

# **Network Slicing Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Platform and Services), By End User (Telecom Operators and Enterprises), By Application (Manufacturing, Government, Automotive, Media and Entertainment), By Region, By Competition, 2018-2028**

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## **Abstracts**

Global Network Slicing Market was valued at USD 521.23 Million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 50.61% through 2028. The Global Network Slicing Market is currently experiencing a remarkable surge in growth, driven by the ever-increasing demand for efficient and customized network services in our interconnected and digitally-driven world. Network slicing, renowned for its ability to create tailored and high-performance network segments, is revolutionizing how industries meet the diverse connectivity needs of their applications and services. This exploration delves into the transformative impact of network slicing across various sectors, emphasizing the critical role it plays in delivering adaptable and trust-enabling solutions in an era where network performance is paramount. Unquestionably, network slicing has emerged as a game-changer in the domain of network management and service delivery. In a landscape where a multitude of applications and devices require distinct network characteristics, the need for flexible and responsive solutions has never been more pronounced. Network slicing offers a comprehensive approach, allowing for the creation of dedicated network segments with precise performance parameters. These slices can cater to diverse requirements, from ultra-reliable low-latency communication (URLLC) for critical applications to massive machine-type communication (mMTC) for IoT devices.

One of the primary drivers for the widespread adoption of network slicing is the

imperative of delivering optimal network performance and meeting the unique demands of various use cases. Industries, including manufacturing, healthcare, transportation, and entertainment, are recognizing that a one-size-fits-all network approach is no longer sufficient. Network slicing empowers organizations to allocate network resources dynamically, ensuring that mission-critical applications receive the bandwidth, latency, and reliability they require. Moreover, network slicing addresses the challenge of efficiently managing and optimizing network resources. With the growing complexity of network infrastructures and the emergence of 5G technology, network operators face the need to efficiently allocate resources to multiple services and users. Network slicing provides a granular approach to resource allocation, enabling operators to optimize their networks and maximize resource utilization.

The importance of network security and reliability cannot be overstated in today's digital landscape. Network slicing prioritizes security and service isolation, ensuring that critical applications are protected from potential network disruptions or security breaches. This focus on trust-building measures enhances user confidence and strengthens the reputation of network service providers. In conclusion, the Global Network Slicing Market is at the forefront of a profound transformation driven by the imperative of delivering superior network performance and meeting the diverse connectivity needs of our digital world. Network slicing is redefining how industries manage their network resources, offering unparalleled customization, resource optimization, and security. As the digital landscape continues to evolve, the pivotal role of network slicing in shaping a more responsive and trustworthy network experience is undeniable, fostering innovation and elevating the world of network connectivity.

#### Key Market Drivers:

##### Accelerated 5G Deployment and IoT Growth:

The accelerated deployment of 5G networks and the rapid proliferation of the Internet of Things (IoT) are powerful catalysts driving the Global Network Slicing Market. These technologies are ushering in a new era of connectivity, and network slicing is emerging as a fundamental enabler of their full potential.

5G technology promises ultra-high-speed data transfer, extremely low latency, and massive device connectivity. It's not just an evolution of existing networks but a revolutionary shift that unlocks opportunities across various industries. Network slicing allows network operators to partition their 5G infrastructure into multiple virtual networks, each customized to support specific use cases. One slice, for instance, could

be dedicated to autonomous vehicles, ensuring low latency and uninterrupted connectivity, while another might cater to smart factories with stringent quality-of-service requirements. The ability to tailor network resources to the exact needs of diverse applications is a key driver in the adoption of network slicing. IoT is experiencing explosive growth, with billions of devices, sensors, and machines getting connected to the internet. These IoT devices have diverse communication needs, ranging from small, infrequent data transfers to constant, high-throughput connections. Network slicing allows IoT networks to be partitioned, optimizing resource allocation for different types of IoT applications. For example, in a smart city, one network slice can prioritize traffic management systems, while another focuses on environmental sensors. This flexibility ensures that IoT devices can operate efficiently without straining network resources, fostering IoT adoption and innovation.

#### Industry-Specific Use Cases and Vertical Markets:

Network slicing is gaining traction due to its ability to cater to industry-specific use cases and vertical markets. Various sectors, including manufacturing, healthcare, transportation, and entertainment, are recognizing the transformative potential of network slicing to address their unique connectivity requirements.

In the manufacturing sector, Industry 4.0 initiatives rely on real-time data exchange, robotics, and automation. Network slicing can provide dedicated, low-latency slices to enable seamless communication between machines, improving production efficiency and quality control. It supports the evolution of smart factories, where every component is interconnected and responsive.

