

# **Network Functions Virtualization Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Solutions, Services), By Organization Size (Small & Medium Enterprises, Large Enterprises), By Applications (Virtual Appliance, Core Network), By End-user (Service Providers, Data Centers, Banking Financial Services and Insurance (BFSI), Healthcare, Retail, Manufacturing, Government and Defense, Education, Others), By Region, By Competition, 2018-2028**

<https://marketpublishers.com/r/NAC3AD130304EN.html>

Date: November 2023

Pages: 182

Price: US\$ 4,900.00 (Single User License)

ID: NAC3AD130304EN

## **Abstracts**

Global Network Functions Virtualization Market was valued at USD 27.4 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 22.8% through 2028. The Global Network Functions Virtualization (NFV) Market is experiencing substantial growth driven by the imperative need for agile and cost-effective network infrastructure solutions. NFV is revolutionizing the networking landscape by enabling the virtualization of network functions that were traditionally performed by dedicated hardware appliances. This transformation offers organizations the flexibility to deploy and manage network services in a more dynamic and scalable manner. Businesses across various industries are increasingly recognizing the advantages of NFV, including reduced capital expenditures, enhanced resource utilization, and rapid service deployment capabilities. NFV also plays a pivotal role in supporting emerging technologies like 5G and edge computing, where the ability to scale and manage network functions efficiently is paramount. Additionally, the COVID-19 pandemic has underscored the importance of adaptable network

architectures to support remote work and digitalization efforts. As a result, the Global NFV Market is poised for continuous expansion, with vendors focusing on developing innovative solutions to address evolving networking needs, further fueling the adoption of NFV across industries worldwide.

## Key Market Drivers

### Increased Adoption and Integration

The global Network Functions Virtualization (NFV) market is experiencing substantial growth, primarily driven by the increased adoption and integration of NFV across various industries. Organizations worldwide are recognizing the potential of NFV to revolutionize their network infrastructure and operations. NFV offers a transformative approach by virtualizing network functions and decoupling them from dedicated hardware appliances. This shift towards virtualization enables organizations to achieve greater flexibility, scalability, and cost savings. By adopting NFV, organizations can dynamically allocate network resources, scale services on-demand, and rapidly deploy new network functions, all while reducing capital expenditures and operational costs. Furthermore, NFV seamlessly integrates with existing network infrastructures, allowing organizations to leverage their current investments while gaining the benefits of virtualization. The integration of NFV into existing workflows enables organizations to unlock the full potential of this technology and drive productivity gains. By providing a more agile and efficient network infrastructure, NFV enhances user experiences, streamlines operations, and unlocks new opportunities for innovation and growth. As the demand for advanced network capabilities and cost-effective solutions continues to rise, the adoption and integration of NFV are expected to further drive the growth of the global market. Vendors in the NFV market are focusing on developing advanced features, ensuring interoperability, and providing comprehensive management and orchestration capabilities to meet the evolving needs of organizations across industries. By embracing NFV, organizations can transform their network operations, optimize resource utilization, and gain a competitive edge in the dynamic business landscape.

### Growing Demand for Advanced Network Features

The global NFV market is experiencing a rising demand for advanced network features, shaping the industry landscape. Organizations across various sectors are recognizing the potential of NFV solutions to deliver enhanced network capabilities and services to their customers. Features such as network slicing, network automation, service chaining, and orchestration are becoming essential requirements for organizations

seeking to leverage NFV technology. These advanced features enable organizations to create customized, on-demand network services, enhance scalability, and reduce operational costs. Moreover, NFV solutions that seamlessly integrate with emerging technologies like 5G and IoT are in high demand, allowing organizations to harness the full potential of digital transformation.

### Integration with Existing Network Infrastructures

The integration of NFV with existing network infrastructures is a pivotal driver for the global NFV market. Organizations across various industries recognize the need to modernize their networks without disrupting established operations. NFV solutions provide a smooth transition by allowing the integration of virtualized network functions with legacy hardware and software systems. This integration minimizes the need for extensive reconfiguration or costly hardware replacements, ensuring a cost-effective and seamless transition. NFV enables organizations to enhance network flexibility, reduce capital expenditures, and improve network scalability while maintaining compatibility with existing infrastructure. This factor is particularly appealing to telecommunications providers, data centers, and enterprises looking to upgrade their networks to meet evolving demands efficiently.

