

Change Notes for CADfix 6.0 Service Pack 05 are a brief summary of each fix arranged under their respective Problem report number(s):

- CF03889 On completion of the assembly prepare process each of the component basic sets must be completed up and back down to ensure that each node contains all the required geometry.
- CF03884 When loading a Wizard configurations file only handle the CATIA Model Dimension when the database is active and open. This caused a problem with the handling of multiple CATIA v4 models.
- CF03865 Errors relating to explosion of assemblies and sub-assemblies where export to a system that doesn't support assemblies (e.g. ACIS). The GUI thought the component needed to be exploded before the export could proceed.
- CF03864 Auto frame of set of faces being joined was not always working and picking did not default to FACES using selected edge when manually choosing faces to join.
- CF03863 Model was corrupted because one of the sets used to store the component geometry was left open after a manual repair operation. Fix was to make sure that the component basic sets are closed before commencing the prepare process.
- CF03844 Always-on dynamic viewing is causing some strange behaviour in the GUI. The problem looks like it was caused by a button release event going missing.
- CF03843 GUI error using set manager to lock parts in heavy healing
- CF03842 Free points should not be exported to CATIA V4
- CF03832 Pro/E for STEP export giving GUI error because export format was incorrectly being assumed native by system when not licensed
- CF03825 Smart healing failure. When a scan identifies 'Large vertex-surface gap' only the sloppy points are put in the find set. If we then want to use the smart healing tool to find or fix the sloppy parts then the set needed to be completed up to faces
- CF03811 Face Building Needs to Scan for Partially Collapsed Faces
- CF03806 Regression in prepare for IGES for IDEAS. Identification and fixing of the issue with the sloth of the prepare process for IDEAS. In the prepare for IDEAS we collapse small faces using a collapse tolerance but the mistake made was passing the whole model as the input set consequently the fix cycled over EVERY face in the model. So we now implement the find function before doing the fix operation.
- CF03804 Tracked down Pro/E export problem to fact that the word DEFAULT was being written to the 'cadfixexport.opt' options file used by Granex.
- CF03800 Delete unused edges did not work in assembly mode.
- CF03799 GUI error from assembly processing.
- CF03797 Problem when attempting to export empty components from assemblies. A clearer message is issued when exporting an empty component.
- CF03796 Add 'Severity' to Scan Results output File
- CF03794 Make sure the prepare tolerances get reset after the Pro/E export tolerance value or export tolerance type is changed
- CF03794 Export to Pro/E with Absolute tolerance going wrong
- Added a new check button to the tools for building faces (from loops), re-embedding faces and embedding faces. The check button, labelled 'Convert blends to NURBS' is ON by default.
- Identified and fixed a problem where the prepare tolerances were not being reset when you changed the Pro/E export tolerance type from 'Relative' to 'Absolute'.
- CF03791 If working with an assembly replace the export option 'Export the whole model' with 'Export the current work part'
- CF03789 The CAE Sequence manager should not delete sequence.
- CF03787 Geometry Build faces cannot accept sides or combined lines for CAE use
- CF03784 The compact probe pick goes busy if opened with a bad entity name.
- CF03780 CAE initial display wrong. Allow last model picture and orientation to be retained in CAE mode.
- CF03773 GUI Error from changing main tabs. This was caused by a supplied cqs file which was written by an old (pre-release) version of CADfix 6.0 and contained some problem codes that has been superseded
- CF03772 Sharp edge angle display only showed points.
- CF03770 Identification points relating to Parasolid errors are being deleted too soon. Don't delete the Parasolid

CHECKER points before running the diagnostic scan, just remove them from the scan set. Always delete any existing CHECKER points prior to ANY export process.

CF03766 Overlapping faces check not working. When scanning for the FA-EM condition after the export process has failed then make sure that the test type is 'overlap' and turn off the poorly connected edges filter.

