

The NFV, SDN & Wireless Network Infrastructure Market: 2014 - 2020

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Abstracts

Global wireless CapEx is on the rise, as operators deploy LTE and Heterogeneous Network (HetNet) infrastructure, amid growing demands for high-speed mobile broadband connectivity. By eliminating reliance on expensive proprietary hardware platforms, Network Functions Virtualization (NFV) and Software Defined Networking (SDN) promise to reduce the CapEx burden on wireless carriers. In addition, both technologies can significantly slash OpEx due to a reduction in physical space, labor and power consumption. Driven by the promise of Total Cost of Ownership (TCO) reduction, wireless carriers are aggressively jumping on the NFV and SDN bandwagon, targeting integration across a multitude of areas including Radio Access Network (RAN), mobile core, OSS/BSS, backhaul and CPE/home environment. By 2020, SNS Research estimates that NFV and SDN investments on the RAN segment alone will account for over \$5 Billion. These investments will primarily focus on cloud RAN (C-RAN) deployments, based around the idea of replacing traditional base station nodes with a centralized baseband processing pool serving a number of distributed radio access nodes. Spanning over 1,105 pages, the 'NFV, SDN & Wireless Network Infrastructure Bible: 2014 – 2020' report package encompasses three comprehensive reports covering the conventional 2G, 3G and 4G wireless network infrastructure market as well as the HetNet and NFV/SDN markets:

[The Wireless Network Infrastructure Bible: 2014 – 2020 - Macrocell RAN, Small Cells, RRH, DAS, Cloud RAN, Carrier WiFi, Mobile Core & Backhaul](#)

[The HetNet Bible \(Small Cells and Carrier WiFi\) - Opportunities, Challenges, Strategies and Forecasts: 2013 – 2020 – With an Evaluation of DAS & Cloud RAN](#)

[The SDN, NFV & Network Virtualization Bible: 2014 - 2020](#)

This report package provides an in-depth assessment of NFV, SDN, network virtualization, 2G, 3G and 4G wireless network infrastructure, HetNet and mobile backhaul. Besides analyzing the key market drivers, challenges, commercial commitments and vendor strategies, the report package also presents forecasts for NFV, SDN, wireless network infrastructure, small cell, WiFi offload, Distributed Antenna Systems (DAS), C-RAN the mobile backhaul markets from 2014 to 2020 at a regional as well as a global scale. Historical figures and vendor shares are also provided for 2010 till 2013. The report package comes with an associated Excel datasheet suite covering quantitative data from all numeric forecasts presented in the three reports.

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LIST OF COMPANIES MENTIONED

21 VIANET GROUP

2K TELECOM

3 AUSTRIA

3 DENMARK

3 HK

3 IRELAND

3 ITALIA

3 SWEDEN

365 MEDIA

3ROAM

4IPNET

6CONNECT

6WIND

A1 Telekom

A10 Networks

Aalborg University

Aalto-University

Ablaze

Accedian
Accedian Networks
Accel Partners
Accelleran
Accton
Accuris Networks
Acer
Acme Packet
Actelis
ActionPacked Networks
Active Broadband Networks
Actix
Adams NetWorks
ADARA Networks
Adara Venture Partners
ADLINK
ADTRAN
ADVA
ADVA Optical Networking
Advanced RF Technologies
Advanced Wireless Technology Group (AWTG)
Advantech
Aepona
AEPONYX
Aero2
Aerohive
Aeronet
Affirmed Networks
Agilent Technologies
AICENT
Aircel
Aircell (Gogo Inflight Internet)
Aircom International
AirHop Communications
Airspan
Airtel Nigeria
Airvana
AIS/DPC Thailand
AJ Telecom Group

Al Madar
Alaska Communications
Albis Technologies
Albtelecom
Alcatel-Lucent
Alfa
Algar Telecom
Algar Telecom (CTBC)
Algerie Telecom
Alibaba
Allot Communications
Alpha Networks
Altaro
Altel
ALTEN Group
Altera
Altera Corporation
Altobridge
Alvarion
AlwaysOn
Amadeus Capital Partners
Amartus
Amazon
Amdocs
American Tower Corporation
Andorra Telecom
Andrew Corporation
Andrew/CommScope
Anite
Anixter
Anritsu
Antares Group
Antel
Anuta Networks
Anvaya Networks
Anziva Technologies
Aoptix
Apple
Applied Communication Sciences

