09.00 Enhancing IP/MPLS based Carrier Services to address the Data Center Interconnection Market

Describing 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.

- 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 and LDP-VPLS technologies for Data Center Interconnect
- Use of new BGP/MPLS E-VPN technology for Data Center Interconnect
- Workload Mobility in Data Centers
- E-VPN IETF Standardization Update
- Summary

Presented by Broadband Forum Ambassadors, Santiago Alvarez CISCO and Dr Yakov Rekhter JUNIPER NETWORKS

10.00 COFFEE BREAK

10.30 MPLS in Clouds: The Intersection of Networks and Data Centers

Considering the networking implications and requirements of the «Cloud», and how MPLS can be used in that context. Cloud Computing is defined in many ways, with many business models, but all of them require:

- Extreme scale: 10s of thousands of servers, 100s of thousands of Virtual Machines, millions of users;
- Resilience, both of data and of connectivity;
- Virtualization, in many forms;
- Multi-tenancy at the VM level needs isolation and handling of overlapping MAC and IP addresses.
- Inter-Data Center (Inter-DC) communication needs Layer 2 or Layer 3 network virtualization.
- User-to-Cloud communication may need user-level isolation and privacy at Layer 3.
- Mobility: users may move, apps may move, even data centers may move;
- Elasticity: dramatic changes in resource requirements over the course of an interaction with the Cloud;
- Orchestration: the ability to quickly and seamlessly commission, expand/contract and finally decommission a session with the Cloud.

Presented by Kireeti Kompella JUNIPER FELLOW

12.00 LUNCH

14.00 MPLS in Mobile Backhaul

Examining the principal drivers for a new IP/MPLS backhaul transport infrastructure that accommodates the scaling needs of the evolving mobile networks. Key challenges, options, benefits and tradeoffs are explored for solutions supporting several prevalent applications. New content includes an expanded focus on LTE.

- Key issues, enablers and drivers for a transition and the value of IP/MPLS in evolving mobile backhaul architectures
- MPLS fit and operation in the mobile backhaul network and the support of end-to-end SLAs, QoS and high availability
- MPLS Pseudowires as an enabler for legacy network traffic migration and their operation over IP/MPLS backhaul networks
- MPLS Operations, Administration and Management (OAM) and Protection capabilities in IP/MPLS backhaul networks
- Packet synchronization and timing
- MPLS Mobile Backhaul Initiative - MMBI
- Summary of MPLS in mobile backhaul

Presented by Broadband Forum Board Member, David Sinicrope ERICSSON and Ambassador, Nurit Sprecher NSN

16.30 END OF THE MPLS TECHNICAL TUTORIAL
# CARRIER ETHERNET WORKSHOP — TUESDAY 07 FEBRUARY 2012

## MORNING SESSION

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>07.30</td>
<td>Welcome, Registration and Coffee</td>
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<tr>
<td>09.00</td>
<td>MEF 2012 Developments Update on major 2012 developments from the MEF: Overview of new technical and application announcements and the very latest on the three MEF Certification Programs</td>
<td>Phil Tilley</td>
<td>ALCATEL-LUCENT</td>
</tr>
<tr>
<td>09.20</td>
<td>Ethernet Service Enhancements Describing new MEF work for Multiple Classes of Service, regional and application performance objectives, new E-Access services together with the underlying attributes for QoS and traffic management</td>
<td>Emerson Moura</td>
<td>CISCO</td>
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<td></td>
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<td>Yoav Cohen</td>
<td>NSN</td>
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<tr>
<td>10.10</td>
<td>Coffee Break</td>
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<tr>
<td>10.25</td>
<td>Optimizing Mobile Backhaul: new MEF Projects New MEF technical work and implementation guidance are expected to have significant impacting on the operational efficiency of mobile backhaul networks. Covering new specifications and implementation documents</td>
<td>Rami Yaron</td>
<td>AXERRA</td>
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<td>Karim Traore</td>
<td>SYMMETRICOM</td>
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<tr>
<td>11.00</td>
<td>Service OAM Management and OAM for Ethernet Services Giving insight to new and upcoming service validation and management elements key to automation and efficient scalability of Carrier Ethernet networks</td>
<td>Zeev Draer</td>
<td>MRV</td>
</tr>
<tr>
<td>11.30</td>
<td>Carrier Ethernet as Cloud Carrier 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</td>
<td>Johan Witters</td>
<td>ALCATEL-LUCENT</td>
</tr>
<tr>
<td>12.00</td>
<td>Panel Discussion and Q&amp;A An interactive panel featuring leading MEF speakers discussing the new topics raised in the morning session</td>
<td>Moderator: Phil Tilley</td>
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<td></td>
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<td>Participants:</td>
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<td></td>
<td></td>
<td>Johannes Weingart</td>
<td>EU NETWORKS</td>
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<td></td>
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<td>Carsten Rosenhovél</td>
<td>EANTC</td>
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<td>Michael Howard</td>
<td>INFONETICS</td>
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<td>Nav Chandry</td>
<td>IDC</td>
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<tr>
<td>12.30</td>
<td>Lunch</td>
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## AFTERNOON SESSION

