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#### Solutions for Network Virtualization

What was previously known as the SDN Summit will become the NFV & SDN Summit in 2014. The second Edition of this Summit in 2013 attracted more than 400 participants.

#### **Carriers Coming from 65 Countries**

MPLS World Congress can claim to be the first international event in this realm.

# NFV & SDN Summit Agenda: Architecture, Standard Progress, Service Chaining, Cloud NFV, OpenSource

The 2014 program will pay particular attention to NFV architecture and standardization process. Principal issue addressed by the participants will be: "How to combine NFV with SDN". Other sessions will cover Service chaining, OpenSource, Cloud aspects and performance issues. A large session is dedicated to current use cases and first NFV&SDN implementations. Particular attention will be also payed on Non Intel Approaches for NFV.

## **Colocation with MPLS SDN World Congress**

mon agenda during the first day of the event, and will end with a debate addressing the most important technical issues impacting service providers' network architectures.

#### The Interop Platform

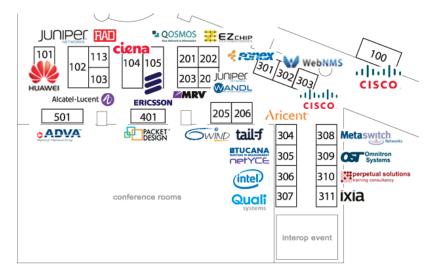
The European Advanced Networking Test Center (EANTC) in collaboration with Upperside Conferences invites vendors to a multi-vendor MPLS & SDN interoperability test in February 2014.

The objective of the tests is to verify protocol interoperability for service provider oriented toolkits focused on functionality, flexibility and adaptability of networks. Once we verify protocol interoperability we will construct an orchestrated data center to data center network.

- Software Defined Networking (SDN): OpenFlow and PCE
- IPv6 Migration Scenarios MPLS and Ethernet Transport
- Data Center Interconnection

During the congress, EANTC will present results in regular guided tours to conference attendees.

## The Exhibition



# **TUESDAY 18 MARCH 2014 NFV AND SDN WORKSHOPS**

## ETSI/NFV Workshop

Tutorial addressed by representant from



#### 09.00 Introduction to NFV and ETSI NFV

- Framework,
- Virtualization Requirements
- Service Chaining

10.00 Use Cases and PoCs

10.45 COFFEE BREAK

## **Open Daylight Workshop**

Tutorial addressed by representant from



11.00 OpenDaylight represents a community that has come together to fulfill the need in the industry of creating an open, reference framework for programmability and control through an open source SDN solution.

Describing The Open Daylight organization, its mission, as well as technical details around the open source Software-Defined Networking (SDN) controller project it represents.



Tutorial addressed by

Thomas Nadeau | BROCADE Andrew McLachlan | CISCO

12.30 LUNCH

#### **ONF/SDN Workshop**

Tutorial addressed by representants from





Workshop Facilitator

Marc Cohn | CIENA | Chair, Market Education Committee | ONF

Audience: Mid-level, emphasis on Carriers and Data Center/Cloud Operators

#### 14.00 Workshop Welcome/Opening Remarks

Marc Cohn | CIENA | Chair, Market Education Committee | ONF

#### 14.15 SDN and ONF Vision and Progress

Establishing the common framework to guide all sessions

Marc Cohn | CIENA | Chair, Market Education Committee | ONF

#### 14.45 How Carriers will benefit SDN

Illustrating the value of SDN via a real-world service provider use case under investigation

Chris Janz | VP Market Development | CIENA

15.15 COFFEE BREAK

#### 15.45 How SDN can enable NFV in Carrier Networks

Examining the implications of Openness along with the tradeoffs

Linda Dunbar | HUAWEI and Ning So | TATA COMMUNICATIONS

#### 16.15 How Data Center Operators will benefit from SDN

Illustrating the value of SDN via a real-world data center use case under investigation