The healthcare industry increasingly relies on telemedicine, remote monitoring, and data-intensive applications. Network slicing ensures that healthcare professionals have access to reliable, high-bandwidth connections for telehealth consultations, while also securing sensitive patient data. This enhances the quality of care and patient outcomes.

In transportation and smart city projects, network slicing facilitates the deployment of intelligent traffic management systems, autonomous vehicles, and efficient public transportation networks. It helps reduce congestion, enhance safety, and improve the overall urban experience.

#### Demand for Customized and Secure Services:

The demand for customized and secure network services is a significant driver in the

Network Slicing Market. Businesses and consumers increasingly expect personalized and secure network experiences tailored to their specific needs.

Network slicing allows telecom operators and service providers to offer differentiated services with varying levels of performance. This enables businesses to prioritize mission-critical applications, like real-time video conferencing or cloud-based services, by dedicating slices with guaranteed quality of service. Consumers, too, benefit from tailored network packages that align with their usage patterns and preferences.

Network slicing enhances network security by isolating traffic and resources within individual slices. This isolation minimizes the risk of security breaches and ensures that sensitive data remains protected. As cybersecurity concerns continue to grow, the ability to offer secure network slices is a compelling selling point for service providers and enterprises. In summary, the Global Network Slicing Market is being propelled by the rapid expansion of 5G and IoT, industry-specific use cases, and the increasing demand for customized and secure network services. These driving factors are reshaping how network resources are allocated, offering flexibility, performance optimization, and enhanced security across a wide range of applications and verticals.

## Key Market Challenges

### Data Privacy and Security Concerns:

Certainly, here are three significant challenges in the Global Network Slicing Market, with each challenge discussed in detail: One of the primary challenges facing the Global Network Slicing Market is the lack of standardized approaches and interoperability concerns. Network slicing involves the creation of multiple virtual networks within a shared physical infrastructure, each tailored to specific requirements. However, achieving seamless interoperability and consistent performance across these slices remains a complex endeavor.

Network operators often deploy a mix of technologies, including 4G, 5G, and legacy systems. Integrating network slicing capabilities across this heterogeneous landscape can be challenging. Standardization efforts are underway, but achieving a unified framework that works seamlessly across various network generations and vendor-specific solutions is an ongoing struggle.

Interoperability between different vendors' equipment and solutions is a crucial concern. Network operators often source equipment from multiple vendors, and ensuring that

network slicing functions consistently across these diverse elements is a significant challenge. Without standardized interfaces and protocols, achieving true interoperability becomes a hurdle.

Another issue related to interoperability is seamless handovers between network slices. For applications like autonomous vehicles or mobile gaming, where uninterrupted connectivity is critical, ensuring a smooth transition as a user moves between slices or networks is vital. Inconsistent handovers can lead to service disruptions and user dissatisfaction. Addressing these standardization and interoperability challenges is essential to realizing the full potential of network slicing and providing a consistent, high-quality experience to users and businesses across different network environments.

#### Resource Allocation and Optimization:

Efficient resource allocation and optimization are critical for the success of network slicing but are also significant challenges.

Network slicing relies on the dynamic allocation of network resources, such as bandwidth, computing power, and radio spectrum. Coordinating these resources in real-time to meet the varying demands of multiple slices, each with unique service requirements, can be complex. Inefficient resource allocation can lead to underutilized capacity or degraded service quality.

Ensuring strict isolation between network slices is essential to prevent resource contention. For example, a mission-critical application should not suffer from performance degradation due to resource sharing with a less critical slice. Balancing resource allocation to maintain isolation while optimizing utilization presents a significant challenge.

To address resource allocation challenges, operators need advanced monitoring and optimization tools. These tools must provide real-time visibility into network performance, predict resource demands, and make automatic adjustments. Developing and implementing such tools can be resource-intensive. The challenge lies in creating dynamic resource allocation mechanisms that can adapt to changing network conditions and user demands while ensuring efficient utilization and maintaining the required quality of service.

#### Security and Privacy Concerns:

Security and privacy are paramount in the Network Slicing Market, but they present substantial challenges due to the multi-tenant nature of network slicing.

