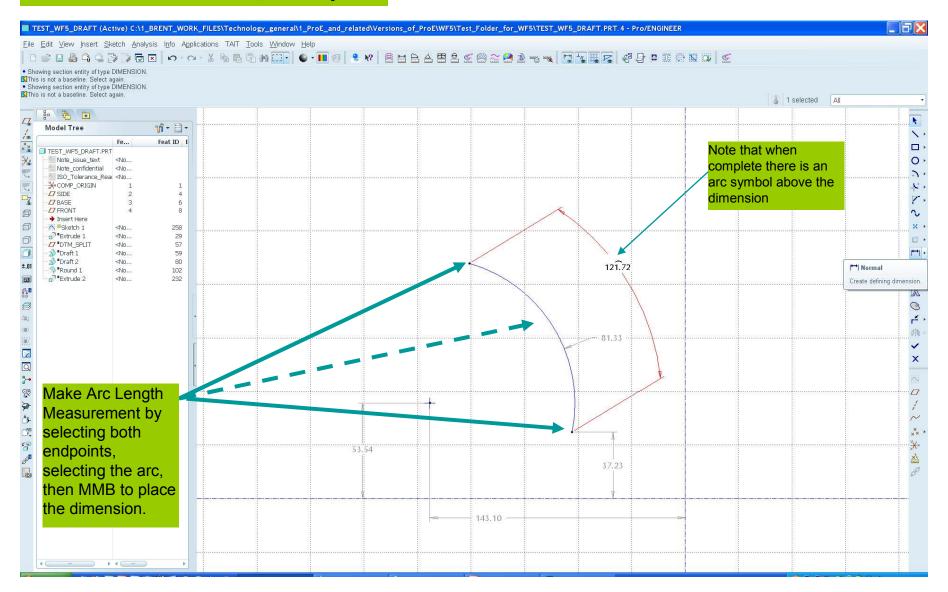




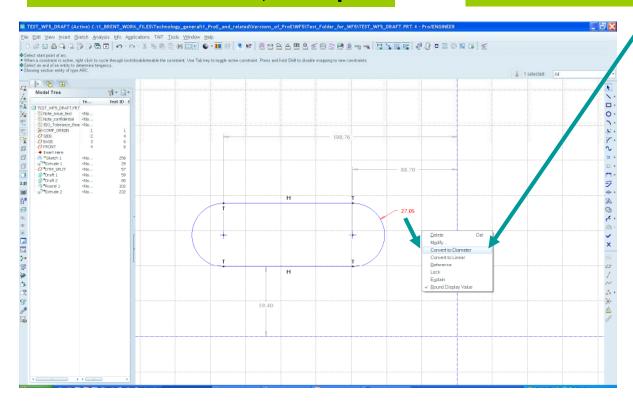
RMB; Convert to Total Included Angle (or back to angle)



