

Global SDN Orchestration Market by Component Type (Solution, Services), By Organization Size (SME's, Large Enterprises), By End User (Cloud Services Providers, Telecom Services Providers, Others), By Region, Competition, 2018-2028

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Abstracts

The projected market size for the global SDN Orchestration market is expected to reach USD 4.57 billion by the end of 2022, with a compound annual growth rate (CAGR) of 81.57% during the forecast period. The global software-defined networking (SDN) orchestration market is a pivotal domain within networking technology, revolutionizing network management through centralized control and automation. Driven by the demand for efficient network solutions in the era of digital transformation and cloud computing, SDN orchestration streamlines network configuration, enhances resource utilization, and accelerates service deployment. The market gains momentum as organizations increasingly adopts multi-cloud and hybrid cloud setups, leveraging SDN orchestration to manage complex networking across diverse environments. Integration with emerging technologies like 5G and edge computing further amplifies its significance, ensuring dynamic resource allocation and efficient communication. Despite challenges in integration and security, the SDN orchestration market is poised to reshape networking practices, offering agility, scalability, and streamlined management for modern enterprises.

Key Market Drivers

Digital Transformation and Cloud Adoption

The rapid pace of digital transformation and the widespread adoption of cloud computing technologies are driving significant momentum in the global Software-



Defined Networking (SDN) orchestration market. As organizations embrace digital strategies to enhance operational efficiency and deliver innovative services, traditional network architectures fall short in meeting the agility and scalability demanded by modern applications. SDN orchestration emerges as a solution, allowing businesses to manage and optimize network resources dynamically across multi-cloud and hybrid cloud environments. This trend is particularly relevant as the shift towards remote work, IoT, and data-intensive applications heightens the need for networks that can adapt swiftly to changing demands.

Complex Network Environments and Automation Demand

The growing complexity of network environments, coupled with the increasing need for network automation, serves as a major driver in the global SDN orchestration market. Enterprises operate across a spectrum of platforms, devices, and cloud instances, leading to intricate networking challenges. SDN orchestration addresses this complexity by providing a centralized platform for configuring, managing, and automating network resources. The demand for automation is further accentuated as businesses seek to minimize manual intervention, reduce human errors, and streamline operations. With SDN orchestration, organizations can achieve consistent policy enforcement, rapid service provisioning, and efficient resource allocation across diverse and intricate network landscapes.

Emergence of 5G Networks and Edge Computing

The advent of 5G networks and the rise of edge computing are instrumental in shaping the global SDN orchestration market. 5G technology brings ultra-low latency, high-speed connectivity, and massive device scalability, necessitating dynamic network management capabilities that SDN orchestration provides. The ability to allocate resources on-demand and ensure optimal network performance aligns perfectly with the requirements of 5G networks. Additionally, the proliferation of edge computing, where data processing occurs closer to the data source, demands efficient and real-time communication between edge devices and centralized resources. SDN orchestration plays a vital role in managing these complex interactions, ensuring seamless connectivity and optimized performance.

Shift towards Intent-Based Networking

The industry's shift towards intent-based networking, where network configurations are aligned with business intent and objectives, is a driving force behind the global SDN



orchestration market. Intent-based networking leverages AI and automation to translate high-level business policies into network configurations, reducing the complexity of manual configuration tasks. SDN orchestration enhances this transition by providing the necessary tools to define and enforce intent-driven policies across the network. Organizations can easily align network behaviors with business goals, resulting in enhanced agility, improved user experiences, and quicker response to changing business requirements. The drive towards intent-based networking reinforces SDN orchestration's role in modernizing network management practices and optimizing resource utilization.

Key Market Challenges

Interoperability and Vendor Lock-In

Interoperability stands as a significant challenge in the global Software-Defined Networking (SDN) orchestration market. As organizations deploy SDN solutions from various vendors and across diverse environments, ensuring seamless integration and communication between different components becomes complex. Lack of standardized protocols and proprietary interfaces can lead to interoperability issues, potentially resulting in fragmented network management and reduced operational efficiency. The risk of vendor lock-in is another concern, where organizations become overly dependent on a single vendor's solution, making it difficult to switch providers or adopt alternative technologies. Addressing interoperability challenges requires industry-wide collaboration to establish common standards and open interfaces. The development of standardized protocols and APIs can facilitate smoother integration, reduce complexity, and mitigate the risks associated with vendor lock-in.

Security and Compliance in Dynamic Environments

Security and compliance are critical challenges in the global SDN orchestration market, particularly in dynamic and multi-cloud environments. The dynamic nature of SDN orchestration, which involves automated resource allocation and rapid provisioning, can create potential security vulnerabilities if not managed effectively. Ensuring that security policies are consistently enforced across a rapidly changing network landscape is complex. Moreover, compliance with industry regulations and data protection laws becomes more challenging as network configurations change frequently. The risk of misconfigurations or unauthorized access can lead to security breaches and regulatory violations. Addressing these challenges requires the implementation of robust security measures, such as real-time threat detection, access controls, encryption, and audit



trails. Automation of security policies and continuous monitoring can help organizations maintain a secure and compliant network environment despite its dynamic nature.

Key Market Trends

Multi-Domain SDN Orchestration

A prominent trend shaping the global Software-Defined Networking (SDN) orchestration market is the evolution towards multi-domain orchestration. As networks become increasingly diverse and complex, spanning across various domains such as data centers, public and private clouds, and edge environments, the need to seamlessly manage and orchestrate these domains gains prominence. Multi-domain SDN orchestration offers a holistic approach to network management, enabling organizations to provision, monitor, and optimize resources across different network segments. This trend aligns with the growing demand for unified network management platforms that can efficiently handle the intricacies of interconnected domains, providing consistent policies, efficient resource allocation, and improved network performance. As organizations expand their network footprints and embrace hybrid architectures, multidomain SDN orchestration emerges as a critical capability to ensure cohesive and efficient network operations.

