



upperside conferences

MARRIOTT RIVE GAUCHE | PARIS | FRANCE
21/22 MARCH 2013 | SECOND EDITION
SOFTWARE DEFINED NETWORKS

SDN

SUMMIT 2013

Transforming Networking Architecture



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THURSDAY 21 MARCH 2013 CONFERENCE DAY ONE

07:45 WELCOME, COFFEE AND REGISTRATION




CHAIRMAN
Jean-Marc Uzé | JUNIPER NETWORKS

08.30 - 08.55 OPENING TALK




SDN/OpenFlow Research Challenges and Opportunities
Eric Chen | Senior Research Manager | NTT CORP.

08.55 - 09.20



Leveraging Network Virtualization for Next Generation Networks
Elisa Bellagamba | ERICSSON and
Frank Rühl | TELSTRA

09.20 - 09.45




Transforming Service Provider Via Software Powered Networks
Sanjeev Mervana | Sr. Director of Marketing | CISCO

09.45 - 10.10



SDN: OS or Compiler?
Kireeti Kompella | JUNIPER NETWORKS

10.10 - 10.35



Open Networking Foundation: Works and Directions
Dan Pitt | Executive Director | ONF

10.35 COFFEE BREAK

SDN INTEROP EVENT REPORT

11.00 - 11.15



Report on the first-ever public European multi-vendor SDN interop event- also first worldwide to focus on service provider wide area requirements.
Carsten Rossenhoevel | Managing Director | EANTC

SESSION NETWORK FUNCTION VIRTUALIZATION

11.15 Network functions Virtualisation - Benefits & Challenges

Describing the latest developments in NFV, describing the qualified benefits and how industry is addressing the challenges to implement NFV.

Peter Willis | BT

11.40 The Role of L4-7 Network Intelligence for SDN


Initial SDN architectures focus on L2-L4. This can lead to inefficient traffic steering and inefficient use of physical equipment. Describing how traffic intelligence can be extended to Layer 7, translating into more effective use of network resources and smarter service implementations.

Jérôme Tollet | CTO | QOSMOS

12.05 LUNCH

14.00 Carrier Network Transformation Through E2E NFV

Discussing how to apply network function virtualization into end to end carrier network, from access, mobile backhaul to metro and core. Some in-house developed virtualized services, such as vRGW, vAR, and novel technology like service chain are also included.



Susan Hares | HUAWEI

SESSION INTERFACES AND COMPONENTS

14.25 OpenFlow: Today's Reality, Tomorrow's Promise

Describing the current state of the art in OpenFlow agent, controller, and end-to-end system architectures and implementation, limitations of the current OpenFlow protocol, and where the OpenFlow protocol may be headed.



David Meyer | CTO | BROCADE

14.50 Multi-vendor NETCONF SDN

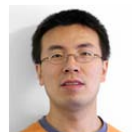
How to implement software-defined multi-vendor networks using NETCONF and YANG, the IETF standards track technologies for real-time fine-grained configuration management. Discussing experiences from large-scale deployments in wide-area networks and in datacenter networks.



Håkan Millroth | CTO | TAIL-F

15.15 Protocol Oblivious Forwarding: Unleash the Power of SDN through a Future-Proof Forwarding Plane

A flexible and application-independent forwarding plane is essential to maximize the value of Software-Defined Networking (SDN). However, as the de-facto south-bound interface standard, the OpenFlow specification still needs improvements to realize its vision. Proposing Protocol Oblivious Forwarding (POF), which makes the forwarding elements oblivious of the packet format and execute the packet processing functions through a standard network-optimized instruction set.



Haoyu Song | HUAWEI

15.40 COFFEE BREAK

SESSION SDN USE CASES

16.05 Using Virtualization and SDN to Reduce the Cost of Service Provider Infrastructure

Discussing how service providers can use network and resource virtualization via SDN and other mechanisms to reduce the cost of their network infrastructures, moving from a primarily HW-based infrastructure to a primarily SW-based infrastructure.



