

# MPLS ETHERNET WORLD CONGRESS PARIS 19-22 MARCH 2013 ANALYSING THE SDN IMPACT

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# TUESDAY 19 MARCH MPLS TECHNICAL TUTORIAL

07.45 WELCOME, REGISTRATION AND COFFEE

## 09.00 MPLS in Mobile Backhaul Evolution: 4G and Beyond

This tutorial examines the principal drivers for IP/MPLS backhaul transport infrastructure that accommodates the scaling and latency needs of the evolving LTE mobile networks. Key challenges, options, benefits and tradeoffs of architectures supported with IP VPNs, L2VPNs and native Ethernet are explored, along with several deployment scenarios. Details on key aspects of the architecture such as reliability and timing, and its evolution which includes small cell support will be highlighted. Key existing and emerging industry standards/agreements are referenced.

- Introduction to Broadband Forum
- Business Drivers
- Ethernet and IP VPN Backhaul Architecture
- Timing and Synchronization
- QoS
- Resiliency, Protection and Performance

10.00 COFFEE BREAK

- IPv6 Considerations
- Energy Efficiency
- Relationship to MEF 22.1 Mobile Backhaul
- Deployment Examples
- Broadband Forum Mobile Backhaul Workplan
- Summary
- Relationship to MEF 22.1 Mobile Backhaul
- Deployment Examples
- Broadband Forum Mobile Backhaul Workplan
- Summary

12.30 LUNCH

## 14.00 Enhancing IP/MPLS based Carrier Services to address Data Center Interconnection (DCI)

The tutorial describes the requirements, motivation and options for using IP/MPLS technologies as a Data Center Interconnect technology.

The use of existing BGP-VPLS and LDP-VPLS as Data Center interconnect technologies, together with the enhancements needed to provide a resilient and scalable interconnect, taking into account service instance and MAC address scaling is underlined. The benefits of control plane based MAC learning using BGP are discussed, as well as a method for hiding the Intra DC MAC-addresses from the MPLS infrastructure.

Additionally, this tutorial describes the use of the relatively new E-VPN and PBB-EVPN technologies and how it enables Service Providers to offer an enhanced Data Center interconnect service.

- Next Generation Data Center Interconnect Use Cases and Requirements
- Motivations for using IP/MPLS technologies for Data Center Interconnect
- Building Blocks of a Data Center Interconnect Solution
- Use of existing BGP-VPLS & LDP-VPLS technologies for Data Center Interconnect

15.00 COFFEE BREAK

- Use of new BGP/MPLS E-VPN & PBB-EVPN technologies for DCI
- Applying E-VPN for Data Center Interconnect
- E-VPN/PBB-EVPN IETF Standardization Update
- Summary

17.00 END OF THE MPLS TECHNICAL TUTORIAL

PRESENTED BY  
BROADBAND FORUM AMBASSADORS



**Dave Sinicrope** | ERICSSON  
**Bruno De Troch** | JUNIPER NETWORKS  
**Santiago Alvarez** | CISCO

# TUESDAY 19 MARCH CARRIER ETHERNET WORKSHOP

10.00 WELCOME, REGISTRATION AND COFFEE

## CE 2.0: UPDATES AND NEW DIRECTIONS

### 11.00 The MEF Carrier Ethernet Report

- MEF overview
- Update on CE2.0 adoption
- Major 2013 technical, marketing & certification program initiatives

**Phil Tilley** | ALCATEL-LUCENT

### 11.20 Carrier Ethernet Services: Fundamentals

- Service types, attributes, bandwidth profiles, traffic management
- Service Management

**Shahar Steiff** | PCCW and **Joachim Burkle** | ERICSSON

12.30 LUNCH

### 14.00 Carrier Ethernet for Cloud Service Delivery

- Major new work is in progress in the MEF to enhance MEF Ethernet Services to accommodate on-demand, dynamic provisioning for business-class cloud-based application delivery

**Abel Tong** | CYAN and **Johannes Weingart** | BROCADE

### 14.40 MEF E-Access Service Specification Overview

**Richard Strike** | ADVA OPTICAL NETWORKING  
and **Johan Witters** | ALCATEL-LUCENT

15.10 COFFEE BREAK

## 15.40 Optimizing Mobile Backhaul: Enhancements in Ethernet-Based Mobile Backhaul

- MEF CE 2.0 Mobile Backhaul Initiative leverages the work that instigated the migration of the backhaul to Ethernet Focus is on implementation of optimized, efficient 4G/LTE and upcoming work on small cells

