

40Gb/s NETWORKS AND THE PMD CHALLENGE

- *What is the market impact of PMD?*
- *How much of the world installed fiber plant can support 40Gb/s DWDM upgrades?*

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Workshop Goals

Global perspective of PMD

- Discuss the PMD levels of the world's installed fiber plant
- Evaluate compliance of world installed fibers to 40Gbs transmission
- Discuss the market impact of PMD

Some questions to answer

- Actual PMD levels of the world fiber plant?
- An issue only with old fibers or a fiber boom era legacy?
- Impact on incumbents, utilities and CAP's ?

Speakers & Panelists

- Sharing of experiences from different countries

Workshop Benefits

- Carriers ⇒ better positioning themselves in the dark fiber market
- Equipment vendors ⇒ clearer evaluation of 40Gb/s market penetration
- Drive new technology developments
- Drive investment decisions, start-ups and venture capitalists

<i>Market Impact of PMD</i>		
Richard Ednay	Optical Tech.Training, United Kingdom	PMD Measurements & Standards
Michel P. Belanger, <i>PhD</i> and Kim Roberts	Nortel, Canada	Cost Impact of PMD on 40G Deployment
Karen Liu and Ian Redpath	Ovum-RHK, UK & USA	40G & PMD: Market at a crossroads
Ross Saunders	StrataLight, USA	Techno-economic considerations for managing real world installed fiber plant PMD
<i>World-Wide PMD Audit of Installed Fiber Networks</i>		
John W. Peters	Telcordia, USA	Review of Telcordia PMD Field Measurement Results
Werner Weiershausen	T-Systems (Deutsche Telecom), Germany	PMD as Bottleneck Problem for the Introduction of 40Gbit/s and Future 100Gbit/s Ethernet into German WDM Backbone
Richard Ednay Modesto de Morais, <i>MSc</i> and Joaquim Anacleto, <i>PhD</i>	Optical Tech.Training, United Kingdom IEP, Portugal	PMD Measurement Experiences – United Kingdom and Portugal
Andre Girard, <i>PhD</i> and Dan Källgren	Exfo, Canada Telia-Sonera, Sweden	Sharing worldwide PMD tests results: are they all meeting international standards specifications?
Elsó L. Rigon, <i>MSc</i> Sergio Barcelos, <i>PhD</i>	FiberWork, Brazil & USA	Nation-wide PMD audit of installed fiber networks Workshop Summary
Panel Discussions & Audience Participation		

Market Impact of PMD:

PMD Measurements & Standards

Richard Ednay, Optical Technology Training

Cost Impact of PMD on 40G Deployment

Michel Belanger and Kim Roberts, Nortel

40G & PMD: Market at a Crossroads

Karen Liu and Ian Redpath, Ovum-RHK

**Techno-economic Considerations for Managing
Real-World Installed Fiber Plant PMD**

Ross Saunders, StrataLight

World-Wide PMD Audit of Installed Fiber Networks:

Review of Telcordia PMD Field Measurement Results John W. Peters, Telcordia

**PMD as Bottleneck Problem for the Introduction of 40Gbit/s and Future 100Gbit/s Ethernet
into German WDM Backbone**

Werner Weiershausen, T-Systems

PMD Measurement Experiences in UK and Portugal Richard Ednay, OTT,
Modesto de Morais and Joaquim Anacleto, IEP

**Sharing Worldwide PMD Test Results: Are They All Meeting International Standards
Specifications?**

Andre Girard, Exfo, Canada, and
Dan Källgren, Telia-Sonera

Nation-wide PMD Audit of Installed Fiber Networks Elso L. Rigon, FiberWork

Workshop Summary Sergio Barcelos

Panel Discussions & Audience Participation