

#### CADfix PPS 3 "What's new"

Mark Gammon CADfix Product Manager May 2020



- Import
  - Support for latest CAD versions
  - New ability to merge models
  - New auto clean-up during import
- Export
  - New CATIA V5 (BREP+CGR)
  - Support for latest CAD versions
- Attributes
  - Support for transparency
- Batch
  - New option to use a saved keep list

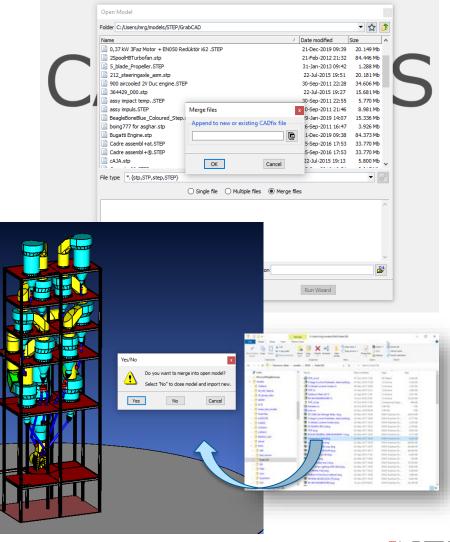
- Auto-simplification
  - Improved results and performance
  - New save/load of a keep list
- Manual tools
  - New extrude face tool
  - New facet decimation tool
- GUI
  - New layout
  - New model progress tool
  - Faster display and selection
- Documentation
  - New html help manual

- Import
  - Latest CAD versions supported:
    - DXF/DWG 2019
    - SolidWorks 2020
    - SolidEdge 2020
    - CATIA V5 R2020
    - NX 1847
    - Creo 6.0
    - ACIS 2020 1.0
    - Parasolid 32.0
    - JTOpen 10.5

- Closed surfaces split during import - improved model shading
- Import of transparency attribute
- Faster Creo import
- New import option to promote face colours to bodies

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ame	1	Date modified	Size	^
3D-Oil& Gas-Storage Tank:	CAD Import	2017 18:36	26.819 Mb	
5-Stage Cyclone Preheater	CAD Import	2017 18:49	5.177 Mb	
12 Model Cyclone Cluster.c	General Attributes Assemblies	2017 18:35	2.352 Mb	
0219OM02-REV.3.dwg	Attributes	2017 18:52	2.109 Mb	
797F.dwg	Attributes	2017 18:43	4.852 Mb	
BOILER GENERAL ARRANG	✓ Import colours	2017 19:03	1.310 Mb	
Compressor Unit.dwg	✓ Import layers	2017 18:58	4.521 Mb	
engine room_02.dwg	✓ Import labels	2017 18:59	60.942 Mb	
FILTER BUILDING-max.dw	Import persistent IDs	2017 19:07	49.449 Mb	
FLASH STEAM BOILER.dwg	Promote face colours to bodies	2017 18:37	49.304 Mb	
Goldrum Filters 3D.dwg	_	2016 17:36	8.203 Mb	
Kramasan.dwg	Promote face colours to	bodies where 18:42	0.539 Mb	
lean assembly line 2.dwg	absent	18:48	76. 182 Mb	
Mega Tower Lighting With		2017 18:43	9.832 Mb	
METERING LNG.dwg		2017 18:32	4.359 Mb	

- Import
  - New support for merging models
    - Merge multiple files during import
    - Merge files into open session
    - Drag-n-drop support
  - Enables re-use of pre-simplified parts – avoid repeating work

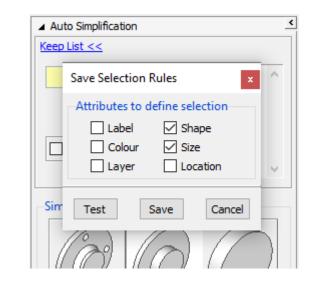


- Export
  - Latest CAD versions supported:
    - DXF/DWG 2019
    - ACIS 2020 1.0
    - Parasolid 32.0
  - Export of transparency attributes
  - New export to CATIA V5
    - Export geometry or facets