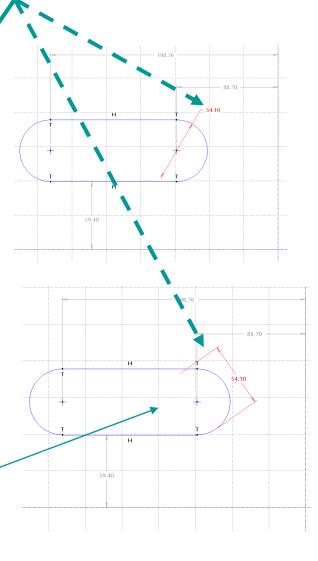
Arc Length Measurement



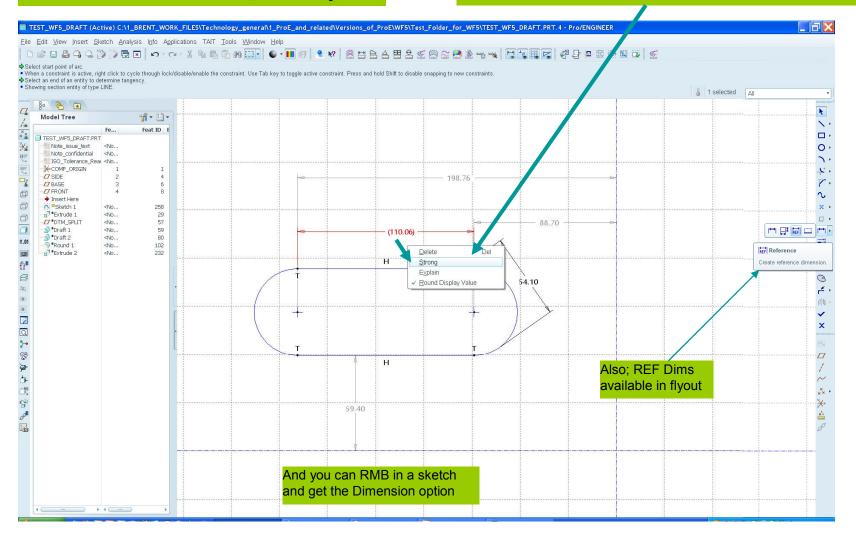
RMB; Convert to Diameter or Linear (or Radius)



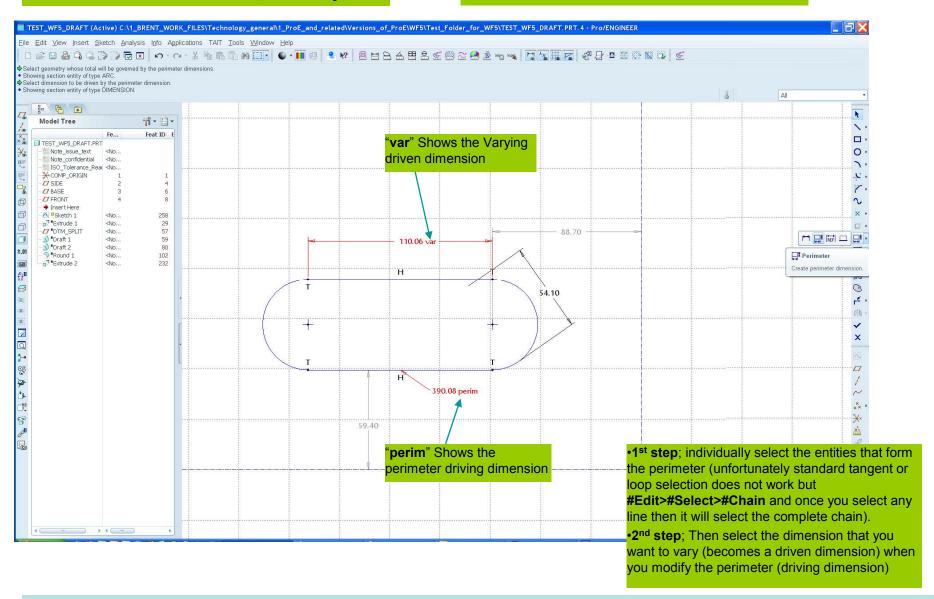
Note that Linear dimension is placed in the same orientation as Diameter dimension (i.e. you have to set up the diameter dimension before converting as you cannot drag the angle of the linear dimension)



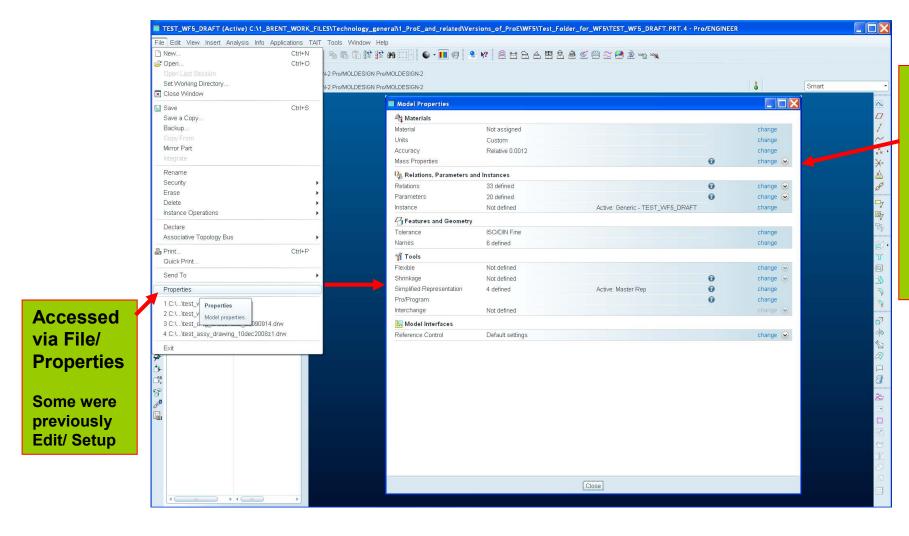
RMB; Convert to Reference dimension **OR BACK!!**



