

NOMINATION FORM – TECHNOLOGY AWARDS CATEGORIES

Category: Software Defined Infrastructure Product of the Year

Nominator details:

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Nominee DETAILS:

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YOUR NOMINATION:

1. Nominee: **Anuta Networks NCX 6.0**

2. Nomination Title: **Intent Driven Network Service Orchestration for Software Defined Infrastructure**

3. Description of your project, product, service or nominated organisation. Please answer the entry criteria questions outlined below in your description: (word limit: 1000)

- What are your product's / solution's key distinguishing features and/or USP?
- What tangible impact has your product/solution had on the market and your customers?
- What are the major differentiators between your product/solution and those of your primary competitors?
- Please supply any supportive quotes and/or case study materials to demonstrate the value of this product/solution to your customers/partners.

All products must have started shipping in EMEA before 1st August 2017.

Yes, NCX 6.0 has been shipping from June 14th, 2017.

Description:

Anuta NCX is a game changing solution that transforms existing multi-vendor physical and virtual infrastructures into software defined infrastructure through network service orchestration. NCX is currently delivering business agility and ROI at SPs and large enterprises including Tata Communications, Telstra, F5 Networks, NRI, Hitachi Systems, NTT Advanced Technologies, Orange Business Services and Japan Post.

NCX abstracts and virtualizes existing **multi-vendor physical and virtual network infrastructure** from industry leading 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 uses IETF YANG model driven platform to orchestrate all deployments including Data Center, InterCloud, Micro-Segmentation, Security as a Service, LBaaS, Campus/Access, Branch/SD-WAN, Service Provider IP/MPLS Edge, Virtual CPE and NFV without requiring costly infrastructure upgrade.

NCX unique features:

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

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 IETF 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.

SDN Controller Integration: NCX is integrated and deployed in production with multiple SDN controllers including Cisco ACI, Juniper Contrail, HPE DCN, Alcatel Lucent Nuage VSP with many more to come.

Cloud Portal Integration: Anuta NCX also integrates with cloud management portals such as OpenStack, HPE Helion, VMWare vRealize Automation Suite, Science Logic 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.

Orchestrated Service Assurance: NCX utilizes Key Performance Indicators (KPI) driven orchestration to ensure Service Monitoring and Service Assurance. The KPI will be defined using YANG data models that include a workflow or sequence of events. NCX will execute the data model and automate the necessary corrective actions.

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.

Performance and Scale: NCX's distributed micro services based 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 and branch on-boarding 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.

EXTENSIBILITY: NCX YANG Model-driven platform enables partners and customers to extend the device and service models to match their specific requirements.

Sample Deployments:

1. Tata Communications (TCL) is a leading global Tier-1 SP, offering IZO SD-WAN for managed branch customers across 130 countries in 700 cities. TCL team evaluated multiple network service orchestration solutions including Cisco NSO, Glue Networks and Anuta NCX for their multi-vendor infrastructure consisting of Cisco, Riverbed, Versa and Juniper. They chose Anuta NCX because of its flexibility, multi-vendor coverage, scalability, development toolkit as well as customer service.
2. 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.
3. F5 networks deployed Anuta NCX in their Silverline DDoS private cloud to simplify and automate the provisioning of Data Center services for their external customers while driving down operational expense.
4. 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.
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.

Supporting Quotes:

Using the Anuta NCX network orchestrator, we have been able to turn around a greenfield 148 site deployment project with zero errors in less than 18 hours. Before NCX, such project would take 112 engineering hours excluding audits and rework.

Peter Juffernholz, AVP of Virtualized Network Services, Tata Communications.

Anuta's YANG model-based NCX platform allows applications to describe intent to the network without worrying about underlying physical infrastructure. NCX enabled our DevOps teams to focus on the service workflow instead of learning complex CLIs.

Mike Lechner, Manager, Product Development for Silverline, F5 Networks.

Anuta's advanced network service orchestration solution offers capability that supports our Telstra Cloud network automation to allow customers to easily and quickly connect with our partner clouds. We worked very closely with the Anuta team to develop the user stories and workflows. It was a great team effort to deliver the entire project in two months for orchestration and integration with other components.

