

- PRESS RELEASE -**CST enhances RCS simulation capabilities**

Rome, October 7, 2014, CST - Computer Simulation Technology AG (CST) is showcasing its new features for radar cross-section (RCS) simulation in the upcoming version of its flagship electromagnetic simulation tool, CST STUDIO SUITE® 2015, at European Microwave Week (EuMW) 2014, booth 109.

Aerospace and defense companies and government agencies worldwide use CST STUDIO SUITE on mission-critical projects. Its tightly-integrated solvers cover a broad range of frequencies and scales, allowing demanding and complex electromagnetic environments to be simulated during the development phase of new technologies.

RCS is an important consideration when designing new equipment, and is something that CST has long supported. The 2015 release builds on the previous RCS capabilities of CST STUDIO SUITE by adding the ability to produce RCS maps – plots of RCS phase or amplitude against frequency and scan angle – with the shooting and bouncing ray (SBR) asymptotic solver. RCS maps give engineers a more detailed view of the cross-section of a platform, and can be used to help identify potential scatterers.

CST STUDIO SUITE 2015 also introduces support for angle and frequency-dependent radar absorbing material (RAM) coatings. The angular dependency and frequency dependency of the material are important considerations when minimizing the worst case RCS of a platform, and include these properties in the model can make the RCS simulation more accurate.

More information about the RCS capabilities of CST STUDIO SUITE 2015 will be given in the presentation of new features at the CST booth. Registration for the EuMW exhibition is free of charge, and the CST talks are open to all exhibition visitors. For an overview of all booth presentations see <https://www.cst.com/EuMW-flyer> or visit the CST booth and pick up a leaflet.

“RCS is a significant application for our software,” commented Martin Timm, Marketing Director, CST. *“The new features in CST STUDIO SUITE 2015 build on over a decade of experience of RCS simulation, and will help engineers be able to analyze the cross-section of platforms more accurately and more effectively.”*

Availability

CST STUDIO SUITE 2015 is due for release at the end of Q1 2015.

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 a 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 250 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 <https://www.cst.com>.

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Downloads

- Graphics are available to download from https://www.cst.com/Content/News/news_item_213/2014-10-EuMW-RCS.zip
"RCS map for an aircraft, showing the magnitude of the RCS as a function of frequency and angle of incidence."

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