Software-Defined Networking Market worth $78.52 billion by 2030 - Exclusive Report by 360iResearch

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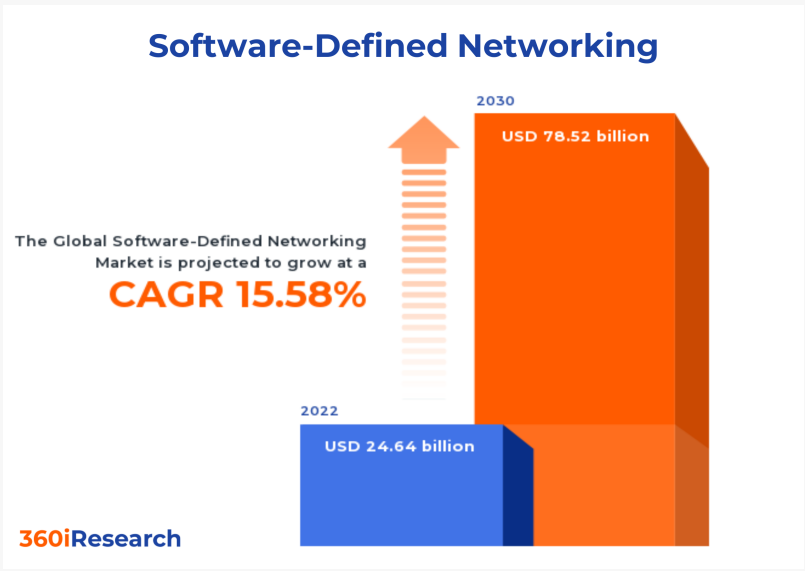

Software-Defined Networking Market - Exclusive Report by 360iResearch

PUNE, MAHARASHTRA, INDIA , December 7, 2023 /EINPresswire.com/ -- The "Software-Defined Networking Market by Component (SDN Infrastructure, Services, Solutions), SDN Types (Open SDN, SDN via API, SDN via Overlay), Organization Size, End-User, Vertical - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

The Global Software-Defined Networking Market to grow from USD 24.64 billion in 2022 to USD 78.52 billion by 2030, at a CAGR of 15.58%.

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Software-defined networking (SDN) is a strategy for networking that utilizes software-based controllers or application programming interfaces (APIs) to communicate with underlying hardware infrastructure and direct traffic on a network. SDN enables networks to be intelligently and centrally controlled or programmed using software applications to help operators manage the entire network consistently and holistically, regardless of the underlying network technology. The increasing prevalence of network automation and virtualization among consumers, the surge in demand for cloud services, data center consolidation, server virtualization, and the need for cloud-based services in digital transformation are crucial factors accelerating market growth. However, the need for a skilled workforce, the rising complexity of SDN architecture, and the absence of standards for complete device control are the major factors that may limit the

adoption by end-user sectors. Moreover, ongoing research and development to enhance the security of SDN, the rising demand for hybrid clouds, and the development of open-source SDN are expected to create new opportunities for the global software-defined networking (SDN) market.

SDN Types: Offering increased flexibility, scalability, and cost-effectiveness
Open SDN has a centralized control plane and utilizes OpenFlow for the southbound API of the traffic between physical or virtual switches and the SDN controller. API SDN requires an OpenFlow-enabled switch, which works well with traditional switches. SDN, through existing APIs, employs functions for networking devices through a remote connection using conventional methods, such as SNMP or CLI. The overlay model operates on an overlay network and offers tunnels with channels to solve data center connectivity issues.

Vertical: Robust networking solutions to support large-scale Industrial Internet of Things (IIoT) deployments and real-time data analytics
In the BFSI, energy & utility, manufacturing, transportation & logistics, and education sectors, SDN solutions reduce the cost associated with network infrastructure to check on the complete network from a single interface and allocate bandwidth for bandwidth high-priority applications. SDN can help government & defense organizations connect all their agencies under one network. SDN offerings can help the retail & consumer goods and travel & hospitality sectors to avoid traditional bottlenecks and augment the adjustability and programmability of their network. In the healthcare sector, SDN separates the network's intelligence from the data, allowing network administrators to monitor the devices on a network from one central site.

End-User: Offering flexibility in addressing unique needs and challenges within different industries
An increase in the focus of enterprises on re-architecting their networking infrastructure to achieve automation, network security, and application performance is resulting in increased adoption of SDN. Cloud service providers widely employ software-defined networking as it provides ease and favorable conditions for using cloud computing. Telecommunication service providers also use SDN to improve carriers' ability, wired and wireless networks, to deliver bandwidth flexibly on demand.

