

## CADfix 7.1 SP3 Data Exchange Fix Change Notes

Change Notes for CADfix 7.1 Service Pack SP3 minor enhancements and a brief summary of each fix arranged under their respective Problem report number(s):

### Minor enhancements:

- ACIS binary file import (SAB)
- CADD5 5 R14 and Windows only import
- Improved sharp angle test
- Improved NURBS splitting of badly projected spheres
- Improved closed NURBS splitting
- Grossly undersize surface check improved
- SC03 import, 2D, face-planes and pointy-faces find
- New Zone Manager for face joining and STL export
- Improvements to face splitting along iso-lines
- Improvements to build tool for faces, edges, move and copy
- New line intersection tool using two surfaces
- Batch removal of holes from faces
- Batch removal of sharp angle pinching
- Batch imprint facility
- Move/copy through projecting onto a surface
- New Split edges into segments tool
- Analytic surfaces maybe shaded
- **F5**: used for repaint
- **F7**: used for centre of rotation
- Basic selection of parts by label
- Basic selection pick item by changing summary icon
- Basic selection cancel mode with Esc key
- Basic selection clear selection with Ctrl-X key combination

cf06731	Inability to input point coordinates for principal planes
cf06683	CADex slow to import AGPS model
cf06673	Export to ACIS 17 gives version 18
cf06658	GUI Error in Zone Manager after deleting faces
cf06657	Measure gives GUI error
cf06656	Error in SC03 export geometry summary
cf06655	Cannot dynamically pick edges when elements in display
cf06653	CADfix for Efield licence and product not working on Linux
cf06651	Parasolid import of offset surf converted to inaccurate NURBS
cf06650	FRAME not working
cf06633	SUPP crash in recursive Windows build
cf06632	SC03 prepare and export scan
cf06631	Very strange SC03 import problem
cf06625	Replace a sphere with a NURBS fails under certain conditions
cf06624	Parasolid import failure
cf06620	Meshing introduces database errors
cf06614	PCN Speed rate fix makes rational NURBS by noise
cf06612	DLL missing from CADfix 7.1 installation for print manager
cf06608	crash caused by flipping a part instance number instead
cf06595	Sharp edge angle does not work

cf06591 In assemblies new icon for subdividing results wipes all  
cf06566 Error reading simple, new, huge database  
cf06573 Dekink corrupts NURBS and gives Error 402's  
cf06553 Fixed degenerate NURBS re-found at same tolerance  
cf06552 PDQ SU DC crashes  
cf06550 SSIM sphere to NURBS makes poor NURBS  
cf06548 Shrinkwrap test model fails to mesh  
cf06547 PDQ PCN SPEED FIX making rational NURBS, by noise  
cf06546 PDQ PCN SPEED FIX is not safe on rational NURBS, so output warning and skip  
cf06544 Display of analytic not respecting FTOL & FANG  
cf06542 Batch processing from script not working in CADfix 7.1 SP2  
cf06539 Self-intersecting shell not found  
cf06530 pdelib closed face splitting breaks model  
cf06527 Export to CAG flips surface normal's  
cf06510 AGPS integration: empty files can be created  
cf06508 Closed AGPS face becoming unclosed on import  
cf06483 SSPL fails on faces with overlapping concentric holes  
cf06482 "Error 43: Unable to frame image" needs removing  
cf06481 Simple face with one hole fails to mesh  
cf06480 Add join bodies and imprint to Wizard transform  
cf06477 SC03 export incorrect for body with voids  
cf06467 DXF/DWG export doesn't support attributes  
cf06464 Fragmented Join Not Finding regions  
cf06456 Fragmented shell tool finds strange groups  
cf06453 Need to remove the 5000 limit on lattice dimensions  
cf06448 Error from scrolling import file browser with up/down arrows  
cf06443 Improvements to STL export  
cf06442 Parasolid torus surf fails to import with fix for cf06435  
cf06435 Parasolid import of torus face fails  
cf06423 GUI Won't export to GDX  
cf06419 LSIM to ARC loses XASGs  
cf06408 NURFIX DEKINK causes crash  
cf06406 Undo showing phantom marks  
cf06405 Diagnostics does not find Parasolid G1 discontinuity  
cf06404 Find fillets fails after model is split up  
cf06397 Build Bodies from Holes Leaving geometry behind  
cf06395 STL export and Preview fails with strange error  
cf06391 NURFIX OPEN leaves grossly undersize shape  
cf06388 Crash in UNDO  
cf06383 Wizard Transform - remove seam does not work  
cf06380 SETA COIN S is modifying body definitions!  
cf06378 More faces that fail to shade  
cf06377 More faces that fail to shade (at certain FTOLS)  
cf06369 Not importing colours from this V5 STEP file

