

7 CECs - RCDD

7 CECs - NTS (LAN)



GIGABIT, 10 GIGABIT AND ABOVE

Maximum optical fibre infrastructure flexibility with minimum risk

A 1-day intensive seminar

OBJECTIVE

...to introduce wide area network design techniques into the LAN and data centre environment - enabling the creation of highly flexible connectivity solutions whilst maintaining network performance...

BACKGROUND

Very few network designers, even specialists, understand the full impact that gigabit and multi-gigabit networks have had on optical fibre cabling infrastructure design. 1000BASE and 10GBASE Ethernet has left designers and operators floundering in a technical area where the one parameter they need to understand is the one they cannot measure - bandwidth - while restricting cabling attenuation limits to an unparalleled degree.

Inexperienced users fall foul of excess cable length, contamination of optical interfaces, unmanaged polarity and poor channel control. More expert users impose overzealous design rules that maintain performance at the cost of infrastructure flexibility. Rarely do individuals in either group understand the detailed transmission models and are unable to benefit from the few, but important, areas of flexibility within the models.

Furthermore, although 10GBASE Ethernet is often heralded as the network that bridges the LAN/WAN interface, few designers and operators realise the power of WAN design techniques that can be brought to bear on LAN infrastructure design.

WAN design techniques linked to the complex bandwidth-loss models (e.g. IEC 61282-2) used for 1000BASE and 10GBASE Ethernet allow increased number of connections and/or increased channel length, often important in data centre environments, without deterioration of network performance and increased channel length.

This seminar explains the background to the technology and the approaches that can be applied to both multimode and singlemode infrastructures to provide maximum flexibility with minimum risk.

SCHEDULE Q2, 2005

APRIL	MAY	JUNE
Date: 20th April 2005 Location: London, England	Date: 18th May 2005 Location: Manchester, England	Date: 22nd June 2005 Location: London, England

In addition to the scheduled dates shown above, it is possible to arrange on-site training to suit specific company requirements. Costs for on-site training are shown below.

COSTS

Scheduled Courses	On-site Training (UK)	Service Packs
Sterling: £320.00 per person Euro: €480 per person	Sterling: £1300 plus £50 per person Euro: €1950 plus €75 per person	In addition to the training course, The Cabling Partnership offers a 12-month service pack agreement. The service pack provides details of all changes relevant to the training received. This takes the form of an e-Newsletter together with copies of all applicable documentation. Sterling: £75.00 per person Euro: €120 per person
	On-site Training (outside the UK)	
	Contact The Cabling Partnership for details	
The above costs include refreshments during the courses but exclude accommodation.		

The above costs are subject to VAT where applicable.

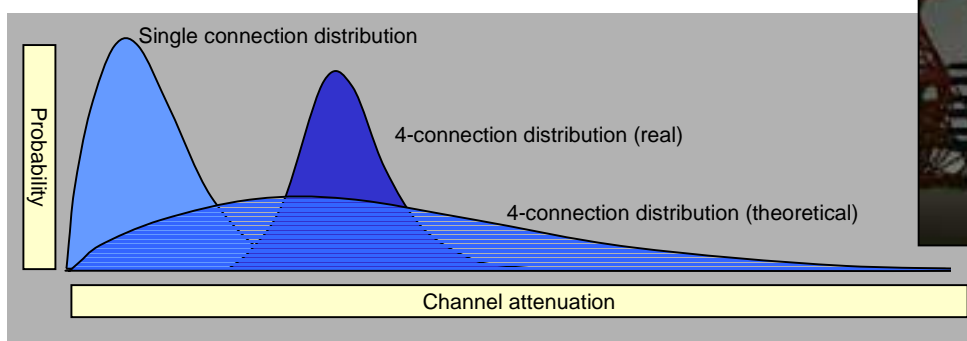
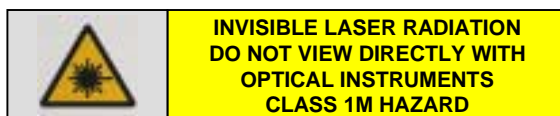
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AGENDA

0930 hrs	An Introduction to xGbE	1330 hrs	Developing Enhanced Channel Design Rules
	The technology options (MMF- λ_1 , MMF- λ_2 , SMF- λ_2 , SMF- λ_3) Optical power budgets MMF/SMF performance Channel insertion loss and power penalty		Component equivalence modelling Applications in resilient architectures Flexibility in data centre environments
		1415 hrs	Channel Management
1030 hrs	The Detailed Transmission Models		Polarity maintenance (FIA-TSD-2000-3-3) Risks for non-conventional architectures User Guides and Safety Migration to 40GBASE applications
	1GbE spreadsheets - IEC 61282-2 10GbE spreadsheets		
1100 hrs	Break	1500 hrs	Break
1115 hrs	Extending Transmission Distance	1515 hrs	Testing Installed Infrastructure
	Cable and connecting hardware attenuation Optical fibre bandwidth Analysis of the impact of component enhancement		Test approaches The importance of the correct test methods Test cords FIA-TSD-2000-4-2-x and European standards
1200 hrs	Understanding Connecting Hardware	1630 hrs	The Promise of 10GbE over Copper
	Random mated performance Monte Carlo modelling Multi-connection channels		Category 6 or Category 7? Alien Xtalk The rebirth of screened cabling?
1230 hrs	Lunch	1700 hrs	Close



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....how to book?

You can reserve places on the courses listed below in the following ways:

- by faxing this page, complete with your requirements and contact details to +44 (0) 113 293 2632
- by telephone: +44 (0) 113 232 3721
- by e-mailing your requirements to The Cabling Partnership
 - automatically, by clicking on this hyperlink
 - manually, to mike.gilmore@btinternet.com

RESERVATION FORM

RESERVATION FORM		No. of places required			
APRIL	Date: 20th April 2005 Location: London, England	Service Pack required		YES	NO
MAY	Date: 18th May 2005 Location: Manchester, England	Service Pack required		YES	NO
JUNE	Date: 22nd June 2005 Location: London, England	Service Pack required		YES	NO
On-site Training	Please supply your preferred dates	Service Pack required		YES	NO

MY DETAILS

COMPANY NAME					
COMPANY ADDRESS					
	CITY		POST/ZIPCODE		
TELEPHONE					
FAX					
RESERVATION MADE BY					
e-MAIL ADDRESS					
SIGNED					
DATED					