# ANUTA NETWORKS NCX:
# ACCELERATE NETWORK SERVICE
# DELIVERY WITH ORCHESTRATION

## NCX Orchestrates

- Multi-Tenant Public Cloud
- Application Delivery in Private Cloud
- FWaaS and LBaaS
- CPE – Physical, Virtual & Hybrid
- Cloud CPE
- IP/MPLS Backbone
- Inter-Cloud
- Segmentation In Campus
- Edge Port Management
- Data Center Interconnect
- Partner Connect in Private Cloud

## NCX Key Differentiators

- YANG platform for device and service modeling
- Multi-Vendor Device Abstraction and Orchestration
- Graphical Service Designer
- VNF Life Cycle Management
- Built-in IP Address Management
- Openstack ML2 and LBaaS plugin
- NFV MANO for DC, CPE, WAN & Telco
- Network Documentation and Compliance

## Where NCX Fits In

NCX network controller abstracts multi-vendor physical, virtual and SDN infrastructure. NCX includes comprehensive REST API to integrate with customer self-service portals, cloud portals such as Openstack and OSS/BSS. Also, NCX can serve as a self-service portal to deliver network as a service. Upon a service request, NCX automatically generates CLI/NETCONF/XML/API for multiple network devices and delivers the service chain within minutes. NCX also monitors the deployed service for SLAs.
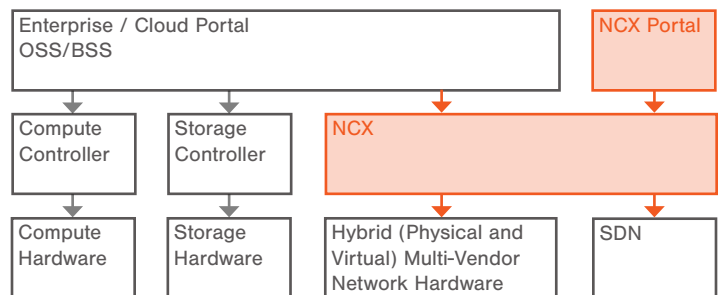


## Network Functions

- VLAN, VXLAN, Virtual Port Group
- Firewall, NAT- Physical & Virtual
- Load Balancer- Physical & Virtual
- WAN Optimizer- Physical & Virtual
- VRF
- Virtual Router
- Web Security, Proxy
- MPLS L3 VPN, IPSec VPN, DMVPN
- RIP, OSPF, ISIS, BGP
- STP, VPC, MC-LAG
- Ether Channel

## Vendor Support

*visit our website for a full list of supported network devices*

**Physical**

**Brocade** FastIron, BigIron
**Cisco** ASR9K, Cat3K-6K, N7K, N9K, ASA, ISR, ACE, 7600
**F5** BIG IP LTM, GTM, VIPRION
**Citrix** NetScaler VPX,MPX,SDX

**Virtual**

**A10** vThunder
**Brocade** Vyatta 5400,5600, SteelApp
**Cisco** VSG, CSR1000v, XRV,Virtual ASA, Virtual WAAS
**Fortinet** FortiGate
**Juniper** VGW, vSRX
**Palo Alto** PA, VM

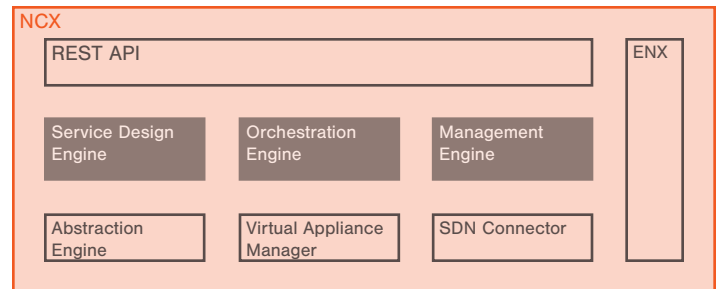| **Resource Management** | • Resource Discovery<br>• Day 0, ZTD, RMA, Plug-n-Play<br>• Topology Discovery<br>• Path Computation<br>• Active Device Monitoring<br>• Fault Management<br>• Config Management<br>• IPAM<br>• Resource Pools<br>• Resource Audit Log<br>• Device Onboarding | **Network Service Life Cycle** | • Service Design<br>• Service Orchestration<br>• Service Monitoring<br>• Service Deletion<br>• VNF Manager- Openstack, vCenter<br>• Capacity Forecast<br>• Dynamic Service Provisioning<br>• Service Fault Managment<br>• Compliance<br>• Service Alerts<br>• Logical and Physical View |
|---|---|---|---|

**System**

• Virtual Appliance
• Scalable Server & Agent Model
• Role Based Access Control
• Seamless Upgrade
• Comprehensive REST API
• YANG – RESTCONF API
• Java SDK
• Asynchronous Message Bus
• Admin Console for Troubleshooting
• Domain Control

**NCX**

REST API | ENX

| Service Design Engine | Orchestration Engine | Management Engine |
|---|---|---|
| Abstraction Engine | Virtual Appliance Manager | SDN Connector |

**Deployment & Pricing**

**Deployment**
NCX's distributed architecture scales to thousands of devices. NCX controller and agents are deployed as VM on any hypervisor.

**Pricing**
Flexible per-device license models including perpetual, subscription and Enterprise site license are available.