

Network Functions Virtualization (NFV) Market: Business Case, Market Analysis and Forecasts 2015 - 2020

<https://marketpublishers.com/r/N2EF751E9E9EN.html>

Date: January 2015

Pages: 116

Price: US\$ 1,995.00 (Single User License)

ID: N2EF751E9E9EN

Abstracts

Network Functions Virtualization (NFV) is a telecom led initiative that aims to utilize standard IT virtualization technology to consolidate many telecom network equipment types onto industry standard high volume servers, switches and storage. NFV involves implementing network functions in software that can run on a range of industry standard server hardware, and that can be moved to, or instantiated in, various locations in the network as required, without the need to install new proprietary equipment.

With a promise to drive significant CapEx and OpEx reductions, NFV is poised to transform the entire telecom infrastructure ecosystem. Mind Commerce estimates that the overall global market for NFV will grow at a CAGR of 83.1% between 2015 and 2020. NFV revenues will reach \$ 8.7 Billion by the end of 2020.

This report provides an in-depth assessment of the global NFV market, including a study of the business case, technology, use cases, vendor landscape, and a quantitative assessment of the industry from 2015 to 2020. 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.

The addresses the following key topics:

Key Issues in NFV: An assessment of key issues related to NFV

NFV Technology: A review of the underlying technologies that enable NFV

The Business Case for NFV: An assessment of the business case, growth drivers and barriers for NFV

Vendor Assessment: An assessment of the vendor landscape of leading players within the NFV market

Market Analysis and Forecasts: A global and regional assessment of the market size and forecasts for the NFV market from 2015 to 2020

Target Audience:

SDN solution providers

Mobile network operators

Telecom infrastructure providers

Cloud and virtualized datacenters

NFV technology/solution vendors

Telecom service providers of all types

Digital content and application providers

Contents

1 INTRODUCTION

- 1.1 Topics Covered
- 1.2 Target Audience
- 1.3 Companies Mentioned

2 EXECUTIVE SUMMARY

- 2.1 Global NFV Market 2015 - 2020
- 2.2 Key NFV Trends through 2020

3 VIRTUAL NETWORKING: THE BOOMING INDUSTRY OF THE DECADE

- 3.1 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 Need 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
- 3.4 Virtualization
 - 3.4.1 Virtualization Software
- 3.5 Virtual Datacenter
 - 3.5.1 Types of Virtual Datacenter
 - 3.5.1.1 Hardware Virtualized Datacenter
 - 3.5.1.2 Software Defined Datacenter (SDCC)
 - 3.5.2 Use of Virtual Datacenter in Telecommunication
- 3.6 Server Virtualization
- 3.7 Storage Virtualization
 - 3.7.1 Block Level Virtualization
 - 3.7.2 File Level Virtualization
- 3.8 Network Virtualization
 - 3.8.1 Software Defined Network (SDN)

- 3.8.2 Network Function Virtualization
- 3.9 Differences between NFV, NV and SDN

4 NFV CONCEPT, ROLE AND KEY BENEFITS

- 4.1 Concept of NFV
- 4.2 Features of NFV
- 4.3 Role of NFV
- 4.4 Key Benefits that Address NFV

5 NFV ARCHITECTURAL FRAMEWORK AND FUNDAMENTALS

- 5.1 NFV Reference Architectural Framework
- 5.2 NFV Infrastructure (NFVI)
 - 5.2.1 VNF Forwarding Graph (VNF FG)
- 5.3 NFV Proofs of Concept (PoC)
- 5.4 NFV Use Cases
 - 5.4.1 Service Chaining of NFs for Carriers
 - 5.4.2 Multi-vendor Distributed NFV
 - 5.4.3 NFV IaaS

6 STATUS OF NFV IN 2014

- 6.1 Key Developments and Deployments of NFV
 - 6.1.1 Nokia Networks Shipped First Commercial NFV Solution
 - 6.1.2 Huawei Leads Telco Transformation via Commercial Deployments of SDN and NFV
 - 6.1.3 Dell introduced NFV starter Kit in October 2014
 - 6.1.4 Alcatel-Lucent Announced a Portfolio of Virtualized Mobile Network Function Applications
 - 6.1.5 Radisys Launched T-100 Series for Virtualized Data Plane for NFV
 - 6.1.6 Amdocs launched Network Cloud Service Orchestrator
 - 6.1.7 Ericson Launched an OPNFV Certification Program
 - 6.1.8 Telefonica and NEC Showcased Residential vCPE on NFV Platform
- 6.2 NFV Trials in 2014
 - 6.2.1 Telekom Austria Group among the First Operators in Europe to Present NFV Trial
 - 6.2.2 Telekom Austria Group Trials NFV-based IMS with Project Clearwater
 - 6.2.3 NTT DoCoMo Conducts NFV Trials with Different Combination of Six vendors