Aptilo
Aptilo Networks
Aqiva Wireless
Aquaфон
Argela
Aria
Aricent
Aricent Group
Arieso
Arista Networks
ARItel
ARM Limited
Armentel
Arnold Consulting
Arqiva
Aruba Networks
Asahi Kasei Microdevices
Asiaspace
Askey
Askey Computer Corporation
ASOCS
Association of Radio Industries and Businesses (ARIB) – Japan
Astellia
ASUS
AT&T
AT&T Mobility
aTAC Initiatives
Athena Wireless Communications
Atomico
Atrica
Augere Bangladesh
August Capital
Avanti
Avaya
Avea
Aviat Networks
Axell Wireless
Axerra Networks
Axis Teknologies

Azercell
Azerfon
b-lite
Babilon Mobile
Babilon-T
Bakcell
Bakrie Telecom
BandwidthX
Batelco
Bayan Telecommunications
BayRICS
Beeline
Beeline Lao
Beijing Internet Institute (BII)
BelAir Networks (Ericsson)
BelCel
Belgacom
Belgacom / Proximus
Belgacom International Carrier Services (BICS)
Bell Canada
Bell Mobility
BendBroadband
Benu Networks
BeST (Life)
Best Western
BH Telecom
Bharti Airtel
Bhutan Telecom
Big Switch Networks
BigAir
BII Group
Birdstep Technology ASA
BL Companies
Black & Veatch
Black Box Corporation
BLiNQ Networks
Bluegrass Cellular
Blueline
BluWan

BMW
Boingo Wireless
Bollere Telecom
Boundary
Bouygues Telecom
Brazil Army
Brazil Sao Paulo Military Police
BridgeWave Communications
Broadband Forum
Broadcom
BroadHop
BroadSoft
Brocade
Browan
BSG Wireless
BSkyB
BSNL
BT
BTC
BTI Systems
BTI Wireless
BTL
BUCD
Bulgaria Vivacom
BURCO
Byers Engineering Company
C Spire Wireless
C&S
Cable & Wireless Communications
Cable and Wireless
CableLabs
Cablevision
Calient Technologies
Calsoft Labs
Cambium Networks
Cambridge Broadband Networks (CBNL)
Canoga Perkins
Canonical
Cariden Technologies

Carmel Ventures
Carolina West Wireless
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CBL Bahamas
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Cell C South Africa
Cellcom
Cello (Optiway and Cellvine)
Cellular Asset Management
Cellular One of East Central Illinois
Cellular Specialties Inc. (Now CSI Solutions Group of Goodman Networks)
Cellvine
Celtro
Centec Networks
CenturyLink
Ceragon
Ceragon Networks
Cetan Corporation
Chalmers University of Technology
Chariton Valley Comms
Charles Industries
Charles River Ventures
Chat Mobility
Check Point Software Technologies
China Communications Standards Association (CCSA) – China
China Mobile
China Mobile (US Research Center)
China Mobile Hong Kong
China Mobile Research Institute (CMRI)
China Netcom
China Telecom (China Telecommunications Corporation)
China Unicom (China United Network Communications Group Company Limited)

ChipStart
CHT
Chunghwa Telecom
Cielo
Ciena
CIMI Corporation
Cincintaci Bell
Cisco
Citrix
City of Charlotte Council
Claro
Clear Mobitel
ClearSky
Clearwire
Cloudberry Mobile
CloudFX
CloudNFV
Cloudscaling
CM Capital
CNS
CNT
Cobham/Axell Wireless
Coherent Logix
CohesiveFT
Colorado Valley
Colt
Comba
Comcast
Commnet Wireless
CommScope
Communication Components Inc. (CCI)
Conexant
Connectem
Connectivity Wireless
Contela
ConteXtream
Continuous Computing
Contrail Systems
Convergence Technologies