Andrew G. Malis | VERIZON

16.30 Dynamic VPN Provisioning: An Application of Policy-Based Networking

Describing a potential use case for so-called "Software-Driven Networking" (SDN) techniques. The use case is the dynamic provisioning of VPN services over MPLS networking infrastructures and actually relies upon Policy-Based Management techniques for dynamic VPN resource allocation purposes.



Christian Jacquenet | ORANGE

16.55 SDN for Future Home Network Architecture and Services

Presenting a novel home network design and combining it with a new services delivery and management concept. The overall architecture emerges from applying SDN capabilities between the RG and the operator's edge network and between the edge network and operator's cloud.

Authors: Wassim Haddad, Srinivas Kadaba, Alvaro De Jodra, Joel Halpern, George Apostolopoulos, Ericsson

Wassim Haddad | ERICSSON

17.20 Toward a Unified Control Plane: Multi-domain, Multi-layer SDN

Examining recent advances in SDN controllers such as Openstack, legacy control plane methods and emerging SDN network protocols including OpenFlow, IRS, BGP-TE and ALTO as well as software methods such as ReSt, JSON and XMPP. Considering basic service provider use cases for multi-domain and multi-layer orchestration.

Geoffrey Mattson | JUNIPER NETWORKS

17.45 PANEL

Is OpenFlow the Only Alternative?



Moderator:
Thomas Nadeau
JUNIPER NETWORKS

Participants:

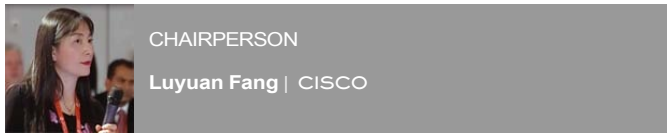
David Meyer | CTO | BROCADE
Christian Jacquenet | ORANGE
Dr. Justin Joubine Dustzadeh | CTO & VP Technology Strategy, Networks | HUAWEI TECHNOLOGIES
Bruno Klauser | CISCO
Wim Henderickx | ALCATEL-LUCENT
Jean-Marc Uzé | JUNIPER NETWORKS
Håkan Millroth | CTO | TAIL-F
François Lemarchand | ERICSSON
Hector Avalos | MEF

19.00 END OF THE SDN SUMMIT DAY ONE

KEYNOTE SESSION

FRIDAY 22 MARCH 2013 CONFERENCE DAY TWO

07.45 WELCOME, REGISTRATION AND COFFEE



09.00 OPENING ADDRESS



SESSION DATA CENTER

09.30 SDN Enabled Multicast in Cloud Data Center

Demonstrating how an SDN controller can enable multicast, in an overlay network, without requiring multicast functionality on virtual switches. This is very valuable to data centers that deploy low cost ToR switches, or simple hypervisor switches, which don't support multicast.



Authors: **Linda Dunbar** and **Michael McBride**, Huawei

Linda Dunbar | HUAWEI

10.00 How to Build a Large Virtualized, Fully Automated Cloud Computing Network



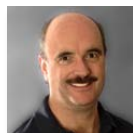
Comparing different DC technologies and discussing how they fit in this environment. Demonstrating how we leverage SDN with these new technologies to enable a fully automated Cloud computing environment.

Wim Henderickx | ALCATEL-LUCENT

10.30 COFFEE BREAK

11.00 High-Performance Networking for SDN-Based Data Centers

Because the number of Virtual Machines per server blade is growing rapidly due to increased processor performance, the data center network needs to expand beyond the Top-of-Rack, using the virtual switch on the server blades as the edge point to distribute an increasing volume of network traffic to virtualized applications.



Charlie Ashton | VP of Marketing and Business Development | 6WIND

11.30 SDN Approach for L3VPN Enabled Virtual Private Cloud

Focusing on how to use SDN approach to support Service Provider's virtual Private Cloud (vPC) which extends L3VPNs into Data Center (DC) end devices with virtual PE and virtual CE technologies.