**Rami Yaron** | DRAGONWAVE

## 16.10 CE 2.0: Updates and New Directions



Moderator:  
**Carsten Rossenhövel** | EANTC

Panelists  
**Phil Tilley** | ALCATEL-LUCENT  
**Abel Tong** | CYAN  
**Joachim Burkle** | ERICSSON  
**Shahar Steiff** | PCCW  
**Rami Yaron** | DRAGONWAVE

17.00 END OF THE CARRIER ETHERNET WORKSHOP

SEMINAR PRESENTED BY



# WEDNESDAY 20 MARCH 2013 CONFERENCE DAY ONE

07.45 WELCOME, REGISTRATION AND COFFEE



CHAIRMAN

**Azhar Sayeed** | CISCO

## KEYNOTE SESSION



08.30 - 09.00

**Hector Avalos**  
| Director Business Strategy IP & Broadband | ERICSSON



09.00 - 09.30

**Dr Xipeng Xiao** | HUAWEI



09.30 - 10.00

**Sunil Khandekar** | CEO | NUAGE NETWORKS



10.00 - 10.30

**Dave Ward** | CISCO



10.30 - 11.10

**Yakov Rekhter** | JUNIPER NETWORKS

11.10 COFFEE BREAK

## SESSION OPENFLOW AND MPLS

### 11.40 OpenFlow/SDN Use Cases in Service Provider's Domain

The first use case relates to the implementation of a 'Metro Network Fabric' with IP MPLS VPN services for LTE Backhaul. The second one relates to a 'Service Delivery Fabric' for residential broadband networks. The talk will summarize the role of OpenFlow in SDN networks based on the lessons learnt from these prototypes.

**Marc Rapoport** | Principal Network Architect | ERICSSON

### 12.10 Intersection of MPLS and OpenFlow in Next Generation Access Networks

Presenting how Openflow can provide traffic engineering requirements of service providers and network operators in next-generation access networks. Our analysis includes support for Quality-of-Service (QoS) monitoring and Service Level Agreement (SLA) assurance and evaluates whether there is an intersection between OpenFlow and MPLS that needs to be considered by the wider community.

**Anthony Magee** | Principal Engineer, Advanced Technology | ADVA OPTICAL NETWORKING

12.40 LUNCH

### 14.00 SDN for MPLS Networks: Recommended Improvements and Extensions

Proposing some enhancements to OpenFlow so that SDN could do more and better for MPLS networks. Recommending globally-significant labels for MPLS switching and forwarding, especially for multicasting. Recommending to expand the label space after examining the EXP bits and the BOS bit. Re-defining a new semantics for MPLS labels to support network abstraction and network virtualization



**Richard Li** | Distinguished Engineer and Senior Director IP Software | HUAWEI

## SESSION SDN IMPACT ON MPLS

### 14.30 SDN as a Control Plane for Seamless MPLS

Covering several reasons that Seamless MPLS is compelling, the service provider pain points it could address, and how to actually make this a reality. One view of SDN is a centrally managed, distributed control plane that orchestrates network services. Showing how such an SDN applied in the WAN can address the service requirements stated above.



**Kireeti Kompella** | JUNIPER NETWORKS

### 15.00 Segment Routing: Technology and Use Cases

Introducing a novel routing technique we refer to as segment routing. Showing how it can be applied to MPLS to resolve problems such as multi-path, disjoint path and traffic engineering without requiring RSVP-TE. Highlighting its benefits in the context of SDN.



**Authors:** Clarence Filfils, Dan Frost and Stewart Bryant, Cisco

**Clarence Filfils** | CISCO

### 15.30 Requirements for Scalable and Interoperable Solution for Network Virtualization

Demonstrating how MPLS/BGP IP VPN technology can provide a solution for network virtualization controller function that manages the forwarding state of network devices. Presenting scale, connectivity, and interoperability requirements for such solution.

**Maria Napierala** | AT&T

16.00 COFFEE BREAK

### 16.30 BGP-LS, Foundation for Application-level Topology Intelligence

Introducing a novel routing technique we refer to as chain routing. Showing how it can be applied to MPLS to resolve problems such as multi-path, disjoint path and traffic engineering without requiring RSVP-TE. Highlighting its benefits in the context of SDN.



