The NFV, SDN & Wireless Network Infrastructure Market: 2016 - 2030 - Opportunities, Challenges, Strategies and Forecasts

Description:
Service providers continue to face increasing CapEx and OpEx burdens, amid growing requirements for high-speed mobile broadband services. By eliminating reliance on expensive proprietary hardware platforms, NFV (Network Functions Virtualization) and SDN (Software Defined Networking) promise to reduce service provider CapEx. In addition, both technologies can significantly slash OpEx due to a reduction in physical space, labor and power consumption.

Driven by the promise of TCO (Total Cost of Ownership) reduction, mobile operators are aggressively jumping on the NFV and SDN bandwagon, targeting deployments across a multitude of areas. By the end of 2020, estimates suggest that NFV and SDN investments on service provider networks will account for over $18 Billion. These investments will initially focus on EPC/mobile core, IMS, policy control, CPE (Customer Premises Equipment), CDN (Content Delivery Network) and transport networks.

Spanning over 1,600 pages, the "NFV, SDN & Wireless Network Infrastructure Market: 2016 - 2030 - Opportunities, Challenges, Strategies and Forecasts" report package encompasses three comprehensive reports covering covering NFV, SDN, conventional 2G, 3G, 4G & 5G wireless network infrastructure and HetNet (Heterogeneous Network) infrastructure:

- The SDN, NFV & Network Virtualization Ecosystem: 2016 - 2030 - Opportunities, Challenges, Strategies & Forecasts
- The Wireless Network Infrastructure Ecosystem: 2016 - 2030 - Macrocell RAN, Small Cells, C-RAN, RRH, DAS, Carrier Wi-Fi, Mobile Core, Backhaul & Fronthaul
- The HetNet Ecosystem (Small Cells, Carrier Wi-Fi, C-RAN & DAS): 2016 - 2030 - Opportunities, Challenges, Strategies & Forecasts

This report package provides an in-depth assessment of NFV, SDN, network virtualization, 2G, 3G, 4G & 5G wireless network infrastructure and HetNet gear. Besides analyzing enabling technologies, key trends, market drivers, challenges, use cases, mobile operator case studies, regional CapEx commitments, regulatory landscape, standardization, opportunities, future roadmap, value chain, ecosystem player profiles and strategies, the report package also presents revenue and unit shipment forecasts for multiple submarkets including:

Conventional 2G, 3G, 4G & 5G Wireless Network Infrastructure
- Macrocell RAN Base Stations
- Macrocell Backhaul
- Mobile Core

HetNet Infrastructure
- Small Cells
- Small Cell Backhaul
- Carrier Wi-Fi
- C-RAN (Centralized RAN)
- C-RAN Fronthaul
- DAS (Distributed Antenna Systems)

NFV
- Hardware Appliances
- Orchestration & Management Software
- VNF (Virtualized Network Function) Software

SDN
The report package comes with an associated Excel datasheet suite covering quantitative data from all numeric forecasts presented in the report package.

Key Questions Answered:

The report package provides answers to the following key questions:

- How is the 2G, 3G, 4G & 5G wireless network infrastructure market evolving by segment and region?
- Which 2G, 3G, 4G & 5G technology constitutes the highest amount of spending and how will this evolve overtime?
- What is the global and regional outlook for RAN and mobile core submarkets?
- How will the market shape for HetNet infrastructure such as small cells, C-RAN and DAS?
- How will Wi-Fi fit into future network architectures for access and offload?
- What is the opportunity for mobile transport networking gear, and what new backhaul/fronthaul solutions are evolving?
- How big is the SDN, NFV and network virtualization opportunity?
- What trends, challenges and barriers are influencing its growth?
- What will the market size be in 2020 and at what rate will it grow?
- Which regions, submarkets and countries will see the highest percentage of growth?
- How are service provider led initiatives driving SDN and NFV investments?
- How does regulation impact the adoption of SDN and NFV centric networks?
- How can NFV make the VoLTE (Voice over LTE) business case work?
- How can software defined DPI (Deep Packet Inspection) complement SDN functionality?
- What level of CapEx savings can SDN and NFV facilitate for service providers?
- Do SDN and NFV pose a threat to traditional network infrastructure vendors?
- Who are the key market players and what are their strategies?
- Is there a ring leader in the SDN and NFV ecosystem?
- What strategies should enabling technology providers, network infrastructure vendors, mobile operators and other ecosystem players adopt to remain competitive?

