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# Data Center Networking Market [Ethernet switches, SAN, Routers, ADC, Network Security Equipment, WAN Optimization Appliances]: Global Advancements, Worldwide Forecasts & Analysis (2013-2018)

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## Abstracts

The modern data center networking are becoming increasingly complex and massive and proliferation of new technologies such as virtualization, cloud computing, and network convergence are adding another level of complexity along with enabling higher workloads to be placed on the network. The movement toward virtualization is forcing enterprise to take restructure their data center architecture to ensure that they have the automation, visibility, and security controls in place to meet the needs of today's demanding business applications.

Organizations today face ever-increasing requirements for uptime, application flexibility in rapid application provisioning and data mobility network traffic increasing at an exponential rate. The business agility demands increased network I/O uptime, which in turn means constant networking resiliency, and demand for zero downtime and convergence. Unfortunately, most current network technologies were not developed with the needs of virtualization and cloud computing in mind; as a result network can become a bottleneck for cloud and virtualization deployments.

To cater to these network challenges, organizations are on a move to create a dynamic data center enabled by virtualization. They are moving toward an architecture where server, storage, and network assets are tightly aligned with converged infrastructures. The organizations are aiming for a future where they can deploy and effectively use hundreds and thousands of server applications in a virtual environment. The IT resources such as storage, server, and network infrastructure resources are treated as

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pools to be assigned as needed by business services. The goal behind this is to create a pool of network entities that can be allocated and de-allocated on-demand, with the push of a button. This model will require a new layer of abstraction and resource management. To address the high performance and density demands of businesses, virtualized data center will require migration from 1GbE to 10GbE switches. The 10GbE is the foundation of virtualized data centers.

The major industry players in the data center networking market such as Cisco, Juniper Networks, Brocade, HP, Alcatel-Lucent, Arista Networks, Extreme Networks, and others are finding a huge potential in the market in near future. The data center networking market research report analyzes market dynamics, future roadmaps, and global trends, and also provides competitive intelligence and forecasts over the next 5 years.

The report broadly comprises data center networking product segments: Ethernet switches, router, Storage Area Network (SAN), Application Delivery Controllers (ADCs), network security equipments, and WAN optimization appliances; by end-user environment: enterprises, cloud service providers, and telecommunication service providers; by industry verticals: high tech, BFSI, healthcare, government, education, retail, media and entertainment, and others; and by geographical regions: North America (NA), Europe (EU), Asia Pacific (APAC), Middle East and Africa (MEA), and Latin America (LA).

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# About

Enterprises are highly dependent on their data center efficiency and applications performance to improve employee productivity, reduce operational costs and increase revenue. To achieve these objectives, virtualization, simplification, and consolidation are the three most crucial initiatives for enterprises. These objectives demand for high-performance server and networking technologies as well as integration between the two to achieve optimal performance. Hence, proper integration of server and simplified networking infrastructure is pivotal.

The data center networking vendors are focusing on delivering the best-in-class dynamic network infrastructure that can help to consolidate applications and servers and virtualizes its system resources along with improving the overall performance, availability, and energy efficiency, thereby providing a more flexible and dynamic IT infrastructure. Today's data center networking infrastructure solution is based on open standards. It optimizes performance and enables consolidation which in turn increases network scalability and resiliency, simplifies operations, and streamlines management along with lowering the Total Cost of Ownership (TCO). This solution also automates the network infrastructure management, making the existing infrastructure easily adaptable and flexible, especially for cloud service providers, for third-party application deployments.

**Data Center Networking: Market Growth, 2013 – 2018 (Y-o-Y %)**

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This report gives detailed insights into the global data center networking market split across networking products, network security equipments, end-user environments, verticals, and regions. The networking product segment includes switches, routers, SAN components, network security equipments, ADC, and WAN optimization appliances. The network security equipment comprises of firewalls, Intrusion Prevention Systems (IPSs), remote Virtual Private Network (VPN) access devices, and other security devices. The end-user environment is segmented into cloud service providers, telecommunications providers, and enterprises. The verticals segment includes verticals such as high-tech, BFSI, healthcare, government, education, retail, media and entertainment, and others. The region-wise segmentation covers NA. Europe, APAC, MEA, and LA. The report also emphasizes on key adoption trends, future opportunities, and business cases in this innovative market.

MarketsandMarkets expects an increasing adoption of data center networking solutions, as major vendors are aggressively investing and rigorously working toward building cost-effective and virtualized data center network architecture, in an effort to meet the rising bandwidth demands and business agility.

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