Ensuring robust isolation between network slices is essential to prevent unauthorized access or interference. A security breach in one slice should not compromise the integrity of others. Implementing and maintaining this level of isolation in a shared network infrastructure can be complex. Network slicing involves handling data from various applications and services, each with distinct data privacy requirements. Ensuring compliance with data protection regulations, such as GDPR, HIPAA, or industry-specific standards, is a challenge. Service providers must adopt stringent data handling and storage practices to protect user information adequately. Maintaining the security of network slicing environments requires prompt patching and updates to address vulnerabilities. However, applying updates across multiple slices without disrupting services or causing compatibility issues is a delicate balancing act. Overcoming these security and privacy challenges is crucial to building trust among users and businesses relying on network slicing for their connectivity needs. It requires robust security measures, effective isolation mechanisms, and adherence to data protection regulations. Additionally, collaboration among stakeholders in the ecosystem is essential to address these challenges effectively.

## Key Market Trends

### Industry-Specific Network Slicing for Vertical Markets:

A prominent trend in the Global Network Slicing Market is the growing adoption of industry-specific network slicing solutions to cater to the unique connectivity needs of various vertical markets. As industries increasingly rely on customized and highly optimized network services, network slicing is evolving to deliver tailored solutions across diverse sectors such as manufacturing, healthcare, transportation, and entertainment.

In manufacturing, Industry 4.0 initiatives are driving the demand for ultra-reliable, low-latency network slices to support real-time data exchange, robotics, and automation. These slices enable seamless communication between machines and improve production efficiency and quality control. Network slicing empowers smart factories where every component is interconnected and responsive, contributing to the evolution of manufacturing processes.

The healthcare industry is embracing network slicing to ensure that telemedicine,

remote monitoring, and data-intensive applications operate flawlessly. Dedicated slices guarantee high-bandwidth connections for telehealth consultations, while also safeguarding sensitive patient data. This level of customization enhances the quality of care, fosters remote patient monitoring, and improves overall patient outcomes.

Transportation and smart city projects are leveraging network slicing to deploy intelligent traffic management systems, support autonomous vehicles, and enhance public transportation networks. By partitioning networks, network slicing reduces congestion, enhances safety, and optimizes urban mobility, contributing to more efficient and sustainable cities. This trend underscores the versatility and adaptability of network slicing to meet the distinct requirements of various industries, enhancing their connectivity infrastructure and fostering innovation.

#### Network Slicing for 5G Monetization and Edge Computing:

The rollout of 5G networks is driving another significant trend in the Global Network Slicing Market, as network operators seek to monetize their investments in 5G infrastructure and harness the power of edge computing.

Network operators are exploring innovative monetization strategies through network slicing. They offer specialized slices to enterprises and service providers, enabling them to offer new and differentiated services. For example, they can provide low-latency slices for augmented reality (AR) and virtual reality (VR) experiences, enabling immersive gaming and remote collaboration.

Network slicing is integral to the integration of edge computing with 5G networks. Edge computing relies on the proximity of computing resources to the data source, reducing latency for time-sensitive applications. Network slicing allows operators to allocate edge resources dynamically, ensuring that critical applications benefit from the low-latency edge while optimizing resource utilization.

The concept of Network-as-a-Service (NaaS) is gaining traction as operators package network slices and associated services into subscription-based offerings. This approach allows enterprises to access slices tailored to their specific needs without the burden of managing network infrastructure. NaaS simplifies network provisioning, scaling, and management, enhancing the agility of businesses. This trend showcases the synergy between 5G, network slicing, and edge computing, enabling new revenue streams for network operators and empowering enterprises with advanced connectivity capabilities.

## AI-Driven Network Slicing Optimization:

Artificial Intelligence (AI) and Machine Learning (ML) are playing a pivotal role in optimizing network slicing performance and resource allocation, representing a significant trend in the Global Network Slicing Market. AI-driven algorithms analyze real-time network data and user behavior to allocate network resources dynamically. This ensures efficient utilization of resources while meeting the Quality of Service (QoS) requirements of network slices. For instance, AI can allocate more bandwidth to slices with high data demand during peak usage periods.

AI-powered predictive maintenance and fault detection enhance network reliability. By continuously monitoring network performance and identifying potential issues, AI algorithms can proactively address problems before they impact service quality. This trend minimizes downtime and enhances the overall network experience.

AI-driven solutions facilitate end-to-end lifecycle management of network slices. They automate provisioning, scaling, and optimization processes, reducing operational overhead and accelerating service deployment. AI also aids in predictive scaling, ensuring that network resources are allocated efficiently to accommodate varying workloads. This trend reflects the industry's recognition of the transformative potential of AI and ML in enhancing the performance and efficiency of network slicing, making it a key driver of innovation in the telecommunications sector. In summary, the Global Network Slicing Market is characterized by trends such as industry-specific slicing, 5G monetization with edge computing, and AI-driven optimization. These trends underscore the versatility, revenue potential, and technological advancements in the network slicing ecosystem, making it a pivotal element in the evolution of digital connectivity and service delivery.