**Hannes Gredler**  
| Distinguished Engineer | JUNIPER NETWORKS

### 17.00 Carrier Ethernet and SDN

Carrier Ethernet has become the dominant market choice for the delivery of predictable, secure, business class services and for mobile backhaul transport. Two of the drivers of this market are business-class Private Cloud Service delivery to the Enterprise and Data Center to Data Center interworking both of which are enabled by Carrier Ethernet. This provides the context for the discussion of how Carrier Ethernet fits in an SDN framework.



**Nan Chen** | President | MEF

### 17.30 QoS/SDN



SDN technologies have been shown to be useful in traffic engineering contexts, in particular in optimization of network utilization. This talk raises the questions as to whether they are helpful or detrimental in QoS assurance.

**Yaakov Stein** | RAD DATA COMMUNICATIONS

## PANEL

### 18.00 If We Don't Have a Definition of What it Is, What Isn't SDN?



Moderator:  
**Vishal Sharma**  
METANOIA

Participants:

**Dave Ward** | CISCO

**François Lemarchand** | ERICSSON

**Zeev Draer** | VP Strategic Marketing | MRV COMMUNICATIONS

**Kireeti Kompella** | JUNIPER NETWORKS

**Dan Pitt** | Executive Director | ONF

**Maria Napierala** | AT&T

**Andrew G. Malis** | VERIZON

**Dr. Justin Joubine Dustzadeh** | CTO & VP Technology Strategy | HUAWEI

**Thomas Morin** | ORANGE

**Matthew Bocci** | ALCATEL-LUCENT

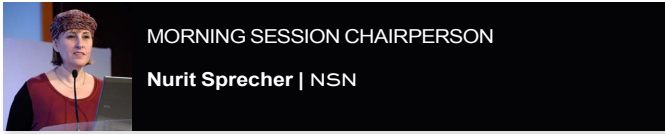
**Yaakov Stein** | RAD DATA COMMUNICATIONS

19.30 END OF THE CONFERENCE DAY ONE

19.45 WELCOME COCKTAIL

# THURSDAY 21 MARCH 2013 CONFERENCE DAY TWO

07.45 WELCOME, REGISTRATION AND COFFEE



## SESSION END TO END MPLS

### 08.30 Unified MPLS

Documenting the architectural delta between RFC3031 and the development since it was published. Describing how the interfaces between MPLS networks controlled by different protocols is traversed and how LSPs is set up between these networks. Describing how the OAM from the MPLS-TP project may be reused in other types of MPLS networks.



### 09.00 Unified MPLS for Mobile Backhaul and Multicast

Demonstrating how multicast can be deployed for MBMS service on the Unified MPLS mobile backhaul network for efficient video delivery. Discussing the challenges associated with Multicast and mobility in general.



### 09.30 Deploying VPLS Services on a Scalable End-to-End MPLS Network

Providing an overview of the challenges of VPLS to meet the requirements of the emerging application demands and discussing the VPLS deployment issues in an end-to-end MPLS network. The use of 802.1aq SPBM over MPLS is analyzed as a potential answer to the new challenges and a possible way to take VPLS to the required next level of scalability, while keeping fast restoration and end-point provisioning.

**Jorge Rabadan** | IP Product Line Manager | ALCATEL-LUCENT

### 10.00 An End-to-End Low Latency Architecture

Offering low latency network services requires an end-to-end low latency network architecture, which is aware of its state and usage and operate in harmony and coordinated way, and is managed in a holistic end-to-end view. Introducing a speedy, end-to-end network architecture, and techniques that can ensure the best experience for every mobile broadband user. Considering the crucial requirement for an affordable mobile broadband.

**Nurit Sprecher** | NSN

10.30 COFFEE BREAK

### 11.00 Path Computation Element (PCE) for Carrier Networks

PCE enables the centralization of control plane path computation. Examining how carriers utilize PCEs to achieve its benefits. Including enabling multi-layer and multi-domain end to end networking. Update on the standards and the state of current implementations.

**Pat Moore** | Director of Business Development | METASWITCH NETWORKS

## SESSION PROTECTION

### 11.30 Design Choices for MPLS Network Integration in a Mobile Operator's Environment

Shall we carry on with MPLS FRR or use IP FRR (LFA) to simplify design? Can we improve coverage with Remote LFA in our topology? Is node protection a necessity? Is TE (Traffic Engineering) the only option for voice signalling diversity? What about LSP tail-end protection?

