Simberian News: July 6, 2016

«GreetingLine»

Here is an update on what is new at Simberian: **(1) new cost-effective Simbeor licensing; (2) support for Short Pulse Propagation (SPP) technique; (3) new demo-video and app note explaining how interconnects work**.

(1) We are happy to offer new Simbeor licensing options, including cost-effective perpetual licenses with 3 years of maintenance. Low-cost **Simbeor Qualify** license now includes de-embedding, Simbeor SFS, ICN and Via Analyzer tools for pre-layout analysis and SPP Analyzer and GMS-parameters extraction features to validate interconnect losses and dispersion at the PCB production floor. **Simbeor Explore** license includes features for pre-layout analysis with full-wave Simbeor 3DML solver and broadband material model identification with optimization for accurate interconnect analysis in Simbeor or other EDA tools. **Simbeor Complete** license adds post-layout analysis with DeComposer tool and 3D analysis with Simbeor 3DTF field solver with unique field visualization capabilities. **Free Simbeor Viewer license** now includes rational approximation and frequency and time domain analyses of 4-port multiport networks, transmission line and viahole wizards, Touchstone Analyzer with preliminary quality metrics for any touchstone model and final quality metric for 4-port models, import of board design from ODB++ and Violation Browser for IBM's EMSAT tool.

(2) The last update release of Simbeor THz supports Short Pulse Propagation (SPP) dielectric and conductor roughness model identification technique. New SPP Analyzer™ tool extracts complex propagation constant (Gamma) from TDT step or pulse responses measured for two line segments with different lengths. Simbeor THz is the only tool on the market that extracts Gamma from measured TDT and S-parameters and automates the broadband dielectric and conductor roughness models identification step of the SPP technique. SPP technique was introduced in early 90-s by researches from IBM and standardized by the Institute of Printed Circuits or IPC [IPC-TM-650]. **Simbeor's implementation of SPP allows both building broadband models for dielectrics and conductor roughness up to 50 GHz and cost-effective loss validation at the board production floor**.

(3) We also continue our educational series "**How Interconnects Work…**" with visualization of power flow in connector launch in video #2016_09 at the demo video section of our web site or at Simbeor channel on YouTube. Conductor and conductor roughness effects on signal propagation are explained and illustrated in app note #2016_01 at the app notes section. Have some fun learning the electromagnetics!

For more information visit www.simberian.com or contact Simberian at info@simberian.com or +1-702-876-2882

Happy Summer Days,
Team Simberian