

June 2015

CADFIX 10/SP1

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- Import/Export
 - CAD version updates
 - NX10
 - CATIA V5 – 6 R2015 (R25)
 - SW2015
 - Improved PLMXML export
 - Improved multi-file STL export
- Wizard
 - Auto-load of system specific .cwc
- Assemblies
 - Browser shows parts in components
 - Selected parts can be moved between components
- Morph
 - Much improved mesh->Brep matching stage
 - More import formats supported
- 3D Printing
 - Improved and more robust slicing
- Facets
 - Facet solid to BRep upgrade tool
 - Improved segmentation and parameterisation
- Join/Split/Offset
 - Improved quality for joined faces
- Build
 - Improved face splitting tool
 - Improved sweep creation tools
- GUI
 - Framing and centring in assembly mode now fully supported
 - Auxiliary part display short-cuts
 - Miscellaneous improvements
- Misc.
 - Extended CFI api
 - New PLUGIN/XCMND extensions
 - Bugfixes.

Import/Export

- CAD version updates
 - NX10
 - CATIA V5 – 6 R2015 (R25)
 - SW2015
- Improved PLMXML export
 - JT part files now named with part name
 - .plmxml file structure contains PartNumber and Nomenclature fields
- Improved multi-file STL export
 - Grouping options for multi-file STL export now

Wizard

- Auto-loading of target system specific .cwc files
 - New user/site config option to specify a .cwc to be loaded automatically when a target system is selected.
 - Useful as currently a .cwc file can only configure one target system
 - Example: In user's .CADfix1000 config file:

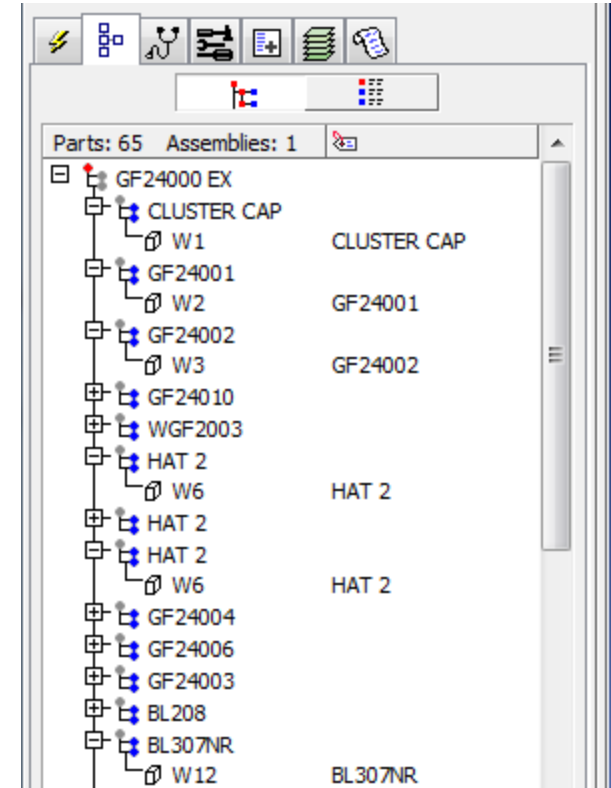
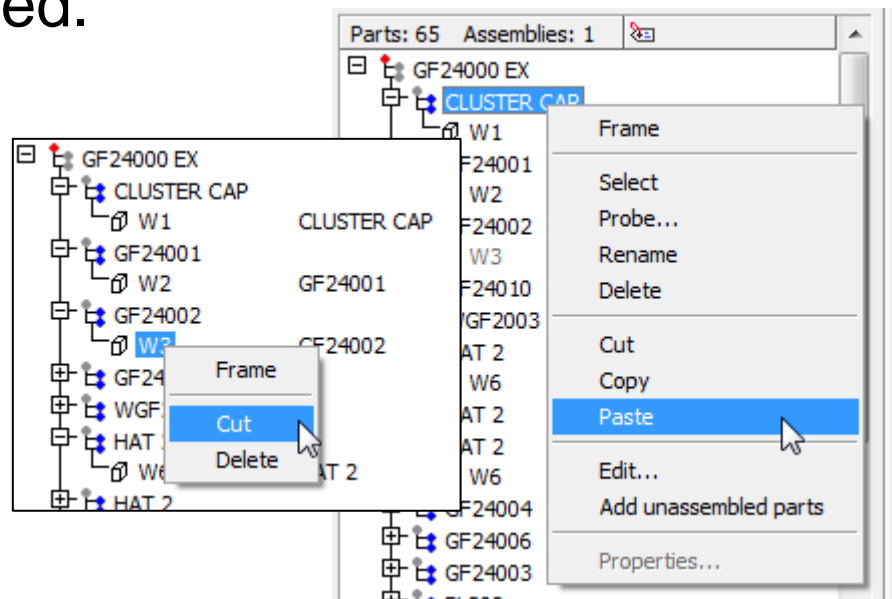
```
*famgui.wizardConfig(CATIA4): C:/myCWC/toCATIA4.cwc
```

```
*famgui.wizardConfig(CATIA5): C:/myCWC/toCATIA5.cwc
```

