

CADfix 7.1 SP1 Data Exchange Fix Change Notes

Change Notes for CADfix 7.1 Service Pack SP1 minor enhancements and a brief summary of each fix arranged under their respective Problem report number(s):

Minor enhancements:

- **Assemblies:** Exploding an assembly auto-creates labelled sets from the components. Free faces are imported by default for assemblies.
- **Display:** Faster shaded image manipulation and speed-up of dynamic clipping plane performance.
- **Export IDEAS:** New flavoured Parasolid export for IDEAS.
- **Export IGES:** Improved accuracy of p-curves for export.
- **Export Parasolid:** Improved auto-labelling of assembly nodes at export.
- **Face joining:** Faster algorithm now approximately 10 times faster and better quality joined surfaces.
- **GUI:** Monitor window has a clear option.
- **Save As:** on the file menu includes the CAG and GDS formats.
- **System:** Auto-reduction of database buffer when low system memory.
- **Wizard batch processing:** Modification to enable the removal or protrusions during the Wizard Transform phase.
- **Wizard CWC:** control for colour inheritance.
- **Wizard Prepare:** Significant improvements to Prepare process giving higher success rates.
- **Wizard Repair:** Speed up the finding of voids in large models.

cf01354	STEP import giving PDE/Lib errors
cf02216	Edges being corrupted at internal discontinuities
cf04866	CADFIX_KEY needs to support redundant servers
cf05124	Light healing makes a mess of degree 1 edge
cf05222	Wizard simplification not replicating Interactive command
cf05273	Import IGES and export to Parasolid changes colour assignment
cf05556	Problem with FLITE related commands
cf05562	GUI error from part browser "Sets" option on STL model
cf05563	Approximate zero weight in Parasolid NURBS needs correcting on import
cf05564	Invalid STL mesh generated - edge node mismatches
cf05567	CADfix dies during fillet deletion
cf05568	Healing makes line very sloppy
cf05570	Shading of some faces shows dull strips, no reflection
cf05572	VGL crash in GDVGL with VS2005 compilers
cf05574	Can't import IGES file with no extension
cf05575	Crash during repair on windows using VS2005 debug build
cf05577	SC03 export problem not respecting re-centre instruction
cf05582	Process each assembly component in turn not working
cf05583	Bug in RBI plot code
cf05584	Need the RFC plot code to work with beam elements and stop legend being drawn in user defined colour
cf05585	FROG to NURBS conversion makes poor NURBS
cf05587	New PROC to control Delaunay mid-side node
cf05593	Parasolid export affects diagnostic scan, makes edge degenerate
cf05595	Parasolid import not importing colours on wireframe models

cf05596 Offset surfaces not importing correctly from UG/Parasolid
cf05597 PLOC SDIV <div> GREVILLE not working
cf05600 Serious errors in Join Faces Tool
cf05601 Fails to build planar shape from point and normal
cf05602 Expensive "Narrow faces" test in too many scans
cf05609 Closed surfaces are invalid NURBS
cf05611 Significant healing bug
cf05614 New healing problem
cf05621 IGES cubic p-curve fit producing very bad p-curve
cf05624 GUI error using Result Manager
cf05625 Result Manager issues
cf05628 Can't read some FROGS back from dump file
cf05629 Polygon picking doesn't work with FROGS
cf05631 Parasolid Prepare problem and bug in Diagnostic window
cf05637 Can't shade a face made at two separate regions
cf05639 When database buffer allocation fails, try for smaller size
cf05640 Sloppiness results are totally wrong for cone shape
cf05644 Reset button (or menu item) for alpha window
cf05652 Facets don't come back after rotating under the GUI
cf05655 Update GUI 'Save As'
cf05659 Japanese text not correct
cf05660 Display issues
cf05664 Modifications to batch process for repeat of transform
cf05665 Tolerances used for Delete fillets different
cf05666 CVTH result display not correct
cf05669 PRNT and GRAF clip small result values to zero
cf05671 Text editor pastes twice
cf05673 Lattice access from restricted by Tartan licence
cf05675 Join Find followed by close hangs GUI
cf05676 Join status and information windows giving confusing values
cf05678 IGES export to 143/141 bounded surfs failing
cf05679 Join surfaces tool fails after using smart select
cf05683 Wizard repair leaves lines after removing voids
cf05684 Parasolid import: edge shoots off way outside model
cf05687 Network FlexLM licensing in the GUI doesn't work on Linux64
cf05690 Deleting any XASG causes mesh to be cancelled!
cf05691 PLOC BGND GRADED is not GUI compatible
cf05693 CWC file tolerance and units expression causing error
cf05694 Cancel colour selection
cf05698 New "Save as" in CAE locks the alpha window
cf05706 Pop-menu appears after rotating model with 2 buttons down
cf05707 Clipping planes too slow to manipulate
cf05708 Angle unit not recognized
cf05709 Negative cone angles
cf05710 Catch low system memory warning
cf05711 LSIM to ARC fails with error 841