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00</td>
<td>The Competitive Landscape for Carrier Ethernet &amp; MPLS - Discussing an analysis of strong MPLS &amp; Ethernet offerings: drawing on examples from Verizon, Coi, BT Wholesale, Global Crossing, Tata Communications, AT&amp;T, Tinet Describing a tracker that looks at network reach, including MPLS and VPLS coverage, NNI, DSL and Ethernet access countries, and sharing of some statistics</td>
<td>Joel Stradling</td>
<td>Principal Analyst, Business Network &amp; IT Services CURRENT ANALYSIS</td>
</tr>
<tr>
<td>14.30</td>
<td>The Converged Metro Core - Discussing a multi-service-edge architecture combining Ethernet access and aggregation transitioning to combination of MPLS services and backhaul to achieve a cost effective and forward looking converged metro architecture. The architecture permits arbitrary placement of service nodes &amp; functionality, utilizing MPLS PWs as a virtual steering/grooming mechanism</td>
<td>David Allan</td>
<td>Distinguished Engineer ERICSSON</td>
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<tr>
<td>15.00</td>
<td>Programmable OAM for Carrier Ethernet and MPLS-TP - Designing systems for programmable and deterministic OAM with control plane independency and complete CPU offload. Motivation for powerful OAM processing. Scaling OAM for 100G and beyond. Supporting Ethernet and MPLS OAM. Differences and similarities. Usage of OAM in packet-optical, OTN and mobile backhaul networking solutions.</td>
<td>Per Lembre</td>
<td>Director of Product Marketing XELERATED</td>
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<tr>
<td>15.30</td>
<td>Coffee Break</td>
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<tr>
<td>16.00</td>
<td>Next Generation Services with Modular Multi Service Platform / Multi-Vendor Carrier Ethernet Solutions Today Colt operates a large, multi-vendor, multi-layer, non-integrated L1-L2-L3 network, covering 38 cities in 21 countries and serving 19 data centres in Western Europe with reach into Eastern Europe and the USA East Coast. Describing a tracker that looks at network reach, including MPLS and VPLS coverage, NNI, DSL and Ethernet access countries, and sharing of some statistics. Valéry Augais</td>
<td>Senior Network Architect, Network Strategy and Architecture, Infrastructure Service Unit, COLT</td>
<td>Worldwide Operations, Colt</td>
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<tr>
<td>16.30</td>
<td>MEF E-Tree Over MPLS – Are We There Yet? In 2008 MEF defined a new service type E-Tree. Service providers have expressed their strong desire for a simple E-Tree solution that can be easily integrated into their VP-LSP/MPLS infrastructure. Discussing the recent progress in solution development and whether we are there yet.</td>
<td>Raymond Key</td>
<td>Peruoltec</td>
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<tr>
<td>17.00</td>
<td>E-Tree VPN for Private Cloud Computing Both IETF L2VPN WG and MEF are working on MPLS/VPLS based E-Tree solutions now. Illustrating E-Tree based VPN use cases for private cloud computing and reviewing different solutions in IETF and the solution in MEF.</td>
<td>Lucy Yang</td>
<td>America Research Center HUAWEI TECHNOLOGIES</td>
</tr>
<tr>
<td>18.00</td>
<td>End of the Carrier Ethernet Workshop</td>
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</tbody>
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07.30 WELCOME, REGISTRATION AND COFFEE

CHAIRMAN
Thomas Nadeau
CA TECHNOLOGIES

08.30 OPENING REMARKS

Sunil Khandekar
VP Cloud Strategy
ALCATEL-LUCENT

09.00 KEYNOTE ADDRESS

Clarence Filsfils
Distinguished Engineer
CISCO

09.30 KEYNOTE ADDRESS

Dr. Yakov Rekhter
JUNIPER FELLOW

10.10 COFFEE BREAK

SESSION II STANDARDIZATION

10.30 MEF Works Report

Nan Chen
President
MEF

11.00 IETF and ITU-T Standards Update

Loa Anderson
ERICSSON

14.00 MPLS as an Enabler of Cloud Computing?
Gartner forecast that “through 2013 at least 60% of enterprises will experience slow or inconsistent application performance issues from externally hosted applications, due to improper network design.” As they embrace the cloud, large enterprises need to evolve their MPLS VPN to a cloud-ready network using new design options and more intelligent, application aware, technologies.