- Target system ID must appear inside the () after wizardConfig.

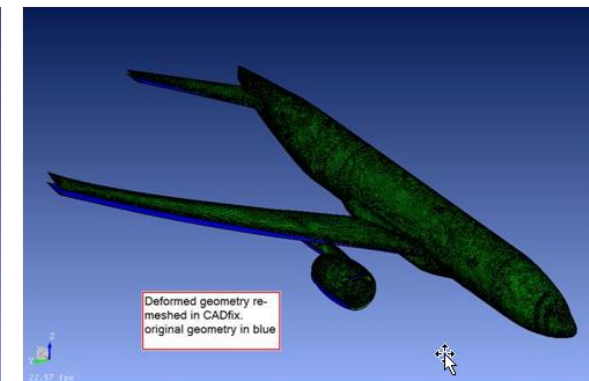
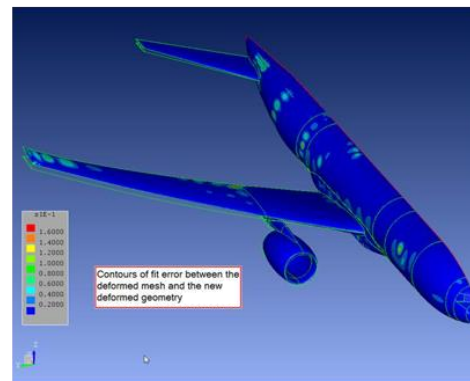
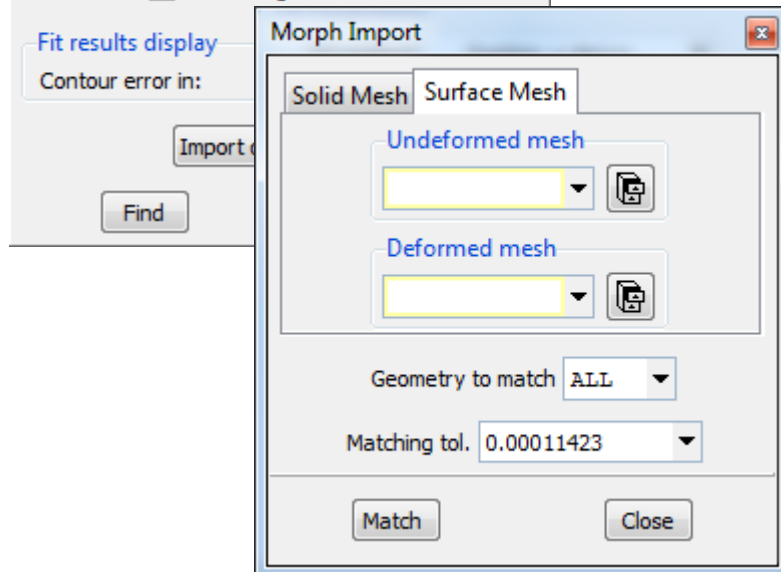
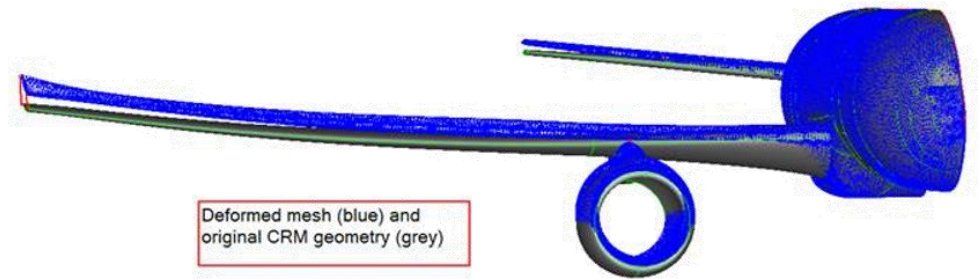
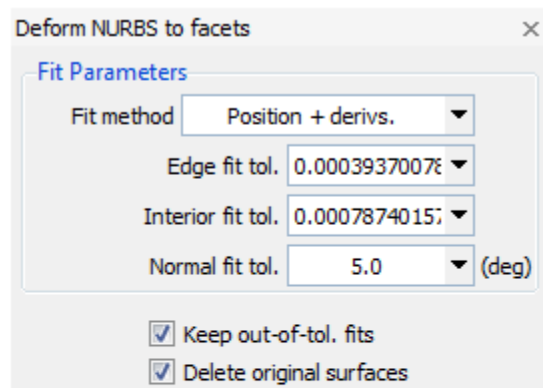
Assemblies

