

What's new in CADfix 12/SP2

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CADfix DX 12/SP2 Summary

- Import/Export
 - CAD version updates (NX, CATIA, etc...)
 - New gITF import and export
 - New DGN import (beta)
 - New direct export to CONVERGE CFD
 - Improved IFC, OBJ import
 - Improved FBX import/export
- Wizard
 - Facet quality checks for batch export
- Assemblies
 - Auto-build from duplicate parts
- Model tree
 - Performance
 - Transparency control

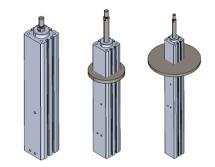
- Mass-properties
 - New HTML mass-properties report with user defined pass/fail thresholds
- Defeature
 - Improved hole removal (split exits)
 - Improved protrusion removal (split base)
 - Holes-with-protrusions (lettering)
 - Faster, more successful face joins
- Diagnostics
 - New Fix for self-intersecting shells
- GUI
 - Significant figure rounding to improve numerical readability
- Licensing
 - FlexNET version updated to 11.16.4



CADfix DX 12/SP2 – Import/Export

- CAD Version updates
 - Updated version support for CAD formats
 - gITF import and export
 - New DGN import (beta)
 - New direct export to CONVERGE CFD
 - Improved IFC, OBJ import
 - Improved FBX import/export
- Import SOLIDWORKS configurations
 - Scan and select configurations
- More robust STL export fewer faceting failures

Download Product Availability.pdf

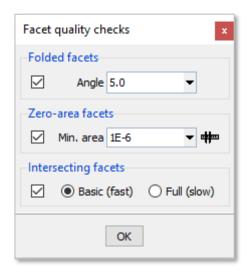


Configuration to import: ACTIVE	-
	POSN 1
CADfix .fbm Filename >>	POSN 2
	POSN 3
ОК	ACTIVE



- Batch facet quality checks for STL/OBJ/CONVERGE CHT:
 - Facet quality checks now supported in batch export
 - Options to ignore, issue warning or abort export
 - Checks for folded, zero-area

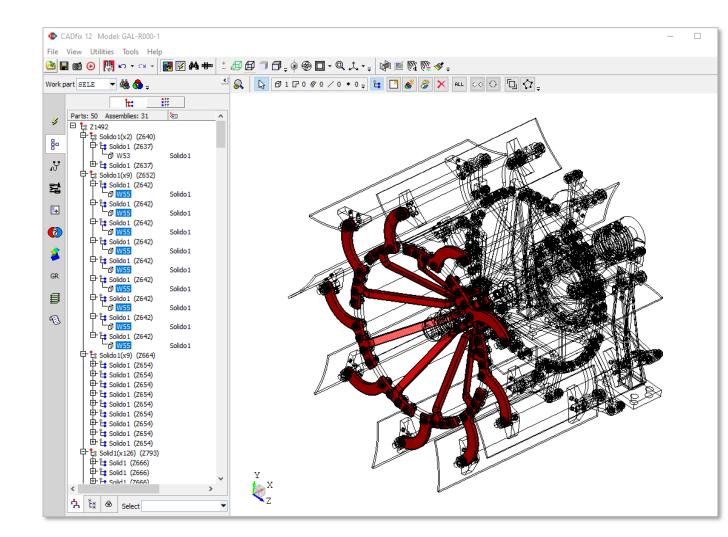
Facet quality checks	
Pre-export validation Abort export	 ✓
Attributes Export labels Assigned label	Off On - Issue warnings
Ignore prepare warpipos/errors	On - Abort export





CADfix DX 12/SP2 – Assemblies

- Build assembly structures:
 - Build flat assembly structures, automatically
 - Instantiating bodies with matching geometry/topology

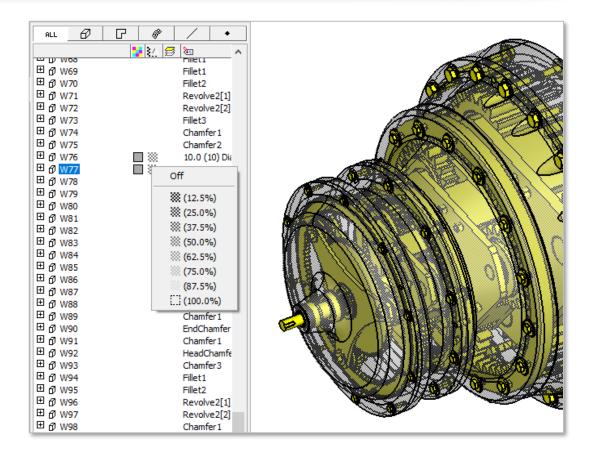




CADfix DX 12/SP2 – Model tree

- Model properties
 - Transparency attribute added to the model tree

- Performance
 - Faster opening of nodes in the tree
 - Faster restoration of a selection when switching between the Model tree and Assembly tree tabs