Add a Perimeter dimension (easier)



Model Properties. Whole interface reworked/consolidated.

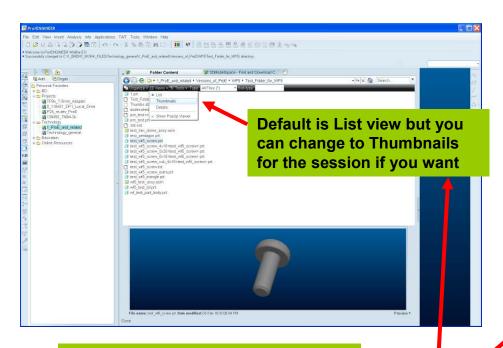


Options to change information (access other functions) or to select drop arrows to see more information.

File stuff

Thumbnails for lightweight graphical representation of ProE items and have Popups and also the now useful Preview

If you hover the pointer over the filename below the thumbnail you see a popup window of the part





Default using the browser window with Preview

Using the File Open dialogue box with Thumbnails and Preview

Note that for both ways of looking at thumbnails:

- •The files need to have been saved in WF5
- •Family Table Instances have a small grid icon in the bottom right hand corner and;
 - •Only show the generic image (not the instance [might be able to fix this with accelerator files])
 - •Do not show at all in the preview window
- •You can RMB zoom/rotate/pan in the preview window
- •You can LMB click on assembly items in the preview window and change to just that part

Occasional ProE lockup due to browser = IE8 (M010)

To get this as a default you need a custom.txt file (trail file) that runs when you start up WF5.

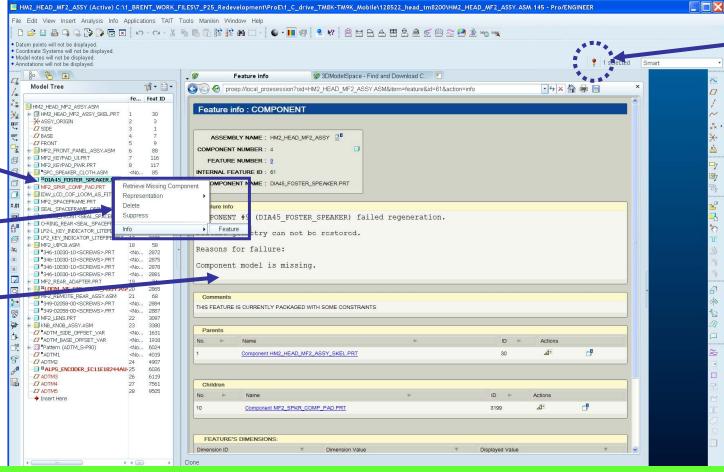
File stuff

Retrieve now brings Models and Assemblies with failed stuff.

