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Upcoming Events

November 5, 2007

[PIF-OIF Workshop: 100GE - ASON/GMPLS](#)

Kobe, Japan

November 6-8, 2007

[OIF Q4 Technical and MA&E Committee Meeting](#)

Kobe, Japan

February 5-7, 2008

[OIF Q108 Technical and MA&E Committee Meeting](#)

Hollywood/Ft. Lauderdale, Florida

February 24-28, 2008

[OFC/NFOEC](#)

San Diego, California

March 11-12, 2008

[MVA CEC](#)

South San Francisco, California



Words from the OIF Leadership



As we look over the activities of OIF for year 2007, we see the organization growing and transforming to stay ahead of the needs and directions of the optical industry.

This year we have had a standout demonstration event at ECOC 2007 that showcased the application of OIF control plane work to support on-demand Ethernet services (discussed further in a separate article) with dynamic bandwidth modification.

We have had a forum wide session at our August meeting that brought together views from IEEE and ITU-T on directions for 40Gbps and 100Gbps optical networking standards and tied this into current OIF work on 40Gbps 100 Gbps optical and electrical interfaces and carrier member requirements for high speed optical networking.

We will hold a November workshop jointly with members of the Photonic Internet Forum in Kobe, Japan, bringing together work in the OIF on 100Gbps support and control plane implementation, and research in the laboratories and industry in Asia on high speed optical transport architectures.

All of this reflects attention in the industry towards supporting the rapid growth of Internet, high speed data and multimedia services and the need for interoperability work such as the OIF provides to improve the ability of carriers and vendors to support these growing demands. In taking over as the Chair of the OIF Technical Committee, I see exciting times ahead as we expand the work of OIF in this area.

Lyndon Ong
OIF Technical Committee Chair
Ciena

Contact Us

Want to contribute something in the next issue? We'd like to hear from you! Send comments and ideas to Kimberly Chiu, OIF Project Manager, at kchiu@oiforum.com

OIF

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Worldwide Interoperability Demo Recap

A Marketing Perspective, by Dave Brown, OIF Marketing Co-Chair - Networking, Alcatel-Lucent



The theme of the OIF's global interoperability demo was "On-Demand Ethernet Services", but, ECOC attendees must have thought it was "OIF is ubiquitous" as they were surrounded by OIF speakers, promotions, exhibits, and events at every turn. The OIF leveraged every opportunity to promote and communicate our work and the interoperability demo to the delegates, press, and analysts.

Kicking off the week was a workshop co-sponsored by the OIF and MUPBED titled "Global Interoperability in Multi-Domain and Multi-Layer ASON/GMPLS Networks". The visually appealing and creative booth anchored a multitude of events including special booth presentations and demo tours where participating members guided standing-room only audiences through the demo. These twice-daily sessions created energy both in and around the booth and spurred in-depth follow-up conversations. Then attendees queued-up for the fully booked off-site tours to the DT facilities that showed working evidence of our mission and carrier member involvement.

A special booth presentation, hosted by Hans-Martin Foisel, OIF Carrier Working Group Chair, and Jim Jones, OIF Technical Committee Chair, preceded the invitation-only "Tastes of the World" reception. Another overflow crowd was treated to special guest presentations by Dana Cooperson, VP Network Infrastructure, Ovum-RHK; and the distinguished Wei Leping, CTO of China Telecom



Hans-Martin Foisel also promoted the OIF and demo in a ECOC Market Focus session, while the demo and booth were promoted with new OIF demo-specific collateral and on-site signage, as well as an article and listing in the ECOC exhibition catalog. Cross-promotion and support from other SDOs also was apparent. The ITU provided related collateral and logo usage, while the MEF provided a testimonial quote in our event press release. Overall the event was very well-received by participating members, attendees, the press and analysts and showed another step in the journey to on-demand (if not ubiquitous) Ethernet services.

As Dana Cooperson noted, "Solid ideas still take what looks like lots of magic to turn into the holy grail, which is efficient, scalable deployments. In actuality, the magic is years of R&D, innovation, and testing to get the market to progress. The OIF demo represents the best of continuous industry progress and innovation."

Presentation Links:

Demo Presentation

[Worldwide Interoperability Demonstration: On-Demand Ethernet Services](#)

Presentation at the ECOC Market Focus, Hans-Martin Foisel

[On-Demand Broadband Services on a Global Scale](#)

China Telecom Presentation, Mr. Wei Leping, CTO of China Telecom

[Current Status and Development of Backbone Optical Networks in China](#)

Demo White Paper

[2007 Worldwide Interoperability Demonstration: On-Demand Ethernet Services Across Global Optical Networks](#)

Analyst Corner

"OIF carrier-vendor testing replaces hype with reality to truly advance the market", noted Dana Cooperson, VP Network Infrastructure at industry advisory firm Ovum RHK. "The participants, who together represented over half of global wireline services revenues and over half of global optical networking equipment revenues, successfully demonstrated the tangible benefits of control plane-based transport network deployments."

Ovum RHK Presentation, Dana Cooperson

[OIF 2007 Worldwide Interoperability Demo: On-demand Global Ethernet Services](#)

Educational Outreach and Upcoming Events

PIF-OIF Workshop - 100GE - ASON/GMPLS



Monday, November 5, 2007

Kobe Portopia Hotel

Kobe, Japan

The OIF and Photonic Internet Forum (PIF) will host a joint workshop as detailed below. The workshop will focus on 100GE - ASON/GMPLS and will include presentations by various OIF and PIF representatives.

