NFV & SDN SUMMIT
Making the business case for virtualization

TUESDAY, JUNE 2, 2015

EXPLORING THE IMPACT AND POWER OF THE VIRTUALIZATION OF EVERYTHING

Chair: Carl Piva, Vice President Strategic Programs, TM Forum

11:15 AM KEYNOTE: When will NFV and SDN pay?
- How can service providers use virtualization to transform their businesses and make money?
- Where are we now? Which functions are operators virtualizing first and why?
- What is a realistic timeline for deployment?

11:35 AM PANEL: Taking NFV’s pulse
- What is the current state of NFV deployment and who are the main NFV players?
- What are the integration challenges that need to be addressed?
- What is the role of Open Source?
- Working together to enable interoperability – what needs to be agreed on by all stakeholders in the ecosystem?
- How can the NFV ecosystem accelerate development and foster innovation?

Panelists:
Luigi Licciardi, Head of Standards, IPR & Research Coordination, Telecom Italia Group

12:05 PM KEYNOTE or FIRESIDE CHAT: Unlocking virtualization’s potential
- Combining NFV, SDN and cloud to accelerate service creation and delivery and improve the customer experience.

12:30 PM Lunch

PLANNING FOR NFV/SDN TRANSFORMATION

2:00 PM CASE STUDY: Justifying NFV to the CFO
- Why NFV?
- Developing a business plan that outlines how to plan your network and business evolution with NFV
- What kinds of network functions does it make sense to virtualize?
- Assessing the Total Cost of Ownership and operational impact of implementing NFV

2:20 PM PANEL: Build, buy or outsource?
- What are virtual network functions (VNFs) and how can you buy them?
When should service providers build their own NFV infrastructure, buy it from others or partner with managed service providers?
Assessing the pros and cons of each in terms of cost, flexibility and deployment time.

2:55 PM **CASE STUDY:** How to buy NFV components?
- Why do procurement and operations processes have to change?
- Why is flexibility in purchasing VNFs critical?
- What is the impact on the operations team?

3:15 PM **CASE STUDY:** Charting an NFV and SDN migration path
- Staying focused on the benefits
- Drawing a clear roadmap with suppliers
- Hybrid (introduction of NFV on a small scale in a traditional network) vs. pure (NFV network deployment in an isolated area) approach?

3:30 PM Afternoon Refreshments

ENSURING NFV/SDN TRANSFORMATION SUCCESS

4:15 PM **PANEL:** Deploying NFV isn’t easy
- Why is the back office the biggest hindrance?
- How different will the new architecture be from the traditional one?
- Can virtual network functions (VNFs) be integrated with existing OSS/BSS or do you need new systems?
- How is ZOOM helping operators?

4:50 PM **PANEL:** Managing the complexity of the new hybrid environment
- Why many service providers will operate hybrid environments of current and virtualized components
- Why are hybrid networks difficult to manage end-to-end?
- What kinds of tools do operators need to manage hybrid environments?
- How do management tools and approaches compare?

5:30 PM Chair’s Closing Remarks

WEDNESDAY, JUNE 3, 2015

IMPLEMENTING NFV AND SDN

Chair: Ken Dilbeck, VP Strategic Programs, TM Forum

9:00 AM **PANEL:** What is the fastest path to SDN?
- How do NFV and SDN complement and enhance each other?
- Are both technologies necessary? Can you have one without the other?
- SDN lessons from the data center

9:40 AM **CASE STUDY:** Leveraging NFV and SDN to virtualize the Home Gateway
10:00 AM  CASE STUDY: Lessons learned from the first successful virtualization of network functions

10:20 AM  CASE STUDY: Virtualizing network functions to drive agility and innovation

10:45 AM  Morning refreshments

11:15 AM  HOW TO: Putting policy in place
  ▪ Understanding the role of policy management in virtualized networks
  ▪ Why is a holistic approach necessary?
  ▪ What are the challenges?
  ▪ How can an information model and best practices help?

THE INTEROPERABILITY CHALLENGE

11:35 AM  PANEL: The low-down on standards
  ▪ Which functions and interfaces should be standardized?
  ▪ What are the challenges involved in standardizing particular functions?
  ▪ Can proprietary standards be used if they drive interoperability?
  ▪ What standards activities are underway for NFV?

11:50 AM  How are the standards activities currently working within the industry to promote open infrastructure?

12:10 PM  CASE STUDY: Is open source the way to go?
  ▪ The arguments for and against the need for open standards and interoperability in virtualization
  ▪ How are the OPNFV/OpenDaylight currently working within the industry to promote open infrastructure?
  ▪ Where has progress been made to date?

12:30 PM  Lunch

SECURITY IN VIRTUALIZED ENVIRONMENTS

2:00 PM  PANEL: Tackling security threats
  ▪ Identifying the main security threats
  ▪ Why security has to be handled differently in virtualized environments
  ▪ Developing a security policy that enables rapid response

2:40 PM  CASE STUDY: Why addressing security end-to-end is a big challenge
  ▪ What needs to be secured in a virtualized environment?
  ▪ Understanding the challenges of managing security end-to-end in a virtualized environment
  ▪ From authentication and authorization to configuration - how can each individual area of the virtual environment be secured?

TRANSFORMING THE BUSINESS CULTURE, DEVELOPING NEW SKILLS AND ENHANCING THE CUSTOMER EXPERIENCE

3:05 PM  CASE STUDY: Improving the customer’s experience through policy management
  ▪ Using real-time insights to manage traffic and re-organize network resources
How policy management and analytics in can be used to trigger a re-configuration of the network when required

3:30 PM  Afternoon Refreshments

4:15 PM  HOW TO: Developing the necessary software skills
- The need for an entirely new skill mix - what skill sets do virtualized environments require?
- Providing DevOps training to existing employees
- Developing a hiring strategy that attracts talent with virtualization smarts
- Creating an intern program and cooperating with universities to overcome the software skills gap

5:00 PM  PANEL: Transitioning to a software-centric business culture
- How the move to network functions virtualization disrupts the culture
- Overcoming the DevOps/NetOps culture clash – how will the organization have to change to shift values and attitudes?
- Creating a culture of collaboration across siloed departments

5:30 PM  Chair’s Closing Remarks