Intent-Based Orchestration

The trend towards intent-based networking is significantly influencing the global SDN orchestration market. Intent-based orchestration leverages artificial intelligence (AI) and machine learning (ML) algorithms to translate high-level business objectives into actionable network configurations. Instead of manually configuring individual network elements, intent-based orchestration focuses on understanding the desired outcomes and automating the necessary adjustments to achieve them. This trend addresses the increasing complexity of modern networks and the need for rapid adaptation to changing business requirements. By aligning network behavior with business intent, organizations can achieve enhanced agility, reduced operational overhead, and improved alignment between IT and business goals. Intent-based orchestration not only simplifies network management but also paves the way for adaptive and self-healing network architectures.

Integration with Edge Computing

The integration of SDN orchestration with edge computing is a compelling trend



reshaping the global market. Edge computing involves processing data closer to the data source, reducing latency and enhancing real-time processing capabilities. As edge computing gains prominence, the need for efficient network management and communication between edge devices and centralized resources becomes paramount. SDN orchestration plays a pivotal role in facilitating this communication by dynamically managing network resources, ensuring optimized data flows, and maintaining consistent network policies across edge and core components. This trend addresses the unique challenges posed by edge computing, such as resource constraints, heterogeneous environments, and varying connectivity options. As edge computing continues to transform industries, the integration of SDN orchestration ensures the seamless interaction between edge devices and centralized resources, enabling responsive and efficient edge applications.

Segmental Insights

Organization Size Insights

Based on organization size, the large enterprises segment emerges as the predominant segment, exhibiting unwavering dominance projected throughout the forecast period. The ascendancy of the cloud segment underscores the growing shift towards flexible and scalable solutions in the market. As businesses increasingly recognize the benefits of cloud deployment, including enhanced accessibility, cost-efficiency, and streamlined operations, the cloud segment is positioned as the go-to choose for forward-looking enterprises. Its unyielding dominance not only reflects its present impact but also anticipates a future where cloud-based solutions continue to redefine the contours of the market. As technology evolves and businesses seek agile solutions, the cloud segment's unwavering influence remains a pivotal driver of innovation and transformation in the deployment landscape.

End User Insights

Based on end user, the telecom services providers segment emerges as a formidable frontrunner, exerting its dominance and shaping the market's trajectory throughout the forecast period. The telecom operator segment's ascension to this formidable position is a testament to its integral role in shaping and driving the industry forward. With the evolving technological landscape and surging demand for seamless connectivity, telecom operators are positioned at the heart of innovation. Their ability to navigate and adapt to changing consumer needs, coupled with their infrastructure prowess, cements their role as the driving force behind the market's evolution. As the forecast unfolds, the



telecom operator segment's unwavering grip on its position not only underscores its current influence but also signals a continuous journey of advancements and transformative impacts on the market's trajectory.

Regional Insights

North America firmly establishes itself as a commanding presence within the global SDN Orchestration market, affirming its preeminent position, and highlighting its pivotal role in shaping the industry's course. Renowned for technological innovation, the region's advanced network infrastructure aligns seamlessly with the requirements of SDN Orchestration. Early investments in 5G technology amplify the demand for dynamic resource allocation. Moreover, North America's contributions to open-source projects and industry standards substantiate its influential role. This dominant presence not only drives innovation but also sets global benchmarks, making North America a pivotal force shaping the evolution of SDN Orchestration on a global scale.

Key Market Players

Jupiter Networks, Inc.

Huawei Technologies Co. Ltd.

Cisco Systems, Inc.

Ciena Corporation

Nokia Corporation

Netcracker Technology Corporation

Hewlett Packard Enterprise

CENX, Inc.

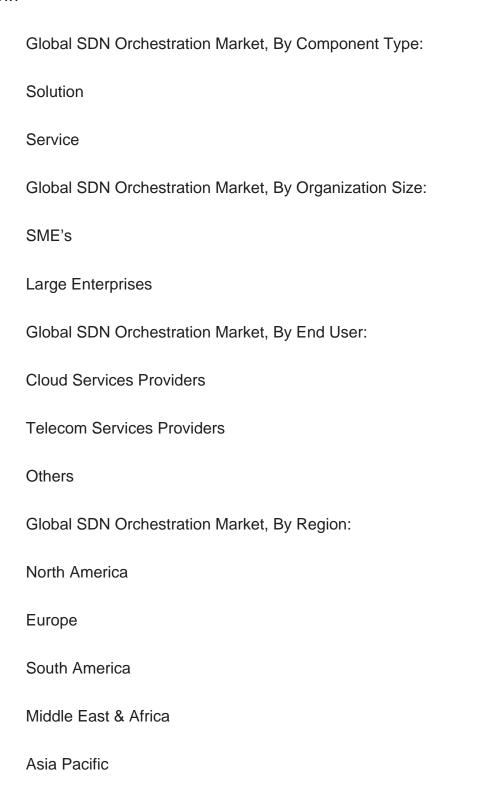
Anuta Networks International LLC

QualiSystems Ltd.



Report Scope:

In this report, the global SDN Orchestration market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:





Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global SDN Orchestration Market.

Available Customizations:

Global SDN Orchestration market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).



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