Missing, unplaced, or unable to regenerate parts/ features

Contextual RMB functionality

Example Info Window

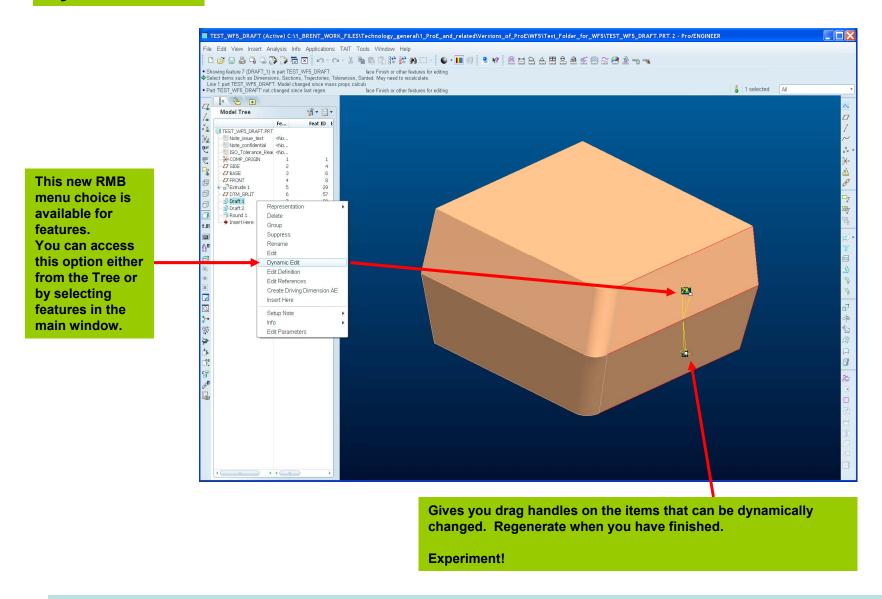


Look for this traffic light icon. The red liaht indicates a failed part/feature. Green is OK. Click on this to show Failed features or parts. Not sure about yellow

As before you have to choose how to deal with the failures; however now you can see the whole scope of what you are working with and fix things in your own schedule rather than have to repair each thing as it comes up.

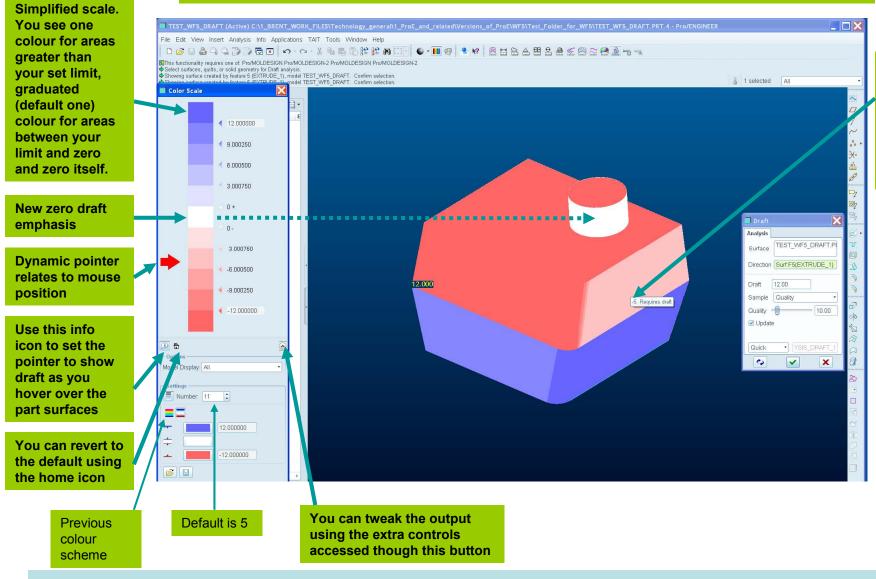
The potential downside is that people could leave things without fixing them but there is a warning when you save.

Dynamic Edit



Draft

Change to simplify the draft analysis tool = clearer results



Mouse position shows draft at that point.

Note that cursor itself is not shown in this example due to image capture limitations

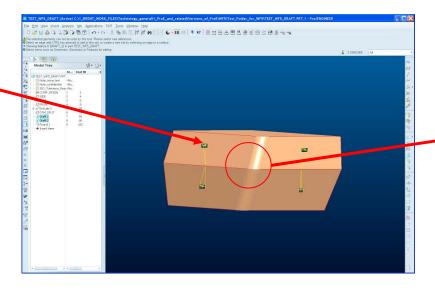
WF5 Changes/ Enhancements (seeming most interest to Tait)

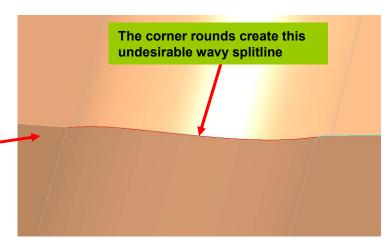
Draft related

New tool to give correct splitline for radii

Example showing each of the four visible draft faces are drafted at different angles.

