



RSoft Design Group Software Featured in the OFC/NFOEC 2005 FTTH/PON Demonstration Area

OptSim includes Physical Layer Design of FTTH/PON Access Networks

February 25, 2005 - Ossining, NY – OptSim, RSoft Design Group's computer-aided design tool to simulate optical communication systems, will be shown at the OFC/NFOEC 2005 FTTH/PON demonstration area (booth #2697) co-sponsored by the Optical Society of America and The Light Brigade. OptSim's application in optimization and validation of FTTH/PON network design will be presented.

FTTH employing Passive Optical Network (PON) access architecture is the accepted choice of delivery channel for triple-play services (voice, video and data) from service providers to the home and business users. OptSim, with its extensive library of components, validated accuracy and flexibility in design and modeling of numerous applications such as CATV, CWDM/DWDM lightwave systems, Ethernet, etc., is the perfect tool for physical layer design of FTTH/FTTP networks. Using OptSim's extended library of standard and predefined components, many different what-if scenarios can be simulated to find the optimal performance to cost ratio. Predefined components include a number of commonly used off-the-shelf and custom components, modules and sub-systems like fibers, lasers (including VCSEL, FP, DFB, etc), PIN/TIA, transceivers/transponders, etc., with the specifications provided by leading manufacturers. The OptSim statistical analysis capabilities allow studying the FTTH systems nominal and EOL (end-of-life) performance variations.

For its FTTH demo at OFC/NFOEC 2005, RSoft will provide an OptSim simulation project for a typical BPON FTTH design. Triple-play service is realized as a combination of data, voice, and video signals. Transmission through the optical fiber path employs the CWDM technique with data and voice transmitted at wavelengths in the range of 1480-1500 nm, and video within the 1550-1560 nm range. The data component is represented by a 1 Gigabit link. The voice component can be represented either as traditional PSTN (public switched telephone network) with POTS (plain old telephone service) at the customer end, or as VOIP service (voice over IP, packet-switched protocol, which is rapidly growing these days). The cable TV component is represented as a 16-QAM subcarrier multiplexed (SCM) system. In addition to BPON FTTH, OptSim can be used to model EPON and GPON as well as FTTH with a point-to-point network architecture.

OptSim and the FTTH simulations can be viewed at OFC/NFOEC 2005 FTTH/PON demonstration area (booth #2697) from Tuesday, March 8 to Thursday, March 10, at one hour demos starting at 10AM and 3PM. The software will also be demoed at the RSoft Design Group Booth (#2021). Additional information can be obtained by contacting RSoft Design Group at info@rsoftdesign.com. For more information on the OFC/NFOEC 2005 FTTH/PON special exhibit, please contact Larry Johnson at Larry@LightBrigade.com. In addition the Light Brigade offers three training options for those interested in FTTP disciplines and applications: an FTTP/PON computer-based training (CBT) module and two hands-on courses: Fundamentals of PON and FTTH/PON for Installers. All courses are non-vendor specific. Visit lightbrigade.com for more information or to view the CBT demo.

About RSoft Design Group, Inc.

Offering a comprehensive suite of design and business analysis software solutions to the telecommunications, photonics, and semiconductor 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 United States, and global marketing operations in the Pacific Rim, Europe, and other worldwide locations.

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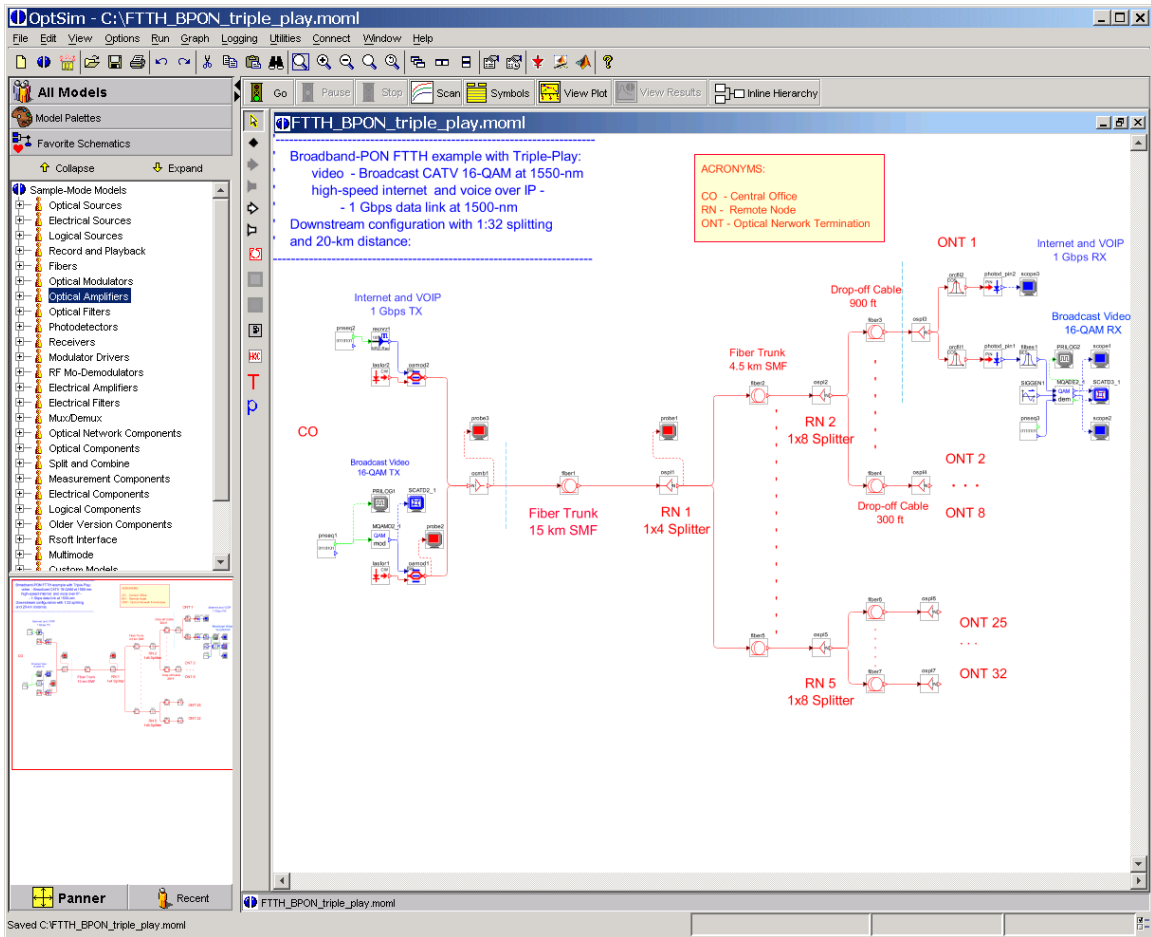


Figure 1 OptSim project simulating a typical FTTH system layout – the Central Office (CO) is connected through fiber to Remote Node (RN) splitters and Optical Network Termination(ONT) units