Dave White
VP Business Development
IPANEMA TECHNOLOGIES

14.30 Unlock the Cloud Potential of Your Network – A Pragmatic Approach
Discussing in simple terms the challenge of Cloud Networking and a pragmatic approach to transform the Service Provider Network into a Cloud Enabler.

Authors: Simon Delord, Alcatel-Lucent, Raymond Key and Frederic Journy, France Telecom

15.00 Using Entropy Labels with RSVP-TE
MPLS tunnels come in two flavors: single-path point-to-point or point-to-multipoint tunnels with traffic engineering (signaled using RSVP-TE), and multi-path multipoint-to-point tunnels signaled with LDP. One offers TE, the other Equal Cost Multi-Path (ECMP). Why can’t one have both? Introducing the idea of “Entropy labels”, and showing how they can be used in conjunction with multi-path RSVP-TE.

Kireeti Kompella
JUNIPER FELLOW

15.30 Cloud Aware IP/MPLS Networking
Describing how new technologies, such as ALTO, are enabling application and service aware IP/MPLS networks to meet the challenges of service such as cloud computing, with use cases illustrating how they are practically used in Service Provider networks to ensure SLAs can be met, whilst making efficient use of network capacity.

John Evans
Distinguished Consulting Engineer
CISCO

16.00 COFFEE BREAK

16.30 Path Computation Elements, OpenFlow and the Centralized Control Plane
Examining the technical challenges in detail, and highlighting how a centralized control plane based on PCE and/or OpenFlow can help operators to solve many of their real-world problems. Giving an update on the standards and the state of current implementations.

Pat Moore
METASWITCH NETWORKS

17.00 Virtual Subnet (VS): A Scalable Data Center Interconnection Solution
Describing the Virtual Subnet solution using BGP/MPLS IP VPN technology with some extensions, together with some other proven technologies including ARP proxy [RFC925][RFC1027] to provide a much scalable IP-only L2VPN service across a MPLS/IP backbone, which can be used for interconnecting data centers in a much scalable way.

Xu Xiaohu
Senior Staff Engineer at IP Advanced Technology Department
HUAWEI TECHNOLOGIES

17.30 PANEL FROM CLOUD TO MPLS

CHAIRMAN
Jean-Marc Uzé
JUNIPER NETWORKS

PARTICIPANTS
Jan Medved
JUNIPER NETWORKS
Wim Henderickx
ALCATEL-LUCENT
John Evans
CISCO
Thomas Nadeau
CA TECHNOLOGIES
Peter Kao
IP INFUSION

19.00 END OF CONFERENCE DAY ONE
SESSION IV  MPLS-TP

08.30 Dual Stack IP/MPLS and MPLS-TP
Describing the “dual stack” IP/MPLS and MPLS-TP networking solutions covering IP/MPLS and MPLS TP environment, dataplane and control plane and network management aspects.

Eylon Sorek, AVP Marketing ORCKIT-CORRIGENT

09.00 Is MPLS-TP a Reality?
Overviewing the industry’s movement on MPLS-TP. Providing cost saving analysis for transport moving away from TDM toward packet. Updating the latest standards status, especially on MPLS-TP OAM. Discussing two main deployment options of MPLS-TP implementation: static provisioned MPLS-TP with NMS, and signaled MPLS-TP with GMPLS protocols for MPLS-TP LSP and LDP for PW.

Luvyan Fang, Principal Engineer CISCO
Nabil Bitar, Director of Data Network VERIZON

09.30 PTN and PSN: Understanding the Two Distinct MPLS-TP Applications
Explaining the PTN and PSN applications with their diverse operational environments, and providing a comparison of the requirements for the two scenarios. Demonstrating the fundamental differences and similarities of the two applications, and describing which of the proposed MPLS-TP OAM solutions is most suitable for each application.

Nurit Sprecher, NOKIA SIEMENS NETWORKS

10.00 COFFEE BREAK

10.30 Any Services over MPLS-TP Transport Network
Proposing a method on how to interwork between «packet transport network» based on MPLS-TP and some network protocols using diversified network services. Discussing the feature of the proposed models and describing how to build the packet transport network which integrates all of these network services.

Masayuki Takase, Central Research Laboratory HITACHI

11.00 Intelligent Control Plane in Large Transport Deployments Into MPLS-TP Networks
Detailing the lessons learned from deploying large core transport networks with intelligent control planes and how these apply to MPLS-TP as a transport protocol.