**Patryk Konczyk** | Network Strategy, Architecture & Design | EE

### 12.00 Effective Benchmark Test Methodology to Qualify BGP Convergence in IP/MPLS Services enabled Networks

Exploring several effective and repeatable test methodologies designed to characterize and comparing convergence performance. The actual test results are presented to support the benchmark test methodology.

**Authors:** Rajiv Papneja, Huawei Technologies, Bhavani Parise, Cisco, Dean Lee, Ixia, and Ilya Varlashkin, EasyNet Global Services

**Rajiv Papneja** | HUAWEI TECHNOLOGIES and **Dean Lee** | IXIA

12.30 LUNCH

### 14.00 IP/MPLS Friendly Protection and Restoration Mechanisms

Exploring protection and restoration mechanisms that are well suited to IP/MPLS traffic and applications. While a number of techniques are explored, the primary focus is on a novel approach to shared mesh restoration. This approach utilizes RSVP signaling, SLRG awareness, and stateful PCE (Path Computation Element). Each element of the system and their orchestration is examined.



## SESSION EDGE

### 14.30 Smart Networking: Belgacom Case Study

Belgacom is offering MPLS-based VPN services under the brand of "Explore" (IP and Ethernet VPNs as well as Internet based access products) to its enterprise customers. The service offering includes QoS, SLAs and end-to-end reporting. The "Smart Networking" service allows enterprise customers to monitor the quality of their applications, and to control the behaviour of these applications across the WAN.

**Tom Davidson** | Head of National & International Connectivity | BELGACOM

### 15.00 BNG: Decentralized Services at a MPLS based Edge

Deutsche Telekom is currently investigating in Broadband Network Gateways as an universal edge device for all services. Giving a detailed view about requirements, architecture as well as migration scenarios from the existing network architecture towards BNG.



15.30 COFFEE BREAK

### 16.00 EVPN Support for All Things Ethernet

Focusing on the fundamentals of 802.1aq SPBM support over EVPN. There is a particular focus on the mechanics, how operational decoupling of the Ethernet networks is achieved and how this permits the integration of Ethernet SPBM, PBB and PB networks.



### 16.30 Surrounding The Core

Showing how using MPLS to the edge and to the access allows operators to not only leverage their core infrastructure asset, but also offload the traffic and lower the CAPEX, all while offering new services and extracting the value. Focusing on how simple end-to-end service provisioning can be achieved in multi-vendor environments.

**Moshe Shimone** | TELCO SYSTEMS

## SESSION DATACENTER VIRTUALIZATION

### 17.00 Scaling Multi-tenant Data Centers with BGP/MPLS VPNs

Discussing the data center architecture evolution, the requirements for both intra-data center and inter-data center connectivity, with focus on supporting very large scale multi-tenancy data centers, – e.g., millions of VMs and thousands of end-systems in a single data center; supporting of VM live migration, and how MPLS BGP VPN technologies with potential extensions can be used to meet the requirements and provide horizontally scalable data center solutions.



### 17.30 SDN enabled Data Center Interconnection

Introducing SDN enabled DCI in conjunction with OpenFlow protocol extensions, in order to provision and manage interconnection of data centers using Traffic Engineering Tunnels, such that Carriers could offer DCI services to customers in a seamless fashion.



### 18.00 Service Chaining & Service Attachment Automation

**François Lemarchand** | ERICSSON

18.30 END OF THE CONFERENCE DAY TWO



# FRIDAY 22 MARCH 2013 CONFERENCE DAY THREE

08.15 WELCOME, REGISTRATION AND COFFEE



MORNING SESSION CHAIRMAN  
**Vishal Sharma** | METANOIA



AFTERNOON CHAIRMAN  
**Michael Howard** | Co-founder and Principal Analyst, Carrier Networks | INFONETICS RESEARCH

## SESSION MOBILE BACKHAUL

### 09.00 Carrier Ethernet for LTE Backhaul – Myths and Challenges

What's the difference, from 3G to LTE?

How about the existing issues, such as Throughput, Performance, Time Synchronisation, OAM, etc? Disappear or getting worse?

Is Layer 2 Ethernet VPN a better solution than Layer 3 IP VPN? Has MEF's Carrier Ethernet 2.0 (MEF 22.1, 23.1, 26.1, etc) given us a complete solution? What's outstanding?



