

- PRESS RELEASE -

CST STUDIO SUITE Version 2016 Now Shipping

Darmstadt, Germany, 4th March, 2016, Computer Simulation Technology (CST®) announces the release of the 2016 version of the electromagnetic simulation tool, CST STUDIO SUITE®. The latest edition has been developed to both extend the capabilities of the software and to improve its foundations.

CST STUDIO SUITE is an EM simulation software package containing solvers for applications across the electromagnetic spectrum, as well as multiphysics and particle applications. All of its tools are available within a single graphical user interface with strong integration between them. Engineers and researchers in a wide range of industries use CST STUDIO SUITE to develop new ideas, optimize their products, and ensure standards compliance. The 2016 release of CST STUDIO SUITE packs in a number of new features that allow simulation to be used in new ways in the design process.

The Integral Equation Solver (I-solver) now includes Characteristic Mode Analysis (CMA), a method for investigating the behavior of a radiating structure by calculating the current modes that it can support. The primary benefit of CMA is that it gives engineers a better physical understanding which allows them to improve the antenna design or to develop new antenna concepts.

With the new transient combine results feature, the coupling of fullwave 3D field solvers with the circuit simulation reaches a new level of integration. It allows the visualization of field and currents from a circuit connected to the 3D model even considering non-linear and switching elements on the schematic. This is particularly useful in EMC simulation of switched devices for example in the power electronics industry.

The new moving mesh technology allows an existing tetrahedral volume mesh to be adjusted without changing its topology to fit the new structure when parameters are changed. This saves time and reduces the noise associated with changes in mesh topology, allowing much more accurate optimization of devices whose behavior is sensitive to small geometric changes, e.g. of filters.

CST has supported Linux in HPC cluster environments for many years, and CST STUDIO SUITE 2016 extends this support to the individual workstation. Users can now run the CST STUDIO SUITE interface interactively on their own desktop, giving Linux users access to the powerful 3D modeling tools and results viewer and greatly increasing the number of tasks that can be performed entirely in a Linux environment.

As ever, these changes build on the mature, trusted core of CST STUDIO SUITE, increasing the capabilities of the software without sacrificing performance, accuracy or usability.

“CST’s success is rooted in staying on the cutting edge of simulation while maintaining the performance that our users expect from us,” said Dr. Bernhard Wagner, Managing Director, CST. *“Therefore CST STUDIO SUITE 2016 not only offers new features requested by our customers to meet the challenges of the modern design process, but also unlocks the potential of some of our most mature solvers.”*

Shipping of CST STUDIO SUITE 2016 has now started, and electronic delivery will begin on 7th March 2016.

Highlights of CST STUDIO SUITE 2016

- General
 - Interactive Linux frontend
 - Stage view and “exploded” component view
 - Bending and twisting of layered and 3D structures
 - New user-friendly Job Control Center
 - Improved Array Wizard
- Meshing
 - Moving mesh optimization for tetrahedral mesh
 - Hybrid curved surface mesh
 - Intelligent mesh adaptation
 - Sliding mesh for multi-part motors
- Transient solver and TLM solver
 - Air vent material
 - Thin panel material defined by S-parameters
 - TLM mesh visualization
- Frequency domain solver
 - Improved tetrahedral mesh refinement

- Integral equation solver
 - Characteristic Mode Analysis (CMA)
 - Infinite real ground
- Asymptotic solver
 - GPU acceleration and distributed computing
 - Near field probes
- Particle Tracking Solver
 - Tetrahedral mesh support
- Circuit simulation
 - Transient Task with Combine Results
- EDA
 - Signal Specification Library for automated rule checking
 - Chip Interface for IC import
 - Automatic IBIS corner sweep
 - Cable impedance calculator

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 300 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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“ The CST STUDIO SUITE 2016 graphical user interface displaying an exploded view of the components of a mobile phone used in simulation .”