Lumen® Adaptive Virtual Services (AVS)

Simplify your IT environment and improve agility to quickly adapt to business demands with a software-defined experience

Today's business and IT leaders are turning to technology to drive growth, resiliency and innovation for their organization. And they're being asked to absorb this with little to no additional budget or resources as demands for network agility and compute power grows. Network functions, elements and management require simplification and automation to keep pace with increasing demand. The network must be agile to support moves, adds and changes with little or no IT intervention required.

Overview

The on-demand, agile architecture of cloud services is dictating the need for WANs that can scale in real-time to take advantage of cloud services and leverage Software Defined Networking (SDN) and Network Functions Virtualization (NFV) technologies to help address the need for on-demand bandwidth and services.

SDN and NFV are enabling the transformation of WAN from a static, inflexible architecture to that of an agile and flexible software-centric one.

Enterprise branch sites and data centers are still crowded with multiple hardware devices for separate network functions and IT applications. As the number of sites in an enterprise WAN grows, so do the number of hardware appliances required for separate functions, thus increasing operational costs and complexity.

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Lumen has nearly a decade of operating experience with commercial NFV services. Adaptive Virtual Services extends that NFV expertise from the network and cloud to enterprise sites and data centers. Lumen took important learnings from NFV to make Adaptive Virtual Services cost-efficient and open to hosting third-party software, both aspects that are key to enterprises."

Brian Washburn, Research Director, Service Provider Enterprise & Wholesale, Omdia

Benefits

Agility

Once the Lumen uCPE is in place, deploy virtual network functions (VNFs) remotely with automation - spinning up service delivery in minutes versus days with traditional hardware

Efficiency

Reduce the amount of hardware equipment and improve your total cost of ownership (TCO). Less hardware costs, less moving parts, and less maintenance. Instantiate on-demand virtual services and innovate at the speed of business

Control

Migrate at your own pace with the ability to add SD-WAN when you are ready or add security solutions in near-real time deployed as software.

Future proof

Begin your network transformation and prepare for what's next and with our proven expertise to help manage new technologies and best in class multi-vendor solutions

LUMEN®

Technical features

- Deploy across premises, network edge or cloud
- Lumen provided x86 universal customer premises equipment (uCPE) with desktop form factor that's also rack mountable.
  - Hypervisor: Adva
  - Hardware: Lanner box
  - 16-core Atom (Denverton), 32G RAM, 1TD SSD
  - 8-Interfaces: RJ45 x 6, SFP x 2
  - Virtual function support: Up to 5
  - Single or high availability design options
  - Full management of hardware and hypervisor
  - 24x7x365 maintenance

- Customer Command Center portal
  - Dashboard summary views
  - Virtual network functions status
  - Change control

- Virtual Network Functions (VNFs) / vendor support
  - SD-WAN, security, hosted OS, voice & analytics

Why choose Lumen Adaptive Virtual Services?

Easily adapt to ongoing business demands with ease and flexibility with virtualized network services:

- Comprehensive customer solutions with breadth and depth of Lumen portfolio
- Deploy virtualized services quickly - when and where you need it
- Easily scale for growth and resiliency
- Managed and self-managed capabilities
- Global network reach

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