**Raymond Key** | HUAWEI

### 09.30 Energy Efficient Mobile Backhaul

Analyzing the green insights and potential of the BBF mobile backhaul architecture from the network planning and deployment perspective and specifying standardization gaps, limitation and solutions focusing on nodal, transport and Operations, Administration and Maintenance (OAM) requirements.

Authors: **Konstantinos Samdanis**, NEC Europe Ltd and **Manuel Paul**, Deutsche Telekom

**Konstantinos Samdanis** | NEC EUROPE

### 10.00 Small Cells Backhauling: Role of IP-MPLS Enabled Microwave

End-to-end MPLS networking and OAM

Integration of Carrier Ethernet and MPLS networking models;

Network protection schemes

Wireless access connectivity (microwave, NLOS)



**Paolo Volpato** | Product Strategy Manager | ALCATEL-LUCENT

10.30 COFFEE BREAK

## SESSION TRAFFIC OPTIMIZATION

### 11.00 Packets, Wavelengths and Multi-Layer De-Optimization

Examining the Multi-Layer Optimization (MLO) model and showing that it is not efficient for carrying real-world packet demands, and adding additional operational overheads.

Presenting an alternative approach that emphasizes the benefit of congruency between the MPLS layer and the physical layer. This is supported by traffic modelling based on traffic statistics observed in operators' networks.



**Julian Lucek** | JUNIPER NETWORKS

### 11.30 Multilayer Multi-constraint Network Optimizations

Presenting results obtained through studies using multilayer network and modeling simulation that demonstrate how service and resiliency levels can be maintained while reducing the total cost by separating large PE-to-PE traffic requirements into multiple traffic engineered LSPs (Equal and unequal cost multipath).

**Mazen Khaddam** | Principal Lead Network Architect | COX

### 12.00 Backbone Capacity Planning – A Flow and Analytics Based Approach

• Why having up-to-date data to establish precise performance and capacity baselines is important

• How flow-based intelligence can improve the backbone capacity planning process

• How peering and transit traffic may be impacting backbone QoS and QoE

• How multi-dimensional analysis can expedite the decision process while minimizing financial and legal risks



**Peter Christensen** | Product Marketing Manager, Application Performance Management | INFOVISTA

12.30 LUNCH

## SESSION TRANSPORT NETWORK AND SUPERCORE

### 14.00 Interworking Technique between MPLS-TP and IP/MPLS with Router Emulation

Discussing an interworking technique with emulating a single router for smooth migration from IP/MPLS to MPLS-TP. Focusing on IP/MPLS as an existing network, and discussing an interworking technique between MPLS-TP and IP/MPLS named router emulation.

Authors: **Daisuke Mashimo**, Hiroyuki Kubo, Kiyotaka Takahashi, Takeshi Shibata, Kenichi Sakamoto, Masahiro Kimura, Yoshihiro Ashi, and Akihiko Takase, Hitachi

**Daisuke Mashimo** | HITACHI

### 14.30 Backbone Architecture Evolution: Traffic Driven and Multi-layer Collaboration

Backbone challenges today remain in the areas of traffic handling, reliability, cost, and collaboration between technologies. Consensus has been reached that the optimal network design depends on different specific characteristics of the traffic matrix. Looking at major challenges in the backbone, and discussing options and guidelines for designing backbone architecture.



**Haisang Wu** | HUAWEI

### 15.00 Programmable and Cost Effective Networks for Interconnecting Data Centres in the Cloud Era

Coherent optical technology to deliver increasing optical capacity of 100G and soon Terabit, lean packet functionality in core networks for cost effectiveness and flexibility, and intelligent software for programming the network are the required building blocks to evolve the optical and packet core networks to interconnect data centers.

**Chuck Kaplan** | Vice President, Industry Marketing | CIENA

### 15.30 The London Internet Exchange (LINX) Use Case

Providing insight on the network evolution of LINX from a traditional Layer 2 infrastructure into a Packet based network, with Packet Optical synergies within reach. Discussing challenges that Internet Exchanges, given the enormous traffic volumes that need to shift across the network infrastructure and the statistical benefits that a Packet based core offers.

**Vinod Joseph** | Practice Lead, Converged Super Core Solution Engineering Professional Services, EMEA | JUNIPER NETWORKS

**Mike Hellers** | Vice President, Network Engineering and Operations | LONDON INTERNET EXCHANGE (LINX)

### 16.00 Multilayer Design to Achieve Reliable and Resource Efficient Super-Core Network

Showing specific realistic examples of how to design a large network with an optimised super core network to carry the traffic, meet constraints of delay and survive any fibre cut without loss of data.

