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Network Slicing Management Market Forecasts to 2032 - Global Analysis By Component (Software and Services), Network Type, Organization Size, Deployment Model, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Network Slicing Management Market is accounted for $812.8 million in 2025 and is expected to reach $3663.9 million by 2032 growing at a CAGR of 24% during the forecast period. Network Slicing Management refers to the end-to-end control, orchestration, and optimization of multiple virtual network slices operating on a shared physical network infrastructure. It enables service providers to create, configure, monitor, scale, and terminate network slices tailored to specific service requirements such as latency, bandwidth, reliability, and security. Using software-defined networking (SDN), network functions virtualization (NFV), and automation, network slicing management ensures isolation between slices while efficiently allocating resources. It supports diverse use cases including enhanced mobile broadband, massive IoT, and ultra-reliable low-latency communications, enabling flexible, efficient, and service-aware network operations in 5G and beyond.

Market Dynamics:

Driver:

Growing 5G network deployments globally

Telecom operators are under pressure to deliver differentiated services across industries without compromising performance. Network slicing enables dynamic allocation of resources for IoT, enterprise, and consumer applications. Vendors are embedding AI-driven orchestration into slicing frameworks to strengthen scalability.

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Rising demand for ultra-reliable low-latency communication is reinforcing adoption. Slicing is becoming a critical enabler of 5G monetization strategies. As global rollouts intensify, slicing management demand is propelling growth in telecom ecosystems.

Restraint:

Lack of skilled network management professionals

The shortage of expertise in handling multi-domain slicing environments creates operational bottlenecks for telecom providers. Smaller carriers face greater challenges compared to incumbents with established technical teams. Training programs and certifications require substantial investment which slows deployment timelines. Vendors are embedding automation and self-learning tools to reduce reliance on specialized expertise. Rising demand for advanced slicing capabilities amplifies the skills gap. Limited availability of professionals is restraining widespread adoption despite strong demand for slicing solutions.

Opportunity:

Adoption in autonomous vehicle networks

Connected cars increasingly require ultra-reliable low-latency communication to support navigation and safety systems. Network slicing enables dedicated bandwidth allocation for vehicle-to-everything (V2X) communication. Vendors are embedding slicing frameworks into automotive ecosystems to strengthen scalability and resilience. Governments and enterprises are investing in smart mobility infrastructure which reinforces demand. SMEs and startups benefit from cost-effective slicing solutions tailored to automotive networks. Adoption in autonomous vehicle ecosystems is fostering significant growth opportunities in slicing management.

Threat:

Security and data privacy concerns

Slicing environments generate sensitive traffic data that must be safeguarded against breaches. Enterprises face rising compliance costs due to mandates such as GDPR and CCPA. Smaller providers struggle to implement robust cybersecurity frameworks compared to established telecom giants. Frequent cyberattacks undermine trust in

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slicing ecosystems and slow scalability. Vendors must continuously update encryption, monitoring, and access control features to sustain confidence. Rising privacy and security concerns are restraining confidence and threatening consistent growth in slicing management.

Covid-19 Impact:

The Covid-19 pandemic accelerated demand for slicing management as operators faced surging traffic loads from remote work and digital-first lifestyles. On one hand, supply chain disruptions delayed infrastructure projects and slowed deployments. On the other hand, rising demand for resilient and self-healing networks boosted adoption of slicing platforms. Enterprises increasingly relied on slicing to ensure continuity during peak usage. Vendors embedded predictive monitoring and remote orchestration features to strengthen resilience. The pandemic reinforced the importance of slicing in sustaining telecom reliability. Overall, Covid-19 boosted awareness of slicing management as a strategic enabler of 5G modernization.

The telecom service providers segment is expected to be the largest during the forecast period

The telecom service providers segment is expected to account for the largest market share during the forecast period, driven by demand for differentiated services across consumer and enterprise applications. Operators increasingly rely on slicing to strengthen efficiency and monetize 5G investments. Vendors are embedding orchestration tools to improve scalability and reduce downtime. Rising demand for hybrid and multi-cloud governance is reinforcing adoption in this segment. Telecom providers view slicing as critical for competitive differentiation. As global 5G rollouts expand, service providers are accelerating growth in slicing management.

The edge & cloud networks segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the edge & cloud networks segment is predicted to witness the highest growth rate, supported by rising demand for distributed infrastructures. Enterprises increasingly require slicing to strengthen efficiency in cloud-native and edge environments. Vendors are embedding AI-driven orchestration into slicing frameworks to improve scalability. Rising investment in edge computing and hybrid cloud transformation is reinforcing demand in this segment. SMEs and hyperscalers benefit from cost-effective slicing solutions tailored to distributed ecosystems. As edge and

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cloud networks expand globally, slicing management is propelling growth in telecom infrastructure.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share by mature telecom infrastructure, strong regulatory frameworks, and early adoption of slicing technologies. Operators in the United States and Canada are leading investments in AI-driven orchestration to manage 5G rollouts. The presence of major cloud providers and telecom vendors further strengthens regional dominance. Rising demand for differentiated services across industries is reinforcing adoption.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by rapid urbanization, expanding mobile penetration, and government-led digital initiatives. Countries such as China, India, and Southeast Asia are investing heavily in slicing platforms to support 5G deployments and smart city ecosystems. Local operators are adopting cost-effective slicing frameworks to strengthen scalability and meet consumer demand. Startups and regional vendors are deploying tailored solutions to accelerate adoption in diverse markets. Government programs promoting digital transformation and connectivity are reinforcing demand. Asia Pacific?s urban expansion and digital modernization are propelling growth in slicing management.

Key players in the market

Some of the key players in Network Slicing Management Market include Cisco Systems, Inc., Nokia Corporation, Huawei Technologies Co., Ltd., Telefonaktiebolaget LM Ericsson, Juniper Networks, Inc., Hewlett Packard Enterprise Company (HPE), IBM Corporation, NEC Corporation, Netcracker Technology Corporation, VMware, Inc., Amdocs Limited, Ciena Corporation, Comarch S.A., Infosys Limited, Capgemini SE.

Key Developments:

In February 2024, Huawei launched its "Intelligent 5G Core" solution, which deeply integrates AI with network slicing management to enable dynamic, intent-based slice lifecycle management and automated fault recovery. This product enhancement was designed to help operators monetize 5G slices more efficiently for B2B markets.

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In June 2023, Nokia partnered with Vodafone to demonstrate 5G network slicing for smartphone users at Roland-Garros, allowing subscribers to purchase a slice guaranteeing high-quality video streaming and connectivity. This collaboration utilized Nokia's Network Slicing and NetGuard software to manage and assure the dedicated slice on Vodafone?s live commercial network in Spain.

Components Covered:

- Software
- Services

Network Types Covered:

- 4G/LTE Networks
- 5G Networks
- Edge & Cloud Networks
- Enterprise Networks
- Other Network Types

Deployment Models Covered:

- On-Premise
- Cloud-Based

Organization Sizes Covered:

- Small & Medium Enterprises (SMEs)
- Large Enterprises

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End Users Covered:

- Telecom Service Providers
- Cloud Service Providers & Hyperscalers
- Enterprises (IT, Manufacturing, Retail, Healthcare)
- Government & Public Sector Organizations
- Media & Entertainment Companies
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe

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- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
- South America
  - Argentina
  - Brazil
  - Chile
  - Rest of South America
- Middle East & Africa
  - Saudi Arabia
  - UAE
  - Qatar
  - South Africa
  - Rest of Middle East & Africa

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What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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