Copper Valley Telecom
Coraid
Coral Group
Coriant
Corning/MobileAccess
Corsa Technology
Cosmote
COTA Murcia4G
Cox Communications
Cplane
Craig Wireless
Cross Telephone
Crown Castle
CS Corporation
CSI
CSL Limited
CTIA
Cuddy & Feder, LLP
Cumulus Networks
Custer Telephone
Cyan
Dali Wireless
Dapu Telecom
DAS Advisers
Datame
Datang Mobile (DTM)
Datang Telecom
Davis Wright Tremaine, LLP
DBD
Dedicado
Dell
Dell Force10
Delta Electronics
Delta Partners
DeltaNode
DesignArt Networks
DESS GmbH and Co Consulting
Deutsche Telekom
Devicescape Software

Dhiraagu
Dialog Axiata LTE TDD later FDD
Dialogic
DiGi
Digicel
Digicel Fiji
Digitel
Digitel Jamaica
DirecTV
Dish Network
D-Link
D-Link Corporation
DNA
DoCoMo Euro-Labs
DoCoMo interTouch (USA) Inc.
DoCoMo Pacific
Dorado Software
DragonWave
Draka — Prysmian Group
DTAC – TriNet
Du
E Plus
eAccess
Eastlink
E-Band Communications
ECI Telecom
Ecode Networks
Econet Wireless
Eden Rock Communications
Edgenet
Edgewater Networks
Edgewater Wireless
EDX Wireless
EE (Everything Everywhere)
EION
Eircom
Elbrys Networks
Electronics and Telecommunications Research Institute (ETRI)
Elisa

Embrane
EMC
Emerson Network Power
EMT
Entel
Emulex
EnergyAustralia Ausgrid
EnGenius
Entel Movil
Entel PCS
Entel Peru
Enterasys
Enterasys Networks
Enterprise Partners
EnterpriseWeb
Equinix
ERA/T-Mobile Poland
Ericsson
Ericsson-LG
Errigal
EstiNet Technologies
ETC
Etex Telephone Co-op
EtherReach
Ethertronics
Ethio Telecom
Ethos
Etisalat
Etisalat Misr
ETRI
European Telecommunications Standards Institute (ETSI)
Evolve Broadband
Exalt
EXFO
ExteNet Systems
Extreme Networks
Eye-Fi
EZchip
F5 LineRate Systems

F5 Networks
Facebook
FarEasTone
FastBack Networks
Fastlink (Regional Telecom)
Femtel
Fiberhome Technologies
FibroLAN
Fidelity Investments
Firemon
Firetide
Fishnet Security
Fitel
Fjarskipti (Vodafone Iceland)
Flanagan Consulting
Flash Networks
Flash Wireless
FON Wireless
Fortinet
Foundation Capital
FPT Telecom
Fraunhofer FOKUS
Fraunhofer-Gesellschaft
Free Mobile
Freescale Semiconductor
French Institute for Research in Computer Science (INRIA)
Front Porch
FTW - Telecommunications Research Centre Vienna
Fujitsu
Fujitsu Siemens
Fullerton Engineering Consultants Inc.
Galtronics
GE Intelligent Platforms (GE Energy)
Gemtek Technologies
Genband
Gencore Systems
General Communication Inc. (GCI)
Georgia Magticom
Gigamon

GigaSpaces Technologies
GlimmerGlass
Glo Mobile
Globacom
Global Mobile
Global Telecom Holding (formerly Orascom)
Global Tower Partners
Global Wireless Technologies (GWT)
Globe
Glue Networks
GoGrid
Goldman Sachs
GoNet Systems
Goodman Networks
Google
Gore (W. L. Gore & Associates)
GoS Networks
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Green Mountain Communications Inc.
Green Packet
GrenTech
GSMA
Guavus
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Kleiner Perkins Caufield & Byers
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Korea Telecom (KT)
KPN

KPU (Alaska)
KT
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Kulcloud
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L3 Communication Systems – East
Lagrange Systems
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Lanka Bell
Lanner
Lanscope
Lantiq
Lattelecom
Layer123
Leap Wireless/Cricket
Level 3 Communications
LG Electronics
LG Uplus
LightPoint Communications
Lightsquared
LIME
Linkem
Iliad group
LMT
Locaweb
Lord & Company Technologies
LSI Corporation
LTC
Lumeta
Luxoft
Lyatiss
M1
M2Mi
Madison Dearborn Partners
Mainline Information Systems
Manx Telecom
Marist College
Marriott International

