



RSoft Design Group Expands Interfaces Between Simulation Software and Agilent Optical Test Equipment

New Interface Enables Simulation of Measured Optical Components in Context of Complete Optical Communication Systems

February 18, 2004 — Los Angeles, CA — RSoft Design Group, Inc. announced a new interface between RSoft's optical communication system simulation software suite including OptSim™, LinkSIM™, and ModeSYS™ and the Agilent 81910A Photonic All-parameter Analyzer. The first interface between RSoft's LinkSIM™ optical communication system simulation software and the Agilent 86146B Optical Spectrum Analyzer demonstrated a reduction in system test times by orders of magnitude, significantly decreasing development and test costs. This new interface builds on that by greatly expanding the capabilities for using component measurement data in system simulations. Now both active and passive optical components may be measured with Agilent test equipment and then simulated with RSoft software.

The 81910A can be used to measure Insertion Loss (IL), Return Loss (RL), Group Delay (GD), Differential Group Delay (DGD), and Polarization Dependent Loss (PDL) from an optical component such as an Arrayed Waveguide Grating (AWG), fiber bragg grating (FBG), or thin film filter. Using measurements of the device's characteristics from the 81910A, OptSim™ can simulate the performance of a complete system utilizing the component under test. System simulation enables the value of particular components in system designs to be studied and demonstrated, and the overall system design can be optimized based on the actual component's characteristics. Simulations can be used to design dispersion map schemes, evaluate dispersion penalties, study polarization-dependent effects, produce BER curves, perform power budget analyses, and more.

RSoft's market-leading optical communication system simulation software suite including OptSim™, LinkSIM™, and ModeSYS™ provides a full complement of component models and analytical capabilities for accurate and efficient simulation of optical communication systems. With over 400 models, interfaces with our device-level tool suite, and interfaces to third-party software and laboratory instruments, RSoft's OptSim™ is the only tool that provides a true time-domain simulation engine for unlimited simulation sequence lengths, and ModeSYS™ is the only multimode simulation solution that includes both the temporal and spatial characteristics of multimode communications. Whether studying systems with polarization-dependence, chirp, dispersion, nonlinearities, jitter, skew, crosstalk, loss, statistical variations, or noise, OptSim™, LinkSIM™, and ModeSYS™ are optimized to save time and money in producing the most accurate results.

For a demonstration, please visit RSoft Design Group at OFC 2004 in Booth # 2029, or contact RSoft Design Group for more information.

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About RSoft Design Group, Inc.

Offering a comprehensive suite of design and business analysis software solutions to the telecommunications and photonics industries, RSoft Design Group is the only company that provides a full range of simulation and planning software and services across the entire component to network-level hierarchy. The company's award-winning products are used by researchers, manufacturers, systems integrators, and service providers to address design challenges ranging from the physics of component design to the business implications of planning networks. RSoft Design Group, Inc. is a privately held corporation with software development offices across the US, and global marketing operations in the Pacific Rim, Europe, and other worldwide locations. For more information, visit www.rsoftdesign.com.

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