Craig Fulton, Head of Cloud Engineering, Telstra.

Integrated NFV/SDN-based technology is the new paradigm that enables telecommunications service providers to be agile and innovative to stay competitive amidst the increasingly complex industry landscape. Logicalis will leverage our experience and expertise in solutions integration in this strategic partnership with HPE and Anuta Networks. We will deliver a robust solution, built upon a tried-and-tested network service delivery platform, and which can continuously evolve to support our telecommunications customers' exponentially growing and ever-changing business needs.

James Tay, Logicalis' Chief Executive Officer for Asia.

As the global telecommunications industry moves to the next stage of evolution, the coexistence of physical and virtual infrastructure can hinder service agility and slow time-to-market. Our PoC with Logicalis and Anuta Networks will address the industry need for end-to-end service orchestration and accelerate the delivery of services across hybrid, physical and virtual networks on a proven open orchestration platform.

Thomas Sennhauser, CTO, Enterprise Group, HPE APAC.

Our highest priority is satisfied customers. Our customers can be rest assured that they will enjoy the latest services, technology and developments in the industry while mitigating risks associated with deployment. Anuta NCX brings unique value to our client base and we look forward to deploying them throughout United Kingdom.

Andy de Clerck, Technical Director and Co-Founder at Geode Networks.

We've seen significant uptake in our data center business practice. Anuta NCX solution is a great fit for our large enterprise customers as they embark upon the journey to orchestrate their multi-vendor network infrastructure. Together, we look forward to accelerate the SDN deployments in Italy.

Giulio Covassi, CEO at Kiratech.

At Silicom, we strive to deliver exceptional value to our customers and hence we are very selective about the products we offer. Today, we are excited to partner with Anuta Networks to bring its award winning NCX Network Orchestration Solution to Enterprise and Service Provider customers in France. Anuta's NCX has been proven in world-wide deployments to reduce service delivery for traditional and next generation multi-vendor network infrastructure.

Christian Bataille, President and Founder, Silicom.

Network Service Delivery is a key criterion for Service Provider's success. Anuta NCX solution with its YANG based model driven orchestration offers the balance between network automation and customization that is needed for large scale multi-vendor network infrastructure. We look forward to empowering our mutual customers in EMEA to deliver the SDN benefits including agility, self-service and operational savings.

Gerold Arheilger, CTO at Xantaro Deutschland GMBH.

In order to expand our footprint in Poland targeting the enterprise segment, today we need to provide on demand and even higher quality of services to our customers. In that extent, we did a pilot with Anuta regarding network automation and orchestration which enables network resources provisioning in a matter of few minutes instead of few days. These tests were very successful and we are looking forward to further success.

Emil Kowalczyk, head of advanced network solution at Orange

Service providers and large enterprises face a key challenge of service orchestration for their multi-vendor networks. In order to solve this, the industry has to come together and create platforms and open frameworks. In my 15+ years of experience in the industry, we are now moving from silo architectures into open and flexible platforms and architectures. I am very pleased to see that Fortinet and Anuta Networks have collaborated to provide such a platform for KPN.

Clements Radenborg, Program Manager, KPN Networks

Anuta Networks and FjordIT are bringing innovative Network Services offerings to the Nordic Markets. At Fujitsu Norway, our key focus is in bringing new technologies that can help customers achieve more efficiency and reliability in managing their networks. We are

looking forward to our collaborative approach and partnership in bringing this key technology to our enterprise customers.

Tor Arne Rømme, Sr. Network Architect, Fujitsu Norway.

As a leader of sustainable data power services, Fjord IT is very selective about the technology partners we work with to deliver innovative, high-performing solutions for our global enterprise customers. This strategic collaboration with Anuta Networks enables us to utilize its NCX Enterprise platform to securely and rapidly deliver industry-leading network services, and with faster business value for our enterprise customers.

Helge Gallefoss, CEO and Founder, Fjord IT.

4. Give us a brief summary of up to 5 bullet points why the nominee(s) or organisation should win this award: (word limit: 100)

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 orchestration 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.

Please note: You can send additional references or testimonials that would support your nomination