

For Immediate Release

**SimWise 4D, New from DST, Combines Motion and Stress Analysis
in One Integrated Mechanical Simulation Tool**

Denver, CO (ASME International Mechanical Engineering Congress & Exposition, November 14, 2011) – SimWise 4D, a new product from DST (Design Simulation Technologies, Inc.; www.design-simulation.com) of Canton, MI, provides users with a single simulation tool, integrated with their Windows-based 3D CAD systems, for studying the effects of both motion and stress on their mechanical designs.

DST unveiled SimWise 4D today at the American Society of Mechanical Engineers (ASME) International Mechanical Engineering Congress & Exposition in Denver. The company will commercially release the software in December 2011.

Engineering educators, students, and professionals use SimWise 4D to help develop mechanical systems involving assemblies of 3D parts. The software lets users simulate the rigid body dynamics of assemblies, determine design performance, and calculate dynamic stresses induced by motion – all while working with their preferred 3D CAD platform.

With SimWise 4D, users accurately measure the forces, torques, friction, velocity, and collisions acting upon their mechanical designs. They also determine vibration modes, buckling, and heat transfer. Loads and the resulting stresses on the assembly are automatically calculated. Control systems can be integrated with the mechanical system model.

SimWise 4D also enables users to produce high-quality, physics-based animations for proposals and presentations.

Better Designs Faster

“SimWise 4D helps users produce better designs faster,” said Alan Wegienka, DST’s founder and president. “They can quickly identify and resolve design problems on the computer, before building hardware prototypes. Users save time and money, improve their productivity, and gain confidence in the performance of their designs.”

SimWise 4D works, in fully associative mode, within the latest versions of popular 3D CAD systems including Autodesk Inventor, SolidWorks from Dassault Systemes, Solid Edge from Siemens PLM Software, and PTC’s Creo Elements/Pro (formerly Pro/ENGINEER). The software also supports MATLAB and Simulink from The MathWorks, Inc.

SimWise 4D’s toolbars and buttons can be customized to conform with the user’s CAD platform. Parts, assemblies, and assembly constraints are associatively imported into SimWise 4D and geometry in standard formats. ACIS, Parasolid, STEP (AP203), IGES, and STL can also be used. Complete geometry transfer from CAD to SimWise 4D permits meshing for stress analysis and smooth collisions between bodies.

SimWise 4D is a proven simulation solution. It was previously known as MSC.visualNastran 4D. DST recently acquired certain rights to the software's source code from MSC Software Corporation of Santa Ana, CA. The product has found tens of thousands of users among mechanical engineering students, educators, and professionals.

A special upgrade program is available for past and current users of MSC.visualNastran 4D.

Those interested in trying SimWise 4D can download a free evaluation version of the software at www.design-simulation.com/SimWise4D. An interactive multimedia tour guides users in how to use the software for their simulation and analysis needs.

About DST

DST develops physics-based simulation software. The company's products are used by engineering professionals to build and test virtual models of their mechanical designs, and by educators and students in the classroom to teach and learn about physics and engineering kinematics, dynamics, and machine design.

With DST's SimWise 4D, Working Model 2D, and Dynamic Designer products, users evaluate their designs' performance, conducting complete, accurate simulations. They can quickly perform many "what-if" analyses, find and correct design problems, and refine and validate their designs without the need for physical prototypes.

Students in high school and college use Interactive Physics, DST's award-winning educational software, to explore and understand the physical world through simulation.

DST develops, markets, and supports these software tools for commercial and academic users worldwide. Selected DST products are available from leading CAD suppliers and CAE resellers. Learn more by visiting the DST website at www.design-simulation.com.

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