David Meyer | BROCADE

#### 16.45 Panel: SDN Progress and Challenges

Assessing the readiness of SDN from a diverse set of perspectives

Moderator

Marc Cohn | CIENA | Chair, Market Education Committee | ONF

#### Panelists:

Nicolas Fischbach | Director of Network Strategy & Architecture | COLT Caroline Chappell | Senior Analyst | HEAVY READING Guru Parulkar | Executive Director ONRC | STANFORD UNIVERSITY Phil Robb | DirectorNetworking Solutions, Linux Foundation Technical Liaison | OPENDAYLIGHT

**Justin Dustzadeh** | CTO and VP Technology Strategy, Fixed Network Business | **HUAWEI** 

#### 17.40 Workshop Wrap-Up

Sharing a few key takeaways from the Workshop

18.00 END OF THE WORKSHOP

# WEDNESDAY 19 MARCH 2014 CONFERENCE DAY ONE





07.45 WELCOME, REGISTRATION AND COFFEE



CHAIRPERSON

Luyuan Fang | Principal Network Engineer | MICROSOFT

## **Opening Speeches**



Carrier Ethernet, SDN, NFV and Cloud - a Vision and Strategy

Nan Chen | President | MEF



Open SDN in the Mainstream

How ONF continues to drive the open SDN movement to commercial success.

Dan Pitt | Executive Director | ONF



SDN as We Envisioned It
Original intent and current marketing hype.

**Guru Parulkar** | Executive Director ONRC | STANFORD UNIVERSITY

### **Keynote Speeches**



Carrier Business Transformation through SDN Migration and Network Evolution towards NFV

Justin Dustzadeh | CTO and VP Technology Strategy, Fixed Network Business | HUAWEI

10.00 COFFEE BREAK



Bala Thekkedath

of Marketing, IP & Broadband |



The Key Role of SDN in Networking the Cloud and Cloudifying the Network

Sunil Khandekar | CEO | NUAGE



A Native MPLS Fabric

Kireeti Kompella | JUNIPER NETWORKS



Orchestration for Application Centric Networking

Dave Ward | CISCO

12.30 LUNCH











# WEDNESDAY 19 MARCH 2014 CONFERENCE DAY ONE







AFTERNOON CHAIRMAN Thomas Nadeau | BROCADE

## **Data Center Virtualization: Overlays and WAN Interconnection**

#### 14.00 Standardising Virtual Networks for the Data Center



Providing an update on standardisation in data center virtual networks, focussing on the work of the IETF and NVO3 working group in particular, addressing some key questions of what can realistically be standardised.

Matthew Bocci | Director, Technology and Standards | ALCATEL-LUCENT

#### 14 30 Data Center Network Virtualization meets the WAN



Much as there may be a desire to make connections between virtualized data centers and WANs as «seamless» as possible, there is no getting around the fact that they are significantly different environments. Discussing how these two disparate worlds can be integrated to leverage service provider assets and deliver the services expected by cloud customers.

Bruce Davie | VMWARE

#### 15.00 Interconnecting Multi-Tenant DCs Using Ethernet Virtual Network



Analysing various solutions in different contexts to provide E2E data center solutions for interconnection, while making a case for Ethernet Virtual Network (EVN). This solution offers not only address various requirements for DC interconnection but also provides a way to achieve those using EVN.

Sam K. Aldrin | HUAWEI TECHNOLOGIES

15.30 COFFEE BREAK

#### 16.00 Orchestrating Application Delivery in NFV Environments using MPLS-SDN

Describing how service providers can innovate in transitioning from a traditional service/ application delivery model to a cloud based model by using recent advances in MPLS-SDN. It ties NFV with service chaining in a Telco DC to the VPNs that are used for service transport. Showing how this can be orchestrated with a hierarchical MPLS L3/EVPN transport service from the MPLS enabled Telco DC to the mobile or fixed access network.

