

Network Automation Market Forecasts to 2034 – Global Analysis By Component (Solutions, and Services), Deployment Mode (Cloud, and On-Premises), Network Type (Physical Networks, Virtual Networks, and Hybrid Networks), Function, Enterprise Size, End User, and By Geography

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Abstracts

According to Statistics MRC, the Global Network Automation Market is accounted for \$16.5 billion in 2026 and is expected to reach \$82.4 billion by 2034 growing at a CAGR of 22.2% during the forecast period. Network automation refers to the use of software and technologies to automate the configuration, management, provisioning, and operation of network devices and services. These solutions reduce manual intervention, improve operational efficiency, and minimize human errors in network management. The market encompasses cloud-based and on-premises deployment models, serving physical, virtual, and hybrid network environments. Growing network complexity, increasing adoption of software-defined networking, and rising demand for agile, scalable network infrastructure are key drivers of market expansion.

Market Dynamics:

Driver:

Increasing network complexity and demand for operational efficiency

The rapid growth of cloud computing, IoT devices, and distributed workforces has created unprecedented network complexity, driving demand for automation solutions. Modern networks consist of physical devices, virtual functions, and cloud-based

services that are increasingly difficult to manage manually. Network automation reduces the risk of human error, accelerates deployment times, and improves overall network reliability. Organizations are adopting automation to reduce operational costs, enhance agility, and respond quickly to changing business requirements. As digital transformation accelerates and enterprise networks become more complex, network automation adoption continues growing across all industry verticals.

Restraint:

Integration challenges with legacy infrastructure

Significant integration challenges with existing legacy infrastructure represent a major restraint for network automation market growth. Many organizations operate heterogeneous environments combining legacy network hardware, modern software-defined networking, and cloud-based services. Integrating automation solutions with older devices lacking programmatic interfaces requires substantial customization and legacy system upgrades. Migration from manual to automated operations demands significant investment in staff training and process redesign. Organizations may face resistance from network teams concerned about job displacement. High upfront implementation costs and extended integration timelines may slow adoption, particularly among smaller organizations with limited IT budgets.

Opportunity:

Integration with AI and intent-based networking

The integration of artificial intelligence with network automation presents substantial opportunities for market expansion. AI-powered automation solutions enable predictive analytics, automated troubleshooting, and self-healing networks that reduce human intervention. Intent-based networking translates business objectives into network configurations, automating policy enforcement and compliance. Machine learning algorithms analyze network data to identify patterns, predict failures, and optimize performance. These intelligent automation capabilities reduce operational costs and improve service reliability. As organizations demand more agile and intelligent network infrastructure, AI-integrated automation solutions capture growing market share.

Threat:

Security concerns and compliance requirements

Security vulnerabilities associated with automated network management pose significant threats to the network automation market. Automated systems that misconfigure networks can introduce security gaps, potentially exposing organizations to cyber threats. Centralized automation platforms represent attractive attack targets, with compromised credentials potentially affecting entire network infrastructures. Compliance with data protection regulations and industry standards requires careful configuration and continuous monitoring of automated processes. Security validation of third-party automation tools adds operational burden. These security and compliance concerns may lead risk-averse organizations to maintain manual oversight, limiting automation adoption.

Covid-19 Impact:

The COVID-19 pandemic accelerated network automation adoption globally. Remote work requirements forced organizations to rapidly scale and secure network infrastructure, with automation enabling faster deployment of VPNs, SD-WAN, and zero-trust security frameworks. IT teams managing remote connectivity challenged traditional manual processes, driving automation investment. Digital transformation initiatives were prioritized to enable business continuity. Post-pandemic, hybrid work models have sustained elevated demand for network automation as organizations maintain distributed workforces. The crisis permanently raised awareness of automation benefits, establishing network automation as a strategic priority for future IT operations.

The Cloud segment is expected to be the largest during the forecast period

The Cloud segment is expected to account for the largest market share during the forecast period, driven by advantages in scalability, accessibility, and reduced IT overhead. Cloud-based network automation eliminates upfront hardware investments and ongoing maintenance costs, converting capital expenditure to predictable operational expense. Automatic updates ensure users access latest features without version management burdens. Remote accessibility enables network teams to manage infrastructure from anywhere, supporting distributed workforces. Integration with cloud-native services and platforms is seamless. As organizations prioritize flexibility and cost efficiency, cloud-based network automation solutions dominate market share.

The Hybrid Networks segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Hybrid Networks segment is predicted to witness the highest growth rate, fueled by enterprises maintaining a mix of physical and virtual infrastructure across on-premises and cloud environments. Hybrid networks combine physical network devices with virtualized network functions, creating complexity that drives automation demand. Organizations require unified management across these diverse environments to ensure consistent policy enforcement, performance optimization, and security. As hybrid IT adoption becomes standard enterprise practice, network automation tailored for heterogeneous environments grows at exceptionally high rates.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, supported by early technology adoption, strong enterprise IT investment, and the presence of major network automation vendors. The region's advanced digital infrastructure and technology leadership create favorable conditions for network automation adoption. Organizations across BFSI, healthcare, technology, and telecommunications sectors invest heavily in network modernization. Government initiatives promoting digital infrastructure and cybersecurity further support market growth. With strong innovation ecosystems and continuous technology investment, North America maintains its dominant market position.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by rapid digital transformation, expanding cloud adoption, and growing enterprise IT investment. Countries including China, India, Australia, and Southeast Asia are experiencing network modernization as organizations embrace SD-WAN, cloud networking, and automation. The region's large enterprise base and expanding technology workforce create substantial addressable market. Government digital economy initiatives support technology adoption. As organizations seek to improve operational efficiency and network agility, Asia Pacific delivers the fastest network automation market growth globally.

Key players in the market

Some of the key players in Network Automation Market include Cisco Systems, Inc., Juniper Networks, Inc., Nokia Corporation, Telefonaktiebolaget LM Ericsson, Huawei Technologies Co., Ltd., International Business Machines Corporation, VMware, Inc.,

Broadcom Inc., NetBrain Technologies, Inc., BlueCat Networks Inc., Forward Networks, Inc., Gluware, Inc., Irtential, LLC, Micro Focus International plc, SolarWinds Corporation, Anuta Networks International LLC, Apstra, Inc., and Riverbed Technology, LLC.

Key Developments:

In March 2026, Hershey officially launched a unified domestic commercial framework titled 'ONE Hershey,' merging its historically siloed Sweet, Salty, and Protein brand portfolios into a single, integrated go-to-market structure to optimize retail distribution and product execution.

In February 2026, Mars joined other global confectionery giants to formally incorporate the TogetherCocoa foundation in Geneva, Switzerland, to establish a collaborative infrastructure focusing on sustainable sourcing and agricultural supply chain resilience.

In February 2026, Lindt & Sprüngli signed on as a founding corporate member to incorporate the cross-industry TogetherCocoa framework in Geneva.

In February 2026, Mondelez partnered with industry peers to structurally establish the TogetherCocoa foundation in Geneva, centralizing efforts to address long-term volatility in the cocoa production landscape.

Components Covered:

Solutions

Services

Deployment Modes Covered:

Cloud

On-Premises

Network Types Covered:

Physical Networks

Virtual Networks

Hybrid Networks

Functions Covered:

Configuration Management

Provisioning Automation

Compliance Management

Performance Management

Security Automation

Network Orchestration

Enterprise Sizes Covered:

Large Enterprises

Small & Medium Enterprises

End Users Covered:

Telecom Service Providers

BFSI

Healthcare

Retail

Manufacturing

Government

Energy & Utilities

Other End Users

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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

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