

10.0 Service Pack Installation Procedure

Unix:

Please extract (unzip and untar) the files under /ansys_inc/v100/icemcfd/ directory

Windows

Please run the self-extracting (ansysicemcfd_100_sp1.exe) file and follow the instruction.

What has been fixed in the service pack?

Blocking/Hexa Meshing

1. Block transformation based on local coordinate system does not work in 10.0 release version
2. Rubber band (box) method of block selection does not work correctly in the release version
3. Split block operation was crashing for some cases.
4. Application crashes when making wrong edge link by mistake
5. Undo operation does not work for "Copy Periodic Blocking"
6. Merge does not work correctly for some cases.
7. In the 10.0 release version, 2D->3D(fill) may not give you better volume mesh.
8. Undo for "Pre-mesh Parameter->Scale Sizes" does not work correctly
9. Can't define periodic vertices on axis or you may not able to select axis vertex twice to make periodic
10. Splitting operation for swept block is not very robust in the release version. It might cause the application to crash in some cases
11. TCL error when going to "Edit Block->Convert block Type"
12. 2D Pre-mesh smoothing does not work correctly for some cases
13. Undo does not work for update blocking
14. Orthogonal smoothing may crash for some cases
15. "Copy Absolute" option in "Pre-mesh Params ->Edge Params" may not work correctly
16. "Edit Edge->Split Edge-> Linear or spline" does not work
17. You may get some TCL error if you click on "Pre-mesh params->Edge Params->Spacing Relative" without selecting any edges
18. It's not possible to project an edge split node to a point
19. Set Position in Hexa does not work for edge splits in new gui
20. Unstructured ->Structured blocking may not work correctly in the release version
21. Associations not updated on edges that have been split or shaped
22. In some cases, pre-mesh does not work correctly if you add some disconnected block

23. The function for “Compute mesh” crashes for some cases
24. The application crashes when copy blocking that has linked bunching
25. Unable to create swept blocks through multiple splits
26. "Associate->Disassociate from Gometry->Selected" option may not work correctly in the release version
27. Some blocks get disappeared from the display when creating 2D block from vertices. In order to make those visible, one needs to reset the “index control”
28. “Group curves by parts” is missing from V 5.1 and 10.0 releases

Tetra/Prism Meshing

1. Prism from surface mesh does not work in the release version
2. Tetra cannot represent some geometry because of the default “Fix Non-manifold” option
3. “Remesh Center” is disabled for Hex Dominant Mesher when running from geometry
4. Min Prism Quality does not work correctly in the release version
5. "Tetra + Prism layers" does not work in the release version
6. Can't extrude prism layers on standalone surface mesh
7. Hexa-core mesher does not work from the mesh with prism elements
8. Parallel Tetra crash under IBM-AIX
9. Unable to read prism parameters from old prism_params files

Shell Meshing

1. Sizes on "dormant" curves do participate in the Patch-Independent surface meshing process
2. The option 'Max Deviation' from the command 'Surface Meshing > Patch Based' should be active only when 'Project to Surface' option is Toggled ON.
3. The command 'Mesh > Surface Meshing > Patch Based > All Tri > From Curves > Use Surface Sizes' is not working.

Mesh Editing

1. Mid-Side Node refinement crashes the application
2. Extrude mesh along curve does not work
3. Repair Mesh > Smooth surface mesh is hanging if hexa elements are get selected.
4. Undo/Redo for "Coarsen Mesh" may crash the application
5. Copy/Rotate mesh for multiple times may crash the application
6. "Convert mesh type->Create mid side nodes" may not work correctly when you don't have any geometry loaded
7. Newly created element disappears when creating on subset.
8. Elements for Max Warp / Max WarpGLS histogram don't get selected
9. "Assign mesh thickness > Calculate" may crash in some cases
10. "Merge Nodes > Resolve refinement " gives TCL error
11. Can't create elements in local coordinate system
12. TCL error in "Split mesh > Split edge > Interior spanning"
13. Undo does not work for "Associate/Update Mesh Parametrically > Update Mesh"
14. Application crashes when turning off "Show whole elements" in the mesh cut plane for quadratic mesh
15. Unable to coarsen hybrid mesh in the 10.0 release version
16. blocks are not selectable in multiblock smoother

Geometry

1. Local Co-ordinate System doesn't get updated in the tetin file
2. When LCS are created away from geometry clipping plane can make them invisible
3. Segment Surface by Connectivity command is not working for the option Keep Original
4. Application crashes when segmenting a spherical surface by a plane
5. Surface trimming does not work for some cases
6. "Offset surface" may not work correctly on some surfaces
7. "Curves > Modify Curves > Connect curves with points" may not work in some cases
8. "Create/Modify Surface > Curve Driven" may not work correctly for closed driving curve
9. Create center point from 3 points doesn't work in an LCS
10. Version 10 doesn't have show nodes option for faceted curves
11. "Drill holes" crashes application for faceted surfaces
12. Application crashes during reapproximate surface on Linux64 AMD
13. When I read in an STL file and try to run shrink-wrap it says that no geometry is loaded

Geometry Import/Export

1. "Geometry Import->CATIA V4" may not work if you select "Preview" option
2. CATIA V4 translator does not work off picatia or aipicat license keys
3. Catia V4 translator does not work on linux64 AMD in the release version
4. DWG translator is not available in the release version.
5. SolidEdge Translation does not work correctly using the Workbench reader
6. Translation of some VRML files fail in 10.0 release version
7. Some DM models might take really long time to import into Advanced Meshing
8. UG interface fails to import some UG files
9. Lots of missing surfaces in the geometry imported by the IGES translator

Mesh Export/Output to Solvers

1. LS-Dyna translator crashes on HP
2. The face orientations of the shell elements on an internal wall (not splitted) in the cfx output mesh file are arbitrary
3. The Fluent V6 translator on Linux64 AMD does not pick up the "output" license key (when using the ICEM licensing daemon).
4. Output to "USA" code doesn't recognize boundary conditions for internal baffle
5. Writing to NS3D: A default string in the BC should be an integer
6. Unable to write LS-Dyna key file from "Output" tab
7. ICEM CFD fail to create a new Boundary condition for CFX-4 solver
8. No Fire_V8 output on windows
9. At the first param generation, the default parameters file name is « Model_L_nastran.par » even though ABAQUS is the current solver
10. The element type for "Axisymmetric Shell Element" does not seem to be correct for ABAQUS. The element type should be SAX2 instead of SAX1
11. There may be some blank lines in the ABAQUS input file created by ICEMCFD translator
12. The element list written by the ABAQUS translator is in reverse order
13. The default offset for node and element numbering is 1. Hence, the first node/element are #2
14. Modification of offset is not recorded in the parameters
15. The default position of Boundary Condition window is inconvenient. For a large boundary conditions setting, we need to move the window in order to view all the options.

Mesh Import

1. ICEM CFD 10.0 Hangs When Importing FLUENT Case Files
2. Unable to import some ls-dyna key files

Post Processing

1. Natural frequencies in the table in postprocessor show old data
2. Closing ls-dyna result file gives Tcl error
3. Ansys result file opened in AI*Environment does not match with the one from Ansys Post processing results
4. Visual3 may fail to display results from Fluent periodic results
5. Visual3 may fail to display results because of the special characters (like Japanese letters) in the path name
6. If user changes number of 'Steps' from the 'Post Processing > Control All Animations' when Animation Controller is in 'Animate' mode then it gives TCL/TK error

General

1. Closing of project does not reset build topology tolerance and max size settings