Sriganesh Kini | Distinguished Engineer | ERICSSON

#### 16.30 Datacenter Network Virtualization, Open and Simple



Discussing how network virtualization needs of laaS DC platforms can be addressed with a simple architecture combining the network API exposed by the cloud management platform and an overlay networking implementation based on the well-known BGP/MPLS architecture for VPN services. Describing how we prototyped such an approach with minimal development resources and largely relying on opensource components.

Thomas Morin | ORANGE

#### 17.00 A Pragmatic View of SDN for Data Center and Data Center Interconnect



Discussing the characteristics of modern large scale Data Centers, and WAN DC inter-connections. Sharing our production experiences of "BGP only" Data Center fabric with the SDN controller, including our evolution path from L2 to all L3; additional benefits of SDN controller brings; and further improvement needed.

Luyuan Fang | Principal Network Engineer | MICROSOFT

#### 17.30 NFV Breaks out of the Data Center



NFV is almost always discussed in the context of virtual functions resident in data centers. Such centralized placement may indeed substantially simplify operational logistics, but for many network functions of interest it may even more substantially increase bandwidth usage and reduce system performance. Discussing the placement of VNFs at various locations throughout the network, and in particular at the customer premises.

Yaakov (J) Stein | CTO | RAD

#### Panel/Debate

#### **Data Center Virtualization Convergence and NFV Network** Requirements



Carsten Rossenhoevel | EANTC

Kireeti Kompella | JUNIPER NETWORKS Dave Ward | CISCO Bruce Davie | VMWARE Thomas Morin | ORANGE Axel Clauberg | DEUTSCHE TELEKOM Dr. Justin Dustzadeh | HUAWEI Bikash Koley | GOOGLE Craig Pierantozzi | MICROSOFT Wim Henderickx | ALCATEL-LUCENT

Zeev Draer | MRV Yaakov (J) Stein | RAD

19.00 END OF THE CONFERENCE DAY ONE WELCOME COCKTAIL







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# THURSDAY 20 MARCH 2014 CONFERENCE DAY TWO

07.45 WELCOME, REGISTRATION AND COFFEE



MORNIN?G CHAIRMAN

Omar Cherkaoui | UQAM

#### NFV Architecture and Standard Progress

#### 08.30 NFV: A Real Options Analysis for vEPC

Presenting Real Options Analysis as a technique to qualify the business case benefits for NFV using the vEPC use case as an example.

Peter Willis | BT

# 08.50 Network Virtualization: An Opportunity to Build Mouldable Networks?

- How by combining NFV and SDN technologies we have a real opportunity to build more flexible networks.
- Why network virtualization is not just cloud.
- · Work being undertaken at Telefónica towards this aim.

#### Gerardo García | TELEFONICA

#### 09.10 ETSI Current Works on NFV



Presenting the ETSI NFV Industry Standard Group's Architectural Framework - the presenter is the NFV Rapporteur and editor for the document. Discussing service provider requirements, use cases, and possible deployment scenarios for NFV.

Andrew G. Malis | HUAWEI

09.30 COFFEE BREAK

# 10.00 Reliability and High Availability of Virtual Network Functions in SDN Network

Examining the reliability and high availability related issues of virtualized network functions (VNFs), exploring various SDN architectures to achieve reliability and high availability, and analyzing potential protocols.

Linda Dunbar | Distinguished Engineer & Technical Leader of Advanced Technology Group | HUAWEITECHNOLOGY

## 10.20 Software Defined Infrastructure for NFV



How modern silicon provides a future proof NFV services platform Real life NFV solution examples

SDI Ecosystem initiatives to facilitate solution deployment

Murray Cooke | Network Computing Solutions Architect | INTEL

#### 10.40 NFV + SDN: The New Way to Operate a Network



Discussing the main challenges we are facing in operationalizing NFV end-to-end, i.e., from business-level modeling and orchestration through OSS and management & orchestration of NFV platforms, all the way to the network with NFV and SDN. Explaining the needs for a new OSS framework.

