

# The SDN, NFV & Network Virtualization Bible

## Datasheet: 2014 - 2020

<https://marketpublishers.com/r/SC1D821747BEN.html>

Date: September 2013

Pages: 0

Price: US\$ 1,000.00 (Single User License)

ID: SC1D821747BEN

### Abstracts

Part of the “SDN, NFV & Network Virtualization Bible: 2014 – 2020”, this datasheet provides in-depth revenue forecasts on the Software Defined Networking (SDN), Network Functions Virtualization (NFV) and generic network virtualization market.

Market forecasts and historical revenue figures from 2010 till 2020 are provided for each of the following submarkets, use base and use case categories:

#### Submarkets

SDN Software & Hardware

Non-NFV Network Virtualization Software

NFV Software SDN Submarkets

SDN Controller Hardware Appliances

SDN Controller Software

#### User Base Categories

Service Providers

Data Centers & Enterprises

#### Service Provider Use Case Categories

## Radio Access Networks

Mobile Core, EPC, IMS & Services

OSS/BSS

Data Center

Mobile Backhaul

Wireline Fixed Access Networks

CPE/Home Environment

The following regional and country markets are also covered:

### Regional Markets

Asia Pacific

Eastern Europe

Latin & Central America

Middle East & Africa

North America

Western Europe

Country Markets; Argentina, Australia, Brazil, Canada, China, Czech Republic, Denmark, Finland, France, Germany, India, Indonesia, Israel, Italy, Japan, Malaysia, Mexico, Norway, Pakistan, Philippines, Poland, Qatar, Russia, Saudi Arabia, Singapore, South Africa, South Korea, Spain, Sweden, Taiwan, Thailand, UAE, UK and USA

Additional forecasts are provided for:

SDN and NFV Induced Service Provider CapEx Savings by Region

## Contents

### LIST OF COMPANIES MENTIONED

6connect  
6WIND  
A10 Networks  
Accedian Networks  
Accton  
ActionPacked Networks  
Active Broadband Networks  
ADARA Networks  
ADTRAN  
ADVA Optical Networking  
Advantech  
AEPONYX  
Affirmed Networks  
Alcatel-Lucent  
Algar Telecom  
Alibaba  
Allot Communications  
Altaro  
ALTEN Group  
Altera Corporation  
Alvarion  
Amartus  
Amazon  
Amdocs  
Anuta Networks  
Apple  
Argela  
Aricent Group  
Arista Networks  
ARM Limited  
Arnold Consulting  
Aruba Networks  
AT&T  
aTAC Initiatives  
Avaya

Beijing Internet Institute (BII)  
Bell Canada  
Benu Networks  
Big Switch Networks  
BII Group  
Boundary  
Broadcom  
Brocade  
Browan Communications  
BSkyB  
BT  
BTI Systems  
CableLabs  
Calient Technologies  
Calsoft Labs  
Canonical  
Cariden Technologies  
Carmel Ventures  
Cavium Networks  
Celestica  
Cellcom  
Centec Networks  
CenturyLink Corporation  
Ceragon Networks  
Cetan Corporation  
Check Point Software Technologies  
China Mobile  
China Mobile (US Research Center)  
China Mobile Research Institute (CMRI)  
ChipStart  
Ciena  
CIMI Corporation  
Cisco  
Citrix  
CloudFX  
CloudNFV  
Cloudscaling  
CohesiveFT  
Colt

Comcast  
Connectem  
ConteXtream  
Contrail Systems  
Coraid  
Coriant  
Corsa Technology  
Cplane  
Cumulus Networks  
Cyan  
Dell  
Dell Force10  
Delta Electronics  
DESS GmbH and Co Consulting  
Deutsche Telekom  
Dialogic  
DirecTV  
Dorado Software  
ECI Telecom  
Ecode Networks  
Edgenet  
Edgewater Networks  
Elbrys Networks  
Electronics and Telecommunications Research Institute (ETRI)  
Elisa Oyj  
Embrane  
EMC  
Emerson Network Power  
Emulex  
Enterasys Networks  
EnterpriseWeb  
Equinix  
Ericsson  
EstiNet Technologies  
European Telecommunications Standards Institute (ETSI)  
Extreme Networks  
EZchip  
F5 LineRate Systems  
F5 Networks

Facebook  
Fiberhome Technologies  
Fidelity Investments  
Firemon  
Fishnet Security  
Flanagan Consulting  
Flash Networks  
Fortinet  
Fraunhofer FOKUS  
Freescale  
French Institute for Research in Computer Science (INRIA)  
FTW - Telecommunications Research Centre Vienna  
Fujitsu  
GE Intelligent Platforms (GE Energy)  
Gemtek Technologies  
GENBAND  
Gencore Systems  
Gigamon  
GigaSpaces Technologies  
GlimmerGlass  
Glue Networks  
GoGrid  
Goldman Sachs  
Google  
Guavus  
Hewlett-Packard (HP)  
Hitachi  
HTC  
Huawei  
IBM  
IBS Group  
Indiana University  
IneoQuest Technologies  
Infinera  
Infinetics  
Infoblox  
Inktank  
Inocybe Technologies  
Insieme Networks

