MANAGING SDN/NVF LIVE!
9-10 May 2016, Nice

Draft agenda as of November 20, 2015

MONDAY, May 9, 2016

THE REAL POWER OF NFV

9:00 AM
CASE STUDY: Real world deployment - the transformation to virtualized network

- Understanding how to migrate to a virtualised network
- What progress has been made and what are the lessons learned to date?
- How has NFV and SDN altered business and revenue models
- What was the impact of virtualization on the legacy networks?

9:15 AM
CROSS-INDUSTRY CASE STUDY: Virtualizing the data center to enable the efficient delivery of services

- Examining how the virtual infrastructure supports the heterogeneous IT environment
- Overcoming the challenges of legacy systems
- Looking at the transformation roadmap and process - moving elements of the IT infrastructure to the virtual environment
- Addressing challenges in the virtualized environment
- The benefits of a virtualization environment in terms of new revenue opportunities, reduced hardware footprint, efficiency gains and cost reductions

9:30 AM
PANEL: Developing agile NaaS over an SDN/NFV enabled infrastructure for enterprise connectivity services

- Providing an overview of use cases and business benefits demonstrated from the TM Forum and MEF co-sponsored industry proof-of-concept “Zero Touch, Business-Ready NaaS 3.0 with vCPE over an Elastic Network”
- How are the MEF’s Lifecycle Service Orchestration (LSO) and TM Forum’s ZOOM’s programs aligning to make NaaS over hybrid networks with NFV a reality?
- What is the business value of NaaS over an agile infrastructure, where are we on the journey, what challenges remain and what are the practical next steps?
10:00 AM
PANEL SESSION: Real-World NFV progress report
  • What have been the main benefits of NFV so far?
  • Is the telco way of implementing NFV really a paradigm shift?
  • What are the lessons learnt during the operationalization of the virtualized solution?
  • How are operators ensuring that they are leveraging the full potential of NFV and not creating additional complexity when deploying NFV?
  • What new business models and services has virtualization enabled?

10:45 AM
Morning Refreshments

PLANNING AND PROCUREMENT

11:15 AM
CASE STUDY: Justifying NFV to the CFO
  • Why NFV – what are the quantifiable benefits?
  • What kind of savings have been achieved by deploying NFV?
  • How is NFV improving Total Cost of Ownership?
  • What would be the long term consequences of not deploying NFV in light of evolution to 5G?

11:35 AM
Planning your network and business evolution with NFV/SDN
  • Developing a business plan that outlines how to plan your network and business evolution with NFV
  • Identifying and focusing on areas that will yield the best returns and agility
  • What kinds of network functions does it make sense to virtualize?
  • Assessing the Total Cost of Ownership and operational impact of implementing NFV

11:55 AM
What is a procurable VNF package?
  • What is a VNF? Understanding what you are buying and when will it be delivered?
  • Procuring VNF software that implements the required network functions
  • What are you are getting? – knowing that the supplier has delivered what was promised
  • How do you onboard VNFs?
  • Who will be testing the solution?
  • How can the operator manage it?

12:15 PM
PANEL: Never the twain shall meet? – Operators versus suppliers on procurement
  • What do operators want to buy?
What other changes are operators looking to make at the same time as they procure new solutions?
- How are operators prepared to buy components?
- What solutions are operators providing?
- What are suppliers doing with Open Source?
- What relationships do operators want with their suppliers?
- What are the business models?
- How do operators know that the supplier can support them?
- Risk sharing - would suppliers take some of the risk?

12:45 PM
Networking Lunch

**NFV ORCHESTRATION**

2:00 PM
**NFV Orchestration - fueling innovation in operator networks**
- A dual-track for an efficient and effective application of NFV orchestration prioritized on the grade of service innovation
- Customizing service orchestration with a differentiated approach, targeting specific customers’ needs
- Provisioning and delivering innovative services with an “on demand” and “self-service” approach
- Virtual service providers accessing NFV with a NFVIaaS mechanism

2:20 PM
**CASE STUDY: Managing the complexity of multi-domain service orchestration**
- Defining the requirements for fully orchestrating services end-to-end, across both the physical and virtual domains and multiple provider environments
- How can services be managed end-to-end across multiple providers on both physical and virtualized infrastructures?
- Extending the existing end-to-end management architecture

2:40 PM
**Leveraging LSO (Lifecycle Service orchestration) to satisfy increasingly sophisticated customers**
- What is LSO and its reference architecture?
- How does LSO facilitate the rapid operationalization of new services?
- Outlining how LSO arrange and orchestrates service components from multiple operators in support of end-to-end services
- Automating key functional areas of the lifecycle to deliver complex network services

3:00 PM
**ZOOM: Zero-Touch Orchestration, Operations & Management**
- Positioning TM Forum within the broader space
- Creating a vision of the new virtualized operations environment
Enabling the delivery and management of virtualized network and services while enabling both low cost operations and innovation

Defining an architecture that is based on the seamless interaction between physical and virtual components

3:30 PM Afternoon Refreshments

APIS & STANDARDS

4:15 PM
API strategies across different verticals
- Comparing and contrasting the API strategies adopted by verticals
- Building APIs with the Developer Experience (DX) in mind
- Figuring out the edge before deciding what to expose
- Best practices of developing successful APIs

4:35 PM
Leveraging dynamic APIs to deliver a seamless end-to-end user experience
- Using APIs to support diverse marketplaces where products are composed of partner components
- Creating a seamless experience for the complete service lifecycle
- What does an end-to-end solution in a multi-vendor, multi-technology, multi-domain environment look like?