CF03751 Trying to collapse points with 'Display only' toggled on causes strange display behaviour. Seems to be OK for Point Collapse from the Diagnostics tab, but then when you go to the Tools tab and collapse points the display gets wiped of all entities except the first selected point. You select the first point and then the display is wiped apart from the selected point. You can't then select the second point without manually adding the image back onto the screen.

CF03750 Non-tangent patches fix is not working but assumes success. The issue here was that the fix action modified the bad surface without actually correcting the problem. A message appears at the bottom of the fix dialog saying 'New surfaces created: 0, modified surfaces: 1' but this message is quickly lost as the list of alternative fixes is re-displayed. Added a note in the dialog for non-tangent surfaces to indicate that the fix action may modify the problem surfaces without completely resolving the problem.

CF03746 Split edge with point added to "split" in tools. Added widgets and functions for new transform option 'split edge at point'

CF03691 GUI error from Mesh manager. Introduced new function for returning the CAE DVAPPS assigned to a line.

CF03690 Hole removal creates extra bodies. Use new function to determine if the deselection procedure for hole removal should be called after removing holes.

CF03689 Symbol # in Pro/E export file not legal. When setting up the export filename restrict it to basic set of characters for STEPforWildfire or IGESforWildfire.

CF03678 Marquee pick remains on when probe is closed. Allow marquee pick state to be toggled off by re-clicking on the marquee button. Also cancel marquee pick status when closing the slide-in probe

CF03661 Bodies not building after face joining. To get set of bodies that will be affected by joining faces we need to complete down to basic faces before completing up and orient all relevant parts.

CF03636 Handle voids differently. When removing voids just delete the void bodies and not the faces defining the voids.

CF03562 Print Manager on XP failing. Cured the problems with the print tool (previewing and saving images) by limiting the number of colours (max 250) that are used when converting the file from one format to another. Does not completely cure the problem (especially when there is a graded background) but results are better than before.

CF03507 Fix problem with JAMA criteria G-SH-OU. Use of join faces tool - if a scan has previously been done but the last find set does not contain faces then complete the set up to faces.

CF03504 CADfix correctly detects intersecting loops (JAMA criteria G-FA-IS) but the Fix does not seem to be working. CADfix appears to start a fix procedure but does nothing. The PDQ fix for FA-IS is not reliable and therefore should not be generally available as a direct fix method for this problem. Faces with intersecting loops need to be fixed using an alternative (indirect) fix method.

CF03503 Diagnostics right-clicked popup menu won't pop down. Right mouse button pop-up menus remain mapped on UNIX so an adjustment to the function for the last popup menu was required.

CF03500 The 'remove unused surface patches' tool does not contain a fix. Introduced fix for unused surface patches R-SU-UN (equivalent to the R-SU-TRM fix).

CF03470 Need to check display tolerance after scaling. Re-calculate best facet size after changing units and scaling the model.

CF03435 Join edges can create curves with non-tangent segments. Smooth edges after joining chains.

CF03198 Wizard was overriding cwc Setting for CATIA Export. When reading a cwc file defining the prepare parameters for CATIA 4 export do not set the sloppiness tolerance according to the CATIA model dimension if the sloppiness tolerance value read from the cwc file is a real number (i.e. only set the value based on the CATIA model dimension if the value read is DEFAULT)

CF03176 Wizard process results in empty model. Remove logic set to zap edges that are no longer used because this had the effect of blowing everything away when we are trying to repair a wireframe model.

CF03053 Wizard Transform Collapse faces leaves unused edges, which were different from the interactive, transform collapse because the logic had diverged.

CF03027 Wizard Repair deletes a good face. This problem corrected with new logic.

CF02960 Wizard NURBS to arc converter making shared centre points. Change in logic to turn off geometry merging to prevent arcs being created with shared centre points, then restore previous value.

CF02892 Wizard ignores serious non-finite area problem. When processed the model appeared to no longer have any non-finite area faces after Wizard Repair. But additional testing proved that if a non-finite area face existed in a model that doesn't yet have a solid then the repair stage will fail (due to inability to create a solid) and the diagnostic scan identifies that the model has a non-finite area face.