### Evolving Telecommunications Landscape

The global Network Functions Virtualization (NFV) market is experiencing significant growth, driven by the evolving telecommunications landscape and the increasing demand for efficient and agile network infrastructure. The telecommunications industry is undergoing a transformation as it seeks to keep pace with the rapid advancements in technology and meet the growing demands of consumers and businesses. Traditional network architectures, characterized by dedicated hardware appliances for various network functions, are proving to be inflexible, costly, and time-consuming to manage. In response, organizations are turning to NFV as a solution to virtualize network functions and decouple them from proprietary hardware. This shift towards virtualization allows for greater flexibility, scalability, and cost savings. NFV enables organizations to dynamically allocate network resources, scale services on-demand, and rapidly deploy new network functions, all while reducing capital expenditures and operational costs. Additionally, NFV facilitates the adoption of cloud computing and software-defined networking (SDN) principles, enabling organizations to achieve greater agility and responsiveness in their network operations. As the telecommunications industry continues to evolve, with the proliferation of 5G networks, the Internet of Things (IoT), and edge computing, the demand for NFV solutions is expected to grow further. NFV

provides the necessary foundation for these emerging technologies, allowing for efficient network management, improved service delivery, and enhanced customer experiences. Furthermore, NFV enables telecommunications providers to offer innovative services and applications, such as virtualized network slicing and network-as-a-service (NaaS), which can cater to the evolving needs of businesses and consumers. To capitalize on the opportunities presented by the evolving telecommunications landscape, organizations are investing in comprehensive NFV solutions that can seamlessly integrate with existing network infrastructures and support a wide range of network functions. Vendors in the NFV market are focusing on developing advanced features, ensuring interoperability, and providing robust security and management capabilities to meet the diverse requirements of telecommunications providers. By embracing NFV, organizations can transform their network operations, drive innovation, and stay competitive in the dynamic telecommunications industry.

### Focus on Cost Efficiency and Network Optimization

The global Network Functions Virtualization (NFV) market is witnessing significant growth, driven by the increasing focus on cost efficiency and network optimization. Organizations across various industries are recognizing the potential of NFV to streamline their network operations, reduce costs, and enhance overall efficiency. Traditional network architectures, with their reliance on dedicated hardware appliances for network functions, often result in high capital expenditures and operational costs. In contrast, NFV offers a cost-effective alternative by virtualizing network functions and decoupling them from proprietary hardware. This virtualization enables organizations to optimize resource utilization, dynamically allocate network functions based on demand, and scale services on-demand, leading to significant cost savings. Additionally, NFV allows for the consolidation of multiple network functions onto a single platform, reducing the need for physical hardware and simplifying network management. By leveraging NFV, organizations can achieve greater operational efficiency, improve resource allocation, and minimize wastage. Furthermore, NFV enables network optimization by providing organizations with the flexibility to adapt to changing network requirements. With NFV, organizations can easily introduce new network services, scale their infrastructure to accommodate increased traffic, and quickly respond to evolving customer demands. This agility in network operations allows organizations to optimize their network performance, deliver services more efficiently, and enhance the overall user experience. As the demand for cost-efficient and optimized networks continues to grow, the NFV market is expected to expand further. Vendors in the NFV market are focusing on developing advanced features, ensuring interoperability, and providing comprehensive management and orchestration capabilities to meet the

diverse needs of organizations. By embracing NFV, organizations can achieve significant cost savings, improve network efficiency, and gain a competitive edge in their respective industries.

## Key Market Challenges

### Limited Awareness and Understanding of Network Functions Virtualization (NFV)

One of the primary challenges facing the global Network Functions Virtualization (NFV) market is the limited awareness and understanding among organizations regarding the potential benefits and applications of NFV technology. Many businesses may not fully grasp the significance of NFV in transforming network infrastructure and operations. This lack of awareness can lead to hesitation in adopting NFV solutions, leaving organizations at a disadvantage in terms of innovation and competitiveness. Addressing this challenge requires comprehensive educational initiatives to highlight the capabilities and advantages of NFV, showcasing real-world examples and case studies to foster a deeper understanding of its significance.

### Complexity of Implementation and Integration

The implementation and integration of NFV solutions can pose complex challenges for organizations, particularly those with limited technical expertise or resources. Configuring and deploying virtualized network functions effectively, and integrating them with existing network infrastructure and workflows, can be technically demanding. Compatibility issues may arise during integration, leading to delays and suboptimal performance. To address these challenges, it is crucial to simplify the deployment and management of NFV solutions. User-friendly interfaces and intuitive configuration options should be provided to streamline setup and customization. Additionally, organizations should have access to comprehensive support and guidance, including documentation, tutorials, and technical experts who can assist with integration and troubleshoot any issues. Simplifying these aspects of NFV implementation can lead to more efficient network operations and improved performance.

### Ensuring Security and Privacy

The global NFV market also faces challenges related to security and privacy considerations. As virtualized network functions become more prevalent in various industries, including telecommunications, finance, and transportation, there is a growing need to ensure the security and privacy of sensitive data and network communications.