Marvell
Mascom Wireless
Massnet
Matrix Partners
Mavenir
Maverick Corporation
MAX Telecom
Maxim Integrated
Maxis
MaxyTel
MeadowCom
MediaTek
Megafon
Mellanox Technologies
Menatelecom
Mentor Graphics
Mentum
Meru Networks
Mesaplexx
Metaswitch Networks
Meteor
MetraTech
metroPCS
Microlab — A Division of Wireless Telecom Group
Microsoft
Microwave Networks
Midokura
Mid-Rivers Communications
MIKOM
Milmex
mimoOn
Mindspeed Technologies
Minieum Networks
Ministry of Industry, Development and Reform Commission - China
Ministry of Science - China
Ministry of Science, ICT and Future Planning (MSIP) - Korea
Mirantis
MiSpot
MKI USA

Mobile Norway/Tele2
Mobile TeleSystems OJSC (MTS)
MobileAccess
Mobily
Mobinil
Mobistar
Mobitel
Mojatatu Networks
Moldcell
Moldtelecom
Monaco Telecom
Mongolia Telecom
MontaVista
Mosaic Telecom
Motorola
Motorola Mobility
Motorola Solutions
Movitel
Movilmax
Movilnet
Movilnet Venezuela
Movistar
MRV Communications
MTA
MTC
MTC Touch
M-Tel
MTN
MTN Uganda
MTNL
MTPCS
MTS
MTS Allstream
MTS Belarus
MTS Ukraine
Myanmar P & T
Nari Networks
Narinet
Nash Technologies

National and Kapodistrian University of Athens

Nawras

NBN Co.

Ncell

NCL Communication (NCLC)

Nebula

NEC

Neo-Sky

Neotel

Nepal Telecom

Nephos6

Net Optics

NetApp

NetCracker Technology

NetFlow Logic

NetGear

Netgem

Netia Poland

NetNumber

Netronome

NetScout Systems

Netsocket

NetStructures

Network Norway

NetYCE

NewNet

NewPath Networks

Nexius

NextG Networks

NextGenTel

Nextivity

NextWave Wireless

NICE

Nicira

Nippon Express

Nippon Telegraph and Telephone Corporation

Nissho Electronics

NITA

Node-H

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Nokia Solutions & Networks (NSN)
Nomadix
Nominum
Nomor Research
Nortel
NorthwestCell
Nova
NoviFlow
Nsight
nTelos
NTT Broadband Platform
NTT Communications
NTT Data
NTT DoCoMo
NTT-ME
Nuage Networks (Alcatel-Lucent)
Nutanix
O2 (Telefónica UK Limited)
O2 Secure Wireless
Object Management Group (OMG)
Octasic
Oi
Oi Brasil
Omantel
Omnitel
On Telecomunicacoes
ON.Lab
ONE
One Convergence
Ooredoo
Open Mobile
Open Mobile Alliance (OMA)
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
Opticon
Optimus
Optimus Portugal
Option N.V.
Optiway
Optus
Opus Capital
Oracle
Orange
Orange (France Telecom)
Orange Armenia
Orange Austria
Orange Dominicana
Orange France
Orange Israel
Orange Liechtenstein
Orange Luxembourg
Orange Mauritius
Orange Moldova
Orange Romania
Orange Slovak Republic
Orange Spain
Orange Switzerland
Orange Uganda
Orchestral Networks
Orckit Corrigent
Orient Logic
Osnova Telecom
Overture Networks
P&T
P1 Networks
P4 (Play)
PacketFront Software
Pandetel
Panhandle Telephone Co-op

Pantheon
Paxterra Solutions
PCCW
PeakColo
PeerApp
Pennington Law Firm
Peoples Telephone Co-op
Percello
Personal
Pertino
Phillips Lytle, LLP
Phillips Technology Solutions
Pica8
picoChip
Pioneer Cellular
Pivotal
Pletronics
Plexxi
PLUMgrid
Pluribus Networks
PLVision
PMC Sierra
Polatis
Polkomtel Plus
Portugal Telecom (PT) /Oi
Positron-Aktino
Powerwave Technologies
Poznan Supercomputing and Network Centre
Poznan University of Technology
Procera Networks
Proxim
Psion
PT Telkom
PTK Centertel (Orange)
PTS
Public Mobile
Public Service Wireless
Public Wireless
PureWave Networks