	▶ Auto Simplification				
	▶ Tools				
PPS	∠ Export				
Bo	> DWG				
Ŭ	> ACIS SAT				
	> STEP				
	> Parasolid				
	CATIA V5 ×				
	Version V5-6 2012 (R22)  Export as facets only   Apply				
	> JTOpen				
	> STL				
	> 3DS				
	> FBX				

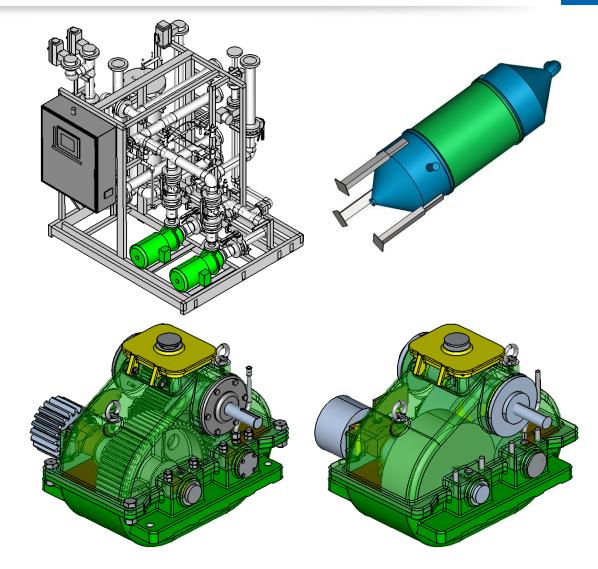
- Batch
  - New option to define a keep list for use in a batch run
  - Keep list file generated from new PPS GUI Tool

transform	[0, 1]	:	1
pps,keepList	[NULL, value]	:	C:\keep\motor.csr
pps,simpLevel	[1, 2, 3]	:	2
pps,cylSimplification	[0, 1]	:	1
pps,boxSimplification	[0, 1]	:	1
pps,removeSmallBodies	[0, 1]	:	1
pps,smallBodySize	[DEFAULT, value]	:	DEFAULT

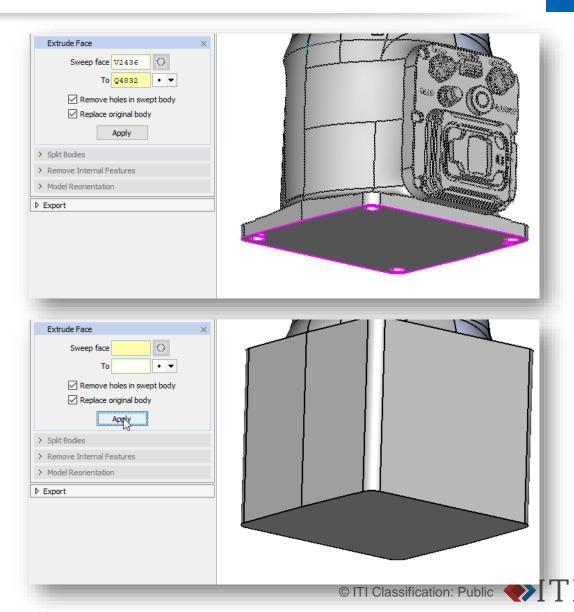




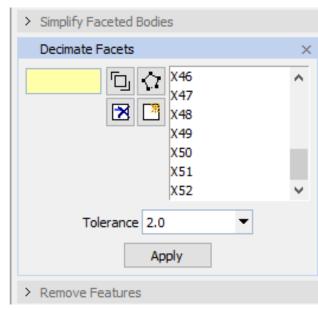
- Auto-simplification
  - Improved simplification of pipe runs
  - Preservation of small bodies in a pipe run
  - Improved extraction of domed endcaps
  - Preservation of conical end-caps
  - Improved simplification of gear wheels