- Assembly tree now shows parts listed for each component, with label attribute
- Selected parts can be moved between components. 3D position in assembly preserved.



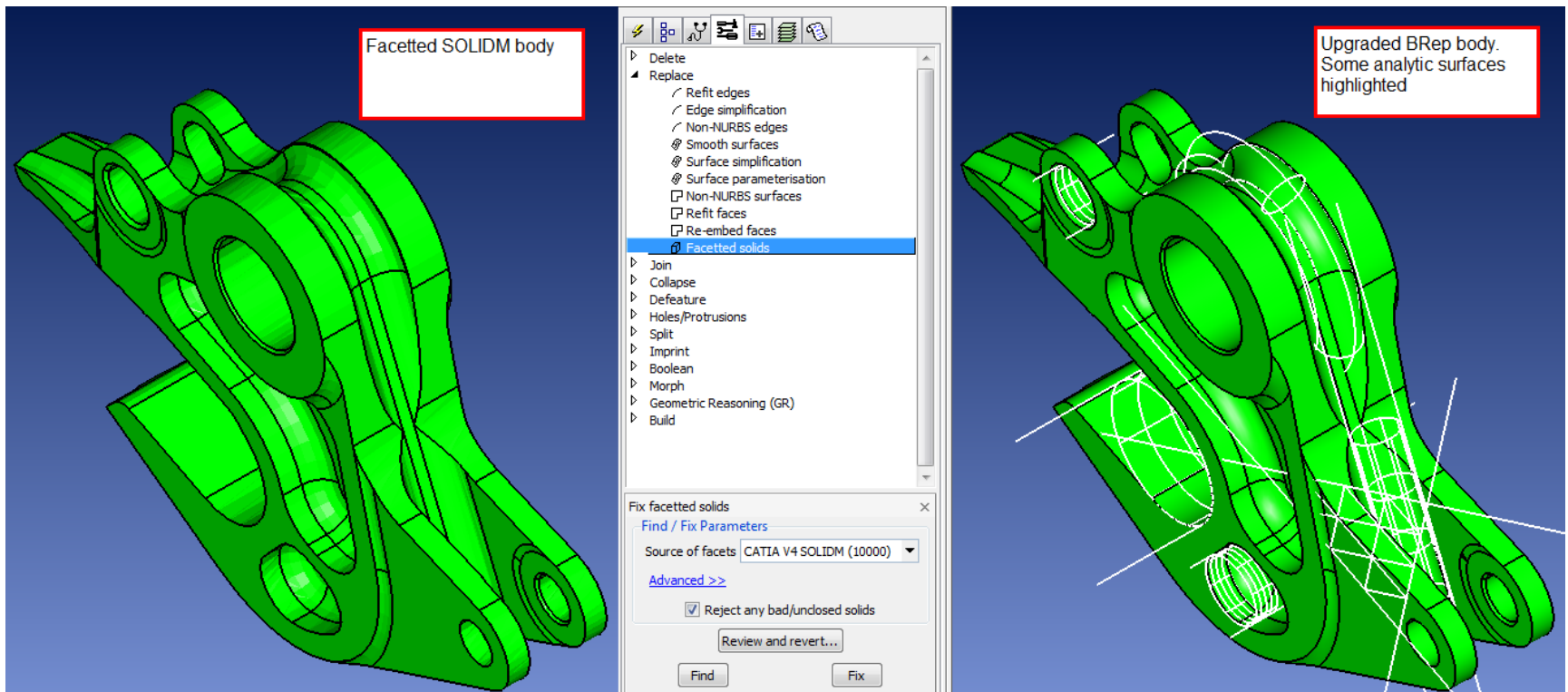
