

# CADfix 11 Data Exchange Change Notes

## Release Status

### Supported Platforms and Operating Systems

Windows Vista, 7, 8 and 10 64 bit

Linux RHEL 6 64 bit

### Unsupported

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

## Import/Export

### CATIA V5

Import/export versions up to 2016 (R26)

### Inventor

Import versions up to 2016

### SolidWorks

Import versions up to 2016

### ACIS

Import/export versions up to V26

### Parasolid

Import/export versions up to 28.0

## Wizard Process

- Mass property control at Wizard stages included into the GUI
- Improved healing performance and success rate

## Diagnostics

- Diagnostics extended with a Facet fixing subsection
  - Low facet count check
  - Invalid facets
  - Holes
  - Zero-area facets
  - Folded facets
  - Intersecting facets
  - Voids
- Improved non-tangent face display
- More accurate folded NURBS test

## Defeaturing/Simplification

- Faster, more robust fillet removal tool
- Improved chamfer finding tool

## Applications

- Facet manager
  - New facet/facet intersection and split tool

## Morph

- Improved mesh->CAD matching stage

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- Automatically handle split lines
- Support for closed surfaces
- New option to control handling of mid-side nodes
- Support added for QUAD elements in deformed mesh
- Higher success rate and better quality results

## General

- Meshing
  - More accurate mesh nodes through double precision
  - Improved storage and management of division controls
  - Manual matching of foreign mesh to parent geometry
  - Mesh control improved to handle manual mesh
  - Incremental meshing
  - Faster mesh handling
- Database size
  - Smaller .fbm size with new compressed format