RSoft Design Group Enhances Optical Communication System Simulation Tools, Intros New Products For EDFA And Multimode System Design

OptSim 3.6, LinkSIM 3.4, Multimode Simulation Platform, And EDFA For Vendors Are Announced At OFC 2003

March 25, 2003 — Atlanta, GA — RSoft Design Group, Inc. (http://www.rsoftdesign.com) today announced new developments in its family of System Simulation tools, including *OptSim*™ Version 3.6, for simulation-assisted design and validation of optical transmission systems; *LinkSIM*™ Version 3.4, for optical system-level modeling and simulation; *Multimode Simulation Platform*™, the industry's only tool for design and simulation of multimode optical communication systems; and *EDFA for Vendors*™, for EDFA design and analysis that supports customers of Erbium-doped fiber vendors with customized component models.

OptSim 3.6
OptSim is a powerful, user-friendly tool for simulation-assisted design and validation of optical transmission systems including optical networks, DWDM/OTDM amplified systems, ultra long-haul terrestrial and submarine systems, and CATV/digital/analog systems.

Formerly offered by ARTIS, *OptSim* is now being developed by RSoft as a result of RSoft's recent acquisition of ARTIS' intellectual property. Version 3.6 includes a comprehensive VCSEL model that accounts for both spatial and thermal effects and multimode fiber models. Another major development is a SPICE interface — essential for accurate circuit-level modeling of the interaction between the laser driver and the laser. This much-requested feature bridges the gap between simulation of the electrical and optical domains. Other enhancements include new models such as an electrical saturation block and extended library of vendor components, and an interface to RSoft's award-winning device-level *BeamPROP*™. In addition, the MATLAB co-simulation interface is now available on all *OptSim* platforms.

LinkSIM 3.4
LinkSIM 3.4 is a user-friendly optical communication system design and simulation package that features sophisticated component modeling and simulation analysis. Technical enhancements in this latest version include Forward Error Correction (FEC) performance modeling, a MATLAB co-simulation interface, component models for optical signal and noise modeling, a component parameter editing interface that makes link design more intuitive, an interactive simulation results analysis tool, and support for encryption of component parameters.

Multimode Simulation Platform
This new platform, offered as an optional *LinkSIM* configuration, is the only system-level tool that includes both spatial and temporal attributes of optical signal propagation. It models the transverse output field characteristic of multimode lasers, the spatial coupling of multimode components including lasers and fibers, the modal propagation and dispersion in multimode fiber, encircled flux, differential mode delay, and modal bandwidth. This new platform supports critical simulation and analysis studies for the design of Gigabit and 10 Gigabit Ethernet, Fibre Channel, and other leading-edge multimode optical communication systems.

EDFA for Vendors
Erbium-doped fiber vendors want to be able to offer customers flexible simulation software with their fiber shipments. To address this need, RSoft's *EDFA for Vendors* allows customers to use vendor-specific data such as the Giles parameters to simulate a vendor's fiber in a variety of EDFA designs. A wide range of design scenarios can be investigated, including different pumping schemes, multi-stage amplifier configurations, and much more. This tool provides detailed modeling of vendors' Erbium-doped fiber products, including both standard and lot-specific component parameters provided by leading EDF vendors, to help customers design and simulate optical amplifiers. *EDFA for Vendors* is based on the powerful and user-friendly *LinkSIM* CAD tool.

OptSim 3.6, *LinkSIM* 3.4, *Multimode Simulation Platform*, and *EDFA for Vendors* are being demonstrated at OFC 2003 in RSoft's booth, #2862. RSoft also invites OFC attendees to an Exhibitor Showcase presentation, "Software Solutions for the Simulation of Optical Communication Systems," in Hall B4, Room ES2 on Wednesday, March 26 at 11 AM.

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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 wired and wireless networks. RSoft Design Group, Inc. is a privately held corporation with software development offices in New York, New Jersey, Illinois and Silicon Valley, and global marketing operations in the Pacific Rim, Europe, and the Middle East. For more information, visit www.rsoftdesign.com.

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