David Amzallag | Vice President, Virtual Telecommunications and Cloudband CTO | ALCATEL-LUCENT Board Advisor of ETSI NFV ISG

#### 11.00 Operationalizing SDN Enabled NFV Networks

Discussing operational aspects of NFV in a service provider network. Focusing on the need to have a simple way of defining service workflow policies and allowing the underlying infrastructure to abstract the complexities of realizing and managing these services.

François Lemarchand | Director IP Strategies | ERICSSON

#### 11.20 Data Centers and SDN/NFV

Data Centers and SDN/NFV Where the side walk ends. An examination of transforming legacy data centers into a foundation for launching SDN&NFV.

David Hughes | PCCW GLOBAL

#### Non-Intel Approaches to NFV Session

#### 11.40 ARM-Based NFV/SDN



Many of ARM's silicon and OEM partners are moving down an «ARM based» route towards supporting NFV/SDN requirements.

Colin Alexander | Enterprise Segment Marketing |

#### 12.00 Mellanox Approach to NFV & SDN

The presentation will covering Mellanox server and storage interconnect solutions for NFV & SDN based on industry standard technologies to address network acceleration, cloud management and orchestration enable Carriers to develop and deploy multivendor NFV Clouds.

Eran Bello | MELLANOX

12.30 LUNCH

# THURSDAY 20 MARCH 2014 CONFERENCE DAY TWO



AFTERNOON CHAIRMAN

Andrew Malis | HUAWEI

#### Service Chaining Session

#### 14.00 Service Function Chaining

Providing an overview of existing service insertion techniques and extending those to include specific use cases highlighting the technology elements that will be necessary for realization of new service delivery methods.

Jim Guichard | CISCO

#### 14.20 Automated Multi-Vendor Layer 4-7 Service Chaining Using SDN



Focusing on the use of SDN approaches to automate service chaining in an environment with layer 4-7 appliances from different vendors (firewalls, content filtering, IPS/IDS, WAN acceleration, load-balancing, etc). This includes coordination of packet flow provisioning, using Openflow controllers and switches, with the reconfiguring of the services in the chain.

Jan Lindblad | Principal Solutions Architect | TAIL-F

### **NFV Use Cases and Applications Session**

#### 14.40 NFV: Unleashing Network Services Scalability and Automation



NFV brings unprecedented network agility, automation, speed, scalability and simplicity while realizing tangible CAPEX and OPEX cost savings.

Hector Avalos | Dir. Strategy and Business Development | VERSA NETWORKS

#### 15.00 SDN/NFV and the Information-driven Service Provider



Demonstrating, with operating software examples, how SDN/NFV and computational analytics will enable powerful new service mass-customization and revenue management capabilities to boost revenues and unlock new addressable demand, shifting carrier business models from infrastructure-oriented to information-driven.

Chris Janz | VP Market Development | CIENA

# 15.20 **Translating NFV Network Technology to Business Value**Shaul Rozen, Amdocs Translating NFV into business value is



Shaul Rozen, Amdocs Translating NFV into business value is far from trivial. Focusing on the key challenges in unleashing the business value of NFV and what best practices can be deployed to overcome them.

Shaul Rozen | Director of Product Strategy | AMDOCS

#### 15.50 COFFEE BREAK

#### 16.20 Colt's SDN/NFV Initial Deployments and Future Evolution



Providing an update on the DC Network Virtualization development based on the results of a Pilot currently runned (Q3 2013), and potentially giving details about live deployment of the solution and initial learning. Presenting Colt's detailed NFV strategy.