cf05712 Serious problem with IGES assembly handling in Repair
cf05713 Argument mismatches in CFI
cf05715 Batch runs on Windows hang after processing models
cf05716 Command line batch run doesn't handle filename patterns
cf05722 Mesh Manager for Hybrid Display not working
cf05723 Probe cannot make a set of elements
cf05725 DXF import of MESH entity producing distorted geometry
cf05726 GUI licence feature expires a day too early
cf05729 Tiny quibble with CAE Save As function
cf05734 When GUI hangs and is killed cadfix.exe races and database is lost
cf05736 Right click in Progress monitor not working
cf05739 Problem with animation and titles/legend
cf05746 GUI Error from Prepare Wizard GUI
cf05751 Segmentation fault crash on Linux
cf05752 Crash on Linux with Display Frame on graph plot
cf05753 Result manager GUI problem for Percentile plot
cf05756 Bounds exception errors running in tests with debug exec
cf05758 Results Manager GUI drop down problem
cf05759 Results Manager deform selection cannot be removed
cf05760 Explode assembly in selection mode and image is left blank
cf05764 Can't sort model tree set view by label
cf05767 'Save As' options extended for CAG and GDX
cf05771 Wizard Transform Join faces builds holes and leaves them
cf05773 Join Edges is leaving combined lines behind
cf05776 Prepare damaging model with NURFIX DEGEN
cf05784 Zone will not mesh giving false messages
cf05785 Zone meshing giving false non-finite area message
cf05786 CADfix cannot import Parasolid model it exported
cf05789 Meshing of zone bodies not working
cf05792 GUI Wizard not saving to CWC file
cf05795 working set contents change when changing tolerance in degenerate shape
cf05799 Macro dialogue inconsistent position remembering.
cf05802 Problems with new OFFSET tests
cf05803 Sloppiness report loses selection display when closed
cf05804 Display not repainted after smart healing fix
cf05805 Upgrade export system menus
cf05808 FGATGT cannot get data on combined parts
cf05811 Closed NURBS imported from Pro/E
cf05812 Formalise prepare process enhancements
cf05813 Parasolid import: NURBS wrongly trimmed, undersize
cf05814 CADfix cannot open its own d/b set handling causes crash
cf05817 Circular arc line imported wrongly
cf05818 Parasolid import bug with closed NURBS surface
cf05821 Duplicate bodies not being found
cf05822 Large STL set handling problems
cf05826 Zone meshing gives Error 402

cf05828 ESMO gives error 402s on a face using a FROG
cf05831 Parasolid export messages incomplete on Linux
cf05832 Shaded image not repainted after rotation in VGL(X)
cf05834 HEAL LIGHT wipes picture!
cf05836 Parasolid import problem: huge surfaces, missing edges/faces
cf05838 Distance measuring tool doesn't work for sets of points/line
cf05840 Zone refuses to mesh
cf05842 MOVE command doesn't appear to work on FROGS
cf05843 VGL crash after animation manager used.
cf05846 Parasolid import: surface smaller than face, needs extending
cf05847 Import of free faces in assembly models
cf05848 Finding voids can be very slow on large models
cf05851 CADfix crash when exporting p-curves to IGES
cf05853 Marque pick hangs on large models
cf05854 GUI error after polygon pick
cf05855 Add new solid void processing options
cf05856 DXF model imports badly
cf05869 SAVE COPY concatenates the file extension
cf05880 GUI error when exporting to IGES about colour problems
cf05883 GUI error on model open
cf05897 GUI error from Wizard batch run