Chuck Kaplan, Vice President Industry Marketing CIENA CORPORATION

11.30 MPLS-TP OAM and Resiliency Mechanism
Discussing various issues of MPLS-TP from functionalities, OAM, control plane and management, resilience, applications and standards. Both theories and practical considerations are covered.

Mike Zhong, USA R&D Center HUAWEI TECHNOLOGIES

12.00 MPLS-TP Pseudowires: Reality or Illusion?
Recently, there has been some debate as to whether we need to change anything about pseudowires to use them in an MPLS-TP network. Exploring the characteristics of pseudowires that make them a good fit for supporting such services over MPLS-TP.

Matthew Bocci, Technology and Standards, IP Division ALCATEL-LUCENT

12.30 LUNCH

SESSION V  SEAMLESS MPLS

14.00 A Unified MPLS Architecture to Enable Efficient Delivery of IP Services and End-to-end Connectivity
Taking a closer look at an important new initiative called Unified MPLS with key focus areas on applicability for LTE backhaul networks, redundancy considerations, interconnection of MPLS-TP with IP/MPLS, and example operator use cases.

David Saccoc, Strategy and Business Development ERICSSON

14.30 Deploying MPLS-TP based Packet Transport Network in Metro/Regional Areas and Interworking with Existing IP/MPLS Networks
Starting from the application of new Packet Transport technologies in Telecom Italia metro/regional aggregation network, analyzing key drivers to the selected solution and interworking scenarios between MPLS-TP and IP/MPLS domains taking into account technology and operational complexity.

Authors: A. D’Alessandro and G. Nero, Telecom Italia

Carlo Cavazzoni, Transport Innovation Center TELECOM ITALIA

15.00 Dynamic MPLS TP in a Unified MPLS Environment
Providing an overview of the features of GMPLS relevant to MPLS-TP Control Plane (addressing, routing, path computation, signaling, traffic engineering, and path recovery). Showing how specific requirements in each subarea can be met by existing GMPLS functions. Concluding with extensions that are required to support the MPLS-TP features not addressed by current GMPLS protocol.

George Swallow, Distinguished Engineer CISCO

15.30 Enabling Seamless MPLS using LDP DoD
Describing a real-world network design based on Seamless MPLS concept. Showing how LDP Downstream-on-Demand (DoD) can be used to meet the access network requirements and describing LDP DoD operation in the context of the network case study.

Authors: M. Beckhaus, Deutsche Telekom, Kishore Tinweddula and Maciej Konstantynowicz, Juniper Networks

16.00 COFFEE BREAK

16.30 How can MPLS Span Smoothly e2e in the Network and What Role does the Control Plane Play?
Analyzing the role played by the control and management plane in minimizing the scalability issue while providing a seamless end to end packet based connectivity while taking advantage of the best transport technology in each part of the network.

Elisa Bellagamba, Portfolio Strategy Manager ERICSSON

17.00 Pros and Cons of MPLS Architecture Options for OTT Video, FTTH and Cloud
What are the guidelines for designing network architecture? What is the suitable network architecture for access, metro, service edge and backbone networks? Pros and cons of introducing Seamless MPLS
Possible migration strategy to the new architecture

Dr. XiQing Xiao, Head of Network Chief Engineer Office HUAWEI TECHNOLOGIES

17.30 Comparing Access Packet-based Technologies
There are now several carrier-grade options available, differing in data plane encapsulations, control plane protocols, and in functionalities such as QoS, OAM, and resilience. Comparing Ethernet, MPLS-TP, and full IP/MPLS – from technological and deployment perspectives.

Yaakov (J) Stein, Chief Scientist RAD DATA COMMUNICATIONS

17.39 ROUND TABLE

MPLS END-TO-END: A REALISTIC PARADIGM?
CHAIRMAN
Vishal Sharma METANOIA

PARTICIPANTS
Dr. XiQing Xiao, HUAWEI TECHNOLOGIES
Thomas Beckhaus, DEUTSCHE TELEKOM
George Swallow, CISCO
Hector Avalos, ERICSSON
Zeey Draer, MRV
Christopher Loihi, SILVER SERVER
Rajesh Kumar Sundararajan, ARICENT

19.00 END OF CONFERENCE DAY TWO
SESSION VI MPLS FOR MOBILE BACKHAUL & LTE

08.30 Mobile Backhauling for LTE and LTE Advanced
Detailing analyses of the different MPLS based options for implementing Mobile Backhauling taking the requirements of LTE/LTE Advanced into account (e.g. delay times, communication behaviour, traffic forecasts/growths,...).

