- PRESS RELEASE -

CST Previews New Tool for Multi-Physics Simulation at EuMW 2009

Rome, Italy, September 29th 2009, Computer Simulation Technology (CST) announces the introduction of CST MPHYSICS STUDIO™, a new product in CST STUDIO SUITE 2010, at EuMW, booth # 527.

In many branches of microwaves and RF engineering, required analysis is not confined to the electromagnetic problem, particularly when dealing with high power applications. Both the temperature rise and resulting stress have to be considered in the design process since these may have major implications for the device's performance.

The introduction of CST MPHYSICS STUDIO™ facilitates an integrated workflow in which the electromagnetic simulation calculated by CST MICROWAVE STUDIO® is just the starting point. The dielectric or conductive losses can be used for thermal analysis, which in turn is one of the possible sources of mechanical stress. The resulting deformation can then be subjected to sensitivity analysis.

CST MPHYSICS STUDIO is a part of CST STUDIO SUITE. It features a mechanical stress solver as well as a stationary and a transient thermal solver, both of which are capable of considering the bioheat equation. Through the seamless integration in CST's design environment, multi-physics simulation has become straightforward.

"Many of our customers have requested a tool that will help them estimate the impact heating has on the performance of their products," stated Dr. Peter Thoma, Managing Director, R&D, CST. *"Typically geometry and results have to be exchanged between tools from different vendors. CST MPHYSICS STUDIO is streamlined to meet the requirements of EM design engineers within their design flow."*

Availability

CST MPHYSICS STUDIO will be available with CST STUDIO SUITE™ 2010, which is due for release in January 2010.

CST — COMPUTER SIMULATION TECHNOLOGY AG | Bad Nauheimer Str. 19 | D - 64289 Darmstadt, Germany
Phone: +49 6151 7303 0 | Fax: +49 6151 7303 100 | info@cst.com | www.cst.com

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, Defense, Automotive, Electronics, and Medical Equipment, and include market leaders such as IBM, Intel, Mitsubishi, Samsung, and Siemens. With 160 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 can offer 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 http://www.cst.com.

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For further information please contact:

Ruth Jackson, Marketing Communications, CST

Tel: +49 6151 7303-752

Email: info@cst.com, Web: http://www.cst.com

Graphics

PR graphics can be downloaded from the news section of CST's website at:

www.cst.com/content/news/documents/news_item_143/0909_CSTMPS_PR.zip

"Multi-physics analysis of a cavity filter (courtesy of Spinner GmbH). Shown here are the electromagnetic losses (E-fields, left), the temperature distribution (middle) and the mechanical deformation, exaggerated plot (right)."