4:55 PM
PANEL: Bringing standards initiatives together to realize the promise of virtualization
- What progress has been made in developing standards?
- Which functions and interfaces should be standardized?
- What is the role of Open Source?
- How do SDOs relate to each other and what is each SDO relying on the others to do?
- Where are the overlaps of SDO initiatives?
- How can SDOs work together to enable interoperability?

5:30 PM End of Day 1
TUESDAY, May 10, 2016

DATA ANALYTICS

11:15 AM
Using closed-loop automation and data analytics to manage virtualized and hybrid networks
- Why closed loop automation, supported by data analytics for policy management is essential to managing virtualized and hybrid networks
- Combining policy control with data analytics to automate the instantiation of VNFs and control data flows
- Using data from different layers to realize the status of the complex network, the supplied services and the customer experience

11:35 AM
Leveraging network analytics to optimize the customer experience in a virtualized world
- Leveraging service level information and customer experience data to analyze the direct impact of scaling, healing and optimization on services and customers
- Combining customer experience and network behaviors
- Using a variety of network and service KPIs to detect inefficiencies and churn/revenue risk conditions to automate core & RAN optimization

SECURING VIRTUALIZED ENVIRONMENTS

11:55 AM
Securing end-to-end virtualized environments
- Incorporating security into the design stage
- Enabling the dynamic management of security in virtualized networks
- How can ensure a security fabric is built in end-to-end?

12:45 PM  Lunch

BUSINESS TRANSFORMATION FOR NFV

2:00 PM
Preparing your business for virtualization
- Assessing the operational impact of virtualization
- How will operational processes have to evolve to support virtualized functions?
- Will the automation that is created change existing business processes?
- Changing the culture and mindset of employees
- Bridging the current divide between Network and IT departments
- Recruiting people with both network operations and DevOps management skills
- Introducing new monitoring tools into the virtualized or hybrid environment to ensure optimal end-to-end quality of service and customer experience

**NFV PERFORMANCE REQUIREMENTS AND ASSESSMENT**

2:20 PM
**Securing NFV performance for the future**
- What has NFV got to be able to support? – examining business drivers
- What kinds of capabilities are needed to enable new business models?
- Addressing NFV performance bottlenecks
- How can end-to-end service be restored in NFV in the event of failures?
- What new tools will be needed to manage and monitor NFV performance?
- Measuring the performance of VNFs and comparing it to its PNFs
- What is the next wave of requirements to take NFV to the next level?

**BUILDING ECOSYSTEMS AND PARTNERSHIPS**

2:40 PM
**PANEL: Accelerate real world NFV use cases progress through collaboration**
- Progress report on NFV ecosystem and architecture development
- Fostering a more open and transparent approach to virtualization
- Articulate what role each players plays in the collaboration efforts
- What is the status of the vendor-operator relationship and how can it be evolved?
- How has the NFV ecosystem expanded to include more start-ups with new value propositions?
- What is the role of Open Source?

**WHAT IS IN IT FOR THE OPERATORS AND THE END USER?**

3:00 PM
**Evolving new business and revenue models with NFV**
- How is virtualization disrupting operators’ business models?
- Turning operators into user experience centers
- Exploring the role of the NFV in enabling new business models and innovative new services/bundles
- Devising new licensing models for software VNFs
- What new and dynamic business models are being created with NFV?

3:30 PM Afternoon Refreshments

4:15 PM
**Nimbler networks through SDN**
- The business case for SDN – stakes and opportunities
- How will SDN allow organizations to keep up with network requirements in the age of connectivity?
• How to successfully implement network virtualization with minimum disruption
• The impact of cloud and SDN on cost-efficiency, service optimization, and future business

4:35 PM
**How is the end user benefitting from NFV?**
• Providing ubiquitous access to services whenever needed
• Giving customers more flexibility in their services as well as the pricing
• Enabling more flexible services such as pay-as-you-use, on-demand services, Tiered Security Services, Bandwidth on demand
• Enabling rapid service innovation by providing the flexibility to quickly develop and deploy new services

**LOOKING TO THE FUTURE OF VIRTUALIZATION**

4:55 PM
**PANEL: What’s in store for virtualization?**
• What does the network of the future look like?
• How will 5G and IoT impact and shape virtualization technologies
• How will ecosystems evolve?
• Future directions for virtualization

5:30 PM **Chair’s Closing Remarks**