

## SDN / NFV Transformation for a leader in Packet Monitoring Solution

### BUSINESS CHALLENGES



Develop solution which fits into Enterprise and Telco Cloud with SDN / NFV as key technology innovation



Scale and Performance enhancement to the Management System and development of modern Interface for the same



High Performance Data plane and Management Plane for Heterogeneous deployment scenarios

### SOLUTION APPROACH



Enhancement of the OpenDayLight Controller enabling White Box Switches to be used as Packet Brokers for Scale out Architectures And Development of a packet broker VNF



Innovative approaches like Concurrency, Alarm Co-relation, Pacing to optimize the queries resulting in higher scale and performance of event / alarm handling



Core Forwarding Engine development for Octeon NPU for line rate classification & reassembly. Broadcom Dune Arad offered as alternate platform with the said functionality

### TOOLS AND TECHNOLOGIES



Open Day Light Controller, PICA8 switches, Netty, PostMan, Java, C, Python, DPDK, OVS, VirtIO



JBoss-Remoting, SWING, HIBERNATE, eCache, yWORKS, Netconf, HTML5, CSS3, JavaScript, XML, RPC



Octeon, Broadcom Dune Arad and Broadcom SDK, Tail-f CONFD framework for Management Agent, VXLAN, NVGRE

### BENEFITS



Enabled penetration to SDN enterprise cloud and telco cloud deployment scenarios



Virtualized Network Packet broker with support for Overlay protocols as a product offering to Web Scale and Cloud companies



10x Scalability improvement and line rate performance for physical function and near line rate for virtual function