Network Function Virtualization Deployment in production – Models and Solution Architecture

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Abstract:

Communication Service Providers (CSP) are in the transformation journey to next generation cloud infrastructure. Cloud computing, Mobile cloud, Network Function Virtualization (NFV) provide the technology pathway to meet next generation application needs and be a revenue enabler to meet today's business challenge. Underpinning this is the virtualization of core infrastructure, be it compute, storage and networking. Virtualizing the key mobile networking functions be it for Access Network - 4G/5G LTE, CDMA, non-3GPP Wi-Fi; Transport networks - Radio Access Network (RAN), eNodeB, Content Delivery network (CDN); and Core networks - Evolved Packet Core (EPC), IP Multimedia subsystem (IMS), VoLTE is now reaching a phase where high end trials and production level deployments are starting to happen. This workshop will focus on the different NFV models. It will walk through requirements that should be satisfied by NFV to meet the business needs. We will discuss the different architecture models, NFV standards compliancy from a design of Virtual Compute, Storage, and Networking infrastructure. The workshop will also focus on available operational delivery models an the IT and Core network teams of a CSP need to consider to successfully deploy and operationalize for production. The key for success elements like operational transformation, carrier-grade quality, management, orchestration, automation and requirements that satisfy CPE OAM&P FCAPS, OSS and BSS mandates will be dealt with thus providing a end-to-end solution architecture. Finally the road ahead with opportunity and challenges will be shared. Audience will be engaged to listen and dialogue initiated to discuss and user experience they like to share or issues for which they are interested in discussing a solutions. This will be a very interactive workshop with ability for audience to share their experience and also learn about the right way to implement NFV

Biography:

Dharma Rajan is a leading expert in Cloud technology working as lead Solution Architect at VMware, USA. His areas of expertise span infrastructure virtualization, hybrid cloud, NFV and cloud security. Prior to joining VMware, Dharma has worked at Ericsson, USA for over a decade building 4G platform architecture, carrier grade networks and network management systems. He has also worked at Cisco Systems, USA on Enterprise architecture. He has 20+ Technical publications. He is an invited speaker at major industry events and world conferences. He holds a MS in Computer Engineering from NCSU, USA and M.Tech in CAD from IIT-Kanpur, India