

Global Autonomous Networks Market Size study & Forecast, by Offering (Solutions (AI Networking, AIOPS, Network Management Tools, Other Solutions) and Services (Professional Services {Consulting, System Integration & Deployment, Support & Maintenance})) by End User (Service Providers and Verticals (Hospitality, Education, Government, Healthcare, Transportation & Logistics, Other Verticals)) and Regional Forecasts 2025-2035

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Abstracts

The Global Autonomous Networks Market is valued approximately at USD 8.6 billion in 2024 and is anticipated to grow with a growth rate of more than 20.50% over the forecast period 2025-2035. Autonomous networks represent the next frontier of digital transformation, where networks are capable of self-configuration, self-monitoring, and self-healing without manual intervention. These intelligent networks rely on AI, machine learning, automation frameworks, and analytics to dynamically manage network operations, improve efficiency, and minimize downtime. The demand for autonomous networks is being accelerated by the exponential surge in data traffic, the widespread deployment of 5G, and the increasing need to reduce operational costs while improving customer experience. Organizations are leaning on these systems to achieve higher levels of agility, resilience, and security in an ever-connected digital ecosystem.

The surge in connected devices, IoT ecosystems, and high-bandwidth applications has significantly increased pressure on legacy infrastructure, driving organizations to adopt self-operating network systems. Service providers are investing heavily in autonomous network solutions to handle traffic surges and deliver seamless connectivity. According

to industry reports, global mobile data traffic is expected to surpass 450 exabytes per month by 2030, pushing telecom operators to fast-track automation in their network architecture. Moreover, enterprises in verticals such as healthcare, government, and transportation are increasingly turning to autonomous networking to meet mission-critical demands and regulatory compliance requirements. However, challenges around high deployment costs, integration complexities, and concerns regarding cybersecurity risks may pose hurdles to widespread adoption during the forecast period.

The detailed segments and sub-segments included in the report are:

By Offering:

Solutions

- AI Networking
- AIOPS
- Network Management Tools
- Other Solutions

Services

- Professional Services
- Consulting
- System Integration & Deployment
- Support & Maintenance

By End User:

Service Providers

Verticals

- Hospitality
- Education
- Government
- Healthcare
- Transportation & Logistics
- Other Verticals

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Solutions Segment is Expected to Dominate the Market

Among offerings, Solutions are expected to dominate the market throughout the forecast horizon, as enterprises and telecom operators continue to adopt AI-driven networking, AIOps, and advanced management tools to build self-operating systems. These solutions empower businesses to proactively predict faults, dynamically optimize

traffic, and reduce operational expenditures. The growing adoption of AI in network orchestration, paired with automation of repetitive processes, is ensuring solutions maintain their stronghold in the market share. Services, while playing an increasingly vital role in supporting deployment and integration, act more as enablers rather than primary growth drivers.

Service Providers Lead in Revenue Contribution

By end user, Service Providers currently account for the largest revenue contribution, driven by rising investments from telecom operators in 5G infrastructure and autonomous capabilities. Service providers are prioritizing network automation to handle the complexity of modern traffic and deliver ultra-low latency services. Meanwhile, verticals such as healthcare and government are projected to expand rapidly, as these industries leverage autonomous networking to support mission-critical applications, secure data flows, and enhance service delivery. This creates a dual dynamic: while service providers dominate revenues today, verticals are emerging as high-potential growth areas.

The key regions considered for the Global Autonomous Networks Market study include Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. North America dominated the market in 2025, attributed to strong investments in next-generation telecom infrastructure, widespread adoption of 5G, and the presence of leading network automation technology providers. Europe follows closely, with significant progress driven by stringent regulatory standards and rising adoption of autonomous networking solutions across smart city projects and enterprise ecosystems. Asia Pacific, however, is projected to be the fastest-growing region, led by countries such as China, India, and South Korea, which are undergoing rapid digitalization and scaling their telecom infrastructures to meet the demands of massive populations. Latin America and the Middle East & Africa are steadily adopting autonomous networks, spurred by the modernization of telecom infrastructure, government-backed digital initiatives, and the rising demand for connected services.

Major market players included in this report are:

Huawei Technologies Co., Ltd.

Ericsson AB

Nokia Corporation

Cisco Systems, Inc.

Juniper Networks, Inc.

Hewlett Packard Enterprise Development LP

ZTE Corporation

NEC Corporation

VMware, Inc.

Accenture Plc

Capgemini SE

IBM Corporation

Netcracker Technology Corporation

Amdocs Limited

Ciena Corporation

Global Autonomous Networks Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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