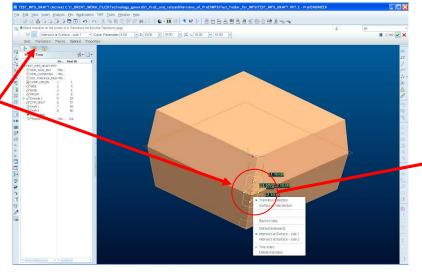
Traditionally it has been a problem to get the correct splitline transition when adding a round in this situation





Example of same radius with new transition tool (via RMB or menu) used to align the two radii ends to be true to the desired splitline.

Experiment!



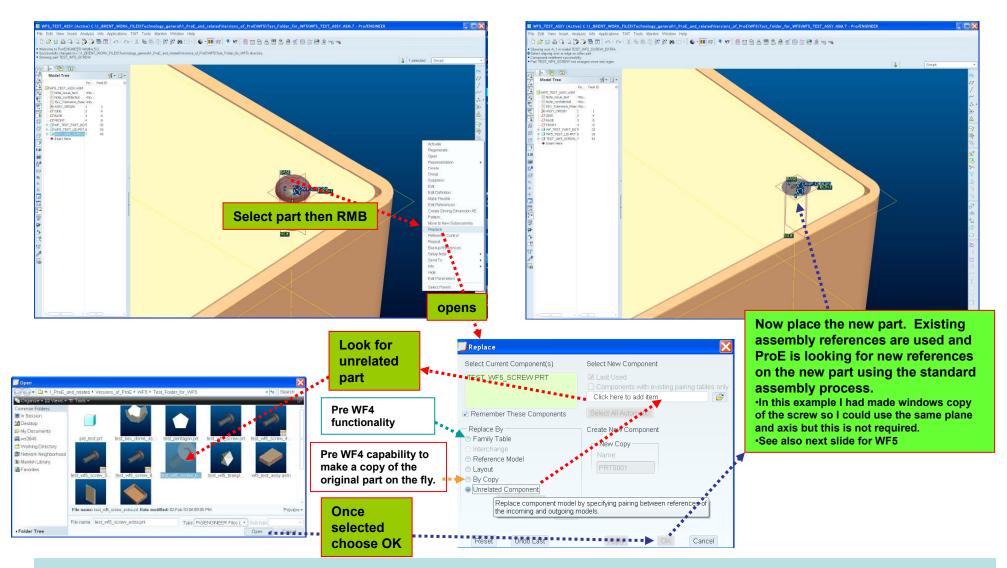
The corner rounds now create this true flat splitline
Seems pretty robust
Note that this distorts the round itself to a conic.

With the new round transition type, you can select the following items:

•Round radius to be preserved when 2 rounds meet at a parting line
•Length of the transition of the other round

Part replacement

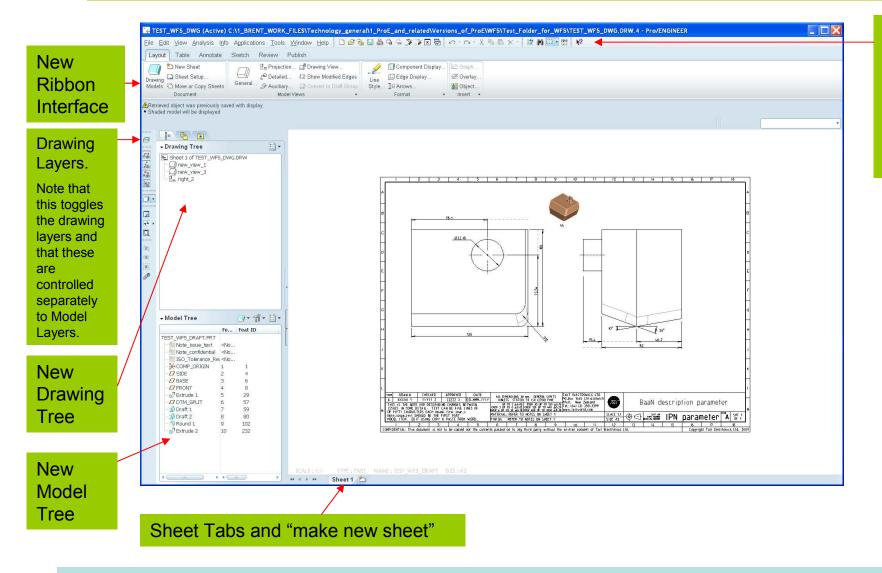
Unrelated Part Replacement was introduced with WF4 and has been extended in WF5.



Part replacement; continued File Edit View Insert Analysis Info Applications TAIT Tools Manikin Window Help · Loading 2 tolerance tables . Select component(s) to be replaced. · Loading 2 tolerance tables . Loading 2 tolerance tables & 2 selected Surface ASM0001 (Active) - Pro/ENGINEER Reference Pairing Table File Edit View Insert Analysis Info TAIT Tools Window Help File Options Outgoing Components: 2 selected Surface 1 elms: [40]TEST_WF5_SCREW.PRT Evaluate Model Tree 🎢 ▼ 📋 ▼ Incoming Components: Fe... Feat ID Evaluation Rules >> ASM0001.A Show Optional Pairing Tags # 16 TEST V1 # 60TEST_2 2 Rule Referedce Status Tag Reference Status → Insert H (id 9) FRONT. TAG 0 (id 9) FRONT:F... 0 Manual TAG_1 (id 43) A_1(AXIS... 6 (id 43) A_1(AXIS... + Manual Evaluate using rules. In the case of copied P_ORIGIN parts this may be all that is required. lew Component onents with existing pairing tables only WF5_SCREW_EXTRA.PRT + - | OK Cancel Create New Component Replace By Family Table New Copy Or manual similar to old Reference Mode **Interchange Assemblies** Layout | Unrelated Component Edit Ref Table Clear Cancel A 6 Undo Last

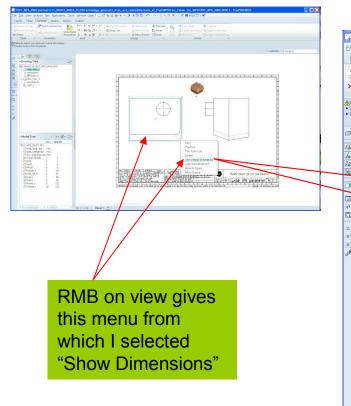
Drawing Interface. Complete revision. Uses the MS Ribbon Style Interface

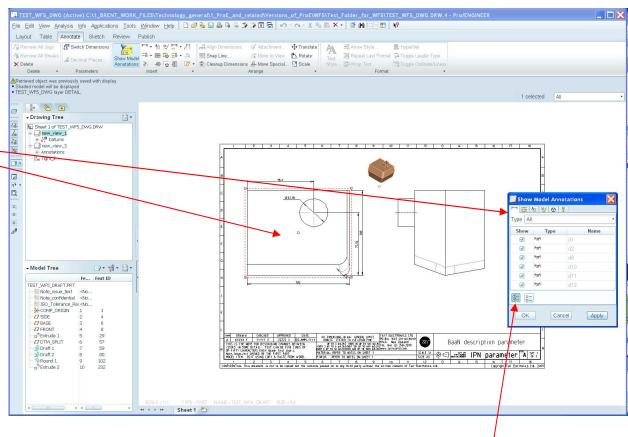
You generally need to be in the correct TAB to do those functions [RMB gives different options]



Note that I have altered Menus and icons on top bar to be as close to the other ProE windows as practicable

Drawing Interface. Ribbon example. Annotate. Show Dimensions.





Selection choices.
All, None, or
Individual checkbox.