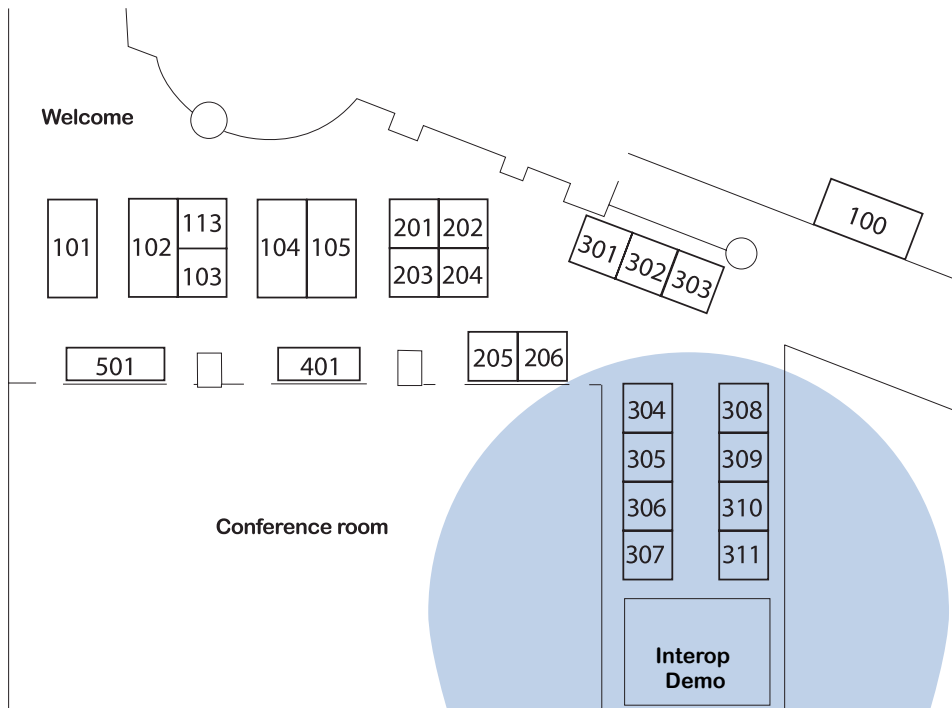
Authors: **Didier Bousser**, **Ben Fisk** and **David Wood**, WANDL Inc.

**Didier Bousser** | WANDL

16.30 END OF THE CONFERENCE DAY THREE



# MPLS ETHERNET 19|22 MARCH WORLD CONGRESS PARIS 2013 ANALYSING THE SDN IMPACT



# 100 Cisco # 101 Huawei # 102 Juniper Networks # 103 Alcatel-Lucent # 104 Ciena # 105 Ericsson # 113 Aria Networks # 201 Qosmos # 202 Telco Systems # 203 Etics # 204 Wandl # 205 Cariden # 206 MRV # 301 Metaswitch Networks # 302 Aimvalley 303 RAD Data Communications # 304 IP Infusion # 305 IBM # 308 ECI Telecom # 311 Ixia # 401 Infovista # 501 Adva Optical Networking

## SDN INTEROPERABILITY TEST PLATFORM

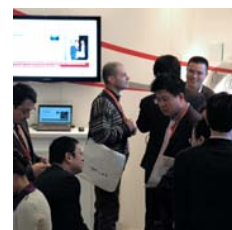
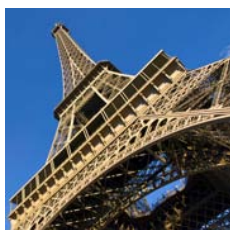
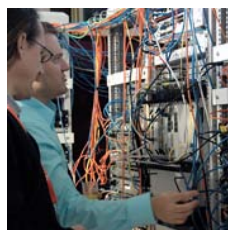
During the MPLS & Ethernet World Congress, the **EANTC**, in collaboration with Upperside Conferences, will organize the first ever public European multi-vendor SDN interop event, and the first one worldwide focusing on service provider wide area requirements.

The tests will focus on latest industry challenges:

- Software Defined Networking (SDN)
- Clock Synchronization
- Resilient Multicast VPN Services
- IPv6 Migration Scenarios
- Carrier Ethernet 2.0

The tests were performed and verified in detail at a closed doors hot staging at EANTC lab in Berlin.

