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## **SOFTWARE DEFINE YOUR ENTERPRISE WAN** WITH VIRTUAL NETWORK SERVICES

The convergence of SD-WAN, SDN, and NFV technologies enables businesses to realize the value of a dynamic WAN





## TOP 3 BUSINESS DRIVERS FOR DIGITAL TRANSFORMATION



Optimize IT Resources



Productivity



Experience

Organizations need to minimize the risk of business interruption and gain flexibility to quickly adapt to changing conditions. Investment in technology is more critical now than ever as it is key to ensure the continuity of operations and business agility.

# **THREE WAN REQUIREMENTS**

As businesses across verticals embrace hybrid cloud, IoT, remote working, edge, and other technology trends, it is imperative that the WAN they are using is:

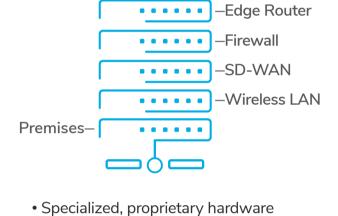
AGILE -

HIGHLY SECURE ■



Traditional Approach vs. NFV Approach

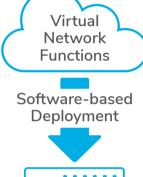
### **Traditional Network Appliance Approach**



- Physical install per appliance per site
- Complex network management

## Virtualization Approach

**Network Function** 



- Multiple functions on a single device Less complexity, lower cost

Specialized x86 hardware platform

# **Improved**

BENEFITS OF NFV-BASED VIRTUAL NETWORK SERVICES

Dramatically (

improved

Enhanced control over

networking functions

provisioning cycle times Speedy deployment (

matter of days

of new applications

and services in a

Reduced operational

a modular fashion

**WAN** efficiency

costs **Enhanced security** features deployed in

multi-vendor approach for superior VNF choices

New catalog-based

IN A NUTSHELL

Virtual network services = Less complexity, better performance, lower cost

#### **Pandemic Hybrid Cloud Networking** The pandemic forced many Businesses prioritize investing

TRENDS DRIVING THE NEED FOR VIRTUAL NETWORK SERVICES



#### optimize resources, increase operational efficiency, and

businesses to deploy

technologies that would

enhance business continuity. VNF dramatically reduces hardware costs. The software-centric approach enables VNFs to be instantiated effortlessly,

- enabling network functions management on the go.
- Rise in SD-WAN Adoption The US SD-WAN market revenues exceeded \$2.7 billion in 2021, with more than

280,000 operational sites.

VNFTo fully realize the potential of a softwarecentric architecture, several WAN functions must be agile. Deploying a uCPE platform that can host multiple VNFs,

including SD-WAN,

addresses WAN virtualization holistically.



#### IT infrastructure to manage multiple locations globally.

uCPE offers the agility and flexibility to deploy VNFs at all key connection points for hybrid cloud: on-premises data centers, colocation data centers, cloud POPs, and edge.

in hybrid and multi-cloud

services for their distributed

**Enhance Global** Competitiveness through **Fast Deployment** 

With virtual network services,



## markets before investing CAPEX in branch locations.

businesses have a cost-

effective way to test new



Learn about AT&T Network Functions Virtualization

https://www.att.com/nfv