- 6.2.4 KT and Alcatel-Lucent to run NFV Trials in Korea
- 6.3 Schedule of ETSI NFV Releases
 - 6.3.1 Finalized and Published Works on NFV at ETSI
 - 6.3.2 Works to be completed on NFV at ETSI
- 6.4 OPNFV: Linux Foundation Collaborative Projects
- 6.5 CloudNFV Consortium

7 NFV BUSINESS CASE

- 7.1 Background:
- 7.2 Solution:
- 7.3 Necessity of NFV
- 7.4 Benefits of implementing NFV
 - 7.4.1 CAPEX / OPEX Reduction
 - 7.4.2 Improved Time to Market
 - 7.4.3 Improved Scalability of Services and Network Topology
 - 7.4.4 Energy Reduction and Improved Operational Efficiency
- 7.5 Challenges in Implementing NFV

8 NFV GLOBAL MARKETS 2015 - 2020

- 8.1 State of the NFV Market in 2014
- 8.2 NFV Markets 2015 through 2020
 - 8.2.1 NFV Platforms will be the Entry Point for Hardware Virtualization Vendors in NFV Space
 - 8.2.2 Virtual Network Functions Will Lead the Markets in First Half of the Forecast Period
 - 8.2.3 The Second Half of Forecasting Period Will See Rise in the Service Based NFV

9 NFV VENDOR LANDSCAPE

- 9.1 Vendor Status
 - 9.1.1 6WIND
 - 9.1.2 Alcatel-Lucent
 - 9.1.3 Amdocs
 - 9.1.4 Cisco
 - 9.1.5 Connectem
 - 9.1.6 ConteXtream
 - 9.1.7 Ericsson

- 9.1.8 F5
- 9.1.9 Huawei
- 9.1.10 Intel
- 9.1.11 Juniper
- 9.1.12 NEC
- 9.1.13 NSN
- 9.1.14 Openwave Mobility
- 9.1.15 Skyfire/Opera
- 9.1.16 Oracle
- 9.1.17 RAD Data Communications

10 CONCLUSIONS AND A LOOKING TOWARDS THE FUTURE

10.1 Key Issues in an NFV World

- 10.1.1 What are Key Elements from a Cost/Performance Perspective?
- 10.1.2 Dimensioning and Elasticity
- 10.1.3 Transition from Now to New: Fork-lift vs. Selective Implementation
- 10.1.4 Does NFV help in Content Delivery?
- 10.1.5 Does NFV help in Contextual Communications?
- 10.1.6 Will NFV Generate New Revenues, Services, and Applications?
- 10.1.7 Does NFV open the Industry for Net Gains with Non-traditional telcos?
- 10.1.8 Could an Enterprise integrate its Cloud/IT Services with NFV and Realize

Benefits?

10.2 Final Conclusions

List Of Figures

LIST OF FIGURES

- Figure 1: Global NFV Markets: 2015 - 2020
- Figure 2: Types of Virtualization
- Figure 3: High Level NFV Framework
- Figure 4: NFV Reference Architectural Framework
- Figure 5: COTS Hardware in an NFV Setup
- Figure 6: NFV Infrastructure
- Figure 7: NFV Infrastructure domains
- Figure 8: NFV End to End Network
- Figure 9: CloudNFV Open Framework
- Figure 10: NFV Deployment by Type 2015 - 2020
- Figure 11: Cloud Management and Orchestration

List Of Tables

LIST OF TABLES

- Table 1: Global NFV Markets: 2015 - 2020
- Table 2: Next Generation Networking Concepts
- Table 3: Types of Server Virtualization
- Table 4: Comparison between SDN, NFV and NV
- Table 5: Completed PoC: ETSI
- Table 6: Ongoing PoC: ETSI
- Table 7: NFV Tasks Completed/Finalized at ETSI
- Table 8: NFV Tasks in Progress at ETSI
- Table 9: NFV Markets by Deployment Type 2015 - 2020

I would like to order

Product name: Network Functions Virtualization (NFV) Market: Business Case, Market Analysis and Forecasts 2015 - 2020

Product link: <https://marketpublishers.com/r/N2EF751E9E9EN.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/N2EF751E9E9EN.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**

Customer 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

