Network Automation - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-06-01 | 160 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License $4750.00
- Team License (1-7 Users) $5250.00
- Site License $6500.00
- Corporate License $8750.00

Report description:

Network Automation Market Analysis

The network automation market size is estimated at USD 31.02 billion in 2025 and is on track to reach USD 84.69 billion by 2030, translating into a vigorous 22.25% CAGR. Growth is propelled by enterprises racing to tame sprawling hybrid environments, trim operating costs, and eliminate configuration errors through policy-driven orchestration. Cloud-first migration, widespread SD-WAN adoption, and surging investment in 5G network slicing are creating a perfect backdrop for automation uptake. At the same time, AI-enabled self-healing capabilities are shifting expectations from basic scripting to autonomous operations. Vendors that seamlessly blend intent-based networking with multi-cloud visibility advance fastest, while customers prioritize open APIs to prevent lock-in and speed DevOps integration.

Global Network Automation Market Trends and Insights

Surge in data-center network upgrades

Spiking AI workloads are forcing operators to install 400 G, 800 G, and soon 1.6 T switching fabrics to interconnect GPU clusters efficiently. Amazon's USD 30 billion outlay across Pennsylvania and North Carolina underscores how hyperscalers rely on advanced automation to coordinate massive leaf-spine fabrics. Enterprises outside hyperscale are upgrading too; traditional 10 G links no longer support data-intensive analytics, accelerating demand for intent-based configuration of optical and packet layers. Operators deploy software-defined telemetry that triggers remediation workflows without human review. Fiber provider Zayo earmarked USD 4 billion for long-haul expansion aligned to this upgrade cycle, reflecting confidence in doubled AI data-center capacity by 2030.

IoT and connected-device proliferation

Factory floors now host thousands of sensors demanding deterministic latency, forcing managers to replace manual VLAN provisioning with closed-loop segmentation. Ericsson's Nanjing plant saw ROI in twelve months after connecting 500 screwdrivers via LTE-M, saving USD 10,000 in annual maintenance. Smart-meter rollouts illustrate similar impact: Honeywell embeds Verizon 5G to enable remote metering that eliminates technician visits and improves grid forecasting. Such deployments multiply device counts and micro-flows that only programmable networks can police effectively. As smart-city and grid projects scale across APAC, the network automation market benefits from persistent investment in real-time traffic engineering and rapid policy diffusion.

Shortage of automation-skilled engineers

Atomitech's 2025 survey shows 92.2% of ops staff struggle with skills shortages even as 75% already deploy AI for incident triage. Automation expertise now spans Python, RESTful APIs, and infrastructure-as-code, leaving traditional CCNA-level administrators behind. Firms accelerate in-house training and partner with universities, yet the learning curve delays projects and inflates wages. Semiconductor talent deficits deepen the gap because specialized NICs and accelerators underpin high-performance automation pipelines. Vendors reply with low-code orchestration and GenAI copilots, but adoption still hinges on a labor pool not growing fast enough to match demand.

Other drivers and restraints analyzed in the detailed report include:

Rapid SD-WAN and virtualization roll-outs / Cloud and multi-cloud migration wave / Legacy infrastructure integration issues /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Hybrid architectures delivered USD 14.8 billion in 2024, representing 47.6% of network automation market share and expanding at a 22.9% CAGR toward 2030. The hybrid mix lets organizations preserve sunk investments in fixed chassis switches while overlaying virtual fabrics for bursty cloud workloads. Early migrations focus on edge device auto-provisioning, followed by spine-leaf policy automation in the core. Financial trading desks and industrial plants keep deterministic, non-virtual links for latency-sensitive functions, illustrating why physical assets endure. At the same time, virtual overlays carry micro-services traffic, shrinking change windows from days to minutes.

Hybrid deployments also mitigate outage risk by phasing legacy retirement behind automated fault domains. DENSO updated 400 factories using Cisco DNA Center without halting production, showcasing how event-driven templates handle simultaneous firmware refresh across continents. Service providers embed performance telemetry in both physical and virtual nodes, feeding AI engines that pre-empt SLA violations. Consequently, the network automation market registers recurring license revenue as customers scale controllers across hybrid estates.

Solutions produced 69.3% of 2024 revenue, equal to USD 21.5 billion, yet services grow faster at 22.7% CAGR. Enterprises buy orchestration suites spanning configuration, assurance, and analytics, but success depends on tailored playbooks, thus fueling services expansion. Intent-based engines need topology discovery, policy modeling, and integration with ITSM platforms, tasks many internal teams defer to specialists.