Morph

- Much Improved Robustness and Speed
- Expanded support for external mesh import



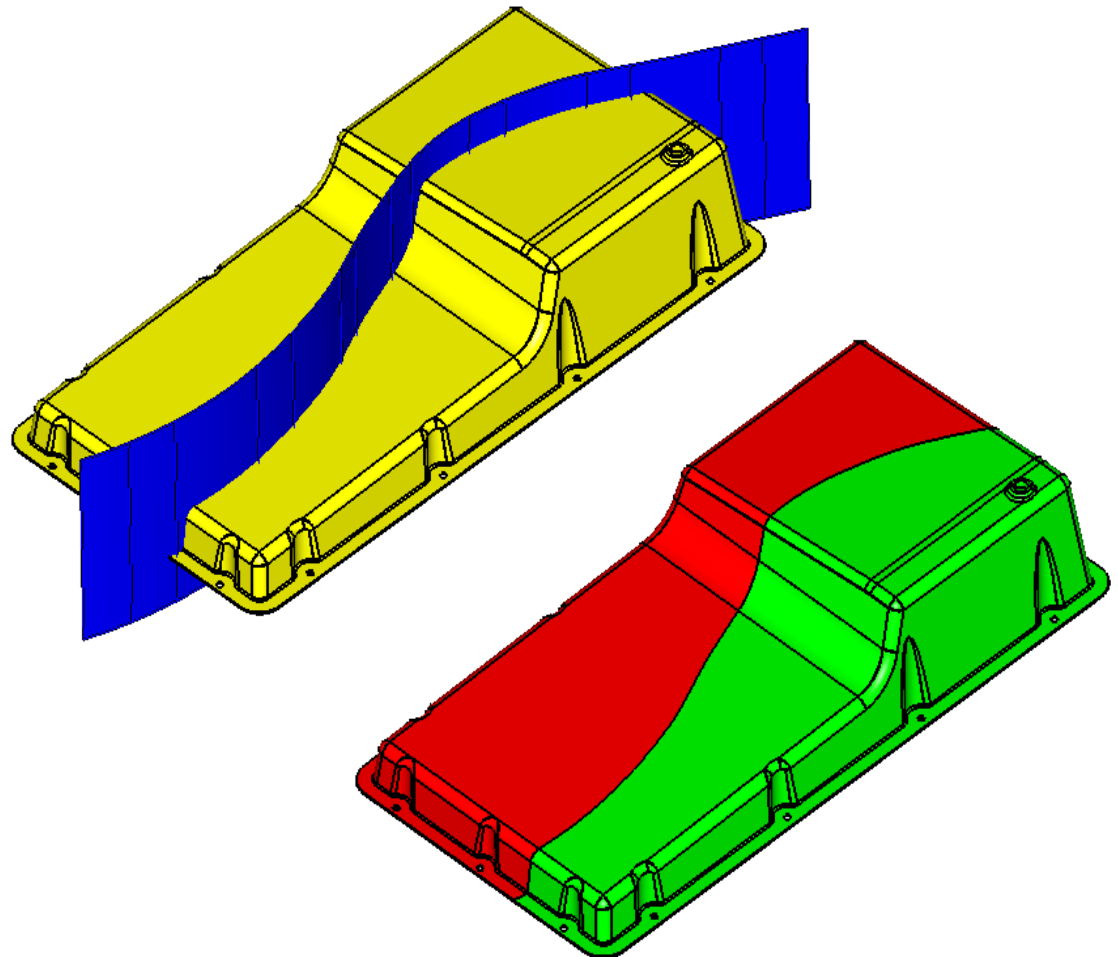
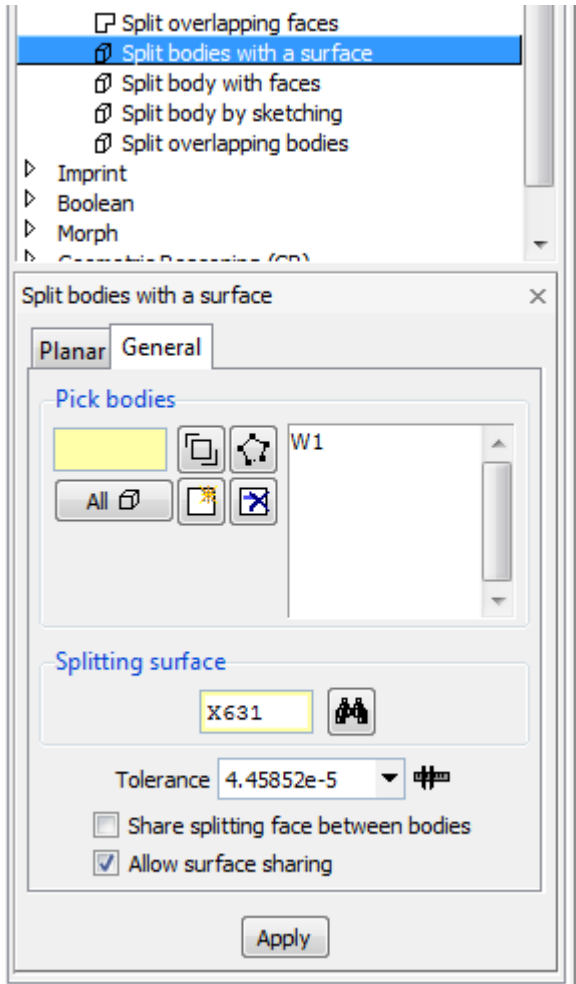
Facets

