

Updates in ProTOp 6.2



CAESS ProTOp
Version 6.2 Build 210801
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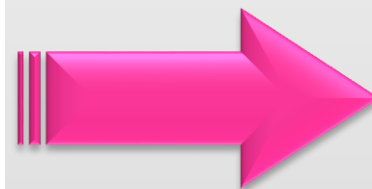
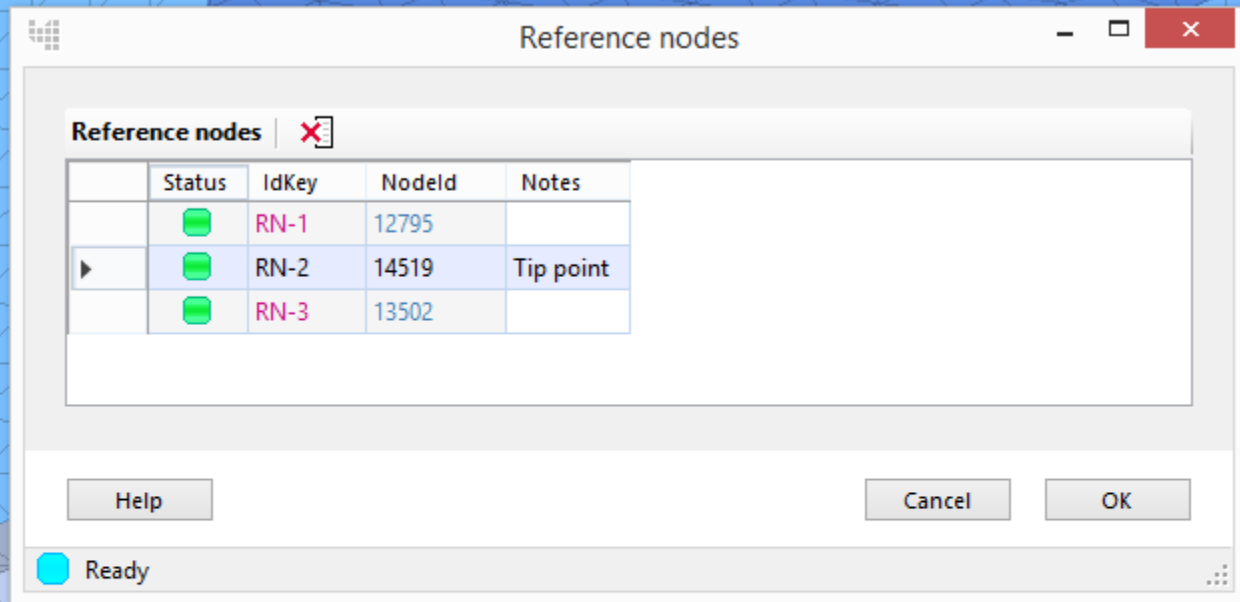
Upgraded ProTOp 6.2

- Reference node targeting
- Improved response fields display
- Updated mesh refinement tool

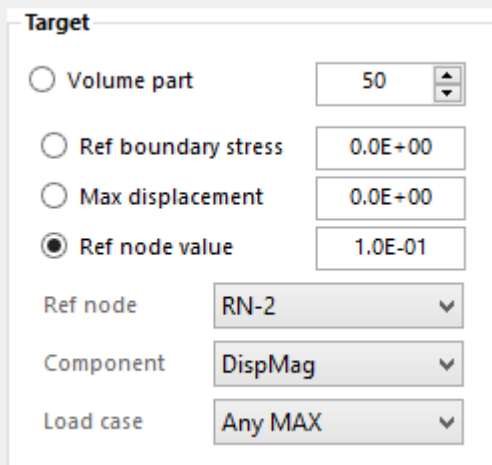
Main updates review table

Update	Benefits/Options/Features
1. Reference nodes	<ul style="list-style-type: none">▪ Any number of reference nodes may be defined by the user▪ Benefit: topology optimization targeting based on various response values of the target nodes (displacement components, stress; maximized over load cases or based on a particular selected load case)
2. Response fields display	<ul style="list-style-type: none">▪ Custom selection of volume regions to be shown in response fields display▪ Individual displacement components can be shown▪ Response values of reference nodes for a individual load cases are shown in a table
3. Mesh refinement tool	<ul style="list-style-type: none">▪ Updated and corrected mesh refinement tool
4. Other	<ul style="list-style-type: none">▪ Various minor improvements and corrections ...

