+44 20 8123 2220
info@marketpublishers.com

Software Defined Networking (SDN) Solutions, Market Opportunities and Forecast 2015 - 2020

https://marketpublishers.com/r/S6BF7D50AF5EN.html
Date: December 2014
Pages: 143
Price: US$ 1,995.00 (Single User License)
ID: S6BF7D50AF5EN

Abstracts

Software Defined Networks (SDN) has largely spawned from the need to separate Control and Data planes as a means of optimizing networks via software control and reduced dependency on specific hardware configurations and vendors. SDN facilitates simplified and more efficient network administration by way of decoupling the system that makes decisions about where traffic is sent (the control plane) from the underlying systems that forward traffic to the selected destination (the data plane).

A major goal of SDN is to both simplify and consolidate network functions, replacing specialized hardware with commodity switches, servers, etc. It enables vertical integration with application control over the network through SDN APIs. Instead of managing network assets separately, using separate interfaces, they are controlled collectively and in software, via unified solutions in an SDN environment.

Software Defined Networking (SDN) Solutions, Market Opportunities and Forecast 2015 - 2020 covers the following:

Technology Review: A review of the underlying technology supporting SDN solutions

SDN Industry Roadmap: An analysis of the roadmap for the industry from 2015 to 2020

Analysis of Major SDN Vendors and Solutions: Analysis of key SDN vendor strategies and solutions

Business Drivers for SDN and Network Function Virtualization: An assessment

+44 20 8123 2220
info@marketpublishers.com

of the business drivers for SDN and NFV

SDN and Virtualization: An analysis of the relationship between SDN and virtualization with an emphasis on the key NFV area

This research evaluates the business drivers for SDN, its relationship to virtualization, specific market opportunities, leading vendors and solutions, issues involved in implementing SDN, and the market outlook and forecast for SDN for switching, controllers, and the software operation market. The report includes analysis of important topics such as Northbound APIs and their role in development of software defined services by third parties. This report is a must read for anyone involved in architecture strategy, application development, network planning, operations, and anyone with a vested interest in the future of service delivery, virtualization, and cloud-based market opportunities.

All purchases of Mind Commerce reports includes time with an expert analyst who will help you link key findings in the report to the business issues you're addressing. This needs to be used within three months of purchasing the report.

Select Report Findings:

Pilot and trial SDN installations will predominate through 2016

Carrier grade SDN will reach to $3 billion with a CAGR of 45.9%

Enterprise grade SDN will reach to near $8 billion value with a CAGR of 56.5%

Mind Commerce sees the SDN market reaching $ 11.3 billion by 2020 with a CAGR of 53%

Target Audience:

Network operators

SDN solution providers

Cloud-based service providers

+44 20 8123 2220
info@marketpublishers.com

Virtualization solution providers

Network infrastructure providers

OSS/BSS and optimization companies

Application developers and API companies

Managed communications services companies

+44 20 8123 2220
info@marketpublishers.com

Contents

1 INTRODUCTION

1.1 Topics Covered
1.2 Key Questions Answered
1.3 Target Audience
1.4 Companies Covered in the report

2 EXECUTIVE SUMMARY

2.1 Global SDN Markets: 2015 - 2020
  2.1.1 Key Highlights of 2015 - 2020

3 OVERVIEW

3.1 What is a Network?
3.2 Industry Trends in Network Infrastructure
  3.2.1 Legacy Networking Environment Is Incapable of Elastic Networking Demand
  3.2.2 Converged Data Traffic a New Challenge
  3.2.3 A Need for Dynamic Networking Is Growing
  3.2.4 Scalability Is a New Challenge For IT Teams
  3.2.5 Lack of Flexible Hardware at Peak Times
  3.2.6 Increasing Network Utilization needs more NICs
  3.2.7 Evolution of Standards for Converging IT and Telecommunication Services
  3.2.8 Telecom Operators Look For Ease of Multivendor Purchase and Interoperability
3.3 Upcoming Solutions to Resolve Networking Challenges
  3.3.1 Network Virtualization
  3.3.2 Network Function Virtualization
  3.3.3 Software Defined Network (SDN)
3.4 Comparison between NV, NFV and SDN
3.5 How SDN Differs from NV and NFV
  1.1.1 SDN & NFV
  3.5.1 SDN Is not a Virtualization Technology
  3.5.2 SDN vs. Network Virtualization
3.6 Benefits of Next Generation Networking Solutions
  3.6.1 Reduction in Capital and Operational Costs
  3.6.2 Increased Business Agility and Control
  1.1.2 Flexibility to Leverage Datacenter into Cloud Infrastructure

+44 20 8123 2220
info@marketpublishers.com

3.7 Software Defined Networking (SDN) Solution
3.8 Fitment of SDN in Changing Networking Needs
3.9 History of SDN Evolution
3.10 The Three Models of SDN
3.11 Standard SDN Architecture
3.12 Key Components of SDN Architecture
3.12.1 SDN Controller
3.12.1.1 Opensource SDN Controllers
3.12.1.2 Commercial SDN Controllers
3.12.2 Southbound and Northbound APIs
1.1.3 Southbound APIs
1.1.3.1 OpenFlow
1.1.3.2 NETCONF
1.1.3.3 ForCES
1.1.3.4 PECP
1.1.4 Northbound APIs
3.12.3 Common language APIs for SDN and NFV
1.2 Migrating to the SDN

