



What's New in 3DCS?!

8.2.1.0

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8.2.1.0 - October 2025

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

- Improved areas in 3DCS to support more characters, such as in DOE Viewer. (75580)

GeoFactor

- Show Min/Show Max, within the GeoFactor Analysis Tab, will show the GeoFactor's Min(WC) or Max(WC) on screen and the value in the measure. (76001)

Contributor Analysis

- Resolved an issue in Mean Shift where the displayed value was incorrect when contributors were shown per feature. (76200)
- Updated the Sensitivity Analysis to display part names consistent with the tree view, respecting Alias Name settings. (76157)

- Fixed an issue where the Best Fit move floats was not allowing Contributor Analysis to finish running. (75981)

Critical Tolerance Identifier

- Fixed an issue with Critical Tolerance Identifier (CTI), when showing Pp%, to show the correct values to equal 100%, whether the model is set to show in MM or Inches. (76064)

GD&T

- Updated how Dimensioning Location and Form tolerances interact. Form will act as a refinement to Dimensioning Location. (75715)
- Resolved an issue where position GD&T did not produce truncated results as expected. (76269)
- Resolved an issue in the dimension distance measurement where minimum and maximum values were not calculated or displayed correctly. (76068)
- Fixed how Auto Refine on Slot/Tabs will correctly affect the Monte Carlo results. (76102)
- Removed DRF requirement and validation message for MMB/LMB on Pattern of Hole/Pin features. (76010)
- Changed how AutoRefine behaves when when Orientation is equal to Form, or when Form is larger than Orientation. (75813)
 - If Orientation and Form are equal values, all of Form will be applied as the refinement.
 - If Form is larger than Orientation, selecting OK will show a warning that Form can only be equal or lower than Orientation.

Moves

- The Autobend Move will correctly display the Move direction. (75935)
- Fixed an issue with switching an invalid Float to a valid Float within a move which was displaying the wrong warning messages. (75901)
- Enhanced Feature Move functionality to support Torus-type features. These are now interpreted as axes rather than points within 3DCS. (75719)
- The Transform move will now allow to select a center point to rotate parts. (75941)

Tolerance

- Added an option to the Capability Tolerance to run Sigma Range or Min/Max Range. Fixed an issue when applying the Associated Direction measure to apply the deviation along the associated direction. (75833)
- Fixed the tolerance dialog to display the vector direction correctly for multiple points. (75905)
- Fixed an issue with mixed features (Slots and points) where the point variation was not shown in Sensitivity. (75708).

Measures

- Fixed an issue where applying multiple GD&T Measures to a single feature caused incorrect behavior when canceling. When two or more GD&T Measures were applied to the same feature, clicking Cancel or the X button would incorrectly copy details (such as Name, DRF, etc.) from the first measure. (76230)
- Corrected the order GD&T Measures are shown in the Analysis Table View. The GD&T Measures would be shown at the bottom of the list, rather than listed with the other measures. The measures will match the Model Navigator order. (76230)
- Restored Direction 2 in Point-to-Line Measure dialog for Projected on Plane mode. (76177)
- Improved the Virtual Clearance Measure to measure hole/slot pairs. (75922)

Dialog

- Added Center Tree and Reframe On to the right-click menu in the Auto-Point Projection dialog. (75752)
- Fixed a bug in GeoFactor Analyzer results was changing when running a second time. (75900)
- Fixed a bug in Measure Generator dialog to show the correct name in the warning message of the feature pair that is removed. (75745)
- Fixed a bug in Measure Generator dialog to rearrange the features correctly when a feature pair is removed from the list. (75745)
- Corrected the display values for Rand#2 and Rand#4 within the Circle Tolerance. In 3DCS, displaying values as Plus/Minus or Upper/Lower would show the total range, but the software then adjusts the range to represent half the tolerance—resulting in an incorrect display value. (75841)

- Fixed an issue with the Summary in the Analysis Summary window. This function will correctly create and open the HTML Summary of the Analysis. (75849)

Validate

- Added a Validation message for Symmetry, when applied on a Hole/Pin feature.
"Invalid Feature Type - Symmetry requires a Slot or a Tab." (75486)

Reporting

- APQP Report:
 - Updated to exclude inactive moves. (76112)
 - Resolved an issue where images failed to generate for Moves with names containing special characters. (76075)
 - Resolved an issue where images for moves involving a single part were not being generated correctly. (75684)
- Fixed an issue with the DFMEA section in the HTML report and addressed misalignment in the Contributor columns. (75979)
- Fixed an issue in the Geofactor Analyzer results window where it was not displaying the correct sort by type after Generating the Report. (75792)

Issues Resolved for 3DCS in Creo:

General

- Fixed the bug in 3DCS Model Tree to display the Creo Parameter name even if the parts are within groups. (76127)
- Resolved an issue where Feature Links were lost after saving, closing, and reopening the model.

Dialog

- Fixed an issue where the selection dialog would close when switching the feature type drop down. (76000)
- Users can select either a Point Group or a Point list to convert the list of points to the CAD system. (72468)

Extract GD&T

- 3DCS will prevent dimension-type tolerances without a tolerance range from being extracted into 3DCS. (75854)
- Fixed an issue when extracting a Radius size tolerance, which would incorrectly double the range. (75918).

Issues Resolved for 3DCS in NX:

Dialog

- Resolved an issue when deleting an item in the Model Navigator could inadvertently remove the associated part. This behavior has been corrected—3DCS now prevents part deletion directly from the Model Navigator, ensuring model integrity is maintained. (74870)
- Users can select either a Point Group or a Point list to convert the list of points to the CAD system. (72468)

Extract GD&T

- Fixed an issue when extracting a Radius size tolerance, which would incorrectly double the range. (75918)

Issues Resolved for 3DCS in SOLIDWORKS:

Extract GD&T

- Fixed an issue when extracting a Radius size tolerance, which would incorrectly double the range. (75918)

Issues Resolved for 3DCS in CATIA V5:

General

- Resolved an issue where points and labels were visible during move creation or editing, despite being set to hidden. (75967)
- Resolved an issue where Features highlight not refreshing from the Feature Linking Wizard. (75882)
- Fixed a crash when using Excel Export. (75482)

Dialog

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Extract GD&T

- Fixed an issue when extracting a Radius size tolerance, which would incorrectly double the range. (75918)

Spec Study

- Fixed an issue with Influence Sphere in Spec Study not showing the sphere after selecting Show Item. (75913)

Issues Resolved for 3DCS in 3DEXPERIENCE:

General

- Resolved an issue where points and labels were visible during move creation or editing, despite being set to hidden. (75967)
- Fixed a crash when using Excel Export. (75482)
- Corrected an issue when exporting a WTX file. A model name with "1.A", for example, was removing the *.WTX extension. (75933)

Dialog

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Extract GD&T

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Spec Study

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Issues Resolved 3DCS Multi-CAD:

General

- Adding a Prefix or Suffix to the Mirror dialog will apply to both the DCS Name and the CAD Part Name. (75595)
- When mirroring a sub-assembly, the Prefix and Suffix will apply to both the CAD Name and DCS Names in the sub-assembly. (76159)