

- PRESS RELEASE -

Next Generation 3D EM Simulation Software Released

Amsterdam, 28th October 2008, CST - Computer Simulation Technology AG (CST) announces the release of version 2009 of the electromagnetic simulation software CST STUDIO SUITE™, including its flagship product CST MICROWAVE STUDIO® (CST MWS) at EuMW 2008.

Researchers and design engineers use CST STUDIO SUITE™ for the analysis and optimisation of EM based components. By choosing the most appropriate solver technology, making use of sophisticated import filters, and automated optimization and parametric studies, design throughput can be significantly augmented.

Users of CST STUDIO SUITE version 2009 will benefit from numerous enhancements, including a total revision of the tetrahedral frequency domain solver's mesh adaptation scheme, transient EM/circuit co-simulation, MPI based parallelization for the fast solution to large problems on clusters, and the porting of the user interface to 64 bit in order to handle the increasing complexity of imported models. In addition, two new simulation tools have been added: CST PCB STUDIO™ and CST CABLE STUDIO™, which are fully integrated in CST DESIGN ENVIRONMENT™.

“Our development team has been working to anticipate the evolving simulation needs of our customers,” commented Dr. Peter Thoma, Managing Director, R&D, CST. “Performance issues have been at the top of our agenda, and we believe that version 2009 delivers improved workflow interoperability, optimised hardware employment, and increased simulation accuracy.”

Key new features in CST STUDIO SUITE 2009

- New and enhanced solver technology
 - True transient 3D EM/circuit co-simulation using LINMIC technology with CST MWS
 - Transient thermal solver to simulate the heating process
 - Bio-heat equation for realistic modelling of physiological cooling
 - Significant performance increase in Integral Equation solver, particularly for structures smaller than 20 wavelengths
 - True Geometry Adaptation. The mesh adaptation of the tetrahedral frequency domain solver not only refines the mesh, but also snaps to the geometry

- High-end simulation
 - 64 bit frontend and MPI based parallelization for the handling of very large and complex structures
- User friendly
 - User interface optimised for productivity
 - Bend sheet operation for conformal modelling
 - Improved user/modeller interaction
- New products for SI and EMC analysis
 - CST PCB STUDIO™ and CST CABLE STUDIO™ are fully integrated in CST DESIGN ENVIRONMENT™. Results can be used in CST MWS as field sources for further evaluation.

About CST

CST develops and markets high performance software for the simulation of electromagnetic fields in all frequency bands. Its success is based on the implementation of unique, leading edge technology in a user-friendly interface. CST's customers operate in industries as diverse as Telecommunications, Defence, Automotive, Electronics, and Medical Equipment, and include market leaders such as IBM, Intel, Mitsubishi, Samsung, and Siemens. With 150 employees worldwide and a network of qualified distributors, over 190 people are dedicated to the development and support of its EM products in more than 30 countries.

CST's flagship product, CST MICROWAVE STUDIO® (CST MWS) is the market leader in Time Domain simulation. It enables the fast and accurate analysis of high frequency (HF) devices such as antennas, filters, couplers, planar and multi-layer structures and SI and EMC effects. CST MWS offers considerable product to market advantages such as shorter development cycles, virtual prototyping before physical trials, and optimization instead of experimentation.

Further information about CST is available on the web at www.cst.com.

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Graphics

A screenshot featuring the new CST STUDIO SUITE 2009 user interface can be downloaded from the news section of CST's website.

http://www.cst.com/content/news/documents/news_item_126/CST_S2_PR_graphics.zip

This illustrates the magnetic fields on the surface of a helicopter at 10 GHz.