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Software Defined Networking Market Report by Component (Solution, Services), Organization Size (Small and Medium Enterprises, Large Enterprises), Application (Enterprises, Telecommunication Service Providers, Cloud Service Providers), End Use Industry (BFSI, IT and Telecom, Consumer Goods, Government and Defense, Healthcare, and Others), and Region 2024-2032

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Abstracts

The global software defined networking market size reached US$ 24.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 110.7 Billion by 2032, exhibiting a growth rate (CAGR) of 18% during 2024-2032.

Software-defined networking (SDN) refers to a network architecture solution used for workflow automation through software-based applications. It is designed to enhance the efficiency and agility of networks for enabling the user to control large volumes of data and the network traffic. The SDN architecture consists of various elements, such as a controller to centralize physical and virtual environments, southbound application program interface (API) to transmit information between the controller and the individual switches, access points and firewalls, and northbound API to transfer data between the controller and the application and policy engines. In comparison to traditionally used networking systems, SDN is more cost-effective and offers enhanced flexibility and security over the entire network.

The rising trend of network infrastructure automation and the widespread adoption of cloud-computing services and big data analytics across various industries, are the key

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factors driving the growth of the market. There is an increasing demand for efficient networking solutions, such as SDN, for data center consolidation, server virtualization and enhancing enterprise mobility. In line with this, with the increasing adoption of Bring-Your-Own-Devices (BYOD), organizations are extensively using SDN solutions to customize and manage the data accessed by employees and optimize the mobile workforce. Furthermore, various technological advancements, such as the integration of the Internet of Things (IoT) with connected devices, are acting as other growth-inducing factors. SDN service providers are also developing architectures to support the 5G infrastructure, thereby creating a positive outlook for the market. Other factors, including increasing investments in the development of open-source SDNs, along with digitization of the existing 3G and 4G networks, are anticipated to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global software defined networking market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on component, organization size, application and end use industry.

Breakup by Component:

Solution

Physical Network Infrastructure

SDN Controller

SDN Application

Others

Services

Integration and Deployment

Training and Consulting

Support and Maintenance

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Breakup by Organization Size:

- Small and Medium Enterprises
- Large Enterprises

Breakup by Application:

- Enterprises
- Telecommunication Service Providers
- Cloud Service Providers

Breakup by End Use Industry:

- BFSI
- IT and Telecom
- Consumer Goods
- Government and Defense
- Healthcare
- Others

Breakup by Region:

- North America
- United States

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Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

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Others

Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Arista Networks Inc., Cisco Systems Inc., Citrix Systems Inc., Cloudgenix Inc. (Palo Alto Networks Inc.), Cumulus Networks Inc. (Nvidia Corporation), Dell Technologies Inc., Extreme Networks Inc., Hewlett-Packard Enterprise Company, International Business Machines Corporation, Juniper Networks Inc., NEC Corporation and Oracle Corporation.

Key Questions Answered in This Report:

How has the global software defined networking market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global software defined networking market?

What are the key regional markets?

What is the breakup of the market based on the component?

What is the breakup of the market based on the organization size?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global software defined networking market and who are the key players?

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What is the degree of competition in the industry?

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