Luyuan Fang | **Rex Fernando** | CISCO and **Nabil Bitar** | VERIZON

12.00 SDN, DOVE and OpenFlow

Providing an overview of SDN technologies, such as DOVE and OpenFlow, which simplify the creation of virtual systems, automate the connectivity of virtual system tiers and appliance middleboxes, flatten the network flattening, redistribute network intelligence, eliminate unnecessary, repetitive processing and reduce the number of managed switches.

Igor Marty | Technical Sales Manager Europe | IBM NETWORKING

12.30 LUNCH

SESSION DATA CENTER USE CASES

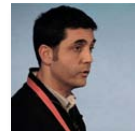
14.00 Software Defined Data Center

Documenting some important use cases and requirements for the new software defined data center. After a review of the up and coming software defined data center and what it means for cloud computing in general and the carrier cloud in particular, a reference architecture is presented.

Victor Mendoza-Grado | Sr. Cloud Solutions Architect | VERIZON TERRMARK

14.30 Colt: Data Center and Network Programmability

Discussing network Programmability, Colt's target SDN architecture and Colt's on-going SDN development & potential applications. Looking at Data Centre Fabric, DC Network Virtualisation & Automation (Overlay), WAN Network Virtualisation, Automation and Multi-vendor & Layer Integration



Javier Benitez | Senior Network Architect of SDN Strategy | COLT

15.00 Enabling SDN over Multi Layer Architectures

Reviewing some of the enabling technologies such as IP / DWDM Control Plane integration, PCE Centralized Computation and Network Planning and Optimization (NoS) tools. Building on these enabling technologies presenting use cases that will exploit this automation and additional agility in the network that allow for the dynamic addition / removal or proactive rerouting of capacity around the multi layer network.

Authors: **Walid Wakim**, **Clarence Filsfils** and **Ori Gerstel**, Cisco

Walid Wakim | CISCO

15.30 Optical SDN: Virtualizing the Transport Network



Discussing how existing network organization and virtualization concepts can be blended with emerging SDN techniques to enable new and interesting methods for managing optical transport networks in an SDN-enabled environment.

Wes Doonan | ADVA OPTICAL NETWORKING

16.00 Supporting SDN in Transport Networks

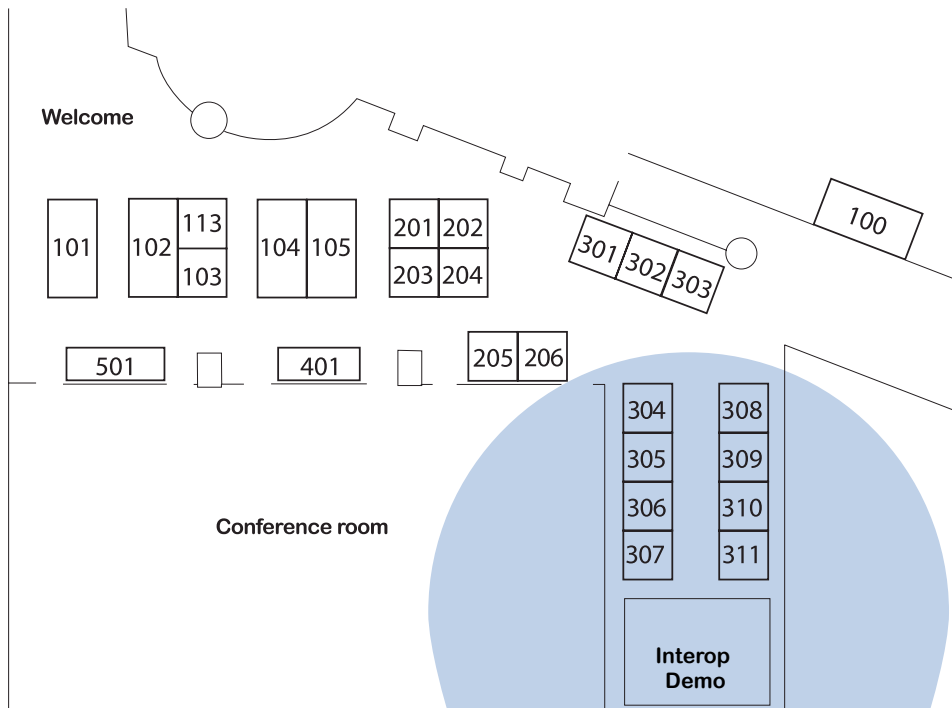
The Open Transport Switch architecture (OTS), based on the data-plane and control-plane separation concept introduced in SDN. The idea is to implement a lightweight virtual switch on transport switch, so that the SDN Controller can access, monitor and provision network connections at an abstract or intra-domain level. A traditional SDN Controller may then interface with the transport switches from various vendors, through OTS using standards based including XMPP, JSON and OpenFlow.

