



What's New in 3DCS?!

7.10.0.0

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7.10.0.0 - September 2022

Below are a list of changes, enhancements and resolved issues based on the entire 3DCS suite or a specific CAD system available with 3DCS. Please review the list of changes and don't hesitate to ask about a specific change.

Any text written with a teal highlight refers to any Simulation Output change. In other words, some calculation changes were made to either a distribution, a measurement output or DLL result. This could result in minor changes to a previous Model Simulation output.

What's New pages:

[Advanced Analyzer and Optimizer](#)

[Compliant Modeler](#)

[3DCS Mechanical](#)

Visualization Export

[Batch Processor](#)

Enhancements

General

- Updated FlexLM License to 11.19, up from 11.7.
- Resolved FlexLM Buffer overflow with FNP 11.19 license server daemon. (58782)
- Resolved license check system lockup with certain VPN clients active. (60053)
- DCS daemon now supports Linux. (71299)
- DCS FlexLicense Info no longer requires 2008 redistributable. (71643)

Read/Write to Spreadsheet:

- Fixed an issue when reading or writing to Excel with German Regional Settings, didn't read/write the values correctly for User-DLL MTMs. (71515)
- Read from Excel and having Replace: Add, Update, Delete (Preferences) set will correctly create the missing MTMs. (71519)

- Pattern Fit Move will now get read back from excel correctly and the result will be identical on rerunning the Analysis.(71605)

GD&T

- Calculation for the new case plane-pin-pin in Feature Move is revised to execute the move properly. (71483)
- Fixed an issue with case 307-308 which caused bad deviation and results. (71506)

Tree

- Fixed a crash when using Center Tree (3DCS) on Points, Features, etc., when the nodes are hidden in the Model Navigator. (71589)

Report

- Fixed a crash when creating a report with Google Workspace, with Chinese regional settings. (71343)

Issues Resolved for 3DCS - Creo:

General

- Fixed a Crash when extracting GD&T with Smart GD&T option On. (71488)
- Fixed the crash happening on Saving the model right after the extracted GD&T is deleted from the model. (71532)

Issues Resolved for 3DCS - NX:

No changes were made to 3DCS integrated NX platform for 7.10.0.0.

Issues Resolved for 3DCS - SOLIDWORKS:

No changes were made to 3DCS integrated SOLIDWORKS platform for 7.10.0.0..

Issues Resolved for 3DCS: CATIA V5:

Dialogs

- Fixed an issue with the Pattern Fit move dialog not showing the dialog text or selected features. (71559)
- Fixed an issue that prevented from adding (+) features in the Pattern Move and the Mechanical Move dialogs. (71558)
- Fixed an issue when window selecting Points in a Move, Tolerance or Measure dialog: Only one point from the part will be selected, unless other points exist and are selected in the selection trap. (71538)

Issues Resolved for 3DCS for 3DEXPERIENCE:

No changes were made to 3DCS integrated Creo platform for 7.10.0.0.

Issues Resolved - Multi-CAD:

Display Options

- 3DCS now supports updated DirectX10 and OpenGL graphics drivers. (71570)

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Enhancements and Resolved Issues (7.10.0.0)

General

- Fixed an issue when saving a DCSSSENS_SAVE 3 output option to correctly output the current specified units. (71622)
- Fixed an issue with Batch Processor output for HST statistical results to match what was set in the Analysis Summary. (71624)
- Fixed the GeoFactor file (*.gf2) from Batch Processor, correcting the Sum of the remaining Contributors % total value in the CSV file. (71631)

Advanced Analyzer and Optimizer

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Enhancements and Resolved Issues (7.10.0.0)

No changes were made for 3DCS Advanced Analyzer and Optimizer for 7.10.0.0.

Enhancements and Resolved Issues (7.9.0.2)

No changes were made for 3DCS Advanced Analyzer and Optimizer for 7.9.0.2.

Enhancements and Resolved Issues (7.9.0.1)

Datum Optimizer

- Results in Datum Optimizer are consistent when optimizing with fixed or not fixed candidates.(71111)

Enhancements and Resolved Issues (7.9.0.0)

Datum Optimizer

- Datum Opt calculation is improved for flat parts to match the LockDOF/Soft Clamp results. (69680)
- Datum Opt now detects the mass matrix if it's already loaded with Load FEA move. (69602)

Sequence Optimizer

- The Join or Clamp operations can be selected at the sub assembly level as well in the Sequence Optimizer. (69505)
- The user is prompted to NB when clicking Run Evaluations if the model is not built. (69524)
- Sequence Optimizer is enhanced with the new user-defined joining order option. (68843)

Enhancements and Resolved Issues (7.8.0.0)

Datum Optimizer - a new tool designed to determine the optimal datums from a candidate set with the goal of minimizing the rigid part variation or compliant part deformation.

Sequence Optimizer - a new tool designed to reduce lead and launch time by eliminating or minimizing manual join/clamp sequence studies. The Sequence Optimizer determines the optimal join/clamp sequence from a candidate set of joins/clamps. Users may optimize clamp sequence or joining sequence.

Critical Tolerance Identifier (CTI):

- Enhanced CTI to function when only Contributor Analysis has been run. (68286)

Enhancements and Resolved Issues (7.7.1.0)

Critical Tolerance Identifier (CTI)

- The Critical Tolerance Identifier window will apply the Factor Precision to the Range and the measure results. (68000)

Enhancements and Resolved Issues (7.7.0.0)

General

- Hole/Pin Floats and Size tolerances will be locked when running Tolerance Optimizer. (65122)
- Removed Auto Generate Button from the ribbon and added this function inside GeoFactor Analyzer dialog with a button "Run Analysis". (65848)
- The Size range will be displayed correctly in the Critical Tolerance Identifier, Fixed the scaling issue.(67882)
- Datum Optimizer is now available in the AAO module to help users select the optimum datums for the part, rigid or compliant.

GeoFactor Analyzer

- GeoFactor Analyzer in AAO will now create an HLM file, rather than a GF2 file. This file can also be imported into the Simulation dialog (Contributor Analysis only). (64525)

Sequence Optimizer

- Inactive join moves will not be shown in the Sequence Optimizer.
- Seq Opt Travel Path can be shown [in] inches as well as [mm].

- The Sequence Optimizer Grouping window does not automatically scroll to the top anymore. (67956)
- A message is added for Sequence Optimizer when only soft clamps are selected to be optimized, warning the user that since these clamps do not over-constrain the part, their order may not matter. (67493)
- When selecting a new part the Candidates are eliminated and the user is prompted to select new points. (67893)

FEA/Compliant Modeler

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Enhancements and Resolved Issues (7.10.0.0)

No changes were made for 3DCS Compliant Modeler for 7.10.0.0.

Mechanical Modeler

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Enhancements and Resolved Issues (7.10.0.0)

No changes were made for 3DCS Mechanical Model for 7.10.0.0.

Issues Resolved (CATIA V5)

Dialogs

- Fixed an issue that prevented from adding (+) features in the Pattern Move and the Mechanical Move dialogs. (71558)