cf06360 Results Animation broken in SP2  
cf06356 Narrow face neighbour choice is suspect  
cf06352 PRNT DIMS returns wrong model diameter on FROGS  
cf06349 Preference setting explode assembly going wrong  
cf06348 Split body with a plane fails and gives Error 402  
cf06346 PDQ SO EM fails to find overlapping bodies  
cf06345 closed NURBS split fails to rebuild split faces  
cf06342 Custom Prepare saved options cannot be recalled  
cf06341 CADfix constantly losing licence and crashing  
cf06325 Undersize NURBS imported from Parasolid  
cf06315 Error 402 from PSINI3 opening this model  
cf06314 Batch export to Wildfire2 gives Granite 4 file  
cf06310 Another FAMfromIGES ACCTOL issue  
cf06309 Mirror copy making badly oriented faces  
cf06308 Merging of multiple IGES models gives GUI error  
cf06306 Short Name Wrapping Incompatibility in CADex test  
cf06304 SUBS/TRFM Creation Messages in hundreds of CADex tests  
cf06302 line discontinuity warnings never healed  
cf06297 Name table error in SSIM  
cf06294 Max NURBS in IGES file limited to 30000 control points  
cf06287 Odd mix of 1-face sheet and 1-face solid bodies from ACIS  
cf06285 Strange WRIT TO behaviour  
cf06284 SETA ASGD syntax screwed in qcadfix800  
cf06280 GUI Error from long name version save of 2+GB  
cf06279 Quick fix for flipping face orientations drops selection  
cf06278 CADfix Parasolid export cannot be read back in  
cf06276 AGPS OEM: CATIA v5 import failing  
cf06264 GUI error while saving a large model  
cf06263 geomFixer\_priv error when opening CADfix database  
cf06261 Replacement Failure - Clash of Mesh styles  
cf06259 AGPS integration: transformed objects incorrectly named?  
cf06258 AGPS integration: 7.1 code crashes when given wrong license  
cf06253 Need a specific error message to incompatible database  
cf06252 Import problem with UNICODE character in pathname  
cf06251 GUI error from Probe  
cf06242 DBUG STUB C rejects valid syntax  
cf06240 Partially closed NURBS gives bad p-curves & NFA  
cf06239 Orient crashes CADfix on this NURBS  
cf06238 Repair fails to fix 8 faces with non-closed loops  
cf06237 NURFIX SH TWISTED fix corrupts lines!  
cf06233 Export to CADD5 fails with model units as inches  
cf06232 V4 model dimension not changing Prep tolerances anymore  
cf06231 TARDEC assembly processing fails with SolidWorks Assmb  
cf06230 Valgrind reports memory leaks and other issues in CADex

cf06229 Memory stomping in FGNAME  
cf06227 AGPS integration: sending model to AGPS fails  
cf06226 Hybrid meshing failing at CONN=3 lines  
cf06225 CADfix exterminates STL data when imported as FROG  
cf06224 NURBS sphere gets deleted during repair if bound Untrimmed on  
cf06222 Re-scan when SELE is work-set going wrong  
cf06220 Grossly undersize not finding this badly twisted NURBS  
cf06219 Persistent name errors during database upgrade.  
cf06216 IGES import does not read bounded surface 143  
cf06215 AGPS integration: unsupported type selected too slowly  
cf06205 Closed NURBS splitting should rotate the seam and not split  
cf06204 Closed NURBS fix display wiped  
cf06202 Sharp angle test not working for this example  
cf06199 Join faces fails after SAVE database  
cf06197 Quick fix join faces does not work - nothing happens  
cf06195 Join faces in zones gives PRND DBAN errors  
cf06193 Prep fails but non-finite-area face not spotted as cause  
cf06191 Export to Parasolid failing  
cf06190 Export to SC03 crash and Error 402  
cf06187 Check tab filter buttons not displayed  
cf06186 Unigraphics toroid importing as a sphere  
cf06185 filename length truncation causing confusion  
cf06184 Non-finite area fix goes wrong  
cf06183 NURBS splitting problem  
cf06173 CADfix crashes with a SEND ALL PARA 19 0  
cf06170 Another FAMfromIGES long name problem  
cf06168 GUI error from delete fillet  
cf06166 Picture list dialogue transparency delayed update.  
cf06165 GUI Error then Model tree function stops working  
cf06163 FAMfromIGES generates sets with a4 names  
cf06162 GUI error from import OPTIONS button  
cf06155 Save As GDX/CAG fails and locks-up GUI on Assembly models  
cf06145 Some PDQ output now, inconsistently, has trailing '='s  
cf06139 Japanese filenames being corrupted  
cf06138 CADfix hangs during sharp angle fix  
cf06132 cadfix710 FBM file loads into 800 corrupt (CSYS & PLOT's)  
cf06122 Zones are being stripped from FBD on reading  
cf06121 Error 402 from FROG GEN MESH causes JOIN faces to fail  
cf06120 Error 402 from BUILD CS SLIVER  
cf06115 Error 402 from mesh quality set open  
cf06112 PRNT DBAN errors from JOIN faces  
cf06101 Problems with the Japanese dictionary use  
cf06100 Overlapping face fix finds but cannot fix  
cf06096 GUI error when splitting a face with a plane

