

- PRESS RELEASE -

CST and Wild River Technology cooperate to demonstrate measurement/simulation correlation for high-speed digital design

Santa Clara, CA, USA, January 21, 2016: CST – Computer Simulation Technology (CST) and Wild River Technology (WRT) present first results of their cooperation, aimed to demonstrate the correlation of simulation and measurement for high speed digital design at DesignCon 2016, Booth # 627.

New technologies such as DDR 4 and in particular SerDes are pushing electronics to higher speeds. This has increased the need for 3D electromagnetic field simulation in the design process to identify and help avoid signal integrity (SI) and power integrity (PI) issues. To simulate devices accurately, design engineers working in this field require accurate broadband models for interconnects and transmission lines, which need to include effects such as conductor surface roughness and dispersion in dielectric materials. Being able to validate the results against benchmarks increases the engineer's confidence in the simulation.

Engineers in leading companies in the electronics industry use the CST STUDIO SUITE® software package to analyze Signal and Power integrity. With mature time-domain and frequency-domain solvers, CST® simulation tools have a strong background in applications from classical microwave into the terahertz regime and are well suited to the challenges of high-speed digital design. Wild River Technology meanwhile markets products for high-speed signal integrity engineers who need to characterize high-speed digital systems very accurately. Through the cooperation of CST and WRT, simulations can now be verified against measurements using the CMP-28 Channel Modeling Platform. This is powerful tool for the development of high-speed systems, and includes a range of structures for benchmarking 3D EM simulations and verifying simulation and measurement methods.

“A strong correlation between measurement and simulation is absolutely critical to the successful use of the simulation tools,” said Dr. Klaus Krohne, Market Development Manager EDA, CST. *“This cooperation with Wild River Technology means that users can now simulate the behavior of a high-speed channel and then easily check the simulated results against real measured data. This will not*

only give users more confidence in their results but also help them to avoid some of the common measurement or simulation mistakes that can slow down the development process.”

CST will be presenting at DesignCon at booth #627, and WRT at booth #752.

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

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