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2.9: Wireless Network Infrastructure Incumbents
9.1 Cisco Systems
9.2 Ericsson
9.3 Fujitsu
9.4 Hitachi
9.5 Huawei
9.6 NEC Corporation
9.7 Nokia Networks & Alcatel-Lucent
9.8 Samsung Electronics
9.9 ZTE

2.10: Macrocell RAN, Small Cell, C-RAN & Mobile Core Specialists
10.1 Accelleran
10.2 Adax
10.3 ADB
10.4 Affirmed Networks
10.5 Airspan Networks
10.6 Alpha Networks
10.7 Altiostar Networks
10.8 Arcadyan Technology Corporation
10.9 Argela
10.10 ARItel
10.11 Artemis Networks
10.12 Askey Computer Corporation
10.13 ASOCS
10.14 Athonet
10.15 Athena Wireless Communications (Google)
10.16 Axxcelera Broadband Wireless (Moseley Associates)
10.17 Brocade Communications Systems
10.18 Casa Systems
10.19 CCI (Competitive Companies, Inc.)
10.20 Contela
10.21 CS Corporation
10.22 Datang Mobile
10.23 Dongwon T&i
10.24 Femtel (Suzhou Femtel Communications)
10.25 Gemtek Technology Company
10.26 GENBAND
10.27 GWT (Global Wireless Technologies)
10.28 HP (Hewlett-Packard)
10.29 ip.access
10.30 Juni Global
10.31 Juniper Networks
10.32 Lemko
10.33 LGS Innovations
10.34 Mitel Networks Corporation
10.35 New Postcom Equipment Company
10.36 NewNet Communication Technologies
10.37 Nutaq
10.38 Oceus Networks
10.39 Panda Electronics (Nanjing Panda Electronics Company)
10.40 Parallel Wireless
10.41 Polaris Networks
10.42 Potevio (China Potevio Company)
10.43 Quanta Computer
10.44 Qucell
10.45 Quortus
10.46 Redline Communications
10.47 Sagemcom
10.48 Samji Electronics Company
10.49 SerComm Corporation
10.50 SK Telesys
10.51 SpiderCloud Wireless
10.52 Star Solutions
10.53 Sunnada (Fujian Sunnada Communication Company)
10.54 Taqua
10.55 Tecom
10.56 TEKTELCIC Communications
10.57 Telum
10.58 Telrad Networks
10.59 WNC (Wistron NeWeb Corporation)
10.60 Z-Com (ZDC Wireless)

2.11: Antenna, DAS & Repeater Solution Specialists
11.1 AceAxis
11.2 ADRF (Advanced RF Technologies)
11.3 Affarii Technologies
11.4 American Tower Corporation
11.5 Arqiva
11.6 Axis Teknologies
11.7 Black Box Corporation
11.8 BTI Wireless
11.9 CCI (Communication Components Inc.)
11.10 CCI (Crown Castle International)
11.11 CCI Systems
11.12 Cobham Wireless
11.13 Comba Telecom Systems Holdings
11.14 CommScope
11.15 Corning
11.16 Dali Wireless
11.17 DeltaNode (Bird Technologies)
11.18 Ethertronics
11.19 ExteNet Systems
11.20 Foxcom
11.21 Galtronics
11.22 Goodman Networks
11.23 GrenTech (China GrenTech Corporation)
11.24 JRC (Japan Radio Company)
11.25 JMA Wireless
11.26 Kisan Telecom
11.27 KMW
11.28 Kathrein-Werke KG
11.29 MER-CellO Wireless Solutions
11.30 Microlab (Wireless Telecom Group)
11.31 MTI Mobile
11.32 Nexius
11.33 Nextivity
11.34 RF Window
11.35 RFS (Radio Frequency Systems)
11.36 Rosenberger
11.37 SOLiD (SOLiD Technologies)
11.38 Sumitomo Electric Industries
11.39 Sunwave Communications
11.40 TESSCO Technologies
11.41 Westell Technologies
11.42 Zinwave

