

CALL FOR PROPOSALS

MPLS  **ETHERNET** | **World Congress 2013**

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CALL FOR PROPOSALS

The following list of topics is not exhaustive and authors may propose other subjects in keeping within the thematic framework.

Abstracts must not exceed one page. They may be submitted by email at: info@upperside.fr or remi.scavenius@wanadoo.fr

DEADLINE

Deadline for turning in abstracts: June 15, 2012

End-to-end MPLS

- Unified MPLS
- Requirements for a common packet transport architecture
- MPLS TP features
- Network designs
- Scalability issues
- Migration strategies
- Control and management plane

Software Driven Networks

- Role of MPLS
- Different Standard efforts
- Cloud Network Framework, ALTO, PCE, MPLS, L2/L3 VPNs, CCAMP
- IEEE DCB
- MEF Dynamic Responsive Ethernet
- ONF – Open Flow
- MPLS and SDN Use cases (BoD – Bandwidth on Demand, VM, DCN applications, SPIT)
- Resiliency, Performance and High-Availability issues

MPLS and Network/Infrastructure Virtualization (Cloud Services)

- Seamless VM mobility
- Virtualized Network Architectures
- Convergence and Resiliency in Data Center Networks
- Scaling and management of Data Center networks
- MPLS and Data Center Interconnect (inter-DC, Intra-DC)
- Impact of IPv6 transition to Cloud Services
- SP, Cloud Service Providers Case Studies

MPLS and next generation mobile packet networks:

- MPLS in LTE
- Seamless MPLS and mobility
- Various options for backhaul
- MPLS synchronization for LTE networks
- Fixed mobile convergence and mobile broadband
- WiFi offload
- Scaling MPLS and Pseudowires
- Lightweight MPLS and Pseudowire based aggregation

GMPLS and Optical Networking:

- Current standard issues
- Lambda switching
- Optical VPNs
- Signaling at the edge between optical access devices/metro DWDM devices
- Applicability of GMPLS in non-optical technology areas
- PCE/PCC
- 100G and beyond
- GMPLS control plane challenges
- Planning and optimization





Service providers deployments reports:

- MPLS TP OAM Issues
- VPLS Multicast Deployment
- VPN deployments
- Experience in MPLS Services scalability
- Experience in managing MPLS networks
- VPLS vs LAN Emulation: what makes the former more successful than the later
- Experiences with FRR, Diff-Serv aware TE
- Deployment of hierarchical LSPs
- Operational challenges of running MPLS networks
- Migrating legacy services to MPLS
- Transition efforts case studies
- Emulating ATM over MPLS
- Deployment of Layer 2 VPNs
- Deployment of MPLS Point-to-multipoint LSPs
- VPN Multicast Deployment



MPLS-TP:

- ICC and Global-IDs in MPLS-TP Identifiers
- MPLS-TP OAM and Resiliency mechanisms
- OTM – (MPLS way or Ethernet way)
- Ring protection

Multicast issues:

- MPLS Architecture enhancements for multicast
- MPLS point-to-multipoint LSPs
- MPLS point-to-multipoint OAM
- MPLS point-to-multipoint LSP Hierarchy
- Multicast in L3 VPNs - challenges, new solutions
- Multicast in VPLS - challenges, new solutions
- Multicast in L2 VPNs - challenges, new solutions
- Can LDP and RSVP-TE multicast co-exist in same network?



Access and Core: Packet Transport Technologies

- Lightweight MPLS to the CE
- Role of MPLS pseudo-wires in the access
- Role of MPLS in access broadband networks (MPLS to the DSLAM)
- Packet transport in the aggregation infrastructure
- Packet transport in core networks
- Technical challenges in packet transport -- performance monitoring, provisioning, QoS, resiliency
- Technologies for overcoming the above challenges

MPLS VPNs and Pseudo-Wires:

- MPLS for offering L2 and L3 pseudo-wires VPNs
- Traffic Engineering issues
- Ethernet services using MPLS
- Scalability
- VPN security
- Future trends: new architectures
- Mixed or Hybrid VPN environments: how to integrate IPSEC VPN & MPLS VPN?



MPLS in the enterprise:

- Enterprise best-practices
- Deployment experiences
- Should Enterprise have more control over path their traffic take in Service Provider network?

Quality of Service and Resiliency:

- QoS strategies for L2/L3 VPNs
- Fault tolerance/graceful restart
- MPLS guaranteed bandwidth
- Fault isolation and resource partitioning in multi-service MPLS networks



Video over MPLS:

- Video Transport in Metro/Aggregation
- Video aware Networks
- Improving Video Quality of Experience

Management and Planning for MPLS:

- Application of policy management to MPLS
- Provisioning/monitoring/trouble-shooting
- LSP provisioning management
- LSP verification tools/procedures
- SLA verification/monitoring
- Planning tools for designing, modeling, and simulating MPLS-based networks and services
- Network management for MPLS - practices and tools
- Billing in MPLS networks
- Setting accurate SLAs
- Verifying negotiated SLAs
- SLAs for MPLS-based Layer2 VPNs

Performance Issues:

- Scaling requirements for systems and protocols
- Impact of current infrastructure or system limitations
- Experience in Multicast MPLS deployment performance
- Fast convergence of MPLS enabled networks

Inter-provider and inter-domain case studies:

- Inter-domain and inter-provider 2547 VPNs
- Inter-domain and inter-provider VPLS
- Inter-domain and inter-provider pseudo-wires
- Inter-domain and inter-provider L2 VPNs

Reports from interoperability testing:

- Lessons learnt
- Issues found
- Guidance for MPLS development going forward - for standards, vendors, and providers



The Scientific Committee

The organizers of MPLS & Ethernet World Congress have gone out of their way to prevent the Conference from becoming a pretext for simply promoting branded products and services.

With this in mind, a scientific committee will select the most appropriate and interesting proposals submitted from the call for papers.

Upperside Conferences would like to once again thank the members of the committee for their precious collaboration.



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