- PRESS RELEASE -

CST STUDIO SUITE Version 2014 Released

Darmstadt, Germany, March 27th, 2014, Computer Simulation Technology (CST) announces the release of the 2014 version of the electromagnetic simulation tool, CST STUDIO SUITE®. The latest edition has been developed to improve the performance of the solvers and increase the capabilities for hybrid simulation without compromising on usability.

CST STUDIO SUITE comprises a range of electromagnetic simulation tools for high frequency, low frequency, charged particle and multiphysics applications, which are all available within a single graphical user interface. The tool is used by engineers and researchers around the world to design, simulate and optimize EM systems.

Improving meshing was a major focus during the development of CST STUDIO SUITE 2014, in order to make the mesh engines more efficient, more robust and more user-friendly. Both the hexahedral and tetrahedral mesh have been improved to reduce the cell count and help to discretize complex or low-quality CAD data.

The simulation of complex systems has also been improved. Field source coupling and multiphysics simulations can be set up automatically using the new System Assembly and Modeling (SAM) wizards. SAM allows different solvers to be combined in a single simulation project and can be used to model complex systems one component at a time.

CST STUDIO SUITE fits into a wide range of CAD and EDA workflows through its import and export tools. These have been upgraded to support more file types and offer greater control of model quality. In addition, the 2014 release introduces version control. Imported CAD files can now be monitored by the software, with changes to the external data automatically reflected in the simulation model.

Alongside these major changes, numerous smaller improvements have been made to both the front-end and back-end of the software in order to make modeling, simulation and results processing faster and more straightforward.

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"CST STUDIO SUITE 2014 represents a significant step in the development of our EM simulation tools," said Bernhard Wagner, Managing Director, CST AG. "*We have improved both the power and versatility of our solvers, and we hope that these new features help engineers and researchers in their daily work.*"

Shipping of CST STUDIO SUITE 2014 to existing users is expected to be completed by mid-April 2014.

Highlights of CST STUDIO SUITE 2014

- General
  - Improved CAD export
  - Version control for CAD data
  - Sub-volume field monitors
  - Automated set-up of multiphysics SAM processes
  - Improved results plotting
- Transient solver
  - Improved hexahedral meshing
  - Time-averaged power loss monitor
  - Combined CPU-GPU computing
- TLM solver
  - Preview of PERFECT BOUNDARY APPROXIMATION (PBA)® meshing
- Frequency domain solver
  - Improved tetrahedral meshing
- Integral equation solver
  - Nearfield monitors
- Asymptotic solver
  - RCS hotspot highlight
- EDA
  - Enhanced EDA import tools
  - Decoupling capacitor optimization
- Materials
  - New cable and shield types
  - Time-dependent conductivity materials
  - Partially-saturated ferrites
- Circuit simulation
  - Transient spectrum extraction with AC Task

- Faster MOR and Transient Task

About CST

Founded in 1992, CST offers the market's widest range of 3D electromagnetic field simulation tools through a global network of sales and support staff and representatives. CST develops CST STUDIO SUITE, a package of high-performance software for the simulation of electromagnetic fields in all frequency bands, and also sells and supports complementary third-party products. Its success is based on combination of leading edge technology, a user-friendly interface and knowledgeable support staff. CST's customers are market leaders in industries as diverse as telecommunications, defense, automotive, electronics and healthcare. Today, the company enjoys a leading position in the high-frequency 3D EM simulation market and employs 240 sales, development, and support personnel around the world.

CST STUDIO SUITE is the culmination of many years of research and development into the most accurate and efficient computational solutions for electromagnetic designs. From static to optical, and from the nanoscale to the electrically large, CST STUDIO SUITE includes tools for the design, simulation and optimization of a wide range of devices. Analysis is not limited to pure EM, but can also include thermal and mechanical effects and circuit simulation. CST STUDIO SUITE 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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