PVT
Qosmos
Quadriga Worldwide
Qualcomm
Qualcomm Atheros
Qualcomm Technologies
Quanta
QuCell
Quortus
R (Spain)
Rabobank
Rackspace
RAD Data Communications Ltd
Radisys
Radware
RADWIN
Rakon
RCS & RDS
Real Status
Red Bend Software
Red Hat
Red.es
Redline Communications
REDtone
Reliance
Reliance Telecom
Republic Wireless
Retis
Reverb Networks
RF Connect
RF Window
RFNet
RFS (Radio Frequency Systems)
RightScale
RIM
Riverbed Technology
Rogers Communications
Rogers Wireless
Rostelecom

Ro-Timak Technology
R-TRON
RuahTao
Ruckus Wireless
RusViet Telecom
RWTH Aachen
S and R Communications
S&T Telephone Cooperative
Safaricom
Sagebrush Cellular (Nemont)
Sagem
Sagemcom
SAI Technology
Saima Telecom
Saisei Networks
Samsung
Samsung Electronics
Samsung Ventures Europe
Sanctum Networks
Sandvine
Sasktel
Sazz
SBA Communications
Scalr
SCLID Innovations
SDNSquare
Sequoia Capital
Sercom
SerComm
ServiceMesh
Seven Principles
SevOne
SFR
SGRITA
Sharp
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Silver Peak
Siminn
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Sistel Networks
SK Telecom
SK Telesys
Sky Brazil
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Skype
Small Cell Forum
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Smartone
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Smith Micro Software
Smoltelecom
Snabb
SoftBank
SoftBank Mobile
Solarflare Communications
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SOLiD Technologies
SolidFire
Sonus Networks
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Splunk
Sprint
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Sprocket Wireless
SRT Communications
SSTL

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Stanford University
Star Microwave
Starcomms
StarHub
Starwood
Stateless Networks
STC
Stoke
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Swisscom
Sycamore
Sym Technology
Symantec
Symmetricom
Syniverse Technologies
Syringa Wireless
SYS Software
Sysnet Integrators
Tail-f Systems
Taiwan Mobile
Tallac Networks
Talley
Tango
Tango Networks
Taqua
Tarana Wireless
Tata Consultancy Services
Tata Elxsi

Tata Teleservices
TDC
TE Connectivity (Tyco Electronics Connectivity)
Tech Mahindra
Technology Committee (TTC) – Japan
Tecom
Tekelec
TEKTELIC
Tektronix
Telcel
Telchemy
Telco Systems
Tele2
Tele2 Kazakhstan
Tele2 Sweden
Telecom Italia
Telecom Italia Mobile (TIM)
Telecom Malaysia
Telecom New Zealand
Telecommunications Association (TTA) – Korea
Telecommunications Industry Association (TIA) – USA
Telefónica
Telefónica Moviles
Telefonica Movistar
Telefonica O2 Ireland
Telefonica O2 UK
Telefonica Peru
Telefonica Spain
Telekom Austria
Telekom Srpske
Telenet Belgium
Telenor
Telenor Denmark
Telenor Hungary
Telenor Montenegro
Telenor Norway
Telenor Sweden
Telesis
TeliaSonera

TeliaSonera Norway
TeliaSonera Sweden
Telkom Mobile (8ta)
Telkomsel Indonesia
Tellabs
Telrad
Telstra
Telus
Telus Mobility
Tempest Telecom
Tencent
Tervela
TESSCO
Texas Christian University
Texas Energy Network
Texas Instruments
Texas Instruments (TI)
TFL
Thales
The Canadian Pension Plan Investment Board.
The Cloud
The Family Office
Thomson
Three UK
T-Hrvatski Telekom
Thumb Cellular
Tieto
Tigo
Tikona
Tilera
TIM Brasil
Time Warner Cable
TM Forum
TMC
TMN (Portugal Telecom)
T-Mobile
T-Mobile Austria
T-Mobile Czech Republic
T-Mobile Hungary