Component: Foundational components for managing and controlling network
SDN infrastructure uses software controllers driven by application programming interfaces (APIs) to communicate with hardware infrastructure to direct network traffic. The SDN service providers deliver both professional and managed services. The professional services include appropriate consultation, implementation of the system, and the necessary SDN support services. SDN software and solutions such as physical network infrastructure, software-defined networking infrastructure, and virtualization & control software SDN allow the end users to configure, manage, secure, and optimize network resources quickly via dynamic, automated SDN programs.

Organization Size: Wide adoption to streamline their extensive network infrastructure
Large enterprises exhibit higher adoption of SDN owing to the rise in the implementation of new virtual machines to handle processing requests due to the need to accommodate Big Data. The growing demand for a customized approach, the rising need to make business more streamlined, and the increasing requirement to improve efficiency by shortening the time taken to troubleshoot a solution are expanding the use of SDN in SMEs.

Regional Insights:
The Americas is highly evolving in the software-defined networking market owing to the surge in adoption of advanced technologies across various industry verticals, rising adoption of cloud computing & mobility solutions, and increasing demand for network management due to significant network traffic. The increasing adoption of the internet, the vast population, and technological advancements taking place at a rapid rate are expected to help the industry grow. The Asia-Pacific is expected to grow at a rapid pace owing to many cloud-ready sectors in the Asian subcontinent and rising demand for cloud services, data center consolidation, and server virtualization. Expanding cloud-ready industries in Asian countries and increased awareness about the benefits of software-defined networking positively impact market growth. Software-defined networking in Europe is growing because of telecom operators' rising adoption of LTE/4G networks and the plan to implement 4G network services throughout the region.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Software-Defined Networking Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Software-Defined Networking Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Software-Defined Networking Market, highlighting leading vendors and their innovative profiles. These include Allied Telesis, Inc., Arista Networks, Inc., AT&T Inc., Broadcom Inc., CDW LLC, Ciena Corporation, Cisco Systems, Inc., Citrix Systems, Inc., Cloudflare, Inc., DataCore Software Corporation, Dell Inc., Extreme

Networks, Inc., Fortinet, Inc., Fujitsu Limited, Google LLC by Alphabet, Inc., Hewlett Packard Enterprise Development LP, Huawei Technologies Co., Ltd., International Business Machine Corporation, Juniper Networks, Inc., Kyndryl Inc., Lenovo, Microsoft Corporation, NEC Corporation, Nokia Corporation, NVIDIA Corporation, Oracle Corporation, Perimeter 81 Ltd., Pica8 Inc., Ready Robotics Corporation, VMware, Inc., and Wipro Limited.

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Market Segmentation & Coverage:

This research report categorizes the Software-Defined Networking Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Component, market is studied across SDN Infrastructure, Services, and Solutions. The Services is further studied across Managed Services and Professional Services. The Professional Services is further studied across Consulting Services, Implementation Services, and Support Services. The Solutions is further studied across Physical Network Infrastructure, Software-Defined Networking Applications, and Virtualization & Control Software. The Services is projected to witness significant market share during forecast period.

Based on SDN Types, market is studied across Open SDN, SDN via API, and SDN via Overlay. The Open SDN is projected to witness significant market share during forecast period.

Based on Organization Size, market is studied across Large Enterprises and SMEs. The Large Enterprises is projected to witness significant market share during forecast period.

Based on End-User, market is studied across Cloud Service Providers, Enterprises, and Telecommunication Service Providers. The Telecommunication Service Providers is projected to witness significant market share during forecast period.

Based on Vertical, market is studied across BFSI, Education, Energy & Utilities, Government & Defense, Healthcare, Information Technology Enabled Services, Manufacturing, and Retail & Consumer Goods. The Education is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South

Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 37.39% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

The report provides insights on the following pointers:
1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:
1. What is the market size and forecast of the Software-Defined Networking Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Software-Defined Networking Market?
3. What is the competitive strategic window for opportunities in the Software-Defined Networking Market?
4. What are the technology trends and regulatory frameworks in the Software-Defined

Networking Market?
5. What is the market share of the leading vendors in the Software-Defined Networking Market?
6. What modes and strategic moves are considered suitable for entering the Software-Defined Networking Market?

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