Professional services break into three categories: advisory, build, and managed operations. Telecom Italia teamed with Itential to compress service rollouts by 70%, illustrating co-innovation where integrators script domain-specific workflows. Meanwhile, post-deployment managed services monetize recurring compliance checks and patch automation. Vendors with consulting arms differentiate by packaging best-practice libraries that cut onboarding time, reinforcing their software base and driving subscription renewals.

Network Automation Market is Segmented by Network Infrastructure (Physical, Virtual, Hybrid), Component (Solutions, Services), Deployment Mode (Cloud, On-Premises), Organization Size (Large Enterprises, Small and Medium Enterprises), End User Industry (IT and Telecom, Banking and Financial Services, and More), and by Geography. The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

North America controlled 27.5% of 2024 revenue, anchored by hyperscale cloud operators and defense agencies that demand continuous compliance automation Amazon's USD 30 billion infrastructure build demonstrates scale economics, while the US Marine Corps' Comply-to-Connect program achieved 95% patch success and freed audit personnel for higher-value tasks. An ecosystem of venture-backed startups further enriches the regional stack, shortening innovation cycles.

Asia-Pacific is the fastest climber, expanding at 22.4% CAGR through 2030 on the back of Industry 4.0 initiatives and expansive 5G footprints. SoftBank committed USD 960 million to AI compute tied to network automation that governs multi-cloud connectivity for Japanese conglomerates Meanwhile, NTT tests autonomous 5G optimization using AI, illustrating how telcos treat automation as revenue enabler, not just cost lever nec.com.

Europe maintains steady momentum, blending stringent GDPR compliance with green IT mandates that favor energy-aware routing. Elisabeth-TweeSteden Hospital centralized operations via Extreme Networks Fabric, meeting healthcare data-protection rules while reducing onsite visits . Governments across the region back joint research into sovereign cloud stacks, spurring demand for open-source orchestration.

List of Companies Covered in this Report:

Cisco Systems Inc. / Juniper Networks Inc. / IBM Corporation / Hewlett Packard Enterprise Company / Arista Networks Inc. / VMware Inc. / SolarWinds Corporation / BMC Software Inc. / Extreme Networks Inc. / NetBrain Technologies Inc. / Forward Networks Inc. / Nuage Networks (Nokia Corp.) / Huawei Technologies Co. Ltd. / Red Hat Inc. / Fortra LLC / OpenText Corporation / Fujitsu Limited / Broadcom Inc. / AppViewX Inc. / F5 Inc. / Anuta Networks Inc. / Micro Focus International plc / BlueCat Networks / Apstra Inc. /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
3 months of analyst support /

Table of Contents:

5.5.6 Healthcare
5.5.7 Government and Defense
5.5.8 Other Industries
5.6 By Geography
5.6.1 North America
5.6.1.1 United States
5.6.1.2 Canada
5.6.1.3 Mexico
5.6.2 South America
5.6.2.1 Brazil
5.6.2.2 Argentina
5.6.2.3 Rest of South America
5.6.3 Europe
5.6.3.1 Germany
5.6.3.2 United Kingdom
5.6.3.3 France
5.6.3.4 Italy
5.6.3.5 Spain
5.6.3.6 Rest of Europe
5.6.4 Asia-Pacific
5.6.4.1 China
5.6.4.2 India
5.6.4.3 Japan
5.6.4.4 South Korea
5.6.4.5 Australia
5.6.4.6 Rest of Asia-Pacific
5.6.5 Middle East and Africa
5.6.5.1 Middle East
5.6.5.1.1 Saudi Arabia
5.6.5.1.2 United Arab Emirates
5.6.5.1.3 Turkey
5.6.5.1.4 Rest of Middle East
5.6.5.2 Africa
5.6.5.2.1 South Africa
5.6.5.2.2 Egypt
5.6.5.2.3 Nigeria
5.6.5.2.4 Rest of Africa

6 COMPETITIVE LANDSCAPE
6.1 Market Concentration
6.2 Strategic Moves
6.3 Market Share Analysis
6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products and Services, and Recent Developments)
6.4.1 Cisco Systems Inc.
6.4.2 Juniper Networks Inc.
6.4.3 IBM Corporation

Network Automation - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-06-01 | 160 pages | Mordor Intelligence

To place an Order with Scotts International:
- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	$4750.00
	Team License (1-7 Users)	$5250.00
	Site License	$6500.00
	Corporate License	$8750.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	
		Date	2026-03-04
		Signature	