Organizations must navigate evolving regulations and standards to address potential security vulnerabilities and privacy concerns. This challenge requires organizations to stay updated with the latest security practices and invest in robust security frameworks to protect against data breaches and unauthorized access. Collaboration between industry stakeholders, policymakers, and researchers is essential to establish guidelines and standards that promote responsible and secure use of NFV technology.

### Integration with Existing Network Infrastructure

Integrating NFV seamlessly with existing network infrastructure is a significant challenge for organizations. NFV technology often requires changes in network architecture and operations, which may disrupt established workflows and require network administrators to adapt to new ways of managing and maintaining the network. Organizations need to carefully plan and execute the integration process, ensuring minimal disruption and providing adequate training and support to network administrators. Collaboration between IT departments, network operations teams, and end-users is crucial to identify potential integration challenges and develop strategies to overcome them. By effectively integrating NFV into existing network infrastructure, organizations can unlock the full potential of this technology and drive efficiency gains and cost savings.

### Key Market Trends

#### Increased Awareness and Understanding

The global Network Functions Virtualization (NFV) market is witnessing a growing demand across industries as organizations become more familiar with the capabilities and potential applications of NFV technology. NFV offers a paradigm shift by enabling the virtualization of network functions that were traditionally performed by dedicated hardware. As organizations gain a better understanding of the benefits that NFV can offer, there is a growing recognition of its value in modernizing network infrastructures and enhancing operational efficiency. This has led to a surge in demand for NFV solutions in sectors such as telecommunications, data centers, and cloud computing. In the telecommunications industry, NFV can be used to virtualize network functions like firewalls and load balancers, improving agility and scalability. In data centers, NFV streamlines network management, reducing capital expenditures and operational complexities. As organizations continue to recognize the potential of NFV, the market is expected to expand further, with vendors focusing on developing advanced features and seamless integration with existing networks to meet the evolving needs of different industries.

## Complexity of Implementation and Integration

The implementation and integration of NFV solutions can present complexities for organizations due to the multifaceted nature of this technology. Successful NFV deployment requires meticulous planning, encompassing factors like compatibility with existing systems, scalability, and effective change management strategies. Organizations need to consider the impact on users and provide comprehensive training and support to facilitate the adoption of NFV-driven network paradigms. Adapting to these changes may require adjustments to network architecture, redefining operational processes, and ensuring interoperability with existing network elements. Organizations must assess the scalability requirements to accommodate growing network traffic and evolving service demands effectively. Effective change management and communication strategies are essential to ensuring a smooth transition and maximizing the benefits of NFV.

## Security and Privacy Considerations

Security and privacy considerations are paramount in the NFV landscape, as virtualized network functions may process sensitive data and communications. Organizations must prioritize robust security measures to protect against potential threats and breaches. This includes implementing encryption protocols, access controls, and rigorous security testing. Maintaining updated software and firmware to address vulnerabilities is crucial. Furthermore, organizations should establish clear data privacy policies and seek user consent for data collection and processing activities. Compliance with data protection regulations such as GDPR is essential. Regular audits and reviews of data handling practices help ensure ongoing compliance and build trust with users.

## Integration with Existing Network Infrastructures

Seamless integration of NFV with existing network infrastructures is a prominent trend in the global market. Organizations across various industries recognize the potential of NFV to enhance network efficiency and productivity. By integrating NFV into existing workflows, organizations can streamline processes, improve collaboration, and enable more intuitive interactions with network functions. NFV simplifies complex tasks by offering intuitive interfaces and automation capabilities. This eliminates the need for dedicated hardware and traditional network configurations, making network management more efficient. For example, in the telecommunications industry, NFV allows operators to virtualize network functions and dynamically allocate resources,

improving service delivery and scaling capabilities. As organizations seek ways to optimize their network infrastructure while maintaining compatibility with existing systems, the integration of NFV is expected to continue as a significant trend in the market, promoting network efficiency and agility across various sectors.

## Segmental Insights

### Component Insights

The solution segment has accounted for a notable revenue share of 74.1% in 2021 and is expected to keep dominating during the forecast period. Its growth can be attributed to the increasing adoption of virtualization and automation technologies. The growing demand for mobility services and the growing importance of enterprises in reducing operating costs with NFV are expected to significantly drive the growth.

The solution includes orchestration and automation and other components such as virtual infrastructure managers, software-defined networking (SDN) controllers, NFV orchestrator, and wide area network (WAN) configurations. The primary purpose of orchestration is to automate and enhance the creation of network services through virtualized network capabilities (VNF), scaling, self-healing, and resource lifecycle management of network services.