Ping Pan | INFINERA

16.30 END OF THE SDN SUMMIT DAY TWO



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 # 309 HP # 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

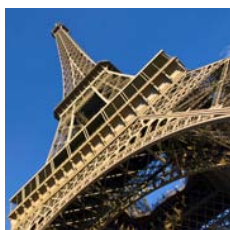
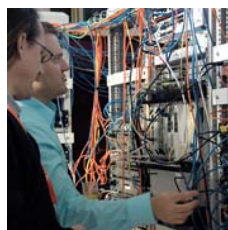
Resilient Multicast VPN Services

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.



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

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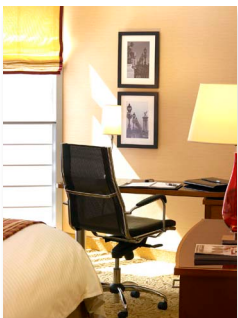
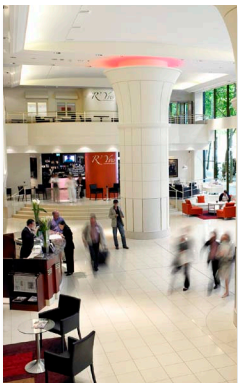
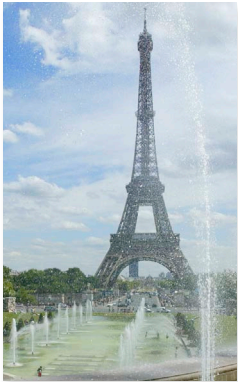
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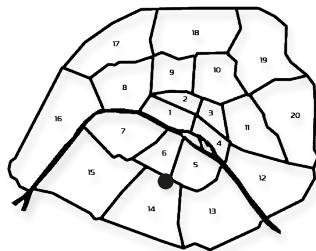


Situated in downtown Paris with direct access to major airports, the Marriott Rive Gauche Hotel & Conference Center is conveniently located by the Latin Quarter and Saint-Germain-des-Pres. The metro station nearby takes you directly to the Eiffel Tower, Champs Elysées, Montparnasse district and Notre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

All bedrooms are entirely renovated and are larger than the average 4 star Paris hotel bedrooms. They feature spectacular views, Marriott's supremely comfortable Revive® bedding and upscale shower products. The Great Room by 70s inspired designer R' Yves combines a European brasserie, cocktail bar and lounges as well as a take-away counter for guests to enjoy great food and a trendy atmosphere.

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DATES AND VENUE

21/22 March 2013

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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

SIMPLE PASS SDN SUMMIT 2013
 2-day Event, 21/22 March 2013.
 € 1,504.18 + VAT 19.6% € 294.82 = € 1,799.00

PASS PLUS 4-day Event, 19/22 March 2013.
MPLS & ETHERNET WORLD + SDN SUMMIT 2013
 € 2,918.06 + VAT 19.6% € 571.94 = € 3,490.00

PASS PLUS 3-day Event, 20/22 March 2013.
MPLS & ETHERNET WORLD + SDN SUMMIT 2013
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These passes include: access to the conference(s), access to the exhibition and interop event, coffee breaks, luncheons, welcome reception and proceeding.

Set of lecture notes (Electronic version on USB key)
 Euros 650.00. Delivery by Fedex included.

To register online, please go to
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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.
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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

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