Dimensional Control Systems Announces the Release of Its New Product, 3DCS Mechanical Variation Analyst, In Partnership with Spatial Corp.

*DCS Releases New Product for Tolerance Analysis of Mechanical Assemblies*

Troy, MI (PRWEB) July 12, 2012 -- Dimensional Control Systems Inc. (DCS) provider of variation analysis software solutions, announces the release of its new mechanical based analyst tool, 3DCS Mechanical Variation Analyst (3DCS Mechanical). This new software tool is specially geared for the mechanical world of manufacturing and analysis with the addition of moving assemblies, new joints and constraints, and a unique Kinematic Solver.

3DCS Mechanical is an easy to use product that uses new joint and constraint assembly definitions instead of the 3-2-1 move routines. These new definitions, which allow automatic extraction of the assembly process, in addition to the existing Part and Product GD&T extraction, speed up the modeling process by leaps and bounds. This increased ease of modeling comes without having to sacrifice any of 3DCS’s functionality.

What makes 3DCS Mechanical stand apart is the inclusion of a new Kinematic Solver, called General Geometric Constraint Manager (GGCM), which is provided through DCS’s partnership with Spatial Corp and allows 3DCS Mechanical to solve over-constrained assemblies. “The partnership between DCS and Spatial provides mutual benefit,” notes Linda Lokay, VP Marketing & Business development at Spatial. “DCS can deliver key differentiating solutions by partnering with Spatial and Spatial gains better insight and knowledge about the stringent requirements needed by DCS helping advance our components.”

3DCS Mechanical is available in multiple formats to fit the needs of different users. 3DCS Mechanical is integrated in CATIA V5 and is being developed on the new V6 platform. 3DCS Mechanical is available for both these platforms as either an Add-On module for the new v7.2 release of 3DCS Variation Analyst or as a separate Mechanical Variation Analyst software package. For non-CATIA users, this new module is available as an Add-On for the new v7.2 3DCS Variation Analyst MC (Multi-CAD) release.

The benefits of using 3DCS Mechanical include the new library of joint and constraint moves, as well as automatic extraction of joints and constraints already defined within the CAD system. This allows users to directly incorporate kinematic assembly information into a 3DCS. Other benefits include the automatic accommodation of over-constrained parts as well as moving assemblies with unconstrained degrees of freedom through their kinematic range of motion. The user, with GGCM, can perform variation analysis on assemblies that may bind or fail to articulate, allowing such mechanisms to be tested before production in a virtual environment as functional units. This will allow manufacturers to test their product’s functionality before production, illuminating any possible issues before manufacturing begins.

“We have built this new tool in response to our customers’ needs, and will continue to streamline its functionality to make it the perfect tool for mechanical assemblies,” says John Mathieson, Executive Vice President and COO at DCS, “With the assistance of our partner, Spatial Corp, we have created a unique software solution that raises the bar for variation analysis.”

Dimensional Control Systems, Inc. (DCS) is a world class provider of Dimensional Engineering Consulting Services and Software Solutions. DCS is a privately held company established in December of 1994 by Robert A Kaphengst, President and CEO, and John H. Mathieson, Executive Vice-President and COO.
Information about DCS is available at [http://www.3dcs.com](http://www.3dcs.com)

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Spatial Corp., a Dassault Systèmes subsidiary, is the leading provider of 3D development software components for technical applications across a broad range of industries. Spatial 3D modeling, 3D visualization, and CAD translation software components help application developers deliver market-leading products, maintain focus on core competencies, and reduce time-to-market. For 25 years, spatial 3D components have been adopted by many of the world's most recognized software developers, manufacturers, research institutes, and universities. Headquartered in Broomfield, Colorado, Spatial has offices in the USA, Germany, Japan, China and the United Kingdom. For more information, visit [http://www.spatial.com](http://www.spatial.com)

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