Unified management solution for traditional and software-defined networks

Solution overview

FusionLayer's software-defined IP Address Management (IPAM) solution is certified for the Nuage Networks Virtualized Services Platform (VSP).

Deployment of FusionLayer Infinity in your datacenter allows you to manage traditional and Nuage Networks-enabled networks within a single IPAM solution.

Solution for:

- Managed Service Providers (MSP) with multitenant datacenters
- Enterprises operating multiple datacenters and a SD-WAN
- Communication Service Providers (CSP) leveraging Network Function Virtualization (NFV) and SDN to power service agility.

FUSIONLAYER
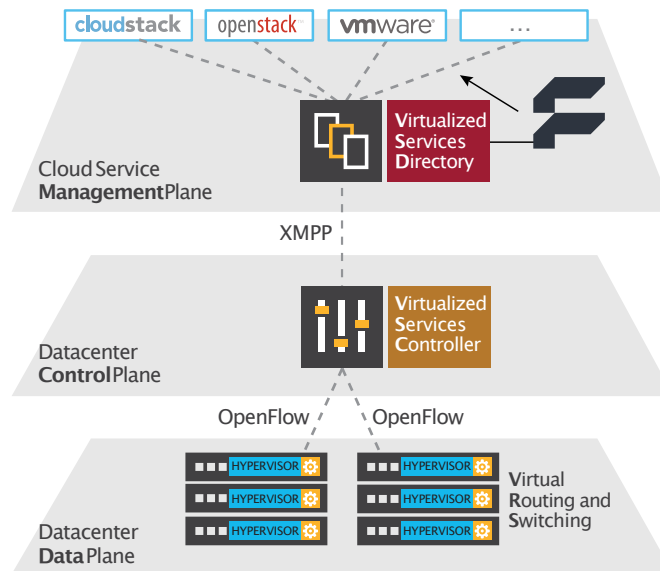
- An authoritative management system for all network-related information, mapping the links between overlays and underlays, IPv4 and IPv6 networks, NATed networks, and more.
- Realtime synchronization with Nuage Networks VSP gives instant network-centric visibility into VSP-enabled networks.
- REST-based release parameter provisioning (IP, name, UID) for third-party orchestrators responsible for infrastructure, cloud and services inside VSP-enabled networks.

Together, Nuage Networks® and FusionLayer have created a solution providing a unified management system for both Nuage Networks-enabled and traditional networks.

The shift from traditional network architectures to the software-defined world is likely to take years. To enable seamless transition, it is critical that all networks are managed within a single authoritative system responsible for all network-related information.

For this, you need a unified management solution providing realtime visibility into all networks from a single interface.

FusionLayer Infinity is a software-defined IP Address Management (IPAM) solution that facilitates unified management of both traditional and Nuage Networks Virtualized Services Platform (VSP)-enabled networks. With its powerful REST API, FusionLayer Infinity also provisions IPs, names and prefixes to third-party service orchestrators.

When deployed alongside the Nuage Networks VSP, FusionLayer Infinity functions as the authoritative management system and provisioning source for all network-related information.

Synhronization with the Virtualized Services Directory allows FusionLayer Infinity to display network and configuration changes made in Nuage Networks VSP-enabled networks in real time.

Deployed as a highly available service cluster in your virtualized computing environment, FusionLayer Infinity delivers network agility for your network environments. Infinity allows you to track and manage the links between different networks, becoming the authoritative provisioning source for all network-related information such as names, IP addresses or free prefixes.

Business benefits

Fully validated and integrated into the Nuage Networks VSP, software-defined IPAM Infinity from FusionLayer offers the most dynamic solution available on the market today.

■ Unparalleled scalability

Infinity eliminates concerns about scalability by providing the ability to provision and manage x10–x25 more network data than traditional IPAM solutions.