Authors: Javier Benitez | Senior Network Architect, SDN Strategy Owner | Nicolas Fischbach | Director of Network Strategy & Architecture | COLT

#### 16.40 NFV/SDN at the Metro Open Edge



Describing how NFV/SDN will enable evolution to IT aware network: Introducing a new open solution application From service mass production to mass customization Turning the Metro edge from single purpose platforms to multipurpose open platforms enabling Network APPS

Moshe Shimon | VP Product Management | TELCO SYSTEMS

# 17.00 Experiences with Implementing and Deploying NFV over the last 5 Years

Providing evaluations of the following promises of NFV:

horizontal / vertical scalability

Large scale network automation

Cost reduction from an opex and capex perspective

Rate of innovation

Disaster recovery

Concluding with a few thoughts on the future of NFV in the context of IAAS clouds and SDN.

# Chiradeep Vittal | Committer and PMC Member | APACHE CLOUDSTACK PROJECT

# 17.20 **Protocol Oblivious Forwarding for NFV & Other Applications** Showcasing how Protocol Oblivious Forwarding can support emerging real world applications and enable applications that were difficult or impossible in networking prior to SDN. For example, a customized packet format can easily support service chaining for NFV and innovative network OAM.

Dr. Haoyu Song | Senior Network Architect | HUAWEI TECHNOLOGIES

# 17.40 Migration to a Virtualization-leveraged Network Architecture-Challenges and Strategies

Focusing on some of the key challenges facing the operators set to implement virtualization today and discussing strategies for a migration into a practically realizable virtualization-leveraged network architecture.

 $\textbf{Sundaresh Vedapureeswaran} \mid \mathsf{Principal} \ \mathsf{Network} \ \mathsf{Architect} \mid \textbf{ERICSSON}$ 

18.00 END OF THE CONFERENCE DAY TWO

## FRIDAY 21 MARCH 2014 CONFERENCE DAY THREE

07.45 WELCOME, REGISTRATION AND COFFEE



CHAIRMAN

**Hector Avalos** | Dir. Strategy and Business Development | **VERSA NETWORKS** 

#### **Open Source Session**

# 08.30 The Hidden Nature of Complexity and the Software Defined Operator of the (very near) Future



Focusing on the deep and necessary relationship between complexity and robustness, modularity, feedback control and fragility, and comparing advanced modern technologies such as the Internet to other complex systems (such as biology) in an attempt to find the theoretical and engineering underpinnings of the Simplicity Principle.

David Meyer | BROCADE

# 09.00 OpenDaylight: An Open Source Platform for Software Defined Networking

The OpenDaylight Project is a collaborative open source project whose aim is to rapidly enable network programmability and accelerate adoption of Software-Defined Networking (SDN) and Network Functions Virtualization (NFV) at any size and scale.

**Phil Robb** | Director of Networking Solutions, Linux Foundation Technical Liaison | **OPENDAYLIGHT** 

#### 09.30 OpenContrail - Open Source Network Virtualization

Describing the use cases, architecture, and benefits of OpenContrail - a new open source SDN controller which enables network virtualization and service chaining at a massive scale.

Bruno Rijsman | Distinguished Engineer, SDN Architect | JUNIPER NETWORKS

#### 10.00 Connecting OpenStack and L3VPN

OpenStack Neutron project is a network part of OpenStack cloud which has tenant-facing API for SDN and Cloud. Neutron Havana version supported VPN as a Service API with ipsec implementation. We are going to support L3VPN service for next version of Neutron which enables customer connect their cloud to L3VPN infrastructure.

Introducing the API and the architecture of Neutron L3VPN service.

Nachi Ueno | NTT

# 10.30 Leveraging Open Source with Software Defined Intrastructure for Service Innovation

Leveraging the use of open source and community based developed software and other components in the echosystem around software-defined infrastructure for service innovation.

Showing how the new innovation centers within network operators are using open source software and other components based on open standards to bring new innovative services faster to the market.