cf06092 Test for FA NA crashes CADfix (regression)  
cf06091 Basic integrity corrupts a closed NURBS  
cf06089 Add labels for DEM Export for DEM Solutions  
cf06088 Problem splitting edge with a point  
cf06087 Inconsistent diagnostics  
cf06085 Annoyingly persistent legend  
cf06084 ACIS body checker output still not right in qcadfix  
cf06083 XASGments on zones in a set  
cf06081 List zones in the model tree  
cf06080 Personal CADfix GUI settings not 800 inherited from 710 by  
cf06079 Add a set of parts to the BUILD faces tool by name and CR  
cf06078 Overlap removes irrelevant face  
cf06077 BSPL is deleting bodies  
cf06074 FAM menu text gets corrupted: font changes, not wiped, etc  
cf06072 Closed NURB splitting splits face maybe unnecessarily  
cf06068 Move/Copy Define gives invalid GUI error  
cf06066 Join Bodies find/fix leaving picture in a mess  
cf06065 Join bodies fails to find all touching locations  
cf06064 Narrow faces fix join will not allow picking of faces  
cf06063 Narrow faces fix with zones not working  
cf06062 Basic selection allows matching of label attributes  
cf06057 Mesh Manager highlights model in white  
cf06056 Mesh Manager not meshing selected parts  
cf06054 Right click in Probe fails if Set Browser open  
cf06052 STL export using Zone facets does nothing  
cf06051 Zone Manager EMBED button not standard  
cf06049 After meshing Zone assigned element MSTY is DELC  
cf06048 Zone Manager loses renamed zones  
cf06045 Remove holes from a face as part of a batch process  
cf06043 Unreliable shaded display algorithm  
cf06041 Clipping planes not effective when using primitives  
cf06039 Unused shapes go missing during prepare  
cf06037 Body splitter not updating assembly sets  
cf06036 Assembly export to Parasolid fails  
cf06030 FIND fails but previous selection is restored  
cf06019 Diagnostics results for Duplicate points not kept up to date  
cf06002 NURS name GEN NBLEND creates horrible twisted shape  
cf05998 NONRAT fix crashes CADfix  
cf05981 T-Junctions - Only Poorly Connected Edges Option  
cf05963 NURS name GENERATE NBLEND uses new name  
cf05959 High level degenerate surface fix  
cf05958 Model Scale Option in Geometry Builder  
cf05956 Point and Edge Connectivity Legend Display Interference  
cf05943 General Model scaling tool

cf05942 Export to CAG loses ALL SETS  
cf05922 Basic selection Box select not making a set in SP1  
cf05918 Error 402 from FROG command  
cf05909 Find holes in bodies display doesn't go away  
cf05903 Loading CWC files sees "0.1:MM" as tessellation value  
cf05890 Prep for Parasolid needs to fix flat cornered NURBS  
cf05881 Need a simple remodel line tool using intersection line  
cf05839 Error 402 from FROG ! GENE MESH  
cf05794 Ctrl-C in detached alpha window clears buffer  
cf05733 CADfix - Top 50 now Redundant  
cf05608 New Build edges tool using Intersection lines  
cf05598 SSIM of spheres to NURBS  
cf05095 STL import as faceted surface has holes  
cf05026 STL import corrupt  
cf04695 Connectivity legend confused  
cf04593 Merging not always successful with import of STL