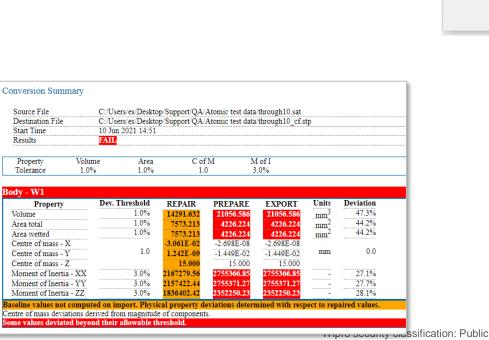


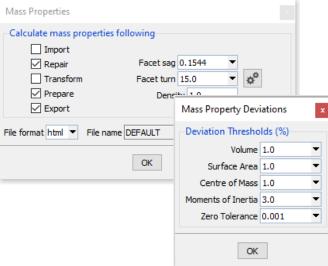


CADfix DX 12/SP2 – Mass-properties

- New HTML/csv mass-properties report:
- Monitor changes to a component's mass-properties.
- Define pass/fail thresholds to identify cases where deviation in the mass-properties is inappropriate
- Mass-property deviation reported at each wizard stage
- Checks for volume, surface area, centre of mass, moments of inertia, and zero tolerance

Source File	C:/Users/es/Desktop/Support/QA/Slots/Slot a.fbm						
Destination File	C:/Users/es/Desktop/Support/QA/Slots/Slot a cf.stp						
Start Time	10 Jun 2021 14:36						
Results	SUCCESS						
Property Vol	ume Area	C of	M N	/l of I			
Tolerance 1.0	0% 1.0%	1.0	0 3	3.0%			
Area total Area wetted	1.0%	5617.347	5617.346	5617.346	.mm ²	0.0%	
Volume Area total	1.0%	6258.191 5617.347	6258.181 5617.346	6258.181 5617.346	mm ²	0.0%	
Centre of mass - X		-1.774E-08	2.690E-03	2.690E-03	_mm ²	0.070	
Centre of mass - Y	1.0	-3.259E-01	-3.259E-01	-3.259E-01	mm	0.0	
		15.000	15.000	15.000			
Centre of mass - Z	3.0%	1044845.03	1044842.52	1044842.52	-	0.0%	
Centre of mass - Z Moment of Inertia - XX		1073402.85	1073401.7	1073401.7	-	0.0%	
contro crimato E	3.0%	1075402.85					





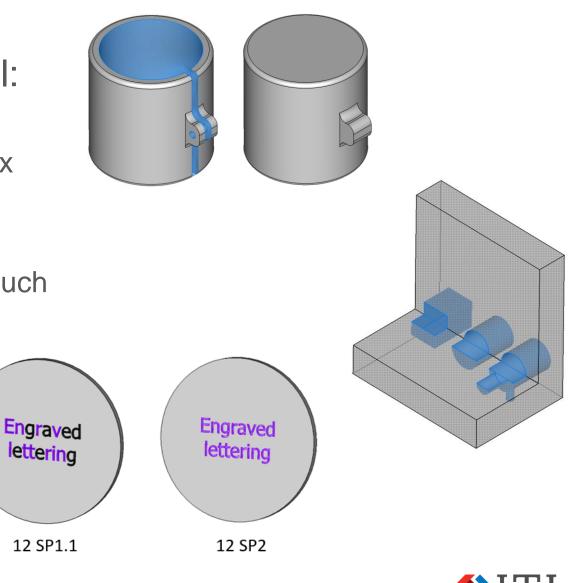
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CADfix DX 12/SP2 – Defeature

- Improved holes/protrusions removal:
 - Removal of holes/protrusions with complex caps
 - Removal of holes containing protrusions such as engraved text



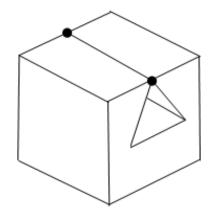
Wipro security classification: Public

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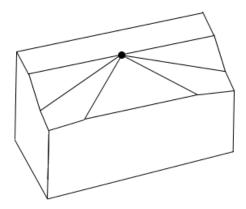
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CADfix DX 12/SP2 – Diagnostics

- New Fix for self-intersecting shells
 - Diagnostic help updated
 - New repair stage for identification and handling of



Non-manifold shell



Over-used vertex



CADfix DX 12/SP2 – GUI

- Significant figure rounding
 - Model dependent tolerances rounded to 3 s.f.
 - Eliminates excessively long values to improve readability

Size						
Check exit size						
Max. diameter 116.0 💌 🗰						
Check feature size						
3D Bounding box 231.0 💌 🗰						
Leave a feature scar						
Manually trace hole caps						
Find Fix						



CADfix DX 12/SP2 – Licensing

- Updated FlexNET license components
 - Updated from 11.16.1 to 11.16.4
 - Provides enhanced communications security
 - See FlexNET support for further help



- 11.16.4 remains fully compatible with 11.16.1 license services.
- Updating the FlexNET license service is optional.
- Contact CADfix support for further information.

