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The OIF Approves 100G Coherent Receiver Implementation Agreement

Forward Error Correction Whitepaper Completed

Fremont, CA – May 10, 2010 – The Optical Internetworking Forum (OIF) membership has approved an implementation agreement (IA) for the 100G Integrated Polarization Intradyne Coherent Receiver. The implementation agreement specifies key aspects of integrated receivers for coherent DWDM applications. The IA supports DP-QPSK modulation as specified in the OIF's 100G Framework Document and also specifies operating rates up to 32GBd. However, the IA strives to remain modulation format and data rate agnostic to maximize applicability to potential future applications.

"Many vendors are currently developing coherent receivers based on the OIF's 100G receiver IA and their availability is already having a significant impact on the design of next generation of DWDM hardware," said Jeff Hutchins, CoreOptics and OIF Board member.

The recently completed Forward Error Correction (FEC) whitepaper summarizes the OIF's investigation of FEC for use with 100G DP-QPSK transmission in long distance DWDM communications. It examines the propagation challenges and suggests an upper bound for spectral coding overhead for the OIF's integrated photonics projects. The whitepaper complements and supports the work already underway defining 100G Ethernet in the IEEE and the OTU4 of the Optical Transport Hierarchy (OTH) in the ITU-T.

“The OIF’s FEC investigation was instrumental in providing key guidance to our other projects under our 100G LH DWDM framework,” said Karl Gass, Sandia National Labs and OIF Physical & Link Layer Working Group Vice Chair. “The OIF is a unique organization because it actively addresses a wide range of key components necessary for cost effective 100G long haul transport including the carrier requirements, electrical and software interfaces, optical components, and transmission modules.”

The 100G Integrated Polarization Intradyne Coherent Receiver Implementation Agreement and 100G FEC White Paper can be viewed on the OIF website at www.oiforum.com/public/impagreements.html.

OIF Workshop at Light Reading Packet Optical Transport Evolution Conference

The OIF will present “*Building Blocks for Packet Transport Networking, 100G and Beyond*” to attendees of the Light Reading Packet Optical Transport Evolution Conference on May 19th in New York City from 8:00 – 9:00 am. For more details or to register go to the Light Reading Website at http://www.lightreading.com/live/event_information.asp?event_id=29209&survey_id=655&p_id=oifworkshop

OIF Workshop Agenda:

Introductions & Welcome

Dave Brown, Alcatel-Lucent, OIF Market Awareness & Education Chair

Meeting the Need for Speed – 100G and Beyond

Karl Gass, Sandia National Labs, OIF Physical & Link Layer Working Group Vice Chair

Karl will discuss carrier requirements and industry challenges for 100G and the role of the OIF and its work to help speed the commercial availability of products that will make the transition to 100G economically compelling. Next, he’ll review OIF’s 100G LH DWDM Project and discuss looking beyond 100G to the next step in optical networking – network application domains, constraints, objectives, and technological challenges.

The Road to Intelligent High-Speed Packet Optical Networks

Margaret T. Chiosi, Executive Director, Intelligent High Speed Optical

Networking, AT&T Labs

Margaret will present a carrier's perspective on packet transport network migration drivers, challenges, and strategies with a focus on OIF building blocks.

About the OIF

Launched in 1998, the OIF is the first industry group to unite representatives from data and optical networking disciplines, including many of the world's leading carriers, component manufacturers and system vendors. The OIF promotes the development and deployment of interoperable networking solutions and services through the creation of Implementation Agreements (IAs) for optical, interconnect, network processing, component and networking systems technologies. The OIF actively supports and extends the work of standards bodies and industry forums with the goal of promoting worldwide compatibility of optical internetworking products. Information on the OIF can be found at <http://www.oiforum.com>.