Invited Speakers Include:

Hans-Martin Foisel (Deutsche Telekom, Germany; OIF Carrier Working Group Chair, and OIF President) - "Welcome, Introductions and Overview"

Prof. Kenichi Kitayama (Osaka University, Japan) - "PIF - Photonic Networks R&D Initiatives"

Dr. Atsushi Takada (NTT, Japan) - "Terabit Router Project"

Dr. Soichiro Araki (NEC, Japan) - "Lambda Utility Project"

Osamu Ishida (NTT, Japan) - "Terabit LAN Challenges"

Dr. Itsuro Morita (KDDI R&D Lab., Japan) - "100Gb/s-class Ethernet Serial Transmission"

David Stauffer (IBM, USA; OIF Physical and Link Layer Working Group Chair) - "100GE Activities of the OIF"

Prof. Yusheng Ji (NII, Japan) - "SINET3: GMPLS based Japanese Academic Backbone Network"

Jim Jones (Alcatel - Lucent, USA; OIF Vice President, Marketing) - "OIF Worldwide Interoperability Demonstration 2007"

For a detailed workshop agenda, please visit <http://www.oiforum.com/public/meetOIFPIF110507.html>

Technology Update

The OIF has several ongoing work projects taking place in various working groups. Highlighted in this newsletter are the following projects:

The Integrable Tunable Transmitter Assembly (ITTA) is a tunable laser integrated with a modulator surrounded by electronics board containing the necessary laser and modulator control electronics. The ITTA has the same form factor as the Integrable Tunable Laser Assembly (ITLA) and shares the same communication protocol. The ITLA interface has been extended to allow software control of the modulator and to specify the high speed data interface. The ITTA contains the RF driver function to allow different modulator technologies to be multi-sourced. The ITTA is designed to be used in 300 pin large form factor transponders and discrete line card applications. This document is currently in Straw Ballot which closes on Tuesday, October 23, 2007. For more information, contact Physical Layer User Group Chair, Karl Gass at kgass@sandia.gov.

The UNI 2.0 specifications contain new features built on the foundation of UNI 1.0r2 and showcased at the 2007 OIF Worldwide Interoperability Demonstration: On-Demand Ethernet Services that concluded last month. These features include Call Control for service setup, additional interface and service types (Ethernet, OTN and low-order SONET/SDH), call/connection modification and enhanced control plane security. The specifications include RSVP extensions for UNI 2.0, which are built on the RSVP definitions of UNI 1.0r2 [OIF-UNI-01.0-R2-RSVP]. The contributions also specify compatibility between UNI 1.0r2 and UNI 2.0 and incorporate technical findings from the recent interoperability demonstration. Straw balloting is set to close on Tuesday, October 23, 2007. For more information on this document, please contact Jonathan Sadler, Architecture & Signaling Working Group Chair at Jonathan.Sadler@tellabs.com.

The Serial Look Aside (SLA) is an upgrade to the widely adopted Look-Aside Interface (LA-1) between network processing elements and network search elements. This interface is often used between a network processor and a Ternary Content Addressable Memory (TCAM) and is built upon the SPI-S protocol. This document passed straw ballot on September 13, 2007. For more information, contact Physical and Link Layer Working Group Chair, David Stauffer at dstauffe@us.ibm.com.

Working Group Highlight – Physical Layer User Group

The OIF Physical Layer User Group Working Group's mission is to develop requirements and guidelines for components, modules, subsystems and communication links used in networking equipment thus providing common direction to the PLL vendor community as well as the other OIF working groups. This group was created to give system vendors a greater voice while defining requirements for new project starts.

The group is currently revising the Common Electrical Interface (CEI) System Vendors Requirement Document to include CEI-25 data rates and applications. For more information on the Physical Layer User Group Working Group, contact group chair, Karl Gass at kgass@sandia.gov.

OIF Officer Election Results

Elected to 2 year terms:	Elected to 1 year terms:
Jim Jones, Alcatel-Lucent	Alessandro D'Alessandro, Telecom Italia
Monica Lazer, AT&T	Jeff Hutchins, Intel

At the Q3 Technical Committee Meeting in Somerset, NJ the following OIF Officers were elected:

Technical Committee Chair - Lyndon Ong, Ciena

Market Awareness & Education Co-Chairs
Networking - Dave Brown, Alcatel-Lucent
PLL - Brian Holden, PMC Sierra

2007/2008 OIF Officer positions:

President - Hans-Martin Foisel, Deutsche Telekom
Vice President - Monica Lazer, AT&T
Secretary/Treasurer - Stephen Shew, Nortel Networks
Vice President of Marketing - Jim Jones, Alcatel-Lucent

OIF in the News

Press Releases and Related Coverage can be viewed at <http://oiforum.com/public/pressreleases.html>

September 17, 2007

[World's Top Carriers Pronounce OIF Interoperability Demo A Success](#)

Ethernet Services Tested Across Vendors and Carriers in Lab Facilities Spanning the Globe

September 10, 2007

[OIF To Showcase Worldwide Interoperability Testing In Berlin](#)

Live Demonstrations, Workshops, Presentations and Tours at ECOC

August 22, 2007

[Top Equipment Vendors Step Forward For OIF's Global Interoperability Demo](#)

July 17, 2007

[OIF's StatEye Focuses on High-Speed Channel Compliance](#)