Without a cross-domain network orchestra, VNF interacts with the service orchestrator. Due to the ease and importance of orchestration and automation, their use is widely observed, especially if there is no vendor lock-in and the solution is customized and marketed.

### End-user Insights

The service provider segment accounted for the largest revenue share of 46.4% in 2021 and is expected to witness substantial growth over the forecast period. Increasing data diversity and volume, connectivity for IoT / M2M devices, and rising adoption of smartphones leading to higher data consumption per user are putting significant pressure on the service providers' network infrastructure. This enables the service providers to add capacity to meet this growing demand quickly.

However, current network architectures consist of expensive hardware-based devices with tightly embedded software. This not only makes the network robust and fragmented but also limits scalability and makes it expensive. Therefore, the NFV transforms the



network architecture to provide applications with real-time visibility into the network. Applications can program the network as needed to help create a flexible infrastructure to meet changing needs.

The enterprise segment is expected to grow at a CAGR of 24.9% during the forecast period 2022-2030 in the global network functions virtualization industry. Enterprise customers are ready to adopt NFV because it offers significant benefits such as centralized management for network efficiency, IT agility, and fast and reliable application services for network adaptation. Enterprise end-users are divided into banking, financial services and insurance (BFSI), hospitality, transportation and logistics, manufacturing, healthcare, education, retail, energy and utilities, transportation and logistics, media and entertainment, and others. In this scenario, the NFV deployment is widespread in the BFSI, manufacturing, and healthcare industries.

### Application Insights

The virtual appliance segment led the entire market in 2021, accounting for 56.9% of the total revenue share, and is expected to witness substantial growth over the forecast period. Virtual appliances primarily include a variety of network operations such as traffic forwarding, monitoring, security, caching, intrusion detection systems, and domain name services. These operations are primarily sent over the edge via the Virtual Customer Home Appliance (VCPe). This has allowed enterprises to streamline their networks' complexity; thus, the segment is expected to show decent momentum over the next few years.

The core network segment is expected to grow at a CAGR of 24.9% during the forecast period 2022-2030 in the global industry. Increasing complexity in complex networks and increasing demand for network virtualization and automation are driving the growth of this segment. The core network mainly includes network operations such as traffic forwarding, security monitoring, domain name services, and intrusion detection systems.

These operations are primarily sent over the edge through the virtual developed packet core, which has significantly impacted the organization to streamline network complexity. Due to the benefits of the core network segment, few NFV solution providers are heavily investing in the R & D of NFV for core networks to make it better and more affordable for SMEs. This is expected to support the segment's rapid growth during the forecast period.

## Regional Insights

North America held the leading revenue share of approximately 31.2% in 2021. The growth is supported by the growing adoption of technologies such as Software Defined Everything (SDx), cloud computing, and IoT. The high degree of industrialization of countries such as the United States and Canada has been a positive factor in the rapid growth of various industries. North American countries have favorable standards and regulations that help drive the growth of the NFV industry.

There are numerous NFV infrastructure providers in North America, including Juniper Networks, IBM Corporation, Cisco, and Extreme Networks. It is also a potential investment industry and opens up new opportunities for adopting NFV infrastructure. As 5G deployments increase, NFV adoption in the region will increase. However, with NFV, the control of the entire network is left to the controller. Therefore, deployment would require various organizational, functional, and cultural changes.

Asia Pacific is expected to experience rapid growth over the forecast period. The growth is driven primarily by the increasing adoption of technologies such as Software Defined Everything (SDx), cloud computing, and the IoT. Furthermore, the region consists of countries such as China, India, and Japan which in addition leads to the expansion of the subscriber base, favorable government policies and regulations, and the demand for more data storage and security across the region, which is expected to drive the growth.

## Key Market Players

Cisco Systems, Inc.

VMware, Inc.

Nokia Corporation

Huawei Technologies Co., Ltd.

Ericsson AB

Juniper Networks, Inc.

Hewlett Packard Enterprise Development LP

NEC Corporation

Dell Technologies Inc.

IBM Corporation

Oracle Corporation

Red Hat, Inc.

Intel Corporation

Report Scope:

In this report, the Global Network Functions Virtualization Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Network Functions Virtualization Market, By Component:

Solutions

Services

Network Functions Virtualization Market, By Organization Size:

Small & Medium Enterprises

Large Enterprises

Network Functions Virtualization Market, By End-user:

Service Providers

Data Centers

Banking Financial Services and Insurance (BFSI)

Healthcare

Retail

Manufacturing

Government and Defense

Education

Others

Network Functions Virtualization Market, By Application:

Virtual Appliance

Core Network

Network Functions Virtualization Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey



Israel

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Global Network Functions Virtualization Market.

## Available Customizations:

Global Network Functions Virtualization market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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