2.12: Carrier Wi-Fi Specialists
12.1 4ipnet
12.2 ABB
12.3 Accuris Networks
12.4 Aerohive Networks
12.5 Alvarion Technologies
12.6 Aptilo Networks
12.7 Aruba Networks
12.8 Autelan
12.9 BandwidthX
12.10 Birdstep Technology
12.11 Browan Communications
12.12 BSG Wireless
12.13 D-Link Corporation
12.14 Edgewater Wireless Systems
12.15 EION Wireless
12.16 Firetide
12.17 Fortinet
12.18 Front Porch
12.19 GoNet Systems
12.20 Handlink Technologies
12.21 Meru Networks
12.22 Netgem
12.23 NETGEAR
12.24 Nomadix
12.25 Panasonic Corporation
12.26 Ro-Timak Technology
12.27 Ruckus Wireless
12.28 Senao Networks
12.29 Smith Micro Software
12.30 SpectrumMax
12.31 Syniverse Technologies
12.32 TP-LINK Technologies
12.33 Tranzeo Wireless Technologies
12.34 Ubiquiti Networks
12.35 WeFi
12.36 Zebra Technologies Corporation
12.37 ZyXEL

2.13: Enabling Technology Providers
13.1 6WIND
13.2 Ablaze Wireless
13.3 Absolute Analysis
13.4 Accelink Technologies
13.5 ADLINK Technology
13.6 ADI (Analog Devices Inc.)
13.7 Advantech
13.8 AirHop Communications
13.9 AKM (Asahi Kasei Microdevices)
13.10 Allot Communications
13.11 Amarisoft
13.12 Amdocs
13.13 Anritsu Corporation
13.14 Aricent
13.15 ARM Holdings
13.16 Astella
13.17 ASTRI (Hong Kong Applied Science and Technology Research Institute)
13.18 Artesyn Embedded Technologies
13.19 Artiza Networks
13.20 Avago Technologies
13.21 Azcom Technology
13.22 Benetel
13.23 Blu Wireless Technology
13.24 Broadcom Corporation
13.25 Cadence Design Systems
13.26 Cavium
13.27 CeedTec
13.28 Cellwize
13.29 Celtro
13.30 Coherent Logix
13.31 Comcores ApS
13.32 CommAgility
13.33 D2 Technologies
13.34 Dell
13.35 Direct Beam
13.36 eASIC Corporation
13.37 EDX Wireless
13.38 Eoptolink Technology
13.39 ERCOM
13.40 EXFO
13.41 Federated Wireless
13.42 Faraday Technology Corporation
13.43 Finisar Corporation
13.44 GigaLight (Shenzhen Gigalight Technology Company)
13.45 GlobalFoundaries
13.46 Hisense (Hisense Broadband Multimedia Technology)
13.47 HG Genuine
13.48 IDT (Integrated Device Technology)
13.49 IMEC International
13.50 InfoVista
13.51 InnoLight Technology Corporation
13.52 Intel Corporation
13.53 InterDigital
13.54 iPosi
13.55 Ixia
13.56 Keysight Technologies
13.57 Kumu Networks
13.58 Lattice Semiconductor
13.59 Lime Microsystems
13.60 Lumentum
13.61 Macom (M/A-COM Technology Solutions)
13.62 Maxim Integrated
13.63 Mellanox Technologies
13.64 Microsemi Corporation
13.65 Mitsubishi Electric Corporation
13.66 Mobiveil
13.67 Molex
13.68 Nash Technologies
13.69 NetScout Systems
13.70 Node-H
13.71 Nomor Research
13.72 NXP Semiconductors
13.73 OE Solutions
13.74 Octasic
13.75 Optulink
13.76 P.I. Works
13.77 Pletronics
13.78 PMC-Sierra
13.79 Procera Networks
13.80 Public Wireless
13.81 Qualcomm
13.82 Qulsar
13.83 QEOS
13.84 Qwilt
13.85 RADCOM
13.86 Radisys Corporation
13.87 Rakon
13.88 Red Hat
13.89 Reverb Networks
13.90 RF DSP
13.91 Saguna Networks
13.92 SAI Technology
13.93 Sarokal Test Systems
13.94 Silicon Labs
13.95 Sistelbanda
13.96 Source Photonics
13.97 Tata Elxsi
13.98 TEOCO Corporation
13.99 TI (Texas Instruments)
13.100 Tulinx
13.101 U-blox
13.102 Vectron International
13.103 Viavi Solutions
13.104 VPIsystems
13.105 WiPro
13.106 XCellAir
13.107 Xelic
13.108 Xilinx