T-Mobile Macedonia
T-Mobile Netherlands
T-Mobile Puerto Rico
T-Mobile Slovensko
T-Mobile UK
T-Mobile USA
TN Mobile
TorreyPoint
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TRaC Global
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Tranzeo
Traveling GmbH
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Tricom
Tropos
True Move
TSKL
TTK
Tucana
Tunisian
Turk Telekom
Turkcell
TVM Capital GmbH
TW Telecom
Tyco Electronics Connectivity
U Mobile
U.S. Cellular
Ubee Interactive
Ubee-AirWalk
Ubicity Corporation
Ubidyne GmbH
UBIqube Solutions
Ubiquisys

Ubiquiti Networks
u-blox
UCell
UK Broadband
Ulusnet
Umniah
Une-EPM
Union Wireless
United Nations
United Wireless
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Vimpelcom
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VIP mobile
VIPNet

Virgin Media
Virtela
Virtual Open Systems
VirtualLogix
Visafone Communications
Visionael Corporation
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Vivacell-MTS
Vivato
Vivo
VMWare
Vodacom
Vodacom Tanzania
Vodafone
Vodafone Australia
Vodafone Canada
Vodafone Czech Republic
Vodafone Egypt
Vodafone Fiji
Vodafone Germany
Vodafone Greece
Vodafone Hungary
Vodafone Ireland
Vodafone Italy
Vodafone Netherlands
Vodafone New Zealand
Vodafone Portugal
Vodafone Qatar
Vodafone Romania
Vodafone Spain
Vodafone UK
Vox
VSS Monitoring
VTel Wireless
Vubiq
Vyatta
Wataniya Telecom
WBS (iBurst)
Websense

WeFi
West Central Wireless
Wes-Tec
Westell Technologies
Wi-Ex
Wi-Fi Alliance
Wilson Electronics
WiMAX Forum
Wind
Wind Mobile
Wind River
Windstream Communications
Wintegra
Wireless Broadband Alliance
Wireless Infrastructure Association (PCIA)
Wiretap
Wistron NeWeb Corp (WNC)
Woosh
WVNET
xFlow Research
Xilinx
XIUS
XL Axiata
Xpliant
Xplornet
Xsigo
Yahoo
Yoigo
Yokogawa
Yota
Yota (Russia)
YTL Communications Yes
Zain
Zain Bahrain
Zain Jordan
Zain Kuwait
Zain Saudi Arabia (Zain KSA)
Zamtel
Zhone

Zhone Technologies

Ziggo

Zinwave

Zoda Fones

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ZTE

About

Software Defined Networking (SDN) is new networking model where control of the network is decoupled from the physical hardware allowing a logically centralized software program to control the behavior of an entire network. This results in reduced reliance on proprietary networking hardware, increased network efficiency, centralized traffic engineering, faster time to troubleshooting and new feature deployment. SDN also complements network virtualization by facilitating the creation of multiple virtual networks running over a common physical network fabric.

Network functions virtualization (NFV) is a service provider initiative that is often linked to SDN. NFV aims to virtualize and effectively consolidate many network equipment types onto multi-tenant industry-standard servers, switches and storage to lower cost, improve efficiency and increase agility.

While the benefits of 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 NFV 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 has been widely deployed in data center and enterprise environments, and many service provider deployments are already underway. 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 the SDN, NFV and network virtualization market will account for nearly \$4 Billion in 2014 alone. Despite barriers relating to standardization and co-existence with legacy networks, SNS Research estimates further growth at a CAGR of nearly 60% over the next 6 years.

This report presents an in-depth assessment of the global SDN, NFV and network virtualization market. In addition to covering underlying technology, key market drivers, challenges, future roadmap, value chain analysis, deployment case studies, expert

interviews, company profiles, product strategies and strategic recommendations, the report also presents comprehensive forecasts for the market from 2013 till 2020. Historical revenue figures for 2010 - 2012 are also presented. The forecasts and historical revenue figures are individually segmented for 3 individual submarkets, 2 user base categories, 7 use case categories, 6 geographical regions and 34 countries.

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