Nicolai Leymann
Fixed Mobile Engineering
DEUTSCHE TELEDOK AG

09.00 Emerging Backhauling Architectures and Network Protections
Taking LTE for granted, discussing the main challenges an operator might face when dealing with the (re)design of mobile backhauling, with a special focus on network protections.

Paolo Volpato
Product Strategy Manager, Wireless Transmission
ALCATEL-LUCENT

09.30 The Role of IP/MPLS, MPLS-TP in LTE Backhaul
Implementing Ethernet backhaul when engineering/operations are geared towards TDM. Overcoming the lack of fiber availability at cell towers. Timing/synchronization issues. Consolidating network infrastructure for wireline and wireless services.

Moshe Shimon
Data Solutions Product Line Manager, Multiservice Packet Transport
ECI TELECOM

10.00 COFFEE BREAK

10.30 Unified MPLS for Mobile Backhaul
Unified MPLS defines an easy way of taking constraints into account and apply the architecture to build large scalable MPLS networks for efficient backhaul of Mobile traffic. Discussing in detail the Unified MPLS model for Mobile backhaul and explaining the benefits of such architecture.

Azhar Sayeed
Senior Member IEEE, Director of Product Management
CISCO

11.00 Telefonica: A Live Trial for LTE Backhaul
Outlining the Unified MPLS architecture for converged mobile backhaul. Describing the results of implementing this architecture on a live trial for LTE backhaul.

Authors: Hector Avalos, Ericsson and Juan Rodriguez Martinez, Telefonica I+D

Juan Rodriguez Martinez
TELEFONICA I+D

11.30 MPLS for LTE Backhaul
LTE requires clock distribution and traffic encryption. These requirements, but also low-cost and high-capacity Ethernet ports for transport make LTE networks to be built preferably on Ethernet and IP technology. Nevertheless there are good reasons for using MPLS in addition.

Norbert Fuchs
Solution Manager
NOKIA SIEMENS NETWORKS

12.00 Mobile Backhaul Evolution towards LTE
Achieving the impossible - low latency MBH, IPsec implementation and simplified X2-traffic handling. Security is important but is IPsec necessary? Is low latency a must for new mobile applications but how to engineer a low latency MBH? Is phase synchronization really required for LTE and is 1588v2 an acceptable solution?

Volker Schery
Senior Marketing Manager
HUAWEI EUROPE

12.30 LUNCH

SESSION VII MPLS OPTICAL

14.00 Extracting Efficiency and Economic Value from Converged Packet Transport
Reviewing the challenges to address and the various approaches to true packet transport convergence leveraging OTN, MPLS and IP technologies such that maximum efficiency and economies can be achieved. Discussing the financial impact of integration of the various layers into a single converged platform.

Michael Frendo
Vice President of Network Architecture
INFINERA

14.30 Circuit-switching versus Packet-switching

Julian Lucek
JUNIPER NETWORKS

15.00 GMPLS-based IP/Optical Integration - Benefits and Case Studies
Leveraging lab experiments to demonstrate advanced protection and restoration capabilities that will improve resiliency as well as optimize overall network designs. Using actual field tests to take a closer look at network design margins and how integration with purpose built features can reduce network design margin hence reducing overall cost.

Authors: Ori Gerstel, Simon Spraggs, Walid Wakim and Clarence Filipski, Cisco

Ori Gerstel
CISCO

15.30 Packet-Optical Integration via GMPLS UNI
Deployment of advanced Packet-Optical Transport systems into operational networks necessitates a correspondingly advanced degree of integration between packet and optical control planes. Describing the set of control plane mechanisms and techniques which are being used to achieve this goal.

Wes Doonan
Senior Director R&D Software
ADVA OPTICAL

16.00 Achieving Operational Excellence with Control Planes and Network Management Convergence in IP and Optical Networks
Enhancements in UNI interfaces between the GMPLS and IP/MPLS control planes helps to improve key operational aspects of the converged optical and IP network. Probably the most important benefit from UNIs is the resiliency coordination among optical protection/ restoration and MPLS fast rerouting mechanisms.

Claudio Coltro
Senior Director Consultative Marketing
ALCATEL-LUCENT

16.30 COFFEE AND END OF THE CONFERENCE
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- [ ] **MPLS Technical Tutorial only 07 February 2012** | € 890.00 + VAT 19.6 € 174.44 = € 1,064.44
- [ ] **Carrier Ethernet Workshop only 07 February 2012** | € 890.00 + VAT 19.6 € 174.44 = € 1,064.44
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