2.14: Mobile Backhaul & Fronthaul Vendors
14.1 3Roam
14.2 4RF
14.3 Accedian Networks
14.4 Actelis Networks
14.5 Actiontec
14.6 Actus Networks
14.7 ADTRAN
14.8 ADVA Optical Networking
14.9 Advantech Wireless
14.10 ALAXALA Networks
14.11 Albis Technologies
14.12 ALCOMA
14.13 Allied Data Technologies
14.14 Allied Telesis
14.15 Aquantia
14.16 Arris
14.17 Avanti Communications
14.18 Aviat Networks
14.19 AVM
14.20 BLINQ Networks
14.21 BluWan
14.22 BridgeWave Communications
14.23 BTI Systems
14.24 CableFree Solutions
14.25 Calix
14.26 Cambium Networks
14.27 Canoga Perkins
14.28 Carlson Wireless Technologies
14.29 CBNL (Cambridge Broadband Networks Ltd.)
14.30 CCS (Cambridge Communication Systems)
14.31 Ceragon
14.32 Cielo Networks
14.33 Ciena Corporation
14.34 Comtrend
14.35 Corecess
14.36 Coriant
14.37 DASAN Networks
14.38 DragonWave
14.39 E-Band Communications (Moseley Associates)
14.40 EBlink
14.41 ECI Telecom
14.42 Elva-1
14.43 Exalt Communications
14.44 Extreme Networks
14.45 FastBack Networks
14.46 Fiberhome Technologies
14.47 FibroLan
14.48 Genmix Technology
14.49 Gilat Satellite Networks
14.50 HFR
14.51 Huahuan
14.52 Hughes Network Systems
14.53 HXI
14.54 iDirect
14.55 Infinera
14.56 Intracom Telecom
14.57 IPITEK
14.58 Iskratel
14.59 KEYMILE
14.60 LightPointe Communications
14.61 Loea Corporation
14.62 MAX4G
14.63 Microwave Networks
14.64 MIMOtech
14.65 MRV Communications
14.66 Nexcomm Systems
14.67 NexxComm Wireless
14.68 Omnitron Systems
14.69 OneAccess Networks
14.70 Polewall
14.71 Positron
14.72 Proxim Wireless Corporation
14.73 RACOM
14.74 RAD Data Communications
14.75 RADWIN
14.76 SAF Tehnika
14.77 SIAE Microelectronics (SIAE Microelectronica)
14.78 Siklu
14.79 SkyFiber
14.80 SMC Networks
14.81 Solectek
14.82 Star Microwave
14.83 Tarana Wireless
14.84 Telco Systems
14.85 Tellion
14.86 Tellumat
14.87 Telsey
14.88 Tilgin
14.89 Trango Systems
14.90 Ubiquoss
14.91 UTStarcom
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Report 3: The HetNet Ecosystem (Small Cells, Carrier Wi-Fi, C-RAN & DAS): 2016 - 2030 - Opportunities, Challenges, Strategies & Forecasts

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10.9 Argela
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10.21 CS Corporation
10.22 Datang Mobile
10.23 Dongwon T&I
10.24 Femtel (Suzhou Femtel Communications)
10.25 Gemtek Technology Company
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10.28 HP (Hewlett-Packard)
10.29 ip.access
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10.33 LGS Innovations
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10.35 New Postcom Equipment Company
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10.43 Quanta Computer
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10.45 Quortus
10.46 Redline Communications
10.47 Sagemcom
10.48 Samji Electronics Company
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10.51 SpiderCloud Wireless
10.52 Star Solutions
10.53 Sunnada (Fujian Sunnada Communication Company)
10.54 Taqua
10.55 Tecom
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11.7 Black Box Corporation
11.8 BTI Wireless
11.9 CCI (Communication Components Inc.)
11.10 CCI (Crown Castle International)
11.11 CCI Systems
11.12 Cobham Wireless
11.13 Comba Telecom Systems Holdings
11.14 CommScope
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