Victor Mendoza-Grado | VERIZON

11.00 COFFEE BREAK

### Panel/Debate

#### 11.30 Is NFV Ready for Prime Time?

Moderator: Hector Avalos | VERSA NETWORKS

Participants

Frank Ruhl | BLUE OCEAN NETWORKS
Peter Willis | BT
Javier Benitez | COLT
Fred Feisullin | SPRINT
Gerardo García | TELEFONICA
Dave Hughes | PCCW GLOBAL
Bruno Chatras | ORANGE

12.30 LUNCH

#### **Cloud NFV Session**

#### 14.00 CloudNFV Experiences

The CloudNFV project was architected to address the union of NFV, the cloud, and SDN. It's mechanism for addressing SDN services in NFV is the Service Model



Handler, a union of OpenStack and OpenDaylight concepts that offers a model of SDN services that not only supports the evolving network connection needs of Network Functions Virtualization but the most general needs of cloud networking, hybridizing SDN and non-SDN networks, and supporting multiple vendors.

Jérôme Tollet | CTO & Co-Founder | QOSMOS

#### 14.20 How does SDN enable NFV?

Discussing how SDN is a key building block to achieve this automation between physical and virtualised components and how it allows enabling of service chaining. Demonstrating how SDN is able to provide networking automation for NFV in a centralised and distributed way with applications connected through the WAN or via an overlay in a hybrid private cloud or a public cloud environment.

**Wim Henderickx** | Director Network Consulting Engineering – Technology, IP Division | **ALCATEL-LUCENT** 

#### 14.40 Elastic Cloud Services using Virtual Packet Edge (vPE)

Virtual Packet Edge (vPE) is a software framework that provides Service Provider and Enterprise customers the ability to create a compute cloud with the necessary networking to interconnect the compute and storage elements of the cloud. The idea is to 'port' existing physical topologies to a purely virtualized infrastructure with a view to optimize customer CAPEX and OPEX. This talk will cover the vPE architecture as a model for a virtualized multi-tenant cloud infrastructure that confers several benefits to both SPs and Enterprises.

<u>Authors</u>: Sami Boutros | Principal Engineer | and Rex Fernando | Distinguished Engineer | CISCO

#### 15.00 NFV Virtualisation of the Home Environment

NFV can be used to virtualize dispersed functions and devices currently deployed as CPEs in the customer home. This new architecture has a major impact on public and home networks.

Zvika Bronstein | HUAWEI TECHNOLOGIES

#### 15.20 The Business Impact of Virtualization and SDN



Analyzing the benefits that accrue to operators from two well understood and early use cases of Service Provider SDN and NFV Virtualization of Home Gateway functions Service Chaining Virtualized Network

Bala Thekkedath | Director of Marketing, IP & Broadband | ERICSSON

#### NFV Performance Session

# 15.40 Can Standard High Volume Servers Perform Telco Grade bearer Processing and Routing Functions?

Proposing a recommendation of ideal approaches for Network Function Virtualization to achieve Key Performance Indicators (KPIs) aligned with Network Operating Centers (NOC) performance goals and operational cost targets.

Fred Feisullin | Technology Development Strategist, Network Architecture and Access | SPRINT

16.00 **Don't Forget the Data Plane Challenges as you Plan for NFV** Explaining how innovative networking software technology, already deployed worldwide in physical telecom infrastructure, solves the data plane performance challenges for virtual functions and enables service providers to achieve the cost-performance that is required for NFV deployments to be commercially viable.

Eric Carmès | CEO | 6WIND

# 16.20 Assuring Performance, Scalability and Reliability in NFV and SDN Deployments

Comparing SDN and NFV-based networks with traditional networks from the perspective of their performance, scalability and reliability properties. Particular attention will be paid to the new techniques required to test the next-generation networks and ensure that they are 'fit for purpose'. Lab testing and live service assurance aspects will be examined. Test results and findings from a service provider NFV trial are included.

Steve Jarman | Business Development Manager - EMEA | SPIRENT

16 40 END OF THE CONFERENCE











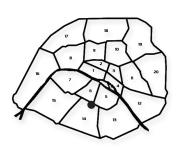
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necessary changes to the program. Every effort will be made to keep presentations and speakers as represented. However, unforeseen circumstances may result in the substitution of a presentation topic or a speaker.

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