- New Facet Solid to Brep Solid Upgrade Tool
 - Developed initially for upgrading CATIA V4 mock-up solids (SOLIDM)
 - Results in an exact Brep solid that can be exported to any CAD system for further interactive design or as a precise reference part.



Split

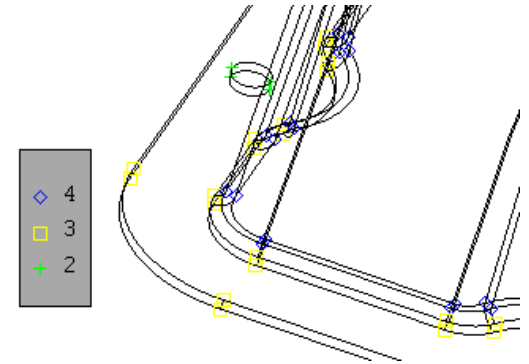
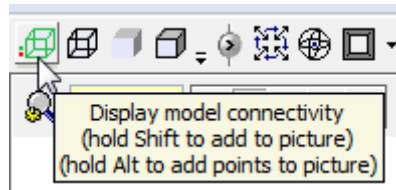
- New Tool for Splitting With an Arbitrary Surface



GUI

- New alternative display actions for auxiliary parts
(access by holding down Alt key)

- End point connectivity



- Embedding surfaces
 wireframe
or
 shaded
or
 both

