# Nominee: Anuta Networks NCX 4.0

**Nomination title:** Delivering SDN benefits for Existing Multi-Vendor Network Infrastructure

Note: NCX 4.0 has been shipping from January 20th, 2015.

Description:

Anuta NCX is a game changing solution that transforms existing multi-vendor physical and virtual infrastructures into software defined infrastructure through network service virtualization. NCX is currently delivering business agility and ROI at SPs and large enterprises including Telstra, Univ. of British Columbia, Hitachi Systems, Orange Business Services and Japan Post.

NCX abstracts and virtualizes existing multi-vendor physical and virtual network infrastructure from vendors such as Cisco, Citrix, Juniper, Brocade, F5, Fortinet, Radware and VMware etc and integrates with a variety of cloud portals to enable dynamic self-service network provisioning.

NCX orchestrates all deployments including Data Center, InterCloud, Micro-Segmentation, Security as a Service, LBaaS, Campus/Access, Branch/WAN, Service Provider IP/MPLS Edge, Virtual CPE and NFV without requiring costly infrastructure upgrade.

NCX unique features:

Network Service Designer: Easy to use drag and drop capability enables business managers and architects to design network services and catalogues.

Service Orchestrator: NCX orchestrates L2-L7 on physical, virtual, and hybrid multi-vendor infrastructure and topologies, including VXLAN based overlay network.

Service Monitoring and Capacity Management: NCX constantly monitors network devices for health, resource utilization and alarms. This allows the operations team to understand the available capacity. NCX enables troubleshooting by mapping infrastructure events to service affecting alarms.

VNF Management: NCX delivers VNF instantiation, placement, image management, service definitions, provisioning, commissioning and decommissioning. NCX orchestrates multi-vendor VNFs such as Brocade Vyatta, Cisco CSR1000v, Nexus 1000v, VMware DVS, Citrix NetScaler VPX, F5 BIG-IP, Riverbed Steelhead, Radware ADC-VX, Juniper vSRX and vMX.

**YANG Modelling:** Enables customers and partners to develop their own device, service and operational models using YANG. South Bound extensibility includes device models, network operations and notifications. North Bound abstraction provides normalized network service operation model for L2-L7 including Firewall, ADC, VPN.

**Cloud Portal Integration:** Anuta NCX also integrates with cloud management portals such as OpenStack, CloudStack and customers' home grown portals via a REST API. All the functionality within NCX is accessible via the REST API, allowing easy integration into other systems such as billing, documentation, ticketing and self-service portals.

**Performance and Scale:** NCX's distributed architecture offers the highest performance and scalability. NCX has been proven to scale up to more than 50,000 devices across 35 data centres.

**Customer Benefits:**

**REVENUE:** Service providers can use NCX to offer highly differentiated network as a service, thus generating new streams of revenue. Enterprises can use NCX to accelerate application deployment thus increasing business agility.

**EFFICIENCY:** By virtualizing network resources into logical functions, organizations can benefit from lower Capex and OpEx.

**ON DEMAND:** NCX offers superior business agility with its on-demand model of network service creation.

**SERVICE ASSURANCE:** NCX monitors, collects, and analyzes performance, health, capacity, and availability information from disparate devices. This service level information helps to meet the business SLA.

**MULTI VENDOR:** One of the key benefits of NCX is device abstraction. This allows customers to leverage best-of-breed vendor devices for their network and avoid vendor lock-in.

**Maximize ROI / ROA:** As Anuta Networks solution works for existing physical network infrastructures, customers can continue to use the devices they have already purchased and still get complete network agility. This results in higher ROI and ROA.

**Sample Deployments:**

1.      Telstra provides hosted cloud services for enterprise applications with strict access controls. However, they faced significant challenges to manage and scale the security policies manually. Anuta NCX automated the entire L4-L7 services across multi-vendor devices and introduced "Security as a Service". The solution reduced operating expenses by 50%, increased security compliance and application availability.

2.      University of British Columbia (UBC) is one of the Top 20 public universities in the world and their IT team supports networking needs for 60,000 students and 10,000 faculty members in 200+ departments. Due to the heavy volume of requests, the network engineering team spends 200 hours or more every month on change requests. The Anuta NCX solution automated network services and reduced the network team's involvement down to less than 20 hours a month on change requests. The UBC network engineering team is able to deliver the next generation network services to its customers within minutes through a self-served portal.

3.      Japan Post deployed Anuta NCX solution to enable their internal IT to deliver ITaaS. Their objective is to shorten the time to delivery from few weeks to few days down to few hours. Automating their multi-vendor networks also improves their quality of service avoiding too many manual operations.

4.      A Fortune 200 Mining Company is currently deploying Anuta NCX to increase the speed at which they deploy network services to their 70+ branch offices.

5.      Orange Business Services specialized in network services for top enterprises tested our solution. Their objective is to help their own customers to move towards Cloud and therefore automate their complex multi-vendor networks environment. They tested several solutions but at the end really liked the simple user interface based on icons (FW, LB, VLAN,) and the fact that NCX is not an overlay solution.

6.      Tier 1 EMEA Telco Service Provider is undertaking extensive testing of NCX to help reduce network operational costs, respond faster to customer change requests and deploy new services quickly.  In each case using automation to reduce the risk of manual error.

7.      One of the world's largest software makers and Fortune 100 Company is evaluating Anuta NCX to simplify and automate the provisioning of Data Center services for their external customers while driving down operational expense.

## Why nominee should win

Enterprises and Service Providers constantly see the need to accelerate their network services and there are many solutions to help them build the network from scratch. However, they made enormous investment in best of breed networking infrastructure from multiple vendors that they can't afford to replace again and again. And, they can't rely on niche players who accelerate network services for a specific use-case or vendor.

Anuta NCX is the only solution that delivers network service virtualization for existing multi-vendor physical and virtual infrastructure and orchestrates all the use-cases including Data Center Automation, InterCloud, Micro-Segmentation, Security as a Service, LBaaS, Campus/Access, Branch/WAN, Service Provider IP/MPLS Edge, Virtual CPE and NFV.