4 EVOLVING ERA OF SOFTWARE DEFINED EVERYTHING

4.1 Software Defined Data Center (SDDC)
4.2 Software-Defined Storage
4.3 Software-Defined Telecom Networks
4.4 Software-Defined Machines: The Internet of Things

5 SDN SOLUTIONS FOR THE ENTERPRISES AND CARRIERS

5.1 Enterprise SDN
1.3 Carrier SDN
5.2 Enterprise SDN vs. Carrier SDN
5.3 SDN Global Markets: 2015-20
5.3.1 SDN Pilot Projects from 2014 and Trials through 2020
5.3.2 Through 2020 SDN will Experience a Major Market in Greenfield Deployments
5.4 Markets for Prominent SDN Enterprise Use Cases 2015 - 2020
5.5 Future Prospects in SDN market

6 KEY MARKET TRENDS IN THE SDN

+44 20 8123 2220
info@marketpublishers.com

6.1 SDN will play a Key Role in the Deployment of Software Defined Datacenters
6.2 SDN, Carriers, and Virtualization
6.3 SDN is a Business Driver for Network Operators
6.4 Software-Defined Machines: The Internet of Things

7 SDN STRATEGIES: VENDOR LANDSCAPE

1.4 Proprietary SDN Controller Deployment
1.5 SDN Mergers and Acquisitions
1.6 Joint Ventures and Partnerships
7.1 Key Companies and Solution Providers
1.7 Comparative Analysis
  7.1.1 Architecture Issues
  7.1.2 API Management
  7.1.3 SDN Security
7.2 Key Companies and Solutions
  7.2.1 Alcatel-Lucent (Nuage Networks)
  7.2.2 Arista Networks
  7.2.3 Avaya
  7.2.4 Big Switch Networks
  7.2.5 Brocade/Vyatta
  7.2.6 Ciena
  7.2.7 Cisco
  7.2.8 ConteXtream
  7.2.9 Cyan
  7.2.10 Dell
  7.2.11 Ericsson
  7.2.12 Hitachi
  7.2.13 Huawei
  7.2.14 HP
  7.2.15 IBM
  7.2.16 Intel
  7.2.17 Juniper
  7.2.18 Oracle
  7.2.19 Plexxi
  7.2.20 Pluribus
  1.7.1 VMware

8 CHALLENGES, DRIVERS, AND OPPORTUNITIES IN SDN

+44 20 8123 2220
info@marketpublishers.com

8.1 Implementation Considerations for SDN
8.2 Architecture Issues
8.3 API Management
8.4 SDN Security
8.5 Carrier SDN Challenges and Opportunities
8.6 Key SDN Drivers and Opportunities
8.7 SDN Controller Deployment
8.8 SDNs and Programmable Networking and Application Policy
  8.8.1 Cisco Application Policy Infrastructure Controller (APIC)
  8.8.2 Why Application Policy is Important
8.9 Opportunities in Development of Northbound APIs
  8.9.1 Application Use Cases
  8.9.2 Open vs. Proprietary Northbound APIs

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1: SDN Global Markets: 2015 - 2020
Figure 2: Relationship between NFV and SDN
Figure 3: Standard SDN Architecture
Figure 4: Southbound and Northbound APIs
Figure 5: SDN APIs
Figure 6: NFV Solution Sales Revenue: 2014 - 2019
Figure 7: CloudNFV Open Framework
Figure 8: The Future of IoT and SDN APIs
Figure 9: SDN Global Markets: 2015 - 2020
Figure 10: SDN Markets by Pilot and Commercial Deployment 2015 - 2020
Figure 11: Global SDN Market by the Use Cases 2015 - 2020
Figure 12: Data Centers and Cloud Switching Fabric
Figure 13: Cisco SDN Solution Arch
Figure 14: SDN Drivers and Opportunities
Figure 15: Orchestration and Policy Coordination
Figure 16: Northbound API Functions

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1: SDN Global Markets: 2015 - 2020
Table 2: Next Generation Networking Concepts
Table 3: Comparison between SDN, NFV and NV
Table 4: Benefits of SDN
Table 5: Models of SDN
Table 6: Comparison of Key Opensource SDN Controllers
Table 7: Key Commercial SDN Controllers
Table 8: SDN Global Markets: 2015 - 2020
Table 9: SDN markets by Pilot and Commercial Deployments 2015 - 2020
Table 10: Global SDN Markets by the Use Cases 2015 - 2020
Table 11: Recent Acquisitions of SDN Start-ups
Table 12: SDN Ecosystem

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Software Defined Networking (SDN) Solutions, Market Opportunities and Forecast 2015 - 2020

Product link: https://marketpublishers.com/r/S6BF7D50AF5EN.html

Price: US$ 1,995.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/S6BF7D50AF5EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

+44 20 8123 2220
info@marketpublishers.com