## Segmental Insights

### Component Insights

The platform segment is the dominating segment in the global network slicing market by component.

The network slicing platform segment includes software and hardware solutions that enable service providers to create and manage multiple virtual networks over a shared physical infrastructure. Network slicing platforms provide a variety of features and capabilities, such as: Network resource management: Network slicing platforms enable



service providers to manage their network resources efficiently and dynamically. This allows them to allocate resources to different network slices based on their specific needs. Network slicing platforms enable service providers to guarantee QoS for each network slice. This is important for ensuring that critical applications and services receive the resources they need to perform optimally. Network slicing platforms provide security and isolation between different network slices. This helps to protect each network slice from unauthorized access and attacks.

## Regional Insights

**Early adoption of 5G:** North America is one of the early adopters of 5G technology. 5G is a key enabler of network slicing, and its early adoption in North America is driving the growth of the network slicing market in the region.

**High demand for network slicing:** North American businesses and consumers have a high demand for network slicing. This is because network slicing can enable them to deliver and access new and innovative services with the required performance and reliability.

**Presence of leading network slicing vendors:** North America is home to some of the leading network slicing vendors in the world, such as Cisco, Ericsson, and Nokia. These vendors offer comprehensive network slicing solutions that meet the needs of a wide range of customers.

## Key Market Players

Ericsson AB

Nokia Corporation

Huawei Technologies Co., Ltd.

Samsung Electronics Co., Ltd.

ZTE Corporation

Cisco Systems, Inc

Affirmed Networks

NEC Corporation

VMware, Inc.

Report Scope:

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

Network Slicing Market, By Component:

Platform

Services

Network Slicing Market, By End User:

Telecom Operators

Enterprises

Network Slicing Market, By Application:

Manufacturing

Government

Automotive

Media and Entertainment

Network Slicing 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 Slicing Market.

## Available Customizations:

Global Network Slicing 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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  - 15.1.1. Business Overview
  - 15.1.2. Key Revenue and Financials
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel/Key Contact Person
  - 15.1.5. Key Product/Services Offered
- 15.2. Nokia Corporation
  - 15.2.1. Business Overview
  - 15.2.2. Key Revenue and Financials
  - 15.2.3. Recent Developments
  - 15.2.4. Key Personnel/Key Contact Person
  - 15.2.5. Key Product/Services Offered
- 15.3. Huawei Technologies Co., Ltd.
  - 15.3.1. Business Overview
  - 15.3.2. Key Revenue and Financials

- 15.3.3. Recent Developments
- 15.3.4. Key Personnel/Key Contact Person
- 15.3.5. Key Product/Services Offered
- 15.4. Samsung Electronics Co., Ltd.
  - 15.4.1. Business Overview
  - 15.4.2. Key Revenue and Financials
  - 15.4.3. Recent Developments
  - 15.4.4. Key Personnel/Key Contact Person
  - 15.4.5. Key Product/Services Offered
- 15.5. ZTE Corporation
  - 15.5.1. Business Overview
  - 15.5.2. Key Revenue and Financials
  - 15.5.3. Recent Developments
  - 15.5.4. Key Personnel/Key Contact Person
  - 15.5.5. Key Product/Services Offered
- 15.6. Cisco Systems, Inc
  - 15.6.1. Business Overview
  - 15.6.2. Key Revenue and Financials
  - 15.6.3. Recent Developments
  - 15.6.4. Key Personnel/Key Contact Person
  - 15.6.5. Key Product/Services Offered
- 15.7. Affirmed Networks
  - 15.7.1. Business Overview
  - 15.7.2. Key Revenue and Financials
  - 15.7.3. Recent Developments
  - 15.7.4. Key Personnel/Key Contact Person
  - 15.7.5. Key Product/Services Offered
- 15.8. NEC Corporation
  - 15.8.1. Business Overview
  - 15.8.2. Key Revenue and Financials
  - 15.8.3. Recent Developments
  - 15.8.4. Key Personnel/Key Contact Person
  - 15.8.5. Key Product/Services Offered
- 15.9. VMware, Inc.
  - 15.9.1. Business Overview
  - 15.9.2. Key Revenue and Financials
  - 15.9.3. Recent Developments
  - 15.9.4. Key Personnel/Key Contact Person
  - 15.9.5. Key Product/Services Offered

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

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