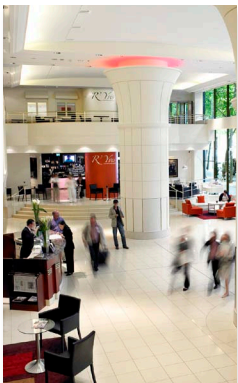
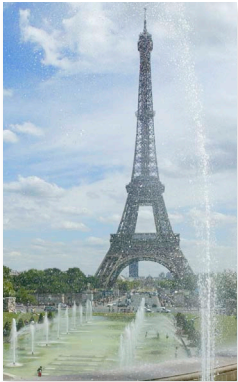
The successful results of the tests were documented in a white paper released by EANTC during the congress.







**Marriott**  
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 RIVE GAUCHE HOTEL  
 & CONFERENCE CENTER



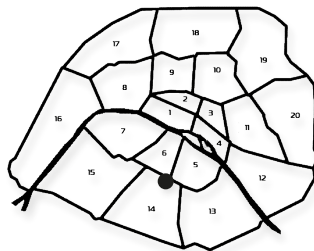
Situated in downtown Paris with direct access to major airports, the Marriott Rive Gauche Hotel & Conference Center is conveniently located by the Latin Quarter and Saint-Germain-des-Pres. The metro station nearby takes you directly to the Eiffel Tower, Champs Elysées, Montparnasse district and Notre Dame in less than half an hour.

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# MPLS ETHERNET WORLD CONGRESS PARIS 19/22 MARCH 2013

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## DATES AND VENUE

19/22 March 2013

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France

Metro line 6: Glacière

## ORGANIZED BY

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## TERMS OF PARTICIPATION

Full payment or Purchase Order is required for admission to the conference.

## PAYMENT

Cards (Visa, Amex, Mastercard, Diner)  
Bank transfer  
Cheque and Travelers cheque.

## REGISTRATION FEES

**4 Day Event 19/22 March 2013**  
Technical Tutorials + Conference  
€ 2,500 + VAT 19.6% € 490.00 = € 2,990.00

**3 Day Conference 20/22 March 2013**  
€ 2,081.94 + VAT 19.6% € 408.06 = € 2,490.00

**Technical Tutorials only 19 March 2013**  
€ 827.76 + VAT 19.6% € 162.24 = € 990.00

These passes include: access to the MPLS & Ethernet World Congress, access to the exhibition and interop event; coffee breaks, luncheons, welcome reception and proceeding.

**Set of lecture notes** (Electronic version on USB key)  
Euros 750.00. Delivery by Fedex included.

To register for **Dual Pass MPLS & Ethernet + V6 World** or **Pass Plus MPLS World + SDN Summit 2013**.  
Please go to <http://www.uppersideconferences.com>

## CANCELLATION CONDITIONS

Substitution of delegates is permitted at any time.

For all cancellations received before February 19, 2013, the entire registration amount will be refunded.  
For all cancellations received after February 19, 2013 and before March 5, 2013 the registration amount less 10% administrative charge will be refunded.  
For all cancellations received after March 5, 2013, regrettably, no refunds can be made.

## CONFERENCE PROGRAM MODIFICATIONS

Upperside Conferences reserves the right to make any necessary changes to the program. Every effort will be made to keep presentations and speakers as represented. However, unforeseen circumstances may result in the substitution of a presentation topic or a speaker.

## CANCELLATION OF THE CONFERENCE

Payments will be refunded if the conference is cancelled by the organizer.

## CONFERENCE LANGUAGE

English

I would like to register, I have read and accept registration fees, payment and cancellation policies.

Please tick and report the letter in the block below.

**A** 4 Day Event 19/22 March 2013 **Technical Tutorials + Conference** | € 2,500 + VAT 19.6% € 490.00 = € 2,990.00

**B** 3 Day Conference 20/22 March 2013 | € 2,081.94 + VAT 19.6% € 408.06 = € 2,490.00

**C** Technical Tutorials (MPLS Tutorial and/or Carrier Ethernet Workshop) 19 March 2013 | € 827.76 + VAT 19.6% € 162.24 = € 990.00

**D** I am unable to attend, please reserve me a set of lecture notes. Euros 750.00 (+ VAT 19.6 % for French companies only)

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