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Software-defined Automation Market Forecasts to 2030 – Global Analysis By Component (Software, Service and Other Components), Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Software-defined Automation Market is accounted for $33.8 billion in 2024 and is expected to reach $89.9 billion by 2030 growing at a CAGR of 15.1% during the forecast period. Software-defined automation (SDA) is a flexible method of managing IT and operational processes using software platforms, applications, and intelligent algorithms. It allows for remote configuration and management of network infrastructure, reducing manual intervention and complexity. SDA often integrates technologies like AI, machine learning, and cloud computing to optimize performance and drive continuous improvements. This allows organizations to automate routine tasks, predict issues before they occur, and improve system reliability. In the context of networks, SDA can enable more efficient operations, scaling, and agility by abstracting underlying hardware.

Market Dynamics:

Driver:

Increased efficiency and flexibility to automate complex tasks and processes

Software-defined automation automates complex tasks, reducing reliance on manual intervention and improving consistency. It can adjust resources, optimize configurations, and manage traffic, leading to faster response times and higher throughput. It also allows for faster decision-making, leveraging data-driven insights for real-time responses to market demands. It also improves resource allocation by allowing dynamic

allocation of resources based on current demands, leading to optimal utilization, reduced waste boosting them market growth.

Restraint:

High initial investment

Software-defined automation (SDA) implementation can be costly, especially for small and medium-sized enterprises (SMEs) with limited financial resources. It requires purchasing new software platforms, advanced tools, and upgrading hardware. Specialized training or hiring external consultants may also be required. Integrating SDA into legacy systems can be costly, as it requires extensive modifications or overhauls of existing architecture. This can increase the overall project cost hampering the market growth.

Opportunity:

Integration with emerging technologies

The integration of AI and ML with smart data analytics (SDA) enables intelligent automation, enabling systems to learn from data and adapt over time. AI-powered automation improves system performance by detecting anomalies, predicting maintenance, and adaptive resource allocation. Additionally, AI and ML enable self-optimization and self-healing, allowing systems to adjust operations based on real-time data and detect and resolve issues autonomously, reducing downtime and enhancing reliability propelling the growth of the market.

Threat:

Extended deployment time

Extended deployment time can delay the realization of benefits from Software Deployment Automation (SDA), such as operational efficiency, cost reduction, and scalability, reducing overall ROI. Businesses may continue using legacy systems or inefficient manual processes, missing out on potential gains. Additionally, prolonged deployment can lead to frustration and decreased motivation, affecting employee morale and internal teams. Internal resistance or disengagement from stakeholders may also hinder the process, further hindering the overall success of SDA implementation.

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Covid-19 Impact

The COVID-19 pandemic accelerated the adoption of Software-Defined Automation (SDA) as businesses sought to enhance operational efficiency and reduce reliance on manual labor during lockdowns. Remote work, supply chain disruptions, and the need for agile IT infrastructure spurred demand for automated solutions. However, some companies faced delays in SDA implementation due to budget cuts, resource shortages, and workforce constraints. Despite challenges, the pandemic highlighted the importance of automation for business continuity, driving long-term growth in the SDA market as companies embrace digital transformation.

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

The software segment is expected to be the largest share during the forecast period owing to centralized control across dispersed systems and infrastructure, enabling real-time configuration, monitoring, and management of automation workflows. This is achieved through software interfaces that enable users to configure, monitor, and manage automation workflows in real time. For instance, SDN enables centralized management of network traffic, routing, and security policies, enhancing operational efficiency and simplifying management.

The network automation segment is expected to have the highest CAGR during the forecast period

The network automation segment is predicted to have the highest CAGR during the forecast period due to network management by reducing manual tasks and operational complexity. This aligns with SDA's objectives of automating IT, business processes, and infrastructure management. By dynamically configuring network settings, managing traffic, and allocating resources based on real-time needs, businesses can free up resources for other automation processes, creating an agile environment that accelerates the deployment of SDA solutions.

Region with largest share:

North America is anticipated to hold the largest market share during the forecast period, North America, particularly the US and Canada, has been a pioneer in adopting emerging technologies like AI, ML, cloud computing, and IoT, which are crucial to the growth of the Software-Defined Automation (SDA) market. This has led to faster deployment and scaling of SDA systems across various industries. The region's strong

culture of technological integration, including software-defined networking, cloud-based automation, and edge computing, has also contributed to the rapid evolution of SDA technologies.

Region with highest CAGR:

Asia Pacific is anticipated to register the highest CAGR over the forecast period owing to digital transformation and software-defined automation through policy incentives, subsidies, and funding. Countries like China and India are investing in R&D to foster innovation in automation, AI, and 5G. This encourages local companies to develop automation solutions, boosting the SDA market. Private sector investment in automation technologies, including venture capital and funding from large tech firms, is also increasing, particularly in fintech, healthcare, and logistics industries.

Key players in the market

Some of the key players in Software-defined Automation market include Asiasoft Solutions, Beckhoff Automation GmbH & Co. KG, Bosch Rexroth Corporation, Cisco Systems, Inc., Dell, Doosan Corporation, Emerson Electric Co., Hewlett Packard Enterprise (HPE), IBM Corporation, Intel Corporation, Juniper Networks, Mitsubishi Electric India Pvt.Ltd, NEC Corporation, Nutanix, Rockwell Automation, Inc., Siemens AG, Wipro and Yokagawa India Ltd.

Key Developments:

In December 2024, Emerson announced the release of the Rosemount™ 470XA Gas Chromatograph, designed to simplify natural gas analysis in custody transfer and other process applications. As natural gas sources have evolved to include sustainable and renewable sources, such as landfill gas and biogas, the need to provide greater gas chromatograph flexibility.

In November 2024, Cisco, announced an expanded partnership to transform how global enterprises access wireless connectivity. Historically, connectivity has focused on connecting office environments through landlines.

In November 2024, Cisco and LTIMindtree expanded partnership to deliver next-generation secure access globally. Extending its networking partnership with Cisco, LTIMindtree now offers next-generation SSE to its global clients via Cisco Secure Access.

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Components Covered:

- Software
- Service
- Other Components

Applications Covered:

- Network Automation
- Data Center Automation
- Security Automation
- IT Operations Automation
- Other Applications

End Users Covered:

- Healthcare
- Small and Medium-Sized Enterprises
- Telecommunications
- Manufacturing
- Government
- Retail & E-Commerce
- Energy & Utilities

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Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific

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South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & 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 2022, 2023, 2024, 2026, and 2030
- 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:

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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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10.3 Bosch Rexroth Corporation
10.4 Cisco Systems, Inc.
10.5 Dell
10.6 Doosan Corporation
10.7 Emerson Electric Co.
10.8 Hewlett Packard Enterprise (HPE)
10.9 IBM Corporation
10.10 Intel Corporation
10.11 Juniper Networks
10.12 Mitsubishi Electric India Pvt.Ltd
10.13 NEC Corporation
10.14 Nutanix
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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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