

CADfix 10.0 SP2 Data Exchange Change Notes

Release Status

Supported Platforms and Operating Systems

Windows Vista, 7, 8 and 10 (32 and 64 bit)

Linux RHEL 5 & SuSE 11 64 bit

Unsupported

Windows Vista for certain CAD interfaces: CATIA V4 and V5, NX, SW and Inventor

Import/Export

CREO export

Upgrade to CREO3

For CREO 3 native file format (.prt) may be chosen for single parts ONLY (not assemblies).

Multi-body export uses a sub-folder with a separate .prt for each solid

Inventor import

Upgrade to 2016

JTOpen export

Option added to force units to be converted to kg & mm

NX import

Upgrade to NX10

PLMXML support

New import of PLMXML

New import of density from CATIA V5, NX and CREO

Export of density to JT and PLMXML

Conversion of model units to Daimler requirements (kg & mm)

Support for the import of assemblies

SC03 export

Unique labels added to edges and faces

Solar support

Numerous improvements

SolidWorks import

Upgrade to 2015

STL and 3DS export

Add new options to switch off watertight facet generation

TAU and CGNS export

New exports

Assembly Manager

- More control over mixed unit's assemblies and preserved with export to STEP
- Improvements to assembly tree handling

User Interface

- Add Mass property calculations control to Wizard process options drop-down menu
- Expose more batch processing options from the CWC configurations file in the GUI
- New Display tab added to Preferences for controlling quality and framerate before model opens
- New buttons to toggle visible and hidden parts
- New Model Tree option under 'Bodies' view added to 'Filter' pull-down menu for 'Select similar bodies...'
- Extended CFI Application Protocol support

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Wizard Process

- Better control over mass property calculations
- Improvements to Smart healing
- Repairs and splits complex torus faces
- When CWC file is loaded any changes to Wizard parameters while no model is open now updates the CWC settings. When CWC file parameters have been overridden in these circumstances the user is warned.
- New Cancel button for Wizard; Repair, Transform, Prepare and Export dialogs.
 - New "Save as defaults" in some dialogs that controls whether tool defaults are overwritten when the user hits the OK button. Option is normally ON by default but is turned OFF as soon as a CWC configuration file is loaded.

Defeaturing/Simplification

- Improvements to BOOL operations
- Extended and improved automatic small Weld facility

Applications

- Facet manager
 - Better handling of folded facets
 - Improvements to facet model re-engineering
 - FROG smoothing advances
 - Faster and more robust facet generation
- Source manager
 - Allow sources to be selected when they are not active.
 - New options on popup menus allows selected sources to be activated/deactivated or hidden/unhidden
- 3D Printing
 - Improved and more robust slicing

Tools

- Build tool
 - Automatically create embedding's from swept edges and faces.
 - Support for lofting with the addition of guide rail curves
- Improvements to Morph tool giving a more robust mesh to Brep matching stage
- Improved creation of swept bodies

General

- Improved and extended hidden part display or show/noshow facility
- Increased number of segments in a Picture list from 100 to 1000
- New facility to identify Torus subtypes
- New platform neutral CADfix database (FBM) file
- Option to include parent part when exporting to CADfix neutral node/element format