Institute for Information Industry (III)  
Intel  
International Telecommunications Union (ITU)  
Internet Engineering Task Force (IETF)  
Internet Research Task Force (IRTF)  
Interphase  
Intune Networks  
IP Infusion  
Ipgallery  
ISC8  
Iskratel  
Italtel  
Ixia  
Jara Networks  
JDS Uniphase (JDSU)  
JumpGen Systems  
Juniper Networks  
Kanazawa University Hospital  
KDDI  
KEMP Technologies  
Kloudspun  
Korea Telecom  
Kulcloud  
Kyocera  
L3 Communication Systems – East  
Lagrange Systems  
Lancop  
Lanner  
Lanscope  
Layer123  
Level 3 Communications  
LG Electronics  
Locaweb  
LSI Corporation  
Lumeta  
Luxoft  
Lyatiss  
M2Mi  
Mainline Information Systems



Marist College  
Marvell  
Mavenir  
MeadowCom  
MediaTek  
Mellanox Technologies  
Mentor Graphics  
Metaswitch Networks  
MetraTech  
Microsoft  
Midokura  
Mirantis  
MKI USA  
Mojatatu Networks  
MontaVista  
Motorola  
Motorola Solutions  
MRV Communications  
Nari Networks  
Narinet  
NCL Communication (NCLC)  
Nebula  
NEC  
Nephos6  
Net Optics  
NetApp  
NetCracker Technology  
NetFlow Logic  
Netgear  
NetNumber  
Netronome  
NetScout Systems  
Netsocket  
NetStructures  
NetYCE  
NICE  
Nicira  
Nippon Express  
Nippon Telegraph and Telephone Corporation

Nissho Electronics  
Nokia Solutions & Networks (NSN)  
Nominum  
NoviFlow  
NTT Communications  
NTT Data  
NTT DoCoMo  
Nuage Networks  
Nutanix  
Object Management Group (OMG)  
ON.Lab  
One Convergence  
Open Networking Foundation (ONF)  
Open Networking Research Center (ONRC)  
Open Virtualization Alliance (OVA)  
OpenDaylight (Linux Foundation)  
Openet  
OpenStack Foundation  
Openwave Mobility  
Opera Software  
Opscode  
Optelian  
Optus  
Oracle  
Orange  
Orchestral Networks  
Orient Logic  
Overture Networks  
PacketFront Software  
Pantheon  
Paxterra Solutions  
PeakColo  
PeerApp  
Pertino  
Phillips Technology Solutions  
Pica8  
Pivotal  
Plexxi  
PLUMgrid

Pluribus Networks  
PLVision  
PMC Sierra  
Polatis  
Portugal Telecom (PT) /Oi  
Poznan Supercomputing and Network Centre  
Procera Networks  
Qosmos  
Qualcomm  
Quanta  
Rabobank  
Rackspace  
RAD Data Communications Ltd  
RadiSys  
Radware  
Real Status  
Red Bend Software  
Red Hat  
RightScale  
Riverbed Technology  
Rogers Communications  
RuahTao  
Saisei Networks  
Samsung  
Sanctum Networks  
Sandvine  
Scalr  
SCLID Innovations  
SDNSquare  
ServiceMesh  
Seven Principles  
SevOne  
Sharp  
Silver Peak  
SingTel  
SK Telecom  
Skyfire  
Snabb  
SoftBank

Solarflare Communications  
SolarWinds  
SolidFire  
Sonus Networks  
Spirent  
Splunk  
Sprint Communications  
StackIQ  
Stanford University  
Stateless Networks  
Stork Lab  
Stratosphere  
Sunbay  
Super Micro  
Swisscom  
Symantec  
SYS Software  
Tail-f Systems  
Tallac Networks  
Tata Consultancy Services  
Tech Mahindra  
Tekelec  
Tektronix  
Telchemy  
Telco Systems  
Telecom Italia  
Telefónica  
Telekom Austria  
TeliaSonera  
Tellabs  
Telstra  
Telus  
Tencent  
Tervela  
Texas Instruments (TI)  
Thales  
Tieto  
Tilera  
TM Forum

T-Mobile  
TorreyPoint  
Transmode  
Traveling GmbH  
Tucana  
Turk Telekom  
TW Telecom  
Ubicity Corporation  
UBIqube Solutions  
United Nations  
University of California, Berkeley  
UPRC  
vArmour Networks  
Vello Systems  
Verisign  
Verizon  
Verizon Wireless  
Versa Networks  
Veryx Technologies  
Virtela  
Virtual Open Systems  
VirtualLogix  
Visionael Corporation  
Vmware  
Vodafone  
VSS Monitoring  
Vyatta  
Websense  
Wind River  
Windstream Communications  
Wiretap  
WVNET  
xFlow Research  
XIUS  
Xpliant  
Xsigo  
Yahoo  
Yokogawa  
Zhong Technologies

ZTE Corporation

## About

SNS Research's latest datasheet indicates that wireless service providers will spend as much as \$415 Million on virtualizing their mobile core, EPC and IMS infrastructure in 2014 alone.

While the benefits of Software Defined Networking (SDN) and network virtualization are well known in the enterprise IT and data center world, both technologies also bring a hosts of benefits to the telecommunications service provider/carrier community.

Not only can SDN and network virtualization help address the explosive capacity demand of mobile traffic, but they can also reduce the CapEx and OpEx burden faced by service providers to handle this demand by diminishing reliance on expensive proprietary hardware platforms.

SDN and network virtualization solutions have been widely deployed in data center and enterprise environments, and many service provider deployments are already underway.

Network Functions Virtualization (NFV) is service provider led initiative aimed at virtualizing network components in a service provider network. While NFV is still a developing technology with its first set of specifications published in October 2013, many vendors have already developed commercial-grade solutions that align well with the NFV initiative.

Driven by the thriving ecosystem, SNS Research estimates that SDN and NFV investments on mobile core, EPC and IMS infrastructure will account for \$415 Million in 2014 alone.

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