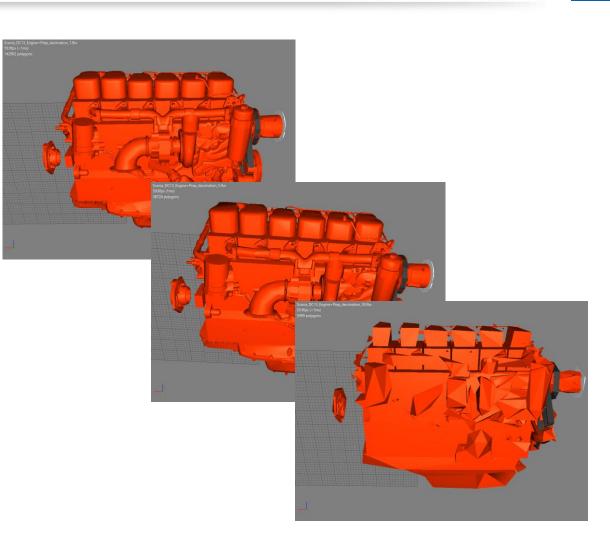


- Manual Tools
  - New extrude face tool
    - Redefine a complex body by sweeping a face
    - Option to sketch the sweep face from a loop of edges
    - Option to remove holes in sweep face
    - Option to retain existing body and make new body



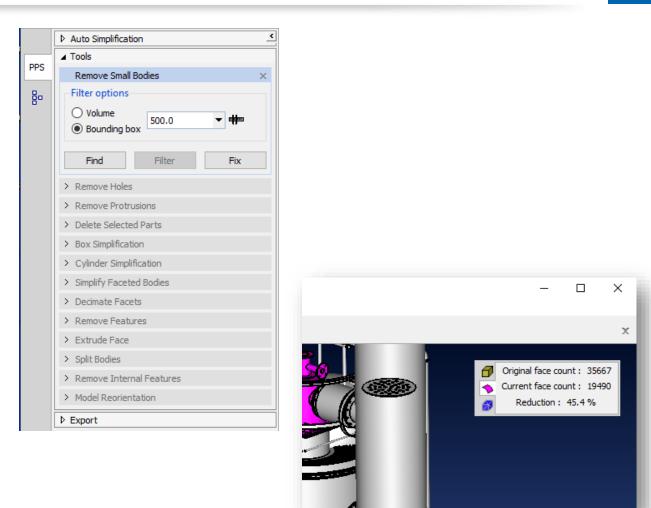
- Manual Tools
  - New facet decimation tool
    - Reduce facet count while maintaining visual resolution



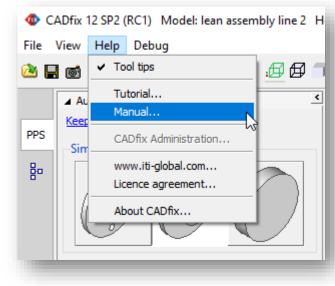




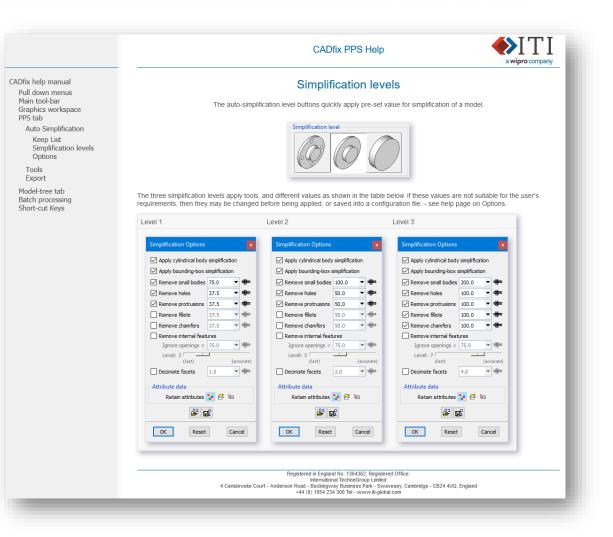
- GUI
  - New layout
    - Less mouse movement
    - Cleaner style
  - New progress status tool
    - % reduction indicator
    - Face, body and facet %s
  - Faster display re-paints



- Documentation
  - New HTML help manual



- Updated tutorial







#### Thank you!

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