



## ***Carrier Ethernet Seminar*** **In-Depth Seminar – from basics to new developments**

An increasing number of service providers offer standardized Ethernet transport services complying with the Metro Ethernet Forum (MEF) services specifications. The MEF Ethernet services pose new challenges to Service Providers in such areas as Bandwidth preservation, provisioning, multicast support and scalability.

With our Carrier Ethernet Seminar we aim in particular to address carrier network operators and administrators, network planners and test engineers who are interested in gaining a thorough overview as well as detailed knowledge about the Carrier Ethernet basis, standards and current developments.

The independent position of EANTC and its

ongoing involvement with industry standardization forums like MEF and IETF ensures that the principles of Carrier Ethernet as well as the recent developments will be presented without any bias towards specific manufacturers. You will gain valuable knowledge based on our unequalled practical experiences in organizing multi-vendor interoperability test events for Carrier Ethernet World Congresses.

### ■ **Aim of seminar**

As test center we get to know first about new technologies - we will pass this knowledge on to you. On completion of the seminar you will have gained a thorough understanding of Carrier Ethernet and made first hands-on experiences based on practical exercises.

**■ Seminar content**

- History and Background of Carrier Ethernet
- Metro Ethernet Forum (MEF) and other standard bodies
- Overview of approved and upcoming specifications
- MEF Service Definitions (E-Line, E-LAN, E-Tree)
- MEF Service Attributes
- User Network Interface (UNI)
- MEF Service transport (MPLS, PBB-TE, T-MPLS)
- Ethernet Link Management Interface (E-LMI)
- Ethernet OAM (Link and Service OAM)
- Circuit Emulation Services (CES) over Ethernet
- Mobile Backhaul over Carrier Ethernet
- Practical Exercises (E-Line, E-LAN)
- Carrier Ethernet Testing an Interoperability
- External Network to Network Interface (E-NNI)

**Dates**

Please check <http://www.eantc.com/seminars/> for an up-to-date overview of seminar dates.

**Price per person**

EUR 2,500 + 19 % VAT

The participation fee includes seminar material, lunch and light refreshments

The 3-days seminar is restricted to 10 participants and will take place in the EANTC seminar center in Berlin. Seminar material is provided in English. Seminars are held in German or English.

**■ Any questions?**

Our seminars are all available as cost effective on-site presentations. We will work with you to precisely provide the training you need at the time and place you want. Please feel free to contact us!

**E-Line  
Ethernet Line Service**

**E-LAN  
Ethernet LAN Service**

**MPLS  
Multiprotocol Label  
Switching**

**T-MPLS  
Transport-MPLS**

**PBB-TE  
Provider Backbone  
Bridging-Traffic Engi-  
neering**

**OAM  
Operation, Administra-  
tion and Maintenance**

**■ Registration**

I would like to register the following person(s):

Company: \_\_\_\_\_

Seminar: **Carrier Ethernet Seminar**

Address: \_\_\_\_\_

Date: \_\_\_\_\_

ZIP/City/Country: \_\_\_\_\_

Participant 1: \_\_\_\_\_

Phone: \_\_\_\_\_

Participant 2: \_\_\_\_\_

Fax: \_\_\_\_\_

Participant 3: \_\_\_\_\_

E-mail: \_\_\_\_\_

Participant 4: \_\_\_\_\_



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Full payment must be received before the start of the seminar. Cancellations received less than two weeks prior to the seminar will be billed with 50% of the fee. All cancellations must be received in writing. Transfer to an alternative seminar date may be possible on availability.

\_\_\_\_\_ Date \_\_\_\_\_ Signature