■ Automate workflows

With the Nuage Networks VSP and FusionLayer Infinity, manual workflows associated with network/ IP addresses assignments and spreadsheets can be eliminated. Automation comes standard with real-time visibility.

About FusionLayer

FusionLayer streamlines cloud and application delivery in next generation data centers. The company's vendor agnostic technology bridges the gap between network infrastructure and orchestrated cloud and network functions virtualization workflows.

For cloud and application delivery, FusionLayer's northbound solution facilitates Network Function Virtualization (NFV) and provides unified network visibility and reporting. The company's southbound solution, for network infrastructure, enables multivendor DNS and DHCP administration coupled with network monitoring and reservation management for Software Defined Networking (SDN). Altogether, FusionLayer's solutions fully support both IPv4 and IPv6 environments. Nine out of 10 of the world's largest service providers leverage FusionLayer.

Learn more at: www.fusionlayer.com

Solution features and benefits

The joint solution from Nuage Networks and FusionLayer allows all networks to be managed neatly within a single solution. This protects against issues caused by overlap between traditional and Nuage Networks–enabled networks, and reduces operating expenses.

By running FusionLayer Infinity alongside the Nuage Networks VSP, Infinity can automatically extract network data and configurations from the VSP. By combining this information with administrative attributes typically managed in a spreadsheet, all network data is consolidated into a unified system.

When deploying workloads or containers into a Nuage Networks VSP–enabled network, Infinity can be used to provision names, UIDs and/or IP addresses to any orchestrated process. With several off-the-shelf plug-ins, this allows multiple orchestrators to deploy resources into the same networks.

The joint FusionLayer and Nuage Networks solutions offers these features:

■ Plug and play integration
■ Simplified user experience
■ Real-time visibility into networks
■ Role-based access control
■ Natively multitenant
■ Centralized DNS and DHCP management
■ OpenREST API
■ IPV4, IPV6 and dual stack support
■ x10–x25 scalability
■ Virtual machine and baremetal support
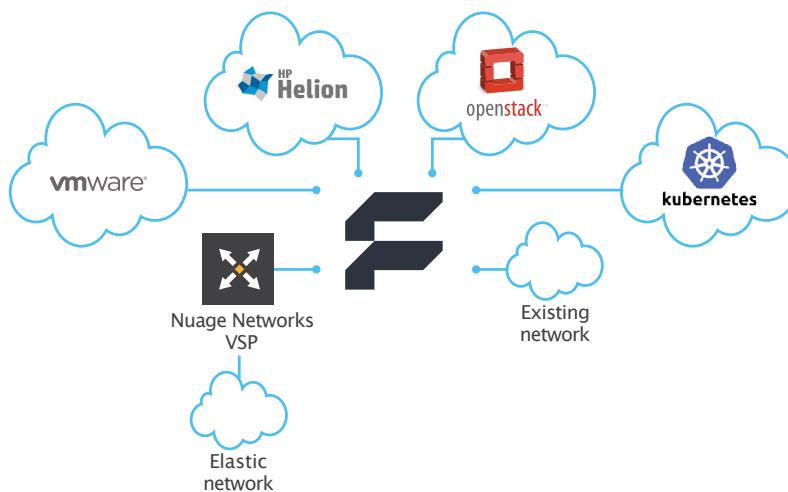
About Nuage Networks

Nuage Networks (www.nuagenetworks.net) brings a unique combination of groundbreaking technologies and unmatched networking expertise to the enterprise and telecommunications industries. The Silicon Valley–based business has applied radically new thinking to the problem of delivering massively scalable and highly programmable SDN solutions within and across the datacenter and out to the wide area network with the security and availability required by business–critical environments. Nuage Networks, backed by the rapidly growing IP/Optical Networks business of Nokia, has the pedigree to serve the needs of the world's biggest clouds. The cloud has made promises—the mission of Nuage Networks is to help you realize them.

Discover more at www.nuagenetworks.net and follow us @nuagenetworks

nuagenetworks
From Nokia