Reference nodes



- Define any number
- Use for targeting in topology optimization



Response fields display

Select material regions to show

- M-1 TIALLY_FIX
- M-2 TIALLY_UPP
- M-3 TIALLY_R
- M-4 TIALLY_L

Combine fields by using the MAX operator

Individual field of the selected load case

	Status	IdKey	Name	ImpFac
▶	<input checked="" type="checkbox"/>	LC-1	LC_LC_HOR_X	0.2136
	<input checked="" type="checkbox"/>	LC-2	LC_LC_VERT_-Z	0.762
	<input checked="" type="checkbox"/>	LC-3	Combined	0.02446
	<input checked="" type="checkbox"/>	LC-4	Eigen	0

Deformation scaling

Fixed deformation scaling factor

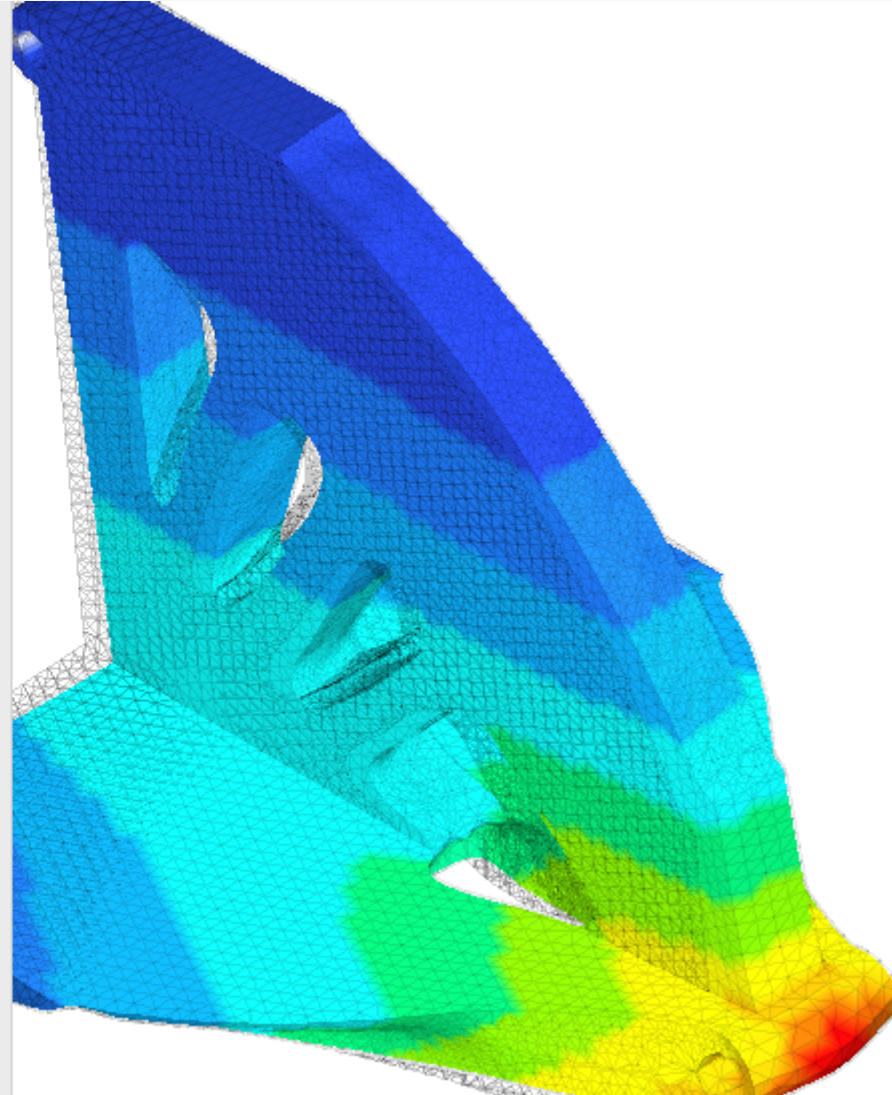
Displacement component to show

Component

Show domain wireframe

Reference node values of the selected load case

	IdKey	Notes	NodeId	DispMag	DispUx	DispUy	DispUz	AMStres
▶	RN-1		12795	0.005641	0.00523	-3.056E-05	-0.002112	5.204
	RN-2	Tip point	14519	0.002411	0.002145	-2.817E-06	-0.001102	1.16
	RN-3		13502	0.002411	0.002336	5.793E-05	0.0005932	